

TMDL Sediment Quality Assessment Study at  
the B Street/Broadway Piers, Downtown Anchorage, and Switzer  
Creek, San Diego

PHASE II  
Final Report  
**TEMPORAL VARIABILITY, CAUSES OF IMPACTS, AND LIKELY  
SOURCES OF CONTAMINANTS OF CONCERN**

**APPENDICES A - I**

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*In cooperation with:*  
San Diego Regional Water Quality Control Board  
City of San Diego  
San Diego Unified Port District

## Appendices A - I

## Appendix A. Sediment chemistry data.

### Sediment chemistry data March 02, 2004—Metals results summary (all results in mg/kg dry)—CRG Marine Laboratories, Inc.

| Analyte    | MDL   | BST01      | BST04      | BST07      |            |
|------------|-------|------------|------------|------------|------------|
| Aluminum   | 1     | Off Scale  | Off Scale  | Off Scale  |            |
| Antimony   | 0.05  | 1.02       | 0.96       | 0.68       |            |
| Arsenic    | 0.05  | 12.4       | 13.3       | 18         |            |
| Barium     | 0.05  | 138        | 143        | 177        |            |
| Beryllium  | 0.01  | 0.85       | 0.87       | 1.15       |            |
| Cadmium    | 0.01  | 0.96       | 1.07       | 0.55       |            |
| Chromium   | 0.05  | 97.6       | 108        | 130        |            |
| Cobalt     | 0.01  | 11.7       | 12         | 15.4       |            |
| Copper     | 0.01  | 2960       | 192        | 247        |            |
| Iron       | 1     | 44400      | 45500      | 60400      |            |
| Lead       | 0.01  | 106        | 77.1       | 88.7       |            |
| Manganese  | 0.05  | 291        | 308        | 416        |            |
| Mercury    | 0.005 | 0.58       | 0.51       | 0.5        |            |
| Molybdenum | 0.05  | 1.8        | 2.04       | 1.92       |            |
| Nickel     | 0.01  | 25.6       | 24.8       | 28.7       |            |
| Selenium   | 0.05  | 1.33       | 1.43       | 1.75       |            |
| Silver     | 0.01  | 2.4        | 2.63       | 2.55       |            |
| Strontium  | 0.05  | 74.7       | 83.3       | 79.7       |            |
| Thallium   | 0.01  | 0.59       | 0.58       | 0.72       |            |
| Tin        | 0.05  | 36.2       | 15.5       | 14.7       |            |
| Titanium   | 0.05  | 2210       | 2310       | 2880       |            |
| Vanadium   | 0.05  | 105        | 101        | 133        |            |
| Zinc       | 0.05  | 992        | 320        | 353        |            |
| Analyte    | MDL   | DAC02      | DAC03      | DAC04      |            |
| Aluminum   | 1     | Off Scale  | Off Scale  | Off Scale  |            |
| Antimony   | 0.05  | 0.64       | 0.63       | 0.55       |            |
| Arsenic    | 0.05  | 17.7       | 14.4       | 8.49       |            |
| Barium     | 0.05  | 169        | 140        | 86         |            |
| Beryllium  | 0.01  | 1.08       | 0.89       | 0.54       |            |
| Cadmium    | 0.01  | 0.83       | 0.72       | 0.35       |            |
| Chromium   | 0.05  | 171        | 192        | 72.3       |            |
| Cobalt     | 0.01  | 14.2       | 15         | 7.58       |            |
| Copper     | 0.01  | 238        | 180        | 104        |            |
| Iron       | 1     | 55500      | 46100      | 26900      |            |
| Lead       | 0.01  | 114        | 104        | 62.8       |            |
| Manganese  | 0.05  | 362        | 324        | 213        |            |
| Mercury    | 0.005 | 0.53       | 0.47       | 0.21       |            |
| Molybdenum | 0.05  | 1.73       | 2.13       | 1.34       |            |
| Nickel     | 0.01  | 33         | 48.2       | 17.1       |            |
| Selenium   | 0.05  | 1.2        | 1          | 0.63       |            |
| Silver     | 0.01  | 3.33       | 3.84       | 1.64       |            |
| Strontium  | 0.05  | 6.95       | 59.4       | 43.2       |            |
| Thallium   | 0.01  | 0.7        | 0.6        | 0.39       |            |
| Tin        | 0.05  | 15.8       | 12.8       | 6.55       |            |
| Titanium   | 0.05  | 2760       | 2420       | 1680       |            |
| Vanadium   | 0.05  | 124        | 102        | 64.3       |            |
| Zinc       | 0.05  | 341        | 282        | 189        |            |
| Analyte    | MDL   | SWZ01 (R1) | SWZ02 (R1) | SWZ04 (R1) | SWZ04 (R2) |
| Aluminum   | 1     | Off Scale  | Off Scale  | Off Scale  | Off Scale  |
| Antimony   | 0.05  | 1.37       | 1.66       | 1.59       | 1.48       |
| Arsenic    | 0.05  | 8.24       | 10.98      | 9.79       | 9.83       |

**Sediment chemistry data March 02, 2004—Metals results summary (all results in mg/kg dry)—CRG Marine Laboratories, Inc.**

|                |            |             |             |             |             |             |
|----------------|------------|-------------|-------------|-------------|-------------|-------------|
| Barium         | 0.05       | 124         | 126         | 126         | 118         |             |
| Beryllium      | 0.01       | 0.57        | 0.57        | 0.66        | 0.64        |             |
| Cadmium        | 0.01       | 0.87        | 1.32        | 0.91        | 0.83        |             |
| Chromium       | 0.05       | 53.1        | 63.9        | 74.8        | 67.8        |             |
| Cobalt         | 0.01       | 8.53        | 9.45        | 9.53        | 9.32        |             |
| Copper         | 0.01       | 133         | 149         | 201         | 201         |             |
| Iron           | 1          | 29300       | 30000       | 33800       | 32800       |             |
| Lead           | 0.01       | 115         | 112         | 141         | 142         |             |
| Manganese      | 0.05       | 216         | 218         | 244         | 230         |             |
| Mercury        | 0.005      | 0.2         | 0.22        | 0.45        | 0.46        |             |
| Molybdenum     | 0.05       | 3.22        | 4.8         | 2.62        | 2.46        |             |
| Nickel         | 0.01       | 18.1        | 19.7        | 18.9        | 18.4        |             |
| Selenium       | 0.05       | 0.67        | 1.16        | 1           | 0.97        |             |
| Silver         | 0.01       | 1.18        | 1.29        | 1.33        | 1.25        |             |
| Strontium      | 0.05       | 69.3        | 73          | 57.5        | 57.6        |             |
| Thallium       | 0.01       | 0.34        | 0.36        | 0.41        | 0.41        |             |
| Tin            | 0.05       | 8.86        | 9.92        | 10          | 9.42        |             |
| Titanium       | 0.05       | 1430        | 1500        | 1700        | 1700        |             |
| Vanadium       | 0.05       | 69.7        | 72.3        | 78.4        | 77.3        |             |
| Zinc           | 0.05       | 408         | 486         | 457         | 382         |             |
| <b>Analyte</b> | <b>MDL</b> | <b>2229</b> | <b>2238</b> | <b>2243</b> | <b>2433</b> | <b>2441</b> |
| Aluminum       | 1          | Off Scale   | Off Scale   | Off Scale   | 17800       | 38000       |
| Antimony       | 0.05       | 0.82        | 0.36        | 0.39        | 0.27        | 0.55        |
| Arsenic        | 0.05       | 4.53        | 6.75        | 5.28        | 4.89        | 10.5        |
| Barium         | 0.05       | 48.6        | 72          | 74.1        | 63.7        | 153         |
| Beryllium      | 0.01       | 0.25        | 0.61        | 0.39        | 0.34        | 0.78        |
| Cadmium        | 0.01       | 0.12        | 0.19        | 0.23        | 0.2         | 0.43        |
| Chromium       | 0.05       | 25.5        | 46.4        | 36.8        | 32.9        | 64.8        |
| Cobalt         | 0.01       | 4.29        | 8.59        | 5.49        | 4.88        | 10          |
| Copper         | 0.01       | 39.3        | 69          | 50.6        | 46.6        | 106         |
| Iron           | 1          | 15000       | 29200       | 20900       | 18400       | 41100       |
| Lead           | 0.01       | 19.6        | 19          | 16.5        | 15.5        | 27.2        |
| Manganese      | 0.05       | 126         | 242         | 186         | 163         | 352         |
| Mercury        | 0.005      | 0.1         | 0.14        | 0.11        | 0.09        | 0.14        |
| Molybdenum     | 0.05       | 0.35        | 0.48        | 0.6         | 0.55        | 2.13        |
| Nickel         | 0.01       | 6.29        | 13.4        | 9.73        | 8.64        | 21          |
| Selenium       | 0.05       | 0.22        | 0.43        | 0.25        | 0.25        | 2.21        |
| Silver         | 0.01       | 0.39        | 0.96        | 0.67        | 0.6         | 0.94        |
| Strontium      | 0.05       | 56.6        | 40.6        | 45.4        | 39.1        | 174         |
| Thallium       | 0.01       | 0.16        | 0.32        | 0.3         | 0.28        | 0.53        |
| Tin            | 0.05       | 5.14        | 3.65        | 3.11        | 2.93        | 5.47        |
| Titanium       | 0.05       | 953         | 1660        | 1480        | 1310        | 2450        |
| Vanadium       | 0.05       | 37.8        | 67.6        | 49.6        | 43.7        | 101         |
| Zinc           | 0.05       | 85.8        | 180         | 107         | 96.9        | 170         |

**Sediment chemistry data March 02, 2004—Pesticides results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

| <b>Analyte</b> | <b>MDL</b> | <b>BST01</b> | <b>BST04</b> | <b>BST07</b> |
|----------------|------------|--------------|--------------|--------------|
| 2,4'-DDD       | 1          | ND           | ND           | ND           |
| 2,4'-DDE       | 1          | ND           | ND           | ND           |
| 2,4'-DDT       | 1          | ND           | ND           | ND           |
| 4,4'-DDD       | 1          | ND           | ND           | ND           |
| 4,4'-DDE       | 1          | ND           | ND           | ND           |
| 4,4'-DDT       | 1          | ND           | ND           | ND           |
| Aldrin         | 1          | ND           | ND           | ND           |

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|                                  |     |            |            |            |            |
|----------------------------------|-----|------------|------------|------------|------------|
| 7) OTC Marine Laboratories, Inc. |     |            |            |            |            |
| BHC-alpha                        | 1   | ND         | ND         | ND         |            |
| BHC-beta                         | 1   | ND         | ND         | ND         |            |
| BHC-delta                        | 1   | ND         | ND         | ND         |            |
| BHC-gamma                        | 1   | ND         | ND         | ND         |            |
| Chlordane-alpha                  | 1   | ND         | ND         | ND         |            |
| Chlordane-gamma                  | 1   | ND         | ND         | ND         |            |
| DCPA (Dacthal)                   | 1   | ND         | ND         | ND         |            |
| Dieldrin                         | 1   | ND         | ND         | ND         |            |
| Endosulfan Sulfate               | 1   | ND         | ND         | ND         |            |
| Endosulfan-I                     | 1   | ND         | ND         | ND         |            |
| Endosulfan-II                    | 1   | ND         | ND         | ND         |            |
| Endrin                           | 1   | ND         | ND         | ND         |            |
| Endrin Aldehyde                  | 1   | ND         | ND         | ND         |            |
| Endrin Ketone                    | 1   | ND         | ND         | ND         |            |
| Heptachlor                       | 1   | ND         | ND         | ND         |            |
| Heptachlor Epoxide               | 1   | ND         | ND         | ND         |            |
| Methoxychlor                     | 1   | ND         | ND         | ND         |            |
| Mirex                            | 1   | ND         | ND         | ND         |            |
| Total Detectable DDTs            | 1   | ND         | ND         | ND         |            |
| Toxaphene                        | 10  | ND         | ND         | ND         |            |
| trans-Nonachlor                  | 1   | ND         | ND         | ND         |            |
| Analyte                          | MDL | DAC02      | DAC03      | DAC04      |            |
| 2,4'-DDD                         | 1   | ND         | ND         | ND         |            |
| 2,4'-DDE                         | 1   | ND         | ND         | ND         |            |
| 2,4'-DDT                         | 1   | ND         | ND         | ND         |            |
| 4,4'-DDD                         | 1   | ND         | ND         | ND         |            |
| 4,4'-DDE                         | 1   | ND         | ND         | ND         |            |
| 4,4'-DDT                         | 1   | ND         | ND         | ND         |            |
| Aldrin                           | 1   | ND         | ND         | ND         |            |
| BHC-alpha                        | 1   | ND         | ND         | ND         |            |
| BHC-beta                         | 1   | ND         | ND         | ND         |            |
| BHC-delta                        | 1   | ND         | ND         | ND         |            |
| BHC-gamma                        | 1   | ND         | ND         | ND         |            |
| Chlordane-alpha                  | 1   | ND         | ND         | 4.9        |            |
| Chlordane-gamma                  | 1   | ND         | ND         | 5.6        |            |
| DCPA (Dacthal)                   | 1   | ND         | ND         | ND         |            |
| Dieldrin                         | 1   | ND         | ND         | ND         |            |
| Endosulfan Sulfate               | 1   | ND         | ND         | ND         |            |
| Endosulfan-I                     | 1   | ND         | ND         | ND         |            |
| Endosulfan-II                    | 1   | ND         | ND         | ND         |            |
| Endrin                           | 1   | ND         | ND         | ND         |            |
| Endrin Aldehyde                  | 1   | ND         | ND         | ND         |            |
| Endrin Ketone                    | 1   | ND         | ND         | ND         |            |
| Heptachlor                       | 1   | ND         | ND         | ND         |            |
| Heptachlor Epoxide               | 1   | ND         | ND         | ND         |            |
| Methoxychlor                     | 1   | ND         | ND         | ND         |            |
| Mirex                            | 1   | ND         | ND         | ND         |            |
| Total Detectable DDTs            | 1   | ND         | ND         | ND         |            |
| Toxaphene                        | 10  | ND         | ND         | ND         |            |
| trans-Nonachlor                  | 1   | ND         | ND         | 4.8        |            |
| Analyte                          | MDL | SWZ01 (R1) | SWZ02 (R1) | SWZ04 (R1) | SWZ04 (R2) |
| 2,4'-DDD                         | 1   | ND         | ND         | ND         | ND         |
| 2,4'-DDE                         | 1   | ND         | ND         | ND         | ND         |
| 2,4'-DDT                         | 1   | ND         | ND         | ND         | ND         |
| 4,4'-DDD                         | 1   | ND         | ND         | ND         | ND         |

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|                       |            |             |             |             |             |             |
|-----------------------|------------|-------------|-------------|-------------|-------------|-------------|
| 4,4'-DDE              | 1          | ND          | ND          | ND          | ND          |             |
| 4,4'-DDT              | 1          | ND          | ND          | ND          | ND          |             |
| Aldrin                | 1          | ND          | ND          | ND          | ND          |             |
| BHC-alpha             | 1          | ND          | ND          | ND          | ND          |             |
| BHC-beta              | 1          | ND          | ND          | ND          | ND          |             |
| BHC-delta             | 1          | ND          | ND          | ND          | ND          |             |
| BHC-gamma             | 1          | ND          | ND          | ND          | ND          |             |
| Chlordane-alpha       | 1          | 25.6        | 20.4        | 6.5         | 4.9         |             |
| Chlordane-gamma       | 1          | 27.5        | 22.2        | 8           | 5.2         |             |
| DCPA (Dacthal)        | 1          | ND          | ND          | ND          | ND          |             |
| Dieldrin              | 1          | ND          | ND          | ND          | ND          |             |
| Endosulfan Sulfate    | 1          | ND          | ND          | ND          | ND          |             |
| Endosulfan-I          | 1          | ND          | ND          | ND          | ND          |             |
| Endosulfan-II         | 1          | ND          | ND          | ND          | ND          |             |
| Endrin                | 1          | ND          | ND          | ND          | ND          |             |
| Endrin Aldehyde       | 1          | ND          | ND          | ND          | ND          |             |
| Endrin Ketone         | 1          | ND          | ND          | ND          | ND          |             |
| Heptachlor            | 1          | ND          | ND          | ND          | ND          |             |
| Heptachlor Epoxide    | 1          | ND          | ND          | ND          | ND          |             |
| Methoxychlor          | 1          | ND          | ND          | ND          | ND          |             |
| Mirex                 | 1          | ND          | ND          | ND          | ND          |             |
| Total Detectable DDTs | 1          | ND          | ND          | ND          | ND          |             |
| Toxaphene             | 10         | ND          | ND          | ND          | ND          |             |
| trans-Nonachlor       | 1          | 27.1        | 22          | 6.8         | 4.8         |             |
| <b>Analyte</b>        | <b>MDL</b> | <b>2229</b> | <b>2238</b> | <b>2243</b> | <b>2433</b> | <b>2441</b> |
| 2,4'-DDD              | 1          | ND          | ND          | ND          | ND          | ND          |
| 2,4'-DDE              | 1          | ND          | ND          | ND          | ND          | ND          |
| 2,4'-DDT              | 1          | ND          | ND          | ND          | ND          | ND          |
| 4,4'-DDD              | 1          | ND          | ND          | ND          | ND          | ND          |
| 4,4'-DDE              | 1          | ND          | ND          | ND          | ND          | ND          |
| 4,4'-DDT              | 1          | ND          | ND          | 6.9         | ND          | ND          |
| Aldrin                | 1          | ND          | ND          | ND          | ND          | ND          |
| BHC-alpha             | 1          | ND          | ND          | ND          | ND          | ND          |
| BHC-beta              | 1          | ND          | ND          | ND          | ND          | ND          |
| BHC-delta             | 1          | ND          | ND          | ND          | ND          | ND          |
| BHC-gamma             | 1          | ND          | ND          | ND          | ND          | ND          |
| Chlordane-alpha       | 1          | ND          | ND          | ND          | ND          | ND          |
| Chlordane-gamma       | 1          | ND          | ND          | ND          | ND          | ND          |
| DCPA (Dacthal)        | 1          | ND          | ND          | ND          | ND          | ND          |
| Dieldrin              | 1          | ND          | ND          | ND          | ND          | ND          |
| Endosulfan Sulfate    | 1          | ND          | ND          | ND          | ND          | ND          |
| Endosulfan-I          | 1          | ND          | ND          | ND          | ND          | ND          |
| Endosulfan-II         | 1          | ND          | ND          | ND          | ND          | ND          |
| Endrin                | 1          | ND          | ND          | ND          | ND          | ND          |
| Endrin Aldehyde       | 1          | ND          | ND          | ND          | ND          | ND          |
| Endrin Ketone         | 1          | ND          | ND          | ND          | ND          | ND          |
| Heptachlor            | 1          | ND          | ND          | ND          | ND          | ND          |
| Heptachlor Epoxide    | 1          | ND          | ND          | ND          | ND          | ND          |
| Methoxychlor          | 1          | ND          | ND          | ND          | ND          | ND          |
| Mirex                 | 1          | ND          | ND          | ND          | ND          | ND          |
| Total Detectable DDTs | 1          | ND          | ND          | ND          | ND          | ND          |
| Toxaphene             | 10         | ND          | ND          | ND          | ND          | ND          |
| trans-Nonachlor       | 1          | ND          | ND          | ND          | ND          | ND          |

**Sediment chemistry data March 02, 2004—PAH results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

| Analyte                    | MDL | BST01      | BST04      | BST07      |            |
|----------------------------|-----|------------|------------|------------|------------|
| 1-Methylnaphthalene        | 1   | 1.9        | 4.1        | 2.6        |            |
| 1-Methylphenanthrene       | 1   | 18.4       | 45.4       | 69.6       |            |
| 2,3,5-Trimethylnaphthalene | 1   | 1.5        | 4.9        | 3.4        |            |
| 2,6-Dimethylnaphthalene    | 1   | 2.4        | 7          | 4.8        |            |
| 2-Methylnaphthalene        | 1   | 3.1        | 7.8        | 5.2        |            |
| Acenaphthene               | 1   | 3.2        | 22         | 18.1       |            |
| Acenaphthylene             | 1   | 19.9       | 58.3       | 92.5       |            |
| Anthracene                 | 1   | 120        | 353        | 532        |            |
| Benz[a]anthracene          | 1   | 844        | 1230       | 3110       |            |
| Benzo[a]pyrene             | 1   | 1890       | 2200       | 3090       |            |
| Benzo[b]fluoranthene       | 1   | 1580       | 1800       | 2660       |            |
| Benzo[e]pyrene             | 1   | 857        | 961        | 1360       |            |
| Benzo[g,h,i]perylene       | 1   | 595        | 601        | 703        |            |
| Benzo[k]fluoranthene       | 1   | 1440       | 1830       | 2500       |            |
| Biphenyl                   | 1   | 1.5        | 3.2        | 2          |            |
| Chrysene                   | 1   | 1040       | 1910       | 3810       |            |
| Dibenz[a,h]anthracene      | 1   | 203        | 229        | 266        |            |
| Fluoranthene               | 1   | 700        | 1150       | 4160       |            |
| Fluorene                   | 1   | 9.7        | 44.2       | 47.1       |            |
| Indeno[1,2,3-c,d]pyrene    | 1   | 891        | 971        | 1170       |            |
| Naphthalene                | 1   | 9.2        | 20.2       | 6          |            |
| Perylene                   | 1   | 382        | 412        | 627        |            |
| Phenanthrene               | 1   | 128        | 342        | 423        |            |
| Pyrene                     | 1   | 886        | 1090       | 2570       |            |
| Total Detectable PAHs      |     | 11626      | 15296      | 27232      |            |
| Analyte                    | MDL | DAC02      | DAC03      | DAC04      |            |
| 1-Methylnaphthalene        | 1   | 1          | 2.9        | ND         |            |
| 1-Methylphenanthrene       | 1   | 6.7        | 20.7       | 9.1        |            |
| 2,3,5-Trimethylnaphthalene | 1   | 1.7        | 3.2        | ND         |            |
| 2,6-Dimethylnaphthalene    | 1   | 1.9        | 4.6        | 1.6        |            |
| 2-Methylnaphthalene        | 1   | 1.5        | 6.2        | 1          |            |
| Acenaphthene               | 1   | 2          | 3.3        | 2.5        |            |
| Acenaphthylene             | 1   | 11.5       | 28.1       | 6.1        |            |
| Anthracene                 | 1   | 42.4       | 105        | 24         |            |
| Benz[a]anthracene          | 1   | 173        | 437        | 136        |            |
| Benzo[a]pyrene             | 1   | 541        | 1290       | 332        |            |
| Benzo[b]fluoranthene       | 1   | 441        | 1060       | 306        |            |
| Benzo[e]pyrene             | 1   | 271        | 659        | 193        |            |
| Benzo[g,h,i]perylene       | 1   | 240        | 639        | 197        |            |
| Benzo[k]fluoranthene       | 1   | 466        | 1060       | 306        |            |
| Biphenyl                   | 1   | ND         | 3          | ND         |            |
| Chrysene                   | 1   | 244        | 622        | 188        |            |
| Dibenz[a,h]anthracene      | 1   | 69.2       | 173        | 45.6       |            |
| Fluoranthene               | 1   | 173        | 579        | 227        |            |
| Fluorene                   | 1   | 2.4        | 6.1        | 3.1        |            |
| Indeno[1,2,3-c,d]pyrene    | 1   | 338        | 872        | 242        |            |
| Naphthalene                | 1   | 2.6        | 8.2        | 2.3        |            |
| Perylene                   | 1   | 99.9       | 236        | 80.5       |            |
| Phenanthrene               | 1   | 34.4       | 94.2       | 55.7       |            |
| Pyrene                     | 1   | 230        | 675        | 225        |            |
| Total Detectable PAHs      |     | 3394       | 8587       | 2583       |            |
| Analyte                    | MDL | SWZ01 (R1) | SWZ02 (R1) | SWZ04 (R1) | SWZ04 (R2) |
| 1-Methylnaphthalene        | 1   | 67.9       | 18.8       | 6.5        | 2.1        |
| 1-Methylphenanthrene       | 1   | 157        | 72.3       | 25.2       | 23.7       |
| 2,3,5-Trimethylnaphthalene | 1   | 41.7       | 25.7       | 6.3        | 4.1        |
| 2,6-Dimethylnaphthalene    | 1   | 52.8       | 22.9       | 8.4        | 3.6        |
| 2-Methylnaphthalene        | 1   | 68         | 33.6       | 9.2        | 4.6        |

**Sediment chemistry data March 02, 2004—PAH results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                            |            |             |             |             |             |             |
|----------------------------|------------|-------------|-------------|-------------|-------------|-------------|
| Acenaphthene               | 1          | 58.4        | 23.7        | 12.6        | 6.5         |             |
| Acenaphthylene             | 1          | 73.7        | 33.7        | 26.7        | 24.5        |             |
| Anthracene                 | 1          | 296         | 177         | 95.2        | 86.6        |             |
| Benz[a]anthracene          | 1          | 1924        | 856         | 602         | 411         |             |
| Benzo[a]pyrene             | 1          | 3020        | 1450        | 1300        | 922         |             |
| Benzo[b]fluoranthene       | 1          | 2530        | 1230        | 857         | 558         |             |
| Benzo[e]pyrene             | 1          | 1650        | 941         | 615         | 431         |             |
| Benzo[g,h,i]perylene       | 1          | 1660        | 772         | 599         | 422         |             |
| Benzo[k]fluoranthene       | 1          | 2160        | 1290        | 885         | 571         |             |
| Biphenyl                   | 1          | 25.2        | 19.6        | 10.6        | 4           |             |
| Chrysene                   | 1          | 2540        | 1200        | 678         | 467         |             |
| Dibenz[a,h]anthracene      | 1          | 320         | 171         | 130         | 89          |             |
| Fluoranthene               | 1          | 5000        | 1640        | 925         | 623         |             |
| Fluorene                   | 1          | 80.5        | 40          | 16.3        | 9.9         |             |
| Indeno[1,2,3-c,d]pyrene    | 1          | 2010        | 926         | 754         | 507         |             |
| Naphthalene                | 1          | 81.2        | 89.5        | 31          | 9.5         |             |
| Perylene                   | 1          | 805         | 366         | 279         | 185         |             |
| Phenanthrene               | 1          | 1290        | 443         | 186         | 117         |             |
| Pyrene                     | 1          | 5000        | 1880        | 1200        | 863         |             |
| Total Detectable PAHs      |            | 30911       | 13721       | 9258        | 6345        |             |
| <b>Analyte</b>             | <b>MDL</b> | <b>2229</b> | <b>2238</b> | <b>2243</b> | <b>2433</b> | <b>2441</b> |
| 1-Methylnaphthalene        | 1          | ND          | ND          | ND          | ND          | ND          |
| 1-Methylphenanthrene       | 1          | 1.8         | ND          | ND          | 1.1         | 1.2         |
| 2,3,5-Trimethylnaphthalene | 1          | ND          | ND          | ND          | ND          | ND          |
| 2,6-Dimethylnaphthalene    | 1          | ND          | ND          | ND          | 1.4         | ND          |
| 2-Methylnaphthalene        | 1          | ND          | ND          | ND          | 1.5         | ND          |
| Acenaphthene               | 1          | ND          | ND          | ND          | 1.9         | ND          |
| Acenaphthylene             | 1          | 2           | ND          | ND          | 1.6         | 1.5         |
| Anthracene                 | 1          | 3.9         | 1.3         | 1.8         | 4.8         | 22.1        |
| Benz[a]anthracene          | 1          | 38.7        | 8.3         | 7.1         | 27.5        | 57.3        |
| Benzo[a]pyrene             | 1          | 110         | 17.5        | 22.7        | 51.1        | 83.5        |
| Benzo[b]fluoranthene       | 1          | 51.1        | 14.8        | 20.5        | 35.3        | 68.7        |
| Benzo[e]pyrene             | 1          | 50          | 10.8        | 13.8        | 25.9        | 39          |
| Benzo[g,h,i]perylene       | 1          | 59.4        | 16.9        | 17.3        | 26.3        | 28.5        |
| Benzo[k]fluoranthene       | 1          | 66.7        | 16.7        | 18.2        | 43.4        | 83.5        |
| Biphenyl                   | 1          | ND          | 1           | ND          | ND          | ND          |
| Chrysene                   | 1          | 39.1        | 10.5        | 8.7         | 35.3        | 94.5        |
| Dibenz[a,h]anthracene      | 1          | 7.7         | 2.1         | 3.3         | 5.22        | 7.8         |
| Fluoranthene               | 1          | 28.8        | 14.7        | 9.5         | 20.8        | 63.8        |
| Fluorene                   | 1          | ND          | ND          | ND          | ND          | 2.4         |
| Indeno[1,2,3-c,d]pyrene    | 1          | 56.6        | 17.5        | 21.9        | 30.7        | 44          |
| Naphthalene                | 1          | ND          | ND          | ND          | ND          | ND          |
| Perylene                   | 1          | 13.9        | 4.9         | 5.2         | 11.5        | 15.5        |
| Phenanthrene               | 1          | 3.5         | 2.8         | 1           | 4.2         | 16.4        |
| Pyrene                     | 1          | 48.4        | 15.6        | 10.7        | 26.1        | 50          |
| Total Detectable PAHs      |            | 581         | 155         | 161         | 355         | 679         |

**Sediment chemistry data March 02, 2004—PCB congeners results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                |            |              |              |              |
|----------------|------------|--------------|--------------|--------------|
| <b>Analyte</b> | <b>MDL</b> | <b>BST01</b> | <b>BST04</b> | <b>BST07</b> |
| PCB018         | 1          | ND           | ND           | ND           |
| PCB028         | 1          | ND           | ND           | ND           |
| PCB031         | 1          | ND           | ND           | ND           |
| PCB033         | 1          | ND           | ND           | ND           |
| PCB037         | 1          | ND           | ND           | ND           |
| PCB044         | 1          | ND           | ND           | ND           |
| PCB049         | 1          | ND           | ND           | ND           |
| PCB052         | 1          | ND           | ND           | ND           |

**Sediment chemistry data March 02, 2004—PCB congeners results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |            |              |              |              |
|-----------------------|------------|--------------|--------------|--------------|
| PCB066                | 1          | ND           | ND           | ND           |
| PCB070                | 1          | ND           | ND           | ND           |
| PCB074                | 1          | ND           | ND           | ND           |
| PCB077                | 1          | ND           | ND           | ND           |
| PCB081                | 1          | ND           | ND           | ND           |
| PCB087                | 1          | ND           | ND           | ND           |
| PCB095                | 1          | 2.6          | 3.6          | 3            |
| PCB097                | 1          | ND           | ND           | ND           |
| PCB099                | 1          | ND           | ND           | ND           |
| PCB101                | 1          | 6.3          | 5.6          | 5.8          |
| PCB105                | 1          | ND           | ND           | ND           |
| PCB110                | 1          | 4.5          | 3.6          | 4.8          |
| PCB114                | 1          | ND           | ND           | ND           |
| PCB118                | 1          | ND           | ND           | ND           |
| PCB119                | 1          | ND           | ND           | ND           |
| PCB123                | 1          | ND           | ND           | ND           |
| PCB126                | 1          | ND           | ND           | ND           |
| PCB128+167            | 1          | ND           | ND           | ND           |
| PCB138                | 1          | 5.3          | ND           | 8.4          |
| PCB141                | 1          | ND           | ND           | ND           |
| PCB149                | 1          | 4.7          | 3.4          | 4.9          |
| PCB151                | 1          | ND           | 2.5          | 1.6          |
| PCB153                | 1          | 4.6          | 7.4          | 5.9          |
| PCB156                | 1          | ND           | ND           | ND           |
| PCB157                | 1          | ND           | ND           | ND           |
| PCB158                | 1          | ND           | ND           | ND           |
| PCB168+132            | 1          | ND           | ND           | ND           |
| PCB169                | 1          | ND           | ND           | ND           |
| PCB170                | 1          | ND           | ND           | ND           |
| PCB177                | 1          | ND           | ND           | ND           |
| PCB180                | 1          | 6.5          | 6.3          | 4.1          |
| PCB183                | 1          | 1.6          | 1.5          | ND           |
| PCB187                | 1          | 3            | 3.1          | 2            |
| PCB189                | 1          | ND           | ND           | ND           |
| PCB194                | 1          | ND           | ND           | ND           |
| PCB200                | 1          | ND           | ND           | ND           |
| PCB201                | 1          | ND           | ND           | ND           |
| PCB206                | 1          | ND           | 5.9          | ND           |
| Total Detectable PCBs |            | 39.1         | 42.9         | 40.5         |
| <b>Analyte</b>        | <b>MDL</b> | <b>DAC02</b> | <b>DAC03</b> | <b>DAC04</b> |
| PCB018                | 1          | ND           | 10.2         | ND           |
| PCB028                | 1          | ND           | ND           | ND           |
| PCB031                | 1          | ND           | 39.8         | ND           |
| PCB033                | 1          | ND           | ND           | ND           |
| PCB037                | 1          | ND           | ND           | ND           |
| PCB044                | 1          | ND           | 37.9         | 3.5          |
| PCB049                | 1          | ND           | 53.8         | ND           |
| PCB052                | 1          | ND           | 57.1         | 6.3          |
| PCB066                | 1          | ND           | 85.6         | 8.4          |
| PCB070                | 1          | ND           | 56.6         | 5.8          |
| PCB074                | 1          | ND           | ND           | ND           |
| PCB077                | 1          | ND           | ND           | ND           |
| PCB081                | 1          | ND           | 4.4          | ND           |
| PCB087                | 1          | ND           | ND           | ND           |
| PCB095                | 1          | 4            | 26.6         | 4.6          |
| PCB097                | 1          | ND           | 21.1         | ND           |
| PCB099                | 1          | 5.2          | 32.3         | 5.4          |
| PCB101                | 1          | 7.8          | 60.2         | 8.7          |

**Sediment chemistry data March 02, 2004—PCB congeners results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |            |                   |                   |                   |                   |
|-----------------------|------------|-------------------|-------------------|-------------------|-------------------|
| PCB105                | 1          | ND                | ND                | ND                |                   |
| PCB110                | 1          | 4.6               | 47.2              | 8.8               |                   |
| PCB114                | 1          | ND                | ND                | ND                |                   |
| PCB118                | 1          | ND                | 46.5              | 8.1               |                   |
| PCB119                | 1          | ND                | ND                | ND                |                   |
| PCB123                | 1          | ND                | ND                | ND                |                   |
| PCB126                | 1          | ND                | ND                | ND                |                   |
| PCB128+167            | 1          | ND                | ND                | ND                |                   |
| PCB138                | 1          | 11.1              | 53.6              | 13.2              |                   |
| PCB141                | 1          | ND                | ND                | ND                |                   |
| PCB149                | 1          | 6.4               | 28.3              | 6.2               |                   |
| PCB151                | 1          | 3.2               | 13                | ND                |                   |
| PCB153                | 1          | 8.6               | 43.3              | 9                 |                   |
| PCB156                | 1          | ND                | ND                | ND                |                   |
| PCB157                | 1          | ND                | ND                | ND                |                   |
| PCB158                | 1          | ND                | ND                | ND                |                   |
| PCB168+132            | 1          | ND                | ND                | ND                |                   |
| PCB169                | 1          | ND                | ND                | ND                |                   |
| PCB170                | 1          | ND                | ND                | ND                |                   |
| PCB177                | 1          | 3.8               | 14.4              | ND                |                   |
| PCB180                | 1          | 8.1               | 26                | 7.8               |                   |
| PCB183                | 1          | 2.4               | 8                 | ND                |                   |
| PCB187                | 1          | 4.2               | 16.8              | 4.5               |                   |
| PCB189                | 1          | ND                | ND                | ND                |                   |
| PCB194                | 1          | ND                | ND                | ND                |                   |
| PCB200                | 1          | ND                | ND                | ND                |                   |
| PCB201                | 1          | ND                | ND                | ND                |                   |
| PCB206                | 1          | ND                | ND                | ND                |                   |
| Total Detectable PCBs |            | 69.4              | 782.7             | 100.3             |                   |
| <b>Analyte</b>        | <b>MDL</b> | <b>SWZ01 (R1)</b> | <b>SWZ02 (R1)</b> | <b>SWZ04 (R1)</b> | <b>SWZ04 (R2)</b> |
| PCB018                | 1          | 50.3              | ND                | ND                | ND                |
| PCB028                | 1          | 49.1              | ND                | ND                | ND                |
| PCB031                | 1          | 44.8              | ND                | ND                | ND                |
| PCB033                | 1          | 35.4              | ND                | ND                | ND                |
| PCB037                | 1          | ND                | ND                | ND                | ND                |
| PCB044                | 1          | 22                | ND                | ND                | ND                |
| PCB049                | 1          | ND                | ND                | ND                | ND                |
| PCB052                | 1          | 29.6              | 9                 | 9.5               | 6.6               |
| PCB066                | 1          | ND                | ND                | ND                | ND                |
| PCB070                | 1          | ND                | ND                | 8.3               | 4.4               |
| PCB074                | 1          | ND                | ND                | ND                | ND                |
| PCB077                | 1          | ND                | ND                | ND                | ND                |
| PCB081                | 1          | ND                | ND                | ND                | ND                |
| PCB087                | 1          | ND                | ND                | ND                | ND                |
| PCB095                | 1          | 21.9              | 16.8              | 10.6              | 7.7               |
| PCB097                | 1          | ND                | ND                | ND                | ND                |
| PCB099                | 1          | ND                | ND                | 8.5               | 7.1               |
| PCB101                | 1          | 30.1              | 36.4              | 19.2              | 12.9              |
| PCB105                | 1          | ND                | ND                | ND                | ND                |
| PCB110                | 1          | 22.3              | 28.4              | 15                | 11.8              |
| PCB114                | 1          | ND                | ND                | ND                | ND                |
| PCB118                | 1          | 22.8              | ND                | 10.4              | 9.2               |
| PCB119                | 1          | ND                | ND                | ND                | ND                |
| PCB123                | 1          | ND                | ND                | ND                | ND                |
| PCB126                | 1          | ND                | ND                | ND                | ND                |
| PCB128+167            | 1          | ND                | ND                | ND                | ND                |
| PCB138                | 1          | ND                | 53.9              | 14.5              | 11.4              |
| PCB141                | 1          | ND                | ND                | ND                | ND                |

**Sediment chemistry data March 02, 2004—PCB congeners results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |            |             |             |             |             |             |
|-----------------------|------------|-------------|-------------|-------------|-------------|-------------|
| PCB149                | 1          | 21.1        | 21.6        | 9.8         | 8.5         |             |
| PCB151                | 1          | ND          | ND          | ND          | ND          |             |
| PCB153                | 1          | 32.8        | 24.5        | 12.1        | 10.8        |             |
| PCB156                | 1          | ND          | ND          | ND          | ND          |             |
| PCB157                | 1          | ND          | ND          | ND          | ND          |             |
| PCB158                | 1          | ND          | ND          | ND          | ND          |             |
| PCB168+132            | 1          | ND          | ND          | ND          | ND          |             |
| PCB169                | 1          | ND          | ND          | ND          | ND          |             |
| PCB170                | 1          | ND          | ND          | ND          | ND          |             |
| PCB177                | 1          | ND          | ND          | ND          | ND          |             |
| PCB180                | 1          | ND          | 18.8        | ND          | ND          |             |
| PCB183                | 1          | ND          | ND          | ND          | ND          |             |
| PCB187                | 1          | ND          | ND          | 5.7         | 4.3         |             |
| PCB189                | 1          | ND          | ND          | ND          | ND          |             |
| PCB194                | 1          | ND          | ND          | ND          | ND          |             |
| PCB200                | 1          | ND          | ND          | ND          | ND          |             |
| PCB201                | 1          | ND          | ND          | ND          | ND          |             |
| PCB206                | 1          | ND          | ND          | ND          | ND          |             |
| Total Detectable PCBs |            | 382.2       | 209.4       | 123.6       | 94.7        |             |
| <b>Analyte</b>        | <b>MDL</b> | <b>2229</b> | <b>2238</b> | <b>2243</b> | <b>2433</b> | <b>2441</b> |
| PCB018                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB028                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB031                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB033                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB037                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB044                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB049                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB052                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB066                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB070                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB074                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB077                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB081                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB087                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB095                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB097                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB099                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB101                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB105                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB110                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB114                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB118                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB119                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB123                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB126                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB128+167            | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB138                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB141                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB149                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB151                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB153                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB156                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB157                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB158                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB168+132            | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB169                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB170                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB177                | 1          | ND          | ND          | ND          | ND          | ND          |

**Sediment chemistry data March 02, 2004—PCB congeners results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |   |    |    |    |    |    |
|-----------------------|---|----|----|----|----|----|
| PCB180                | 1 | ND | ND | ND | ND | ND |
| PCB183                | 1 | ND | ND | ND | ND | ND |
| PCB187                | 1 | ND | ND | ND | ND | ND |
| PCB189                | 1 | ND | ND | ND | ND | ND |
| PCB194                | 1 | ND | ND | ND | ND | ND |
| PCB200                | 1 | ND | ND | ND | ND | ND |
| PCB201                | 1 | ND | ND | ND | ND | ND |
| PCB206                | 1 | ND | ND | ND | ND | ND |
| Total Detectable PCBs |   | ND | ND | ND | ND | ND |

**Sediment chemistry data March 02, 2004—Aroclors results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

| City of Chicago - Environmental Laboratory, Inc. |     |            |            |            |            |      |
|--------------------------------------------------|-----|------------|------------|------------|------------|------|
| Analyte                                          | MDL | BST01      | BST04      | BST07      |            |      |
| Aroclor 1016                                     | 10  | ND         | ND         | ND         |            |      |
| Aroclor 1221                                     | 10  | ND         | ND         | ND         |            |      |
| Aroclor 1232                                     | 10  | ND         | ND         | ND         |            |      |
| Aroclor 1242                                     | 10  | ND         | ND         | ND         |            |      |
| Aroclor 1248                                     | 10  | ND         | ND         | ND         |            |      |
| Aroclor 1254                                     | 10  | 36.7       | 29.6       | 38.8       |            |      |
| Aroclor 1260                                     | 10  | ND         | ND         | ND         |            |      |
| Analyte                                          | MDL | DAC02      | DAC03      | DAC04      |            |      |
| Aroclor 1016                                     | 10  | ND         | ND         | ND         |            |      |
| Aroclor 1221                                     | 10  | ND         | ND         | ND         |            |      |
| Aroclor 1232                                     | 10  | ND         | ND         | ND         |            |      |
| Aroclor 1242                                     | 10  | ND         | 347        | ND         |            |      |
| Aroclor 1248                                     | 10  | ND         | ND         | ND         |            |      |
| Aroclor 1254                                     | 10  | 37.4       | 385        | 71.8       |            |      |
| Aroclor 1260                                     | 10  | ND         | ND         | ND         |            |      |
| Analyte                                          | MDL | SWZ01 (R1) | SWZ02 (R1) | SWZ04 (R1) | SWZ04 (R2) |      |
| Aroclor 1016                                     | 10  | ND         | ND         | ND         | ND         |      |
| Aroclor 1221                                     | 10  | ND         | ND         | ND         | ND         |      |
| Aroclor 1232                                     | 10  | ND         | ND         | ND         | ND         |      |
| Aroclor 1242                                     | 10  | 820        | ND         | ND         | ND         |      |
| Aroclor 1248                                     | 10  | ND         | ND         | ND         | ND         |      |
| Aroclor 1254                                     | 10  | 182        | 232        | 122        | 96.3       |      |
| Aroclor 1260                                     | 10  | ND         | ND         | ND         | ND         |      |
| Analyte                                          | MDL | 2229       | 2238       | 2243       | 2433       | 2441 |
| Aroclor 1016                                     | 10  | ND         | ND         | ND         | ND         | ND   |
| Aroclor 1221                                     | 10  | ND         | ND         | ND         | ND         | ND   |
| Aroclor 1232                                     | 10  | ND         | ND         | ND         | ND         | ND   |
| Aroclor 1242                                     | 10  | ND         | ND         | ND         | ND         | ND   |
| Aroclor 1248                                     | 10  | ND         | ND         | ND         | ND         | ND   |
| Aroclor 1254                                     | 10  | ND         | ND         | ND         | ND         | ND   |
| Aroclor 1260                                     | 10  | ND         | ND         | ND         | ND         | ND   |

**Sediment chemistry data August 17, 2004—Metals results summary (all results in mg/kg dry)—CRG Marine Laboratories, Inc.**

| Analyte   | MDL  | BST01 | BST04 | BST07 |
|-----------|------|-------|-------|-------|
| Aluminum  | 1    | ND    | ND    | ND    |
| Antimony  | 0.05 | 0.43  | 0.4   | 0.4   |
| Arsenic   | 0.05 | 11.7  | 12.6  | 11.4  |
| Barium    | 0.05 | 120   | 122   | 116   |
| Beryllium | 0.01 | 0.67  | 0.66  | 0.63  |
| Cadmium   | 0.01 | 0.53  | 0.26  | 0.24  |
| Chromium  | 0.05 | 78    | 71.8  | 70.2  |
| Cobalt    | 0.01 | 9.5   | 9.63  | 9.24  |
| Copper    | 0.01 | 160   | 140   | 144   |
| Iron      | 1    | 38800 | 40300 | 3790  |
| Lead      | 0.01 | 60    | 46.3  | 51.1  |

**Sediment chemistry data August 17, 2004—Metals results summary (all results in mg/kg dry)—CRG Marine Laboratories, Inc.**

|                |                       |                   |                   |                   |
|----------------|-----------------------|-------------------|-------------------|-------------------|
| Manganese      | 0.05                  | 260               | 281               | 259               |
| Mercury        | 0.005                 | 1.05              | 0.89              | 0.89              |
| Molybdenum     | 0.05                  | 1.34              | 0.97              | 0.99              |
| Nickel         | 0.01                  | 18.7              | 17.9              | 17.3              |
| Selenium       | 0.05                  | 1.68              | 1.63              | 1.65              |
| Silver         | 0.01                  | 1.76              | 1.73              | 1.51              |
| Strontium      | 0.05                  | 52.7              | 57                | 62.7              |
| Thallium       | 0.01                  | 0.4               | 0.38              | 0.39              |
| Tin            | 0.05                  | 9.42              | 8.69              | 8.87              |
| Titanium       | 0.05                  | 1980              | 2040              | 1960              |
| Vanadium       | 0.05                  | 87.4              | 88.7              | 87.2              |
| Zinc           | 0.05                  | 245               | 208               | 210               |
| <b>Analyte</b> | <b>MDL</b>            | <b>DAC02</b>      | <b>DAC03</b>      | <b>DAC04</b>      |
| Aluminum       | 1                     | ND                | ND                | ND                |
| Antimony       | 0.05                  | 0.72              | 0.53              | 0.52              |
| Arsenic        | 0.05                  | 14.7              | 14.2              | 10.1              |
| Barium         | 0.05                  | 134               | 113               | 99.9              |
| Beryllium      | 0.01                  | 0.87              | 0.64              | 0.53              |
| Cadmium        | 0.01                  | 0.53              | 0.41              | 0.45              |
| Chromium       | 0.05                  | 125               | 154               | 78.9              |
| Cobalt         | 0.01                  | 10.2              | 11.7              | 8.08              |
| Copper         | 0.01                  | 180               | 160               | 121               |
| Iron           | 1                     | 42700             | 38900             | 31900             |
| Lead           | 0.01                  | 88.7              | 93.9              | 72.1              |
| Manganese      | 0.05                  | 288               | 282               | 224               |
| Mercury        | 0.005                 | 1.39              | 1.2               | 0.79              |
| Molybdenum     | 0.05                  | 1.24              | 1.86              | 1.47              |
| Nickel         | 0.01                  | 24.6              | 43.2              | 18.3              |
| Selenium       | 0.05                  | 1.75              | 1.65              | 1.45              |
| Silver         | 0.01                  | 2.84              | 4.54              | 2                 |
| Strontium      | 0.05                  | 54.9              | 49.1              | 51.5              |
| Thallium       | 0.01                  | 0.45              | 0.4               | 0.36              |
| Tin            | 0.05                  | 12.5              | 11.2              | 7.35              |
| Titanium       | 0.05                  | 2180              | 2010              | 1790              |
| Vanadium       | 0.05                  | 98.6              | 87.3              | 73.9              |
| Zinc           | 0.05                  | 265               | 242               | 226               |
| <b>Analyte</b> | <b>MDL SWZ01 (R1)</b> | <b>SWZ02 (R1)</b> | <b>SWZ04 (R1)</b> | <b>SWZ04 (R2)</b> |
| Aluminum       | 1                     | ND                | ND                | ND                |
| Antimony       | 0.05                  | 0.9               | 0.88              | 1.24              |
| Arsenic        | 0.05                  | 9.81              | 9.8               | 10.7              |
| Barium         | 0.05                  | 106               | 104               | 119               |
| Beryllium      | 0.01                  | 0.52              | 0.53              | 0.57              |
| Cadmium        | 0.01                  | 1.02              | 0.73              | 0.79              |
| Chromium       | 0.05                  | 54.9              | 56.1              | 59.2              |
| Cobalt         | 0.01                  | 8.09              | 7.94              | 8.89              |
| Copper         | 0.01                  | 128               | 126               | 148               |
| Iron           | 1                     | 31000             | 3110              | 34000             |
| Lead           | 0.01                  | 98.2              | 92.1              | 102               |
| Manganese      | 0.05                  | 214               | 216               | 227               |
| Mercury        | 0.005                 | 0.85              | 0.85              | 0.91              |
| Molybdenum     | 0.05                  | 3.41              | 3.33              | 3.32              |
| Nickel         | 0.01                  | 16.3              | 15.5              | 17.7              |
| Selenium       | 0.05                  | 1.66              | 1.62              | 1.73              |
| Silver         | 0.01                  | 1.16              | 1.11              | 1.16              |
| Strontium      | 0.05                  | 48.7              | 47.7              | 53.8              |

**Sediment chemistry data August 17, 2004—Metals results summary (all results in mg/kg dry)—CRG Marine Laboratories, Inc.**

|                |            |             |             |             |             |             |
|----------------|------------|-------------|-------------|-------------|-------------|-------------|
| Thallium       | 0.01       | 0.32        | 0.32        | 0.36        | 0.37        |             |
| Tin            | 0.05       | 8.27        | 9.84        | 8.8         | 9.02        |             |
| Titanium       | 0.05       | 1680        | 1640        | 1790        | 1780        |             |
| Vanadium       | 0.05       | 76.1        | 75          | 83.3        | 83          |             |
| Zinc           | 0.05       | 303         | 290         | 338         | 325         |             |
| <b>Analyte</b> | <b>MDL</b> | <b>2229</b> | <b>2238</b> | <b>2243</b> | <b>2433</b> | <b>2441</b> |
| Aluminum       | 1          | ND          | ND          | ND          | ND          | ND          |
| Antimony       | 0.05       | 0.23        | 0.25        | 0.21        | 0.19        | 0.38        |
| Arsenic        | 0.05       | 5.86        | 8.51        | 5.71        | 5.92        | 9.89        |
| Barium         | 0.05       | 55          | 87.6        | 42.6        | 73.4        | 128         |
| Beryllium      | 0.01       | 0.28        | 60          | 0.3         | 0.31        | 0.58        |
| Cadmium        | 0.01       | 0.08        | 0.17        | 0.08        | 0.21        | 0.43        |
| Chromium       | 0.05       | 28          | 48.9        | 30.4        | 32.6        | 53.1        |
| Cobalt         | 0.01       | 4.37        | 9.1         | 4.47        | 4.93        | 8.11        |
| Copper         | 0.01       | 47.1        | 70          | 56          | 47.2        | 95          |
| Iron           | 1          | 17200       | 34900       | 17000       | 19900       | 36300       |
| Lead           | 0.01       | 27.2        | 20.3        | 19.6        | 14.9        | 22.4        |
| Manganese      | 0.05       | 139         | 274         | 134         | 178         | 303         |
| Mercury        | 0.005      | 0.48        | 0.45        | 0.41        | 0.39        | 0.48        |
| Molybdenum     | 0.05       | 0.42        | 0.41        | 0.4         | 0.48        | 1.62        |
| Nickel         | 0.01       | 7.14        | 14.1        | 7.1         | 8.61        | 17.3        |
| Selenium       | 0.05       | 0.66        | 1.21        | 0.78        | 0.88        | 2.2         |
| Silver         | 0.01       | 0.19        | 0.64        | 0.8         | 0.6         | 1.13        |
| Strontium      | 0.05       | 56          | 44.3        | 28.4        | 43          | 140         |
| Thallium       | 0.01       | 0.16        | 0.29        | 0.18        | 0.23        | 0.39        |
| Tin            | 0.05       | 4.14        | 4.27        | 3.59        | 2.98        | 4.71        |
| Titanium       | 0.05       | 1060        | 1790        | 1050        | 1350        | 2150        |
| Vanadium       | 0.05       | 40.4        | 76.8        | 36.2        | 47.8        | 85.3        |
| Zinc           | 0.05       | 92.2        | 184         | 108         | 100         | 147         |

**Sediment chemistry data August 17, 2004—Pesticides results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

| <b>Analyte</b>     | <b>MDL</b> | <b>BST01</b> | <b>BST04</b> | <b>BST07</b> |
|--------------------|------------|--------------|--------------|--------------|
| 2,4'-DDD           | 1          | ND           | ND           | ND           |
| 2,4'-DDE           | 1          | ND           | ND           | ND           |
| 2,4'-DDT           | 1          | ND           | ND           | ND           |
| 4,4'-DDD           | 1          | ND           | ND           | ND           |
| 4,4'-DDE           | 1          | ND           | ND           | ND           |
| 4,4'-DDT           | 1          | ND           | ND           | ND           |
| Aldrin             | 1          | ND           | ND           | ND           |
| BHC-alpha          | 1          | ND           | ND           | ND           |
| BHC-beta           | 1          | ND           | ND           | ND           |
| BHC-delta          | 1          | ND           | ND           | ND           |
| BHC-gamma          | 1          | ND           | ND           | ND           |
| Chlordane-alpha    | 1          | ND           | ND           | ND           |
| Chlordane-gamma    | 1          | ND           | ND           | ND           |
| DCPA (Dacthal)     | 1          | ND           | ND           | ND           |
| Dieldrin           | 1          | ND           | ND           | ND           |
| Endosulfan Sulfate | 1          | ND           | ND           | ND           |
| Endosulfan-I       | 1          | ND           | ND           | ND           |
| Endosulfan-II      | 1          | ND           | ND           | ND           |
| Endrin             | 1          | ND           | ND           | ND           |
| Endrin Aldehyde    | 1          | ND           | ND           | ND           |
| Endrin Ketone      |            | ND           | ND           | ND           |
| Heptachlor         | 1          | ND           | ND           | ND           |
| Heptachlor Epoxide | 1          | ND           | ND           | ND           |

**Sediment chemistry data August 17, 2004—Pesticides results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |            |              |              |              |
|-----------------------|------------|--------------|--------------|--------------|
| Methoxychlor          | 1          | ND           | ND           | ND           |
| Mirex                 | 1          | ND           | ND           | ND           |
| Total Detectable DDTs | 1          | ND           | ND           | ND           |
| Toxaphene             | 10         | ND           | ND           | ND           |
| trans-Nonachlor       | 1          | ND           | ND           | ND           |
| <b>Analyte</b>        | <b>MDL</b> | <b>DAC02</b> | <b>DAC03</b> | <b>DAC04</b> |
| 2,4'-DDD              | 1          | ND           | ND           | ND           |
| 2,4'-DDE              | 1          | ND           | ND           | ND           |
| 2,4'-DDT              | 1          | ND           | ND           | ND           |
| 4,4'-DDD              | 1          | ND           | ND           | ND           |
| 4,4'-DDE              | 1          | ND           | ND           | ND           |
| 4,4'-DDT              | 1          | ND           | ND           | ND           |
| Aldrin                | 1          | ND           | ND           | ND           |
| BHC-alpha             | 1          | ND           | ND           | ND           |
| BHC-beta              | 1          | ND           | ND           | ND           |
| BHC-delta             | 1          | ND           | ND           | ND           |
| BHC-gamma             | 1          | ND           | ND           | ND           |
| Chlordane-alpha       | 1          | ND           | ND           | 3.3          |
| Chlordane-gamma       | 1          | ND           | ND           | 3.6          |
| DCPA (Dacthal)        | 1          | ND           | ND           | ND           |
| Dieldrin              | 1          | ND           | ND           | ND           |
| Endosulfan Sulfate    | 1          | ND           | ND           | ND           |
| Endosulfan-I          | 1          | ND           | ND           | ND           |
| Endosulfan-II         | 1          | ND           | ND           | ND           |
| Endrin                | 1          | ND           | ND           | ND           |
| Endrin Aldehyde       | 1          | ND           | ND           | ND           |
| Endrin Ketone         |            | ND           | ND           | ND           |
| Heptachlor            | 1          | ND           | ND           | ND           |
| Heptachlor Epoxide    | 1          | ND           | ND           | ND           |
| Methoxychlor          | 1          | ND           | ND           | ND           |
| Mirex                 | 1          | ND           | ND           | ND           |
| Total Detectable DDTs | 1          | ND           | ND           | ND           |
| Toxaphene             | 10         | ND           | ND           | ND           |
| trans-Nonachlor       | 1          | ND           | ND           | 3.7          |
| <b>Analyte</b>        | <b>MDL</b> | <b>SWZ01</b> | <b>SWZ02</b> | <b>SWZ04</b> |
| 2,4'-DDD              | 1          | ND           | ND           | ND           |
| 2,4'-DDE              | 1          | ND           | ND           | ND           |
| 2,4'-DDT              | 1          | ND           | ND           | ND           |
| 4,4'-DDD              | 1          | ND           | ND           | ND           |
| 4,4'-DDE              | 1          | ND           | ND           | ND           |
| 4,4'-DDT              | 1          | ND           | ND           | ND           |
| Aldrin                | 1          | ND           | ND           | ND           |
| BHC-alpha             | 1          | ND           | ND           | ND           |
| BHC-beta              | 1          | ND           | ND           | ND           |
| BHC-delta             | 1          | ND           | ND           | ND           |
| BHC-gamma             | 1          | ND           | ND           | ND           |
| Chlordane-alpha       | 1          | 2.2          | 4.4          | 3.2          |
| Chlordane-gamma       | 1          | 2.8          | 5.1          | 4            |
| DCPA (Dacthal)        | 1          | ND           | ND           | ND           |
| Dieldrin              | 1          | ND           | ND           | ND           |
| Endosulfan Sulfate    | 1          | ND           | ND           | ND           |
| Endosulfan-I          | 1          | ND           | ND           | ND           |
| Endosulfan-II         | 1          | ND           | ND           | ND           |
| Endrin                | 1          | ND           | ND           | ND           |
| Endrin Aldehyde       | 1          | ND           | ND           | ND           |

**Sediment chemistry data August 17, 2004—Pesticides results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |            |                  |                  |             |             |             |             |
|-----------------------|------------|------------------|------------------|-------------|-------------|-------------|-------------|
| Endrin Ketone         | 1          | ND               | ND               | ND          |             |             |             |
| Heptachlor            | 1          | ND               | ND               | ND          |             |             |             |
| Heptachlor Epoxide    | 1          | ND               | ND               | ND          |             |             |             |
| Methoxychlor          | 1          | ND               | ND               | ND          |             |             |             |
| Mirex                 | 1          | ND               | ND               | ND          |             |             |             |
| Total Detectable DDTs | 1          | ND               | ND               | ND          |             |             |             |
| Toxaphene             | 10         | ND               | ND               | ND          |             |             |             |
| trans-Nonachlor       | 1          | 2.9              | 4.9              | 3.6         |             |             |             |
| <b>Analyte</b>        | <b>MDL</b> | <b>2229 (R1)</b> | <b>2229 (R2)</b> | <b>2238</b> | <b>2243</b> | <b>2433</b> | <b>2441</b> |
| 2,4'-DDD              | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| 2,4'-DDE              | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| 2,4'-DDT              | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| 4,4'-DDD              | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| 4,4'-DDE              | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| 4,4'-DDT              | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| Aldrin                | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| BHC-alpha             | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| BHC-beta              | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| BHC-delta             | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| BHC-gamma             | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| Chlordane-alpha       | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| Chlordane-gamma       | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| DCPA (Dacthal)        | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| Dieldrin              | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| Endosulfan Sulfate    | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| Endosulfan-I          | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| Endosulfan-II         | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| Endrin                | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| Endrin Aldehyde       | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| Endrin Ketone         | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| Heptachlor            | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| Heptachlor Epoxide    | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| Methoxychlor          | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| Mirex                 | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| Total Detectable DDTs | 1          | ND               | ND               | ND          | ND          | ND          | ND          |
| Toxaphene             | 10         | ND               | ND               | ND          | ND          | ND          | ND          |
| trans-Nonachlor       | 1          | ND               | ND               | ND          | ND          | ND          | ND          |

**Sediment chemistry data August 17, 2004—PAH results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                            |            |              |              |              |
|----------------------------|------------|--------------|--------------|--------------|
| <b>Analyte</b>             | <b>MDL</b> | <b>BST01</b> | <b>BST04</b> | <b>BST07</b> |
| 1-Methylnaphthalene        | 1          | ND           | ND           | 2.1          |
| 1-Methylphenanthrene       | 1          | ND           | ND           | 22.5         |
| 2,3,5-Trimethylnaphthalene | 1          | ND           | ND           | ND           |
| 2,6-Dimethylnaphthalene    | 1          | ND           | ND           | 3.3          |
| 2-Methylnaphthalene        | 1          | 1.3          | 1.4          | 4            |
| Acenaphthene               | 1          | 1.9          | 2.9          | 26.8         |
| Acenaphthylene             | 1          | 9.9          | 12.2         | 42.1         |
| Anthracene                 | 1          | 39.8         | 44           | 339          |
| Benz[a]anthracene          | 1          | 240          | 298          | 2850         |
| Benzo[a]pyrene             | 1          | 440          | 150          | 1570         |
| Benzo[b]fluoranthene       | 1          | 400          | 270          | 1660         |
| Benzo[e]pyrene             | 1          | 190          | 322          | 652          |
| Benzo[g,h,i]perylene       | 1          | 123          | 29.8         | 237          |
| Benzo[k]fluoranthene       | 1          | 384          | 317          | 1500         |
| Biphenyl                   | 1          | ND           | ND           | 2.8          |

**Sediment chemistry data August 17, 2004—PAH results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                            |            |              |              |              |
|----------------------------|------------|--------------|--------------|--------------|
| Chrysene                   | 1          | 215          | 15           | 1990         |
| Dibenz[a,h]anthracene      | 1          | 51.1         | 125          | 127          |
| Fluoranthene               | 1          | 112          | 214          | 4430         |
| Fluorene                   | 1          | 3.4          | 4.1          | 41.2         |
| Indeno[1,2,3-c,d]pyrene    | 1          | 156          | 57.3         | 350          |
| Naphthalene                | 1          | 1.4          | 2.1          | 2.1          |
| Perylene                   | 1          | 76.1         | 304          | 279          |
| Phenanthrene               | 1          | 19.3         | 30.7         | 342          |
| Pyrene                     | 1          | 80.3         | 98.1         | 1500         |
| Total Detectable PAHs      |            | 2544.5       | 105.19       | 105.19       |
| <b>Analyte</b>             | <b>MDL</b> | <b>DAC02</b> | <b>DAC03</b> | <b>DAC04</b> |
| 1-Methylnaphthalene        | 1          | ND           | 2.4          | ND           |
| 1-Methylphenanthrene       | 1          | ND           | ND           | ND           |
| 2,3,5-Trimethylnaphthalene | 1          | ND           | ND           | ND           |
| 2,6-Dimethylnaphthalene    | 1          | ND           | 1.8          | 1.1          |
| 2-Methylnaphthalene        | 1          | ND           | 8            | 1.2          |
| Acenaphthene               | 1          | ND           | 4            | 1.4          |
| Acenaphthylene             | 1          | 3.7          | 4.9          | 4.3          |
| Anthracene                 | 1          | 9.8          | 28.8         | 16.9         |
| Benz[a]anthracene          | 1          | 56.4         | 492          | 129          |
| Benzo[a]pyrene             | 1          | 150          | 740          | 281          |
| Benzo[b]fluoranthene       | 1          | 129          | 392          | 254          |
| Benzo[e]pyrene             | 1          | 70.6         | 250          | 129          |
| Benzo[g,h,i]perylene       | 1          | 69.9         | 203          | 122          |
| Benzo[k]fluoranthene       | 1          | 126          | 417          | 236          |
| Biphenyl                   | 1          | ND           | 1.2          | ND           |
| Chrysene                   | 1          | 60.8         | 300          | 117          |
| Dibenz[a,h]anthracene      | 1          | 18.7         | 91.7         | 44.2         |
| Fluoranthene               | 1          | 31.7         | 313          | 129          |
| Fluorene                   | 1          | ND           | 2.7          | ND           |
| Indeno[1,2,3-c,d]pyrene    | 1          | 79.8         | 229          | 133          |
| Naphthalene                | 1          | ND           | 11.5         | 2            |
| Perylene                   | 1          | 23.9         | 83.7         | 58.7         |
| Phenanthrene               | 1          | ND           | 46.5         | 18.8         |
| Pyrene                     | 1          | ND           | 403          | 72.6         |
| Total Detectable PAHs      |            | 105.19       | 105.19       | 105.19       |
| <b>Analyte</b>             | <b>MDL</b> | <b>SWZ01</b> | <b>SWZ02</b> | <b>SWZ04</b> |
| 1-Methylnaphthalene        | 1          | ND           | 5.2          | ND           |
| 1-Methylphenanthrene       | 1          | ND           | 16.2         | ND           |
| 2,3,5-Trimethylnaphthalene | 1          | 3.7          | 37.1         | 3            |
| 2,6-Dimethylnaphthalene    | 1          | 2.1          | 6.8          | 2.9          |
| 2-Methylnaphthalene        | 1          | 2            | 7.4          | 2.1          |
| Acenaphthene               | 1          | 3.5          | 4.4          | 3.5          |
| Acenaphthylene             | 1          | 7.4          | 14.6         | 9.2          |
| Anthracene                 | 1          | 19.6         | 31.3         | 30.2         |
| Benz[a]anthracene          | 1          | 170          | 265          | 252          |
| Benzo[a]pyrene             | 1          | 421          | 565          | 526          |
| Benzo[b]fluoranthene       | 1          | 295          | 426          | 381          |
| Benzo[e]pyrene             | 1          | 183          | 241          | 215          |
| Benzo[g,h,i]perylene       | 1          | 226          | 269          | 254          |
| Benzo[k]fluoranthene       | 1          | 253          | 353          | 335          |
| Biphenyl                   | 1          | 1.3          | 2.1          | 1.5          |
| Chrysene                   | 1          | 141          | 234          | 203          |
| Dibenz[a,h]anthracene      | 1          | 54           | 73.7         | 70.8         |
| Fluoranthene               | 1          | 195          | 385          | 312          |
| Fluorene                   | 1          | 3.7          | 6.3          | 5.4          |
| Indeno[1,2,3-c,d]pyrene    | 1          | 220          | 272          | 260          |
| Naphthalene                | 1          | 3.7          | 4.4          | 3.2          |

**Sediment chemistry data August 17, 2004—PAH results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

| Perylene                   | 1   | 83.3      | 104       | 100    |       |        |       |
|----------------------------|-----|-----------|-----------|--------|-------|--------|-------|
| Phenanthrene               | 1   | 23.8      | 103       | 53.3   |       |        |       |
| Pyrene                     | 1   | 214       | 421       | 314    |       |        |       |
| Total Detectable PAHs      |     | 105.19    | 105.19    | 105.19 |       |        |       |
| Analyte                    | MDL | 2229 (R1) | 2229 (R2) | 2238   | 2243  | 2433   | 2441  |
| 1-Methylnaphthalene        | 1   | ND        | ND        | ND     | ND    | 2.7    | ND    |
| 1-Methylphenanthrene       | 1   | ND        | ND        | 29.6   | ND    | ND     | ND    |
| 2,3,5-Trimethylnaphthalene | 1   | ND        | ND        | ND     | ND    | ND     | ND    |
| 2,6-Dimethylnaphthalene    | 1   | ND        | ND        | ND     | ND    | ND     | ND    |
| 2-Methylnaphthalene        | 1   | ND        | ND        | ND     | ND    | 6.1    | ND    |
| Acenaphthene               | 1   | ND        | ND        | ND     | ND    | 1.5    | ND    |
| Acenaphthylene             | 1   | 3.4       | 2         | ND     | ND    | 9.8    | ND    |
| Anthracene                 | 1   | 10.3      | ND        | 1.1    | ND    | 27.8   | 6.8   |
| Benz[a]anthracene          | 1   | 116       | 39.1      | 3.6    | 11    | 269    | 26.5  |
| Benzo[a]pyrene             | 1   | 184       | 64.9      | 8.1    | 20.6  | 531    | 30.5  |
| Benzo[b]fluoranthene       | 1   | 103       | 49.3      | 6.8    | 17.9  | 346    | 24.1  |
| Benzo[e]pyrene             | 1   | 73.1      | 29.9      | 3.5    | 10.9  | 225    | 12.7  |
| Benzo[g,h,i]perylene       | 1   | 89.4      | 28.2      | 3.6    | 10.1  | 212    | 7.4   |
| Benzo[k]fluoranthene       | 1   | 122       | 46.7      | 5.9    | 16.2  | 355    | 25.5  |
| Biphenyl                   | 1   | ND        | ND        | ND     | ND    | 2.4    | ND    |
| Chrysene                   | 1   | 75.7      | 26.4      | 4.3    | 8.5   | 233    | 23.9  |
| Dibenz[a,h]anthracene      | 1   | 22.5      | 8.4       | ND     | ND    | ND     | ND    |
| Fluoranthene               | 1   | 127       | 17.9      | 15     | ND    | 168    | 9.4   |
| Fluorene                   | 1   | 1.4       | ND        | ND     | ND    | 2.4    | ND    |
| Indeno[1,2,3-c,d]pyrene    | 1   | 96        | 29.7      | 3.4    | 9.6   | 227    | 10.3  |
| Naphthalene                | 1   | ND        | ND        | ND     | ND    | 13.5   | ND    |
| Perylene                   | 1   | 31.5      | 10.1      | ND     | 3.8   | 70.4   | 4.1   |
| Phenanthrene               | 1   | 27.1      | ND        | 9.6    | ND    | 32.2   | ND    |
| Pyrene                     | 1   | 94.4      | ND        | 79.6   | ND    | 165    | ND    |
| Total Detectable PAHs      |     | 105.19    | 105.19    | 174.1  | 108.6 | 2899.8 | 181.2 |

**Sediment chemistry data August 17, 2004—PCB congeners results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

| Analyte | MDL | BST01 | BST04 | BST07 |
|---------|-----|-------|-------|-------|
| PCB018  | 1   | ND    | ND    | ND    |
| PCB028  | 1   | ND    | ND    | ND    |
| PCB031  | 1   | ND    | ND    | ND    |
| PCB033  | 1   | ND    | ND    | ND    |
| PCB037  | 1   | ND    | ND    | ND    |
| PCB044  | 1   | ND    | ND    | ND    |
| PCB049  | 1   | ND    | ND    | ND    |
| PCB052  | 1   | ND    | ND    | ND    |
| PCB066  | 1   | ND    | ND    | ND    |
| PCB070  | 1   | ND    | ND    | ND    |
| PCB074  | 1   | ND    | ND    | ND    |
| PCB077  | 1   | ND    | ND    | ND    |
| PCB081  | 1   | ND    | ND    | ND    |
| PCB087  | 1   | ND    | ND    | ND    |
| PCB095  | 1   | 1     | ND    | ND    |
| PCB097  | 1   | ND    | ND    | ND    |
| PCB099  | 1   | ND    | ND    | 1     |
| PCB101  | 1   | 1.8   | ND    | 1.1   |
| PCB105  | 1   | ND    | ND    | ND    |
| PCB110  | 1   | 1.1   | ND    | 1.1   |
| PCB114  | 1   | ND    | ND    | ND    |
| PCB118  | 1   | ND    | ND    | ND    |
| PCB119  | 1   | ND    | ND    | ND    |
| PCB123  | 1   | ND    | ND    | ND    |

**Sediment chemistry data August 17, 2004—PCB congeners results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |            |              |              |              |
|-----------------------|------------|--------------|--------------|--------------|
| PCB126                | 1          | ND           | ND           | ND           |
| PCB128+167            | 1          | ND           | ND           | ND           |
| PCB138                | 1          | 1.7          | ND           | 1            |
| PCB141                | 1          | ND           | ND           | ND           |
| PCB149                | 1          | 1.1          | ND           | ND           |
| PCB151                | 1          | ND           | ND           | ND           |
| PCB153                | 1          | 1.7          | ND           | ND           |
| PCB156                | 1          | ND           | ND           | ND           |
| PCB157                | 1          | ND           | ND           | ND           |
| PCB158                | 1          | ND           | ND           | ND           |
| PCB168+132            | 1          | ND           | ND           | ND           |
| PCB169                | 1          | ND           | ND           | ND           |
| PCB170                | 1          | ND           | ND           | ND           |
| PCB177                | 1          | ND           | ND           | ND           |
| PCB180                | 1          | 1.6          | ND           | ND           |
| PCB183                | 1          | ND           | ND           | ND           |
| PCB187                | 1          | ND           | ND           | ND           |
| PCB189                | 1          | ND           | ND           | ND           |
| PCB194                | 1          | ND           | ND           | ND           |
| PCB200                | 1          | ND           | ND           | ND           |
| PCB201                | 1          | ND           | ND           | ND           |
| PCB206                | 1          | ND           | ND           | ND           |
| Total Detectable PCBs |            | 10           | ND           | 4.2          |
| <b>Analyte</b>        | <b>MDL</b> | <b>DAC02</b> | <b>DAC03</b> | <b>DAC04</b> |
| PCB018                | 1          | ND           | 5.5          | ND           |
| PCB028                | 1          | ND           | 6.3          | ND           |
| PCB031                | 1          | ND           | 7.8          | ND           |
| PCB033                | 1          | ND           | ND           | ND           |
| PCB037                | 1          | ND           | ND           | ND           |
| PCB044                | 1          | ND           | 3.7          | ND           |
| PCB049                | 1          | 1.8          | 11.9         | 2.5          |
| PCB052                | 1          | ND           | 11           | 1.6          |
| PCB066                | 1          | ND           | 10.1         | 2.8          |
| PCB070                | 1          | ND           | 8.7          | 2.3          |
| PCB074                | 1          | 2.1          | 6.3          | 4.3          |
| PCB077                | 1          | ND           | ND           | ND           |
| PCB081                | 1          | ND           | ND           | ND           |
| PCB087                | 1          | ND           | ND           | ND           |
| PCB095                | 1          | 1.1          | 3.6          | 2.8          |
| PCB097                | 1          | ND           | ND           | ND           |
| PCB099                | 1          | ND           | 3.4          | 2.1          |
| PCB101                | 1          | ND           | 6.7          | 5.4          |
| PCB105                | 1          | ND           | ND           | ND           |
| PCB110                | 1          | 1.2          | 5.2          | 4            |
| PCB114                | 1          | ND           | ND           | ND           |
| PCB118                | 1          | ND           | 7.9          | 2.9          |
| PCB119                | 1          | ND           | ND           | ND           |
| PCB123                | 1          | ND           | ND           | ND           |
| PCB126                | 1          | ND           | ND           | ND           |
| PCB128+167            | 1          | ND           | ND           | ND           |
| PCB138                | 1          | 1.2          | 6.1          | 4            |
| PCB141                | 1          | ND           | ND           | ND           |
| PCB149                | 1          | 1.3          | 3.2          | 3            |
| PCB151                | 1          | ND           | 1.3          | 1.2          |
| PCB153                | 1          | 1.7          | 7.9          | 3.8          |
| PCB156                | 1          | ND           | ND           | ND           |
| PCB157                | 1          | ND           | ND           | ND           |
| PCB158                | 1          | ND           | ND           | ND           |

**Sediment chemistry data August 17, 2004—PCB congeners results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |            |              |              |              |
|-----------------------|------------|--------------|--------------|--------------|
| PCB168+132            | 1          | ND           | ND           | ND           |
| PCB169                | 1          | ND           | ND           | ND           |
| PCB170                | 1          | ND           | ND           | ND           |
| PCB177                | 1          | ND           | 1.1          | 1.6          |
| PCB180                | 1          | 1.7          | 3.3          | 3.7          |
| PCB183                | 1          | ND           | ND           | ND           |
| PCB187                | 1          | 1.1          | 1.6          | 1.6          |
| PCB189                | 1          | ND           | ND           | ND           |
| PCB194                | 1          | ND           | ND           | ND           |
| PCB200                | 1          | ND           | ND           | ND           |
| PCB201                | 1          | ND           | ND           | ND           |
| PCB206                | 1          | ND           | ND           | ND           |
| Total Detectable PCBs |            | 13.2         | 122.6        | 49.6         |
| <b>Analyte</b>        | <b>MDL</b> | <b>SWZ01</b> | <b>SWZ02</b> | <b>SWZ04</b> |
| PCB018                | 1          | ND           | ND           | ND           |
| PCB028                | 1          | ND           | ND           | ND           |
| PCB031                | 1          | ND           | ND           | ND           |
| PCB033                | 1          | ND           | ND           | ND           |
| PCB037                | 1          | ND           | ND           | ND           |
| PCB044                | 1          | ND           | ND           | ND           |
| PCB049                | 1          | ND           | ND           | ND           |
| PCB052                | 1          | ND           | ND           | ND           |
| PCB066                | 1          | ND           | ND           | ND           |
| PCB070                | 1          | ND           | ND           | ND           |
| PCB074                | 1          | ND           | ND           | ND           |
| PCB077                | 1          | ND           | ND           | ND           |
| PCB081                | 1          | ND           | ND           | ND           |
| PCB087                | 1          | ND           | ND           | ND           |
| PCB095                | 1          | 1.7          | 2.8          | 1.6          |
| PCB097                | 1          | ND           | ND           | ND           |
| PCB099                | 1          | 1.8          | ND           | 1.5          |
| PCB101                | 1          | 3.1          | 4.4          | 2.4          |
| PCB105                | 1          | ND           | ND           | ND           |
| PCB110                | 1          | 2.3          | 3.2          | 1.9          |
| PCB114                | 1          | ND           | ND           | ND           |
| PCB118                | 1          | ND           | ND           | ND           |
| PCB119                | 1          | ND           | ND           | ND           |
| PCB123                | 1          | ND           | ND           | ND           |
| PCB126                | 1          | ND           | ND           | ND           |
| PCB128+167            | 1          | ND           | ND           | ND           |
| PCB138                | 1          | ND           | ND           | 2.9          |
| PCB141                | 1          | ND           | ND           | ND           |
| PCB149                | 1          | 2.7          | 2.9          | 1.5          |
| PCB151                | 1          | ND           | ND           | ND           |
| PCB153                | 1          | 2.2          | 3            | 1.2          |
| PCB156                | 1          | ND           | ND           | ND           |
| PCB157                | 1          | ND           | ND           | ND           |
| PCB158                | 1          | ND           | ND           | ND           |
| PCB168+132            | 1          | ND           | ND           | ND           |
| PCB169                | 1          | ND           | ND           | ND           |
| PCB170                | 1          | ND           | ND           | ND           |
| PCB177                | 1          | ND           | 1.4          | ND           |
| PCB180                | 1          | 1.7          | ND           | 4.8          |
| PCB183                | 1          | ND           | ND           | ND           |
| PCB187                | 1          | 1.2          | 1.4          | 1            |
| PCB189                | 1          | ND           | ND           | ND           |
| PCB194                | 1          | ND           | ND           | ND           |
| PCB200                | 1          | ND           | ND           | ND           |

**Sediment chemistry data August 17, 2004—PCB congeners results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |            |             |             |             |             |             |
|-----------------------|------------|-------------|-------------|-------------|-------------|-------------|
| PCB201                | 1          | ND          | ND          | ND          |             |             |
| PCB206                | 1          | ND          | ND          | ND          |             |             |
| Total Detectable PCBs |            | 16.7        | 19.1        | 18.8        |             |             |
| <b>Analyte</b>        | <b>MDL</b> | <b>2229</b> | <b>2238</b> | <b>2243</b> | <b>2433</b> | <b>2441</b> |
| PCB018                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB028                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB031                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB033                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB037                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB044                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB049                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB052                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB066                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB070                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB074                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB077                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB081                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB087                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB095                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB097                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB099                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB101                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB105                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB110                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB114                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB118                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB119                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB123                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB126                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB128+167            | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB138                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB141                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB149                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB151                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB153                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB156                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB157                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB158                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB168+132            | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB169                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB170                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB177                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB180                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB183                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB187                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB189                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB194                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB200                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB201                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB206                | 1          | ND          | ND          | ND          | ND          | ND          |
| Total Detectable PCBs |            | ND          | ND          | ND          | ND          | ND          |

**Sediment chemistry data August 17, 2004—Aroclors results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                |            |              |              |              |
|----------------|------------|--------------|--------------|--------------|
| <b>Analyte</b> | <b>MDL</b> | <b>BST01</b> | <b>BST04</b> | <b>BST07</b> |
| Aroclor 1016   | 10         | ND           | ND           | ND           |
| Aroclor 1221   | 10         | ND           | ND           | ND           |
| Aroclor 1232   | 10         | ND           | ND           | ND           |

**Sediment chemistry data August 17, 2004—Aroclors results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                                                  |     |           |           |       |      |      |
|--------------------------------------------------|-----|-----------|-----------|-------|------|------|
| Analyte g/100 ml - CMA Marine Laboratories, Inc. |     |           |           |       |      |      |
| Aroclor 1242                                     | 10  | ND        | ND        | ND    |      |      |
| Aroclor 1248                                     | 10  | ND        | ND        | ND    |      |      |
| Aroclor 1254                                     | 10  | ND        | ND        | ND    |      |      |
| Aroclor 1260                                     | 10  | ND        | ND        | ND    |      |      |
| Analyte                                          | MDL | DAC02     | DAC03     | DAC04 |      |      |
| Aroclor 1016                                     | 10  | ND        | ND        | ND    |      |      |
| Aroclor 1221                                     | 10  | ND        | ND        | ND    |      |      |
| Aroclor 1232                                     | 10  | ND        | ND        | ND    |      |      |
| Aroclor 1242                                     | 10  | ND        | 68.4      | ND    |      |      |
| Aroclor 1248                                     | 10  | ND        | ND        | ND    |      |      |
| Aroclor 1254                                     | 10  | 10        | 42.4      | 32.4  |      |      |
| Aroclor 1260                                     | 10  | ND        | ND        | ND    |      |      |
| Analyte                                          | MDL | SWZ01     | SWZ02     | SWZ04 |      |      |
| Aroclor 1016                                     | 10  | ND        | ND        | ND    |      |      |
| Aroclor 1221                                     | 10  | ND        | ND        | ND    |      |      |
| Aroclor 1232                                     | 10  | ND        | ND        | ND    |      |      |
| Aroclor 1242                                     | 10  | ND        | ND        | ND    |      |      |
| Aroclor 1248                                     | 10  | ND        | ND        | ND    |      |      |
| Aroclor 1254                                     | 10  | 18.8      | 26.4      | 15.7  |      |      |
| Aroclor 1260                                     | 10  | ND        | ND        | ND    |      |      |
| Analyte                                          | MDL | 2229 (R1) | 2229 (R2) | 2238  | 2243 | 2441 |
| Aroclor 1016                                     | 10  | ND        | ND        | ND    | ND   | ND   |
| Aroclor 1221                                     | 10  | ND        | ND        | ND    | ND   | ND   |
| Aroclor 1232                                     | 10  | ND        | ND        | ND    | ND   | ND   |
| Aroclor 1242                                     | 10  | ND        | ND        | ND    | ND   | ND   |
| Aroclor 1248                                     | 10  | ND        | ND        | ND    | ND   | ND   |
| Aroclor 1254                                     | 10  | ND        | ND        | ND    | ND   | ND   |
| Aroclor 1260                                     | 10  | ND        | ND        | ND    | ND   | ND   |

**Sediment chemistry data October 29, 2004—Metals results summary (all results in mg/kg dry)—CRG Marine Laboratories, Inc.**

| Analyte    | MDL   | BST01      | BST04      | BST07     |           |
|------------|-------|------------|------------|-----------|-----------|
| Aluminum   | 1     | off scale  | off scale  | off scale |           |
| Antimony   | 0.05  | 0.49       | 0.5        | 0.42      |           |
| Arsenic    | 0.05  | 12.4       | 12.9       | 14.4      |           |
| Barium     | 0.05  | 153        | 154        | 122       |           |
| Beryllium  | 0.01  | 0.84       | 0.81       | 0.72      |           |
| Cadmium    | 0.01  | 0.65       | 0.48       | 0.4       |           |
| Chromium   | 0.05  | 103        | 100        | 92.4      |           |
| Cobalt     | 0.01  | 12.7       | 12.4       | 10.8      |           |
| Copper     | 0.01  | 257        | 227        | 193       |           |
| Iron       | 1     | 52800      | 51000      | 44700     |           |
| Lead       | 0.01  | 77.8       | 73         | 74.6      |           |
| Manganese  | 0.05  | 352        | 344        | 294       |           |
| Mercury    | 0.005 | 0.63       | 0.64       | 0.54      |           |
| Molybdenum | 0.05  | 1.69       | 1.61       | 1.59      |           |
| Nickel     | 0.01  | 24.1       | 24.8       | 20.6      |           |
| Selenium   | 0.05  | 1.4        | 1.23       | 1.37      |           |
| Silver     | 0.01  | 3.07       | 2.73       | 2.65      |           |
| Strontium  | 0.05  | 77.6       | 74.2       | 64.6      |           |
| Thallium   | 0.01  | 0.6        | 0.56       | 0.48      |           |
| Tin        | 0.05  | 12.6       | 12.8       | 10.9      |           |
| Titanium   | 0.05  | 2650       | 2410       | 2260      |           |
| Vanadium   | 0.05  | 122        | 118        | 104       |           |
| Zinc       | 0.05  | 325        | 320        | 287       |           |
| Analyte    | MDL   | DAC02 (R1) | DAC02 (R2) | DAC03     | DAC04     |
| Aluminum   | 1     | off scale  | off scale  | off scale | off scale |
| Antimony   | 0.05  | 1.27       | 0.47       | 0.37      | 0.47      |

**Sediment chemistry data October 29, 2004—Metals results summary (all results in mg/kg dry)—CRG Marine Laboratories, Inc.**

|            |       |           |           |            |            |           |
|------------|-------|-----------|-----------|------------|------------|-----------|
| Arsenic    | 0.05  | 10.6      | 10.6      | 13.2       | 4.97       |           |
| Barium     | 0.05  | 102       | 106       | 117        | 55.1       |           |
| Beryllium  | 0.01  | 0.58      | 0.56      | 0.72       | 0.32       |           |
| Cadmium    | 0.01  | 0.4       | 0.37      | 0.53       | 0.46       |           |
| Chromium   | 0.05  | 112       | 110       | 171        | 45.5       |           |
| Cobalt     | 0.01  | 9.22      | 10.1      | 13.6       | 5.8        |           |
| Copper     | 0.01  | 173       | 174       | 178        | 82.2       |           |
| Iron       | 1     | 35700     | 35600     | 44000      | 18500      |           |
| Lead       | 0.01  | 81.1      | 80.2      | 105        | 75.2       |           |
| Manganese  | 0.05  | 242       | 241       | 316        | 153        |           |
| Mercury    | 0.005 | 0.49      | 0.47      | 0.53       | 0.23       |           |
| Molybdenum | 0.05  | 1.23      | 1.16      | 1.96       | 1.03       |           |
| Nickel     | 0.01  | 23.6      | 23        | 46.5       | 11.8       |           |
| Selenium   | 0.05  | 1.03      | 1.09      | 0.96       | 0.58       |           |
| Silver     | 0.01  | 2.79      | 3         | 5.58       | 1.55       |           |
| Strontium  | 0.05  | 50.1      | 49.5      | 58.8       | 35.4       |           |
| Thallium   | 0.01  | 0.41      | 0.41      | 0.52       | 0.31       |           |
| Tin        | 0.05  | 11.5      | 12.2      | 12.3       | 4.4        |           |
| Titanium   | 0.05  | 1820      | 1810      | 2330       | 1420       |           |
| Vanadium   | 0.05  | 83        | 82.4      | 101        | 47.1       |           |
| Zinc       | 0.05  | 219       | 216       | 263        | 192        |           |
| Analyte    | MDL   | SWZ01     | SWZ02     | SWZ04 (R1) | SWZ04 (R2) |           |
| Aluminum   | 1     | off scale | off scale | off scale  | off scale  |           |
| Antimony   | 0.05  | 0.99      | 1.07      | 1.01       | 0.79       |           |
| Arsenic    | 0.05  | 9.26      | 14.8      | 7.96       | 7.94       |           |
| Barium     | 0.05  | 118       | 189       | 99         | 108        |           |
| Beryllium  | 0.01  | 0.72      | 1.06      | 0.51       | 0.52       |           |
| Cadmium    | 0.01  | 0.69      | 0.77      | 0.67       | 0.68       |           |
| Chromium   | 0.05  | 73.4      | 109       | 70.6       | 79.8       |           |
| Cobalt     | 0.01  | 10.3      | 15.2      | 7.5        | 7.5        |           |
| Copper     | 0.01  | 178       | 245       | 296        | 320        |           |
| Iron       | 1     | 39600     | 60400     | 29600      | 29500      |           |
| Lead       | 0.01  | 110       | 137       | 182        | 193        |           |
| Manganese  | 0.05  | 267       | 435       | 207        | 222        |           |
| Mercury    | 0.005 | 0.5       | 0.84      | 0.69       | 0.67       |           |
| Molybdenum | 0.05  | 4.19      | 3.01      | 2.89       | 2.76       |           |
| Nickel     | 0.01  | 20.3      | 28.5      | 15.8       | 15.3       |           |
| Selenium   | 0.05  | 1.03      | 1.44      | 0.69       | 0.72       |           |
| Silver     | 0.01  | 1.96      | 2.7       | 1.26       | 1.6        |           |
| Strontium  | 0.05  | 60.7      | 90.7      | 44.1       | 48.1       |           |
| Thallium   | 0.01  | 0.51      | 0.77      | 0.52       | 0.54       |           |
| Tin        | 0.05  | 10        | 21.8      | 8.66       | 8.55       |           |
| Titanium   | 0.05  | 2210      | 3200      | 1590       | 1630       |           |
| Vanadium   | 0.05  | 97.4      | 144       | 73.2       | 73.1       |           |
| Zinc       | 0.05  | 322       | 419       | 357        | 363        |           |
| Analyte    | MDL   | 2229      | 2238      | 2243       | 2433       | 2441      |
| Aluminum   | 1     | off scale | off scale | off scale  | off scale  | off scale |
| Antimony   | 0.05  | 0.54      | 0.29      | 0.11       | 0.13       | 0.45      |
| Arsenic    | 0.05  | 5.49      | 7.05      | 4.63       | 4.7        | 12.5      |
| Barium     | 0.05  | 51.3      | 85.4      | 46.5       | 73.3       | 194       |
| Beryllium  | 0.01  | 0.2       | 0.55      | 0.31       | 0.29       | 0.86      |
| Cadmium    | 0.01  | 0.23      | 0.18      | 0.09       | 0.23       | 0.55      |
| Chromium   | 0.05  | 26.8      | 48.9      | 33.3       | 32.1       | 81.9      |
| Cobalt     | 0.01  | 4.13      | 9.18      | 4.9        | 5.04       | 12.4      |
| Copper     | 0.01  | 44.7      | 70.9      | 63.9       | 47.2       | 162       |

**Sediment chemistry data October 29, 2004—Metals results summary (all results in mg/kg dry)—CRG Marine Laboratories, Inc.**

|            |       |       |       |       |       |       |
|------------|-------|-------|-------|-------|-------|-------|
| Iron       | 1     | 16600 | 35000 | 18800 | 20000 | 55000 |
| Lead       | 0.01  | 32.6  | 21.6  | 22.7  | 15.6  | 36.8  |
| Manganese  | 0.05  | 138   | 276   | 147   | 178   | 463   |
| Mercury    | 0.005 | 0.24  | 0.23  | 0.24  | 0.19  | 0.42  |
| Molybdenum | 0.05  | 0.42  | 0.49  | 0.39  | 0.49  | 2.58  |
| Nickel     | 0.01  | 6.89  | 13.8  | 7.73  | 8.35  | 25.8  |
| Selenium   | 0.05  | 0.4   | 0.65  | 0.33  | 0.42  | 2.64  |
| Silver     | 0.01  | 0.44  | 0.98  | 0.99  | 0.7   | 1.64  |
| Strontium  | 0.05  | 132   | 44.6  | 33.7  | 41.4  | 222   |
| Thallium   | 0.01  | 0.16  | 0.33  | 0.22  | 0.26  | 0.65  |
| Tin        | 0.05  | 10.3  | 4.16  | 3.7   | 3.01  | 6.84  |
| Titanium   | 0.05  | 981   | 1880  | 1100  | 1420  | 3350  |
| Vanadium   | 0.05  | 43.3  | 78.9  | 41.5  | 47.7  | 136   |
| Zinc       | 0.05  | 125   | 177   | 107   | 94.9  | 222   |

**Sediment chemistry data October 29, 2004—Pesticides results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

| Analyte               | MDL | BST01 | BST04 | BST07      |            |
|-----------------------|-----|-------|-------|------------|------------|
| 2,4'-DDD              | 1   | ND    | ND    | ND         |            |
| 2,4'-DDE              | 1   | ND    | ND    | ND         |            |
| 2,4'-DDT              | 1   | ND    | ND    | ND         |            |
| 4,4'-DDD              | 1   | ND    | ND    | ND         |            |
| 4,4'-DDE              | 1   | ND    | ND    | ND         |            |
| 4,4'-DDT              | 1   | ND    | ND    | ND         |            |
| Aldrin                | 1   | ND    | ND    | ND         |            |
| BHC-alpha             | 1   | ND    | ND    | ND         |            |
| BHC-beta              | 1   | ND    | ND    | ND         |            |
| BHC-delta             | 1   | ND    | ND    | ND         |            |
| BHC-gamma             | 1   | ND    | ND    | ND         |            |
| Chlordane-alpha       | 1   | ND    | ND    | ND         |            |
| Chlordane-gamma       | 1   | ND    | ND    | ND         |            |
| Dieldrin              | 1   | ND    | ND    | ND         |            |
| Endosulfan Sulfate    | 1   | ND    | ND    | ND         |            |
| Endosulfan-I          | 1   | ND    | ND    | ND         |            |
| Endosulfan-II         | 1   | ND    | ND    | ND         |            |
| Endrin                | 1   | ND    | ND    | ND         |            |
| Endrin Aldehyde       | 1   | ND    | ND    | ND         |            |
| Endrin Ketone         |     | ND    | ND    | ND         |            |
| Heptachlor            | 1   | ND    | ND    | ND         |            |
| Heptachlor Epoxide    | 1   | ND    | ND    | ND         |            |
| Methoxychlor          | 1   | ND    | ND    | ND         |            |
| Mirex                 | 1   | ND    | ND    | ND         |            |
| Total Detectable DDTs | 1   | ND    | ND    | ND         |            |
| Toxaphene             | 10  | ND    | ND    | ND         |            |
| trans-Nonachlor       | 1   | ND    | ND    | ND         |            |
| Analyte               | MDL | DAC02 | DAC03 | DAC04 (R1) | DAC04 (R2) |
| 2,4'-DDD              | 1   | ND    | ND    | ND         | ND         |
| 2,4'-DDE              | 1   | ND    | ND    | ND         | ND         |
| 2,4'-DDT              | 1   | ND    | ND    | ND         | ND         |
| 4,4'-DDD              | 1   | ND    | ND    | ND         | ND         |
| 4,4'-DDE              | 1   | ND    | ND    | ND         | ND         |
| 4,4'-DDT              | 1   | ND    | ND    | ND         | ND         |
| Aldrin                | 1   | ND    | ND    | ND         | ND         |
| BHC-alpha             | 1   | ND    | ND    | ND         | ND         |
| BHC-beta              | 1   | ND    | ND    | ND         | ND         |
| BHC-delta             | 1   | ND    | ND    | ND         | ND         |

**Sediment chemistry data October 29, 2004—Pesticides results summary (all results in ng/dry g)—  
CRG Marine Laboratories, Inc.**

|                                |     |           |           |       |      |      |      |
|--------------------------------|-----|-----------|-----------|-------|------|------|------|
| ORCA Marine Laboratories, Inc. |     |           |           |       |      |      |      |
| BHC-gamma                      | 1   | ND        | ND        | ND    | ND   |      |      |
| Chlordane-alpha                | 1   | ND        | ND        | 9.4   | 14.8 |      |      |
| Chlordane-gamma                | 1   | ND        | ND        | 14.1  | 16.2 |      |      |
| Dieldrin                       | 1   | ND        | ND        | ND    | ND   |      |      |
| Endosulfan Sulfate             | 1   | ND        | ND        | ND    | ND   |      |      |
| Endosulfan-I                   | 1   | ND        | ND        | ND    | ND   |      |      |
| Endosulfan-II                  | 1   | ND        | ND        | ND    | ND   |      |      |
| Endrin                         | 1   | ND        | ND        | ND    | ND   |      |      |
| Endrin Aldehyde                | 1   | ND        | ND        | ND    | ND   |      |      |
| Endrin Ketone                  |     | ND        | ND        | ND    | ND   |      |      |
| Heptachlor                     | 1   | ND        | ND        | ND    | ND   |      |      |
| Heptachlor Epoxide             | 1   | ND        | ND        | ND    | ND   |      |      |
| Methoxychlor                   | 1   | ND        | ND        | ND    | ND   |      |      |
| Mirex                          | 1   | ND        | ND        | ND    | ND   |      |      |
| Total Detectable DDTs          | 1   | ND        | ND        | ND    | ND   |      |      |
| Toxaphene                      | 10  | ND        | ND        | ND    | ND   |      |      |
| trans-Nonachlor                | 1   | ND        | ND        | ND    | ND   |      |      |
| Analyte                        | MDL | SWZ01     | SWZ02     | SWZ04 |      |      |      |
| 2,4'-DDD                       | 1   | ND        | ND        | ND    |      |      |      |
| 2,4'-DDE                       | 1   | ND        | ND        | ND    |      |      |      |
| 2,4'-DDT                       | 1   | ND        | ND        | ND    |      |      |      |
| 4,4'-DDD                       | 1   | ND        | ND        | ND    |      |      |      |
| 4,4'-DDE                       | 1   | ND        | ND        | ND    |      |      |      |
| 4,4'-DDT                       | 1   | ND        | ND        | ND    |      |      |      |
| Aldrin                         | 1   | ND        | ND        | ND    |      |      |      |
| BHC-alpha                      | 1   | ND        | ND        | ND    |      |      |      |
| BHC-beta                       | 1   | ND        | ND        | ND    |      |      |      |
| BHC-delta                      | 1   | ND        | ND        | ND    |      |      |      |
| BHC-gamma                      | 1   | ND        | ND        | ND    |      |      |      |
| Chlordane-alpha                | 1   | 6         | ND        | 4.5   |      |      |      |
| Chlordane-gamma                | 1   | 6.2       | ND        | 8.1   |      |      |      |
| Dieldrin                       | 1   | ND        | ND        | ND    |      |      |      |
| Endosulfan Sulfate             | 1   | ND        | ND        | ND    |      |      |      |
| Endosulfan-I                   | 1   | ND        | ND        | ND    |      |      |      |
| Endosulfan-II                  | 1   | ND        | ND        | ND    |      |      |      |
| Endrin                         | 1   | ND        | ND        | ND    |      |      |      |
| Endrin Aldehyde                | 1   | ND        | ND        | ND    |      |      |      |
| Endrin Ketone                  |     | ND        | ND        | ND    |      |      |      |
| Heptachlor                     | 1   | ND        | ND        | ND    |      |      |      |
| Heptachlor Epoxide             | 1   | ND        | ND        | ND    |      |      |      |
| Methoxychlor                   | 1   | ND        | ND        | ND    |      |      |      |
| Mirex                          | 1   | ND        | ND        | ND    |      |      |      |
| Total Detectable DDTs          | 1   | ND        | ND        | ND    |      |      |      |
| Toxaphene                      | 10  | ND        | ND        | ND    |      |      |      |
| trans-Nonachlor                | 1   | 6.3       | ND        | 4.9   |      |      |      |
| Analyte                        | MDL | 2229 (R1) | 2229 (R2) | 2238  | 2243 | 2433 | 2441 |
| 2,4'-DDD                       | 1   | ND        | ND        | ND    | ND   | ND   | ND   |
| 2,4'-DDE                       | 1   | ND        | ND        | ND    | ND   | ND   | ND   |
| 2,4'-DDT                       | 1   | ND        | ND        | ND    | ND   | ND   | ND   |
| 4,4'-DDD                       | 1   | ND        | ND        | ND    | ND   | ND   | ND   |
| 4,4'-DDE                       | 1   | ND        | ND        | ND    | ND   | ND   | ND   |
| 4,4'-DDT                       | 1   | ND        | ND        | ND    | ND   | ND   | ND   |
| Aldrin                         | 1   | ND        | ND        | ND    | ND   | ND   | ND   |
| BHC-alpha                      | 1   | ND        | ND        | ND    | ND   | ND   | ND   |
| BHC-beta                       | 1   | ND        | ND        | ND    | ND   | ND   | ND   |

**Sediment chemistry data October 29, 2004—Pesticides results summary (all results in ng/dry g)—  
CRG Marine Laboratories, Inc.**

|                       |    |    |    |    |    |    |    |
|-----------------------|----|----|----|----|----|----|----|
| BHC-delta             | 1  | ND | ND | ND | ND | ND | ND |
| BHC-gamma             | 1  | ND | ND | ND | ND | ND | ND |
| Chlordane-alpha       | 1  | ND | ND | ND | ND | ND | ND |
| Chlordane-gamma       | 1  | ND | ND | ND | ND | ND | ND |
| Dieldrin              | 1  | ND | ND | ND | ND | ND | ND |
| Endosulfan Sulfate    | 1  | ND | ND | ND | ND | ND | ND |
| Endosulfan-I          | 1  | ND | ND | ND | ND | ND | ND |
| Endosulfan-II         | 1  | ND | ND | ND | ND | ND | ND |
| Endrin                | 1  | ND | ND | ND | ND | ND | ND |
| Endrin Aldehyde       | 1  | ND | ND | ND | ND | ND | ND |
| Endrin Ketone         |    | ND | ND | ND | ND | ND | ND |
| Heptachlor            | 1  | ND | ND | ND | ND | ND | ND |
| Heptachlor Epoxide    | 1  | ND | ND | ND | ND | ND | ND |
| Methoxychlor          | 1  | ND | ND | ND | ND | ND | ND |
| Mirex                 | 1  | ND | ND | ND | ND | ND | ND |
| Total Detectable DDTs | 1  | ND | ND | ND | ND | ND | ND |
| Toxaphene             | 10 | ND | ND | ND | ND | ND | ND |
| trans-Nonachlor       | 1  | ND | ND | ND | ND | ND | ND |

**Sediment chemistry data October 29, 2004—PAH results summary (all results in ng/dry g)—CRG Marine  
Laboratories, Inc.**

| Analyte                    | MDL | BST01 | BST04 | BST07      |            |
|----------------------------|-----|-------|-------|------------|------------|
| 1-Methylnaphthalene        | 1   | 1.5   | 2.6   | 4.4        |            |
| 1-Methylphenanthrene       | 1   | 8     | 14.7  | 50.4       |            |
| 2,3,5-Trimethylnaphthalene | 1   | 1     | 3.2   | 3.5        |            |
| 2,6-Dimethylnaphthalene    | 1   | 2.4   | 11.1  | 9.8        |            |
| 2-Methylnaphthalene        | 1   | 3.2   | 5.8   | 8.7        |            |
| Acenaphthene               | 1   | 3.9   | 21.4  | 59         |            |
| Acenaphthylene             | 1   | 50.4  | 171   | 590        |            |
| Anthracene                 | 1   | 137   | 407   | 1420       |            |
| Benz[a]anthracene          | 1   | 147   | 432   | 1510       |            |
| Benzo[a]pyrene             | 1   | 230   | 624   | 1650       |            |
| Benzo[b]fluoranthene       | 1   | 214   | 650   | 2260       |            |
| Benzo[e]pyrene             | 1   | 157   | 440   | 1190       |            |
| Benzo[g,h,i]perylene       | 1   | 124   | 288   | 606        |            |
| Benzo[k]fluoranthene       | 1   | 234   | 614   | 1470       |            |
| Biphenyl                   | 1   | 1.3   | 3.2   | 4.9        |            |
| Chrysene                   | 1   | 287   | 758   | 2570       |            |
| Dibenz[a,h]anthracene      | 1   | 38.4  | 90.3  | 216        |            |
| Fluoranthene               | 1   | 160   | 691   | 2260       |            |
| Fluorene                   | 1   | 13.4  | 33    | 98.2       |            |
| Indeno[1,2,3-c,d]pyrene    | 1   | 151   | 362   | 803        |            |
| Naphthalene                | 1   | 5.4   | 11.2  | 6.9        |            |
| Perylene                   | 1   | 55.9  | 158   | 468        |            |
| Phenanthrene               | 1   | 71.1  | 246   | 609        |            |
| Pyrene                     | 1   | 171   | 639   | 1890       |            |
| Total Detectable PAHs      |     | 2270  | 6680  | 19800      |            |
| Analyte                    | MDL | DAC02 | DAC03 | DAC04 (R1) | DAC04 (R2) |
| 1-Methylnaphthalene        | 1   | 1.3   | 1.7   | 2          | 1.6        |
| 1-Methylphenanthrene       | 1   | 4     | ND    | 2.7        | ND         |
| 2,3,5-Trimethylnaphthalene | 1   | 1.1   | 2.7   | 3          | 1.4        |
| 2,6-Dimethylnaphthalene    | 1   | 2.4   | 2.4   | 3          | 3.8        |
| 2-Methylnaphthalene        | 1   | 2.5   | 4.5   | 3          | 3          |
| Acenaphthene               | 1   | 2.1   | 3.5   | 3.4        | 2.6        |
| Acenaphthylene             | 1   | 46.4  | 27.6  | 18.7       | 16.7       |
| Anthracene                 | 1   | 112   | 60.7  | 45.6       | 43         |
| Benz[a]anthracene          | 1   | 213   | 76.6  | 59.6       | 56.2       |

**Sediment chemistry data October 29, 2004—PAH results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                            |            |                  |                  |              |             |             |             |
|----------------------------|------------|------------------|------------------|--------------|-------------|-------------|-------------|
| Benzo[a]pyrene             | 1          | 217              | 161              | 107          | 102         |             |             |
| Benzo[b]fluoranthene       | 1          | 230              | 170              | 135          | 137         |             |             |
| Benzo[e]pyrene             | 1          | 163              | 132              | 107          | 98.1        |             |             |
| Benzo[g,h,i]perylene       | 1          | 117              | 143              | 120          | 114         |             |             |
| Benzo[k]fluoranthene       | 1          | 229              | 153              | 121          | 96.8        |             |             |
| Biphenyl                   | 1          | 1.6              | 2.4              | 2.4          | 1.9         |             |             |
| Chrysene                   | 1          | 305              | 125              | 94.5         | 104         |             |             |
| Dibenz[a,h]anthracene      | 1          | 31.1             | 34               | 21.5         | 19.2        |             |             |
| Fluoranthene               | 1          | 221              | 122              | 165          | 140         |             |             |
| Fluorene                   | 1          | 8.2              | 5.6              | 3.4          | 3.9         |             |             |
| Indeno[1,2,3-c,d]pyrene    | 1          | 134              | 147              | 100          | 93.9        |             |             |
| Naphthalene                | 1          | 4.11             | 7.6              | 5.2          | 4.6         |             |             |
| Perylene                   | 1          | 58.3             | 40.7             | 39.6         | 37.8        |             |             |
| Phenanthrene               | 1          | 53.1             | 37.8             | 52.5         | 50.1        |             |             |
| Pyrene                     | 1          | 116              | 121              | 164          | 147         |             |             |
| Total Detectable PAHs      |            | 2270             | 1582             | 1380         | 1279        |             |             |
| <b>Analyte</b>             | <b>MDL</b> | <b>SWZ01</b>     | <b>SWZ02</b>     | <b>SWZ04</b> |             |             |             |
| 1-Methylnaphthalene        | 1          | 5.1              | 10.8             | 4.4          |             |             |             |
| 1-Methylphenanthrene       | 1          | 11.6             | 14.1             | 6.5          |             |             |             |
| 2,3,5-Trimethylnaphthalene | 1          | 12.9             | 10.4             | 6.8          |             |             |             |
| 2,6-Dimethylnaphthalene    | 1          | 9                | 10.5             | 5.8          |             |             |             |
| 2-Methylnaphthalene        | 1          | 9.5              | 14.5             | 7.8          |             |             |             |
| Acenaphthene               | 1          | 9.5              | 4.9              | 8.9          |             |             |             |
| Acenaphthylene             | 1          | 53.9             | 62.4             | 50.2         |             |             |             |
| Anthracene                 | 1          | 107              | 116              | 98.1         |             |             |             |
| Benz[a]anthracene          | 1          | 193              | 183              | 151          |             |             |             |
| Benzo[a]pyrene             | 1          | 349              | 247              | 327          |             |             |             |
| Benzo[b]fluoranthene       | 1          | 351              | 282              | 294          |             |             |             |
| Benzo[e]pyrene             | 1          | 280              | 258              | 271          |             |             |             |
| Benzo[g,h,i]perylene       | 1          | 347              | 347              | 317          |             |             |             |
| Benzo[k]fluoranthene       | 1          | 288              | 268              | 264          |             |             |             |
| Biphenyl                   | 1          | 8.7              | 3.6              | 5.6          |             |             |             |
| Chrysene                   | 1          | 316              | 276              | 237          |             |             |             |
| Dibenz[a,h]anthracene      | 1          | 44.4             | 47.4             | 43.2         |             |             |             |
| Fluoranthene               | 1          | 484              | 322              | 380          |             |             |             |
| Fluorene                   | 1          | 13.4             | 9.2              | 11.6         |             |             |             |
| Indeno[1,2,3-c,d]pyrene    | 1          | 317              | 260              | 289          |             |             |             |
| Naphthalene                | 1          | 22.5             | 14.4             | 18.6         |             |             |             |
| Perylene                   | 1          | 105              | 81.3             | 94           |             |             |             |
| Phenanthrene               | 1          | 150              | 79.1             | 141          |             |             |             |
| Pyrene                     | 1          | 644              | 495              | 536          |             |             |             |
| Total Detectable PAHs      |            | 4130             | 3420             | 3570         |             |             |             |
| <b>Analyte</b>             | <b>MDL</b> | <b>2229 (R1)</b> | <b>2229 (R2)</b> | <b>2238</b>  | <b>2243</b> | <b>2433</b> | <b>2441</b> |
| 1-Methylnaphthalene        | 1          | 1.7              | ND               | ND           | ND          | ND          | 1           |
| 1-Methylphenanthrene       | 1          | 2                | 6.9              | ND           | ND          | 1           | 3.8         |
| 2,3,5-Trimethylnaphthalene | 1          | 1.6              | 1.3              | ND           | ND          | ND          | ND          |
| 2,6-Dimethylnaphthalene    | 1          | 1.5              | 1.2              | ND           | ND          | ND          | 1.9         |
| 2-Methylnaphthalene        | 1          | 2.8              | 1                | 1            | ND          | ND          | 1.3         |
| Acenaphthene               | 1          | 1.3              | ND               | ND           | ND          | ND          | 2.7         |
| Acenaphthylene             | 1          | 2.9              | 8                | ND           | ND          | 2.1         | 6.8         |
| Anthracene                 | 1          | 6.6              | 8.7              | ND           | 1           | 2.5         | 42.9        |
| Benz[a]anthracene          | 1          | 10.7             | 43.8             | 1.7          | 2.3         | 10.2        | 55.9        |
| Benzo[a]pyrene             | 1          | 22               | 63.6             | 3.2          | 4.2         | 14.8        | 39.6        |
| Benzo[b]fluoranthene       | 1          | 16.3             | 32.8             | 2.8          | 3.4         | 9.6         | 37.5        |
| Benzo[e]pyrene             | 1          | 15.1             | 39               | 2.5          | 3.3         | 9.5         | 27.3        |
| Benzo[g,h,i]perylene       | 1          | 20.8             | 40.9             | 4            | 4.5         | 9.8         | 19.2        |
| Benzo[k]fluoranthene       | 1          | 16               | 38.9             | 2.8          | 4.2         | 12          | 48.4        |
| Biphenyl                   | 1          | 1                | ND               | ND           | ND          | ND          | 1           |

**Sediment chemistry data October 29, 2004—PAH results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                         |   |      |       |      |      |       |       |
|-------------------------|---|------|-------|------|------|-------|-------|
| Chrysene                | 1 | 13.9 | 47.2  | 2.2  | 2.8  | 12.5  | 132   |
| Dibenz[a,h]anthracene   | 1 | 2.6  | 6.5   | ND   | ND   | 2.2   | 6.6   |
| Fluoranthene            | 1 | 24.4 | 52.9  | 4.7  | 3.6  | 13.6  | 65.5  |
| Fluorene                | 1 | 2.2  | 1     | ND   | ND   | ND    | 7.4   |
| Indeno[1,2,3-c,d]pyrene | 1 | 19.5 | 38.1  | 2.5  | 4.1  | 9.7   | 22    |
| Naphthalene             | 1 | 2.3  | 1.7   | 1.3  | 1    | 1     | 2.5   |
| Perylene                | 1 | 5.5  | 12.1  | ND   | 1    | 3.5   | 8.8   |
| Phenanthrene            | 1 | 14.2 | 16.1  | 3.4  | 1.4  | 5.3   | 43.6  |
| Pyrene                  | 1 | 26   | 86.1  | 5.2  | 4.9  | 14.3  | 45.8  |
| Total Detectable PAHs   |   | 233  | 547.8 | 37.3 | 41.7 | 133.6 | 623.5 |

**Sediment chemistry data October 29, 2004—PCB congeners results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

| Analyte    | MDL | BST01 | BST04 | BST07 |
|------------|-----|-------|-------|-------|
| PCB018     | 1   | ND    | ND    | ND    |
| PCB028     | 1   | ND    | ND    | ND    |
| PCB031     | 1   | ND    | ND    | ND    |
| PCB033     | 1   | ND    | ND    | ND    |
| PCB037     | 1   | ND    | ND    | ND    |
| PCB044     | 1   | ND    | ND    | ND    |
| PCB049     | 1   | ND    | ND    | ND    |
| PCB052     | 1   | ND    | ND    | ND    |
| PCB066     | 1   | ND    | ND    | ND    |
| PCB070     | 1   | ND    | ND    | ND    |
| PCB074     | 1   | ND    | ND    | ND    |
| PCB077     | 1   | ND    | ND    | ND    |
| PCB081     | 1   | ND    | ND    | ND    |
| PCB087     | 1   | ND    | ND    | ND    |
| PCB095     | 1   | 2.1   | 1.5   | ND    |
| PCB097     | 1   | ND    | ND    | ND    |
| PCB099     | 1   | 1.8   | ND    | ND    |
| PCB101     | 1   | 4.2   | ND    | ND    |
| PCB105     | 1   | ND    | ND    | ND    |
| PCB110     | 1   | 3.2   | ND    | ND    |
| PCB114     | 1   | ND    | ND    | ND    |
| PCB118     | 1   | 2.1   | ND    | ND    |
| PCB119     | 1   | ND    | ND    | ND    |
| PCB123     | 1   | ND    | ND    | ND    |
| PCB126     | 1   | ND    | ND    | ND    |
| PCB128+167 | 1   | ND    | ND    | ND    |
| PCB138     | 1   | 3.7   | ND    | ND    |
| PCB141     | 1   | ND    | ND    | ND    |
| PCB149     | 1   | 2.4   | 1.8   | ND    |
| PCB151     | 1   | ND    | ND    | ND    |
| PCB153     | 1   | 2.8   | 3.4   | ND    |
| PCB156     | 1   | ND    | ND    | ND    |
| PCB157     | 1   | ND    | ND    | ND    |
| PCB158     | 1   | ND    | ND    | ND    |
| PCB168+132 | 1   | ND    | ND    | ND    |
| PCB169     | 1   | ND    | ND    | ND    |
| PCB170     | 1   | ND    | ND    | ND    |
| PCB177     | 1   | ND    | ND    | ND    |
| PCB180     | 1   | ND    | ND    | ND    |
| PCB183     | 1   | ND    | ND    | ND    |
| PCB187     | 1   | ND    | ND    | ND    |
| PCB189     | 1   | ND    | ND    | ND    |
| PCB194     | 1   | ND    | ND    | ND    |
| PCB200     | 1   | ND    | ND    | ND    |

**Sediment chemistry data October 29, 2004—PCB congeners results summary (all results in ng/dry g)—  
CRG Marine Laboratories, Inc.**

|                       |            |              |              |                   |                   |
|-----------------------|------------|--------------|--------------|-------------------|-------------------|
| PCB201                | 1          | ND           | ND           | ND                |                   |
| PCB206                | 1          | ND           | ND           | ND                |                   |
| Total Detectable PCBs |            | 22.3         | 6.7          | ND                |                   |
| <b>Analyte</b>        | <b>MDL</b> | <b>DAC02</b> | <b>DAC03</b> | <b>DAC04 (R1)</b> | <b>DAC04 (R2)</b> |
| PCB018                | 1          | ND           | 14.3         | ND                | ND                |
| PCB028                | 1          | ND           | 9.1          | ND                | ND                |
| PCB031                | 1          | ND           | 17.2         | ND                | ND                |
| PCB033                | 1          | ND           | ND           | ND                | ND                |
| PCB037                | 1          | ND           | ND           | ND                | ND                |
| PCB044                | 1          | ND           | 6.9          | ND                | ND                |
| PCB049                | 1          | ND           | 20.4         | 5.1               | 6.7               |
| PCB052                | 1          | ND           | 19.4         | ND                | 4                 |
| PCB066                | 1          | 3.7          | 29.2         | ND                | 7.1               |
| PCB070                | 1          | ND           | 16.7         | 3.6               | 5                 |
| PCB074                | 1          | ND           | 5.3          | ND                | ND                |
| PCB077                | 1          | ND           | ND           | ND                | ND                |
| PCB081                | 1          | ND           | ND           | ND                | ND                |
| PCB087                | 1          | ND           | ND           | ND                | ND                |
| PCB095                | 1          | 2.4          | 7.2          | 3.9               | 4.2               |
| PCB097                | 1          | ND           | 3.1          | ND                | ND                |
| PCB099                | 1          | 2.6          | 8.6          | 4.3               | 3.7               |
| PCB101                | 1          | 4.9          | 18           | 7.4               | 9.3               |
| PCB105                | 1          | ND           | ND           | ND                | ND                |
| PCB110                | 1          | 4.5          | 12.6         | 4.6               | 5.9               |
| PCB114                | 1          | ND           | ND           | ND                | ND                |
| PCB118                | 1          | ND           | 12.6         | 2.8               | 5.2               |
| PCB119                | 1          | ND           | ND           | ND                | ND                |
| PCB123                | 1          | ND           | ND           | ND                | ND                |
| PCB126                | 1          | ND           | ND           | ND                | ND                |
| PCB128+167            | 1          | ND           | ND           | ND                | ND                |
| PCB138                | 1          | 4.1          | 11.1         | 5                 | 8.3               |
| PCB141                | 1          | ND           | ND           | ND                | ND                |
| PCB149                | 1          | 3            | 9.8          | 4.4               | 4.1               |
| PCB151                | 1          | ND           | 3            | ND                | ND                |
| PCB153                | 1          | 3.2          | 10.8         | 4.4               | 5.6               |
| PCB156                | 1          | ND           | ND           | ND                | ND                |
| PCB157                | 1          | ND           | ND           | ND                | ND                |
| PCB158                | 1          | ND           | ND           | ND                | ND                |
| PCB168+132            | 1          | ND           | ND           | ND                | ND                |
| PCB169                | 1          | ND           | ND           | ND                | ND                |
| PCB170                | 1          | ND           | ND           | ND                | ND                |
| PCB177                | 1          | ND           | ND           | ND                | ND                |
| PCB180                | 1          | 3.3          | ND           | ND                | ND                |
| PCB183                | 1          | ND           | ND           | ND                | ND                |
| PCB187                | 1          | 2.2          | 5.6          | 2.3               | 1.1               |
| PCB189                | 1          | ND           | ND           | ND                | ND                |
| PCB194                | 1          | ND           | ND           | ND                | ND                |
| PCB200                | 1          | ND           | ND           | ND                | ND                |
| PCB201                | 1          | ND           | ND           | ND                | ND                |
| PCB206                | 1          | ND           | ND           | ND                | ND                |
| Total Detectable PCBs |            | 33.9         | 241          | 47.8              | 64.7              |
| <b>Analyte</b>        | <b>MDL</b> | <b>SWZ01</b> | <b>SWZ02</b> | <b>SWZ04</b>      |                   |
| PCB018                | 1          | ND           | ND           | ND                |                   |
| PCB028                | 1          | ND           | ND           | ND                |                   |
| PCB031                | 1          | ND           | ND           | ND                |                   |
| PCB033                | 1          | ND           | ND           | ND                |                   |
| PCB037                | 1          | ND           | ND           | ND                |                   |
| PCB044                | 1          | ND           | ND           | 6.8               |                   |

**Sediment chemistry data October 29, 2004—PCB congeners results summary (all results in ng/dry g)—  
CRG Marine Laboratories, Inc.**

|                       |            |                  |                  |             |             |             |             |  |
|-----------------------|------------|------------------|------------------|-------------|-------------|-------------|-------------|--|
| PCB049                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB052                | 1          | ND               | ND               | 8.4         |             |             |             |  |
| PCB066                | 1          | ND               | ND               | 6.6         |             |             |             |  |
| PCB070                | 1          | ND               | ND               | 7.2         |             |             |             |  |
| PCB074                | 1          | ND               | ND               | 3.2         |             |             |             |  |
| PCB077                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB081                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB087                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB095                | 1          | ND               | ND               | 10.4        |             |             |             |  |
| PCB097                | 1          | ND               | ND               | 7.2         |             |             |             |  |
| PCB099                | 1          | ND               | ND               | 8.4         |             |             |             |  |
| PCB101                | 1          | ND               | ND               | 18.3        |             |             |             |  |
| PCB105                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB110                | 1          | ND               | ND               | 16.9        |             |             |             |  |
| PCB114                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB118                | 1          | ND               | ND               | 13.4        |             |             |             |  |
| PCB119                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB123                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB126                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB128+167            | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB138                | 1          | ND               | ND               | 13.2        |             |             |             |  |
| PCB141                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB149                | 1          | ND               | ND               | 10.6        |             |             |             |  |
| PCB151                | 1          | ND               | ND               | 2.4         |             |             |             |  |
| PCB153                | 1          | ND               | ND               | 7           |             |             |             |  |
| PCB156                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB157                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB158                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB168+132            | 1          | ND               | ND               | 5.9         |             |             |             |  |
| PCB169                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB170                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB177                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB180                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB183                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB187                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB189                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB194                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB200                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB201                | 1          | ND               | ND               | ND          |             |             |             |  |
| PCB206                | 1          | ND               | ND               | ND          |             |             |             |  |
| Total Detectable PCBs |            | ND               | ND               | 387         |             |             |             |  |
| <b>Analyte</b>        | <b>MDL</b> | <b>2229 (R1)</b> | <b>2229 (R2)</b> | <b>2238</b> | <b>2243</b> | <b>2433</b> | <b>2441</b> |  |
| PCB018                | 1          | ND               | ND               | ND          | ND          | ND          | ND          |  |
| PCB028                | 1          | ND               | ND               | ND          | ND          | ND          | ND          |  |
| PCB031                | 1          | ND               | ND               | ND          | ND          | ND          | ND          |  |
| PCB033                | 1          | ND               | ND               | ND          | ND          | ND          | ND          |  |
| PCB037                | 1          | ND               | ND               | ND          | ND          | ND          | ND          |  |
| PCB044                | 1          | ND               | ND               | ND          | ND          | ND          | ND          |  |
| PCB049                | 1          | 1.2              | ND               | ND          | ND          | ND          | ND          |  |
| PCB052                | 1          | 1.3              | ND               | ND          | ND          | ND          | ND          |  |
| PCB066                | 1          | ND               | ND               | ND          | ND          | ND          | ND          |  |
| PCB070                | 1          | ND               | ND               | ND          | ND          | ND          | ND          |  |
| PCB074                | 1          | ND               | ND               | ND          | ND          | ND          | ND          |  |
| PCB077                | 1          | ND               | ND               | ND          | ND          | ND          | ND          |  |
| PCB081                | 1          | ND               | ND               | ND          | ND          | ND          | ND          |  |
| PCB087                | 1          | ND               | ND               | ND          | ND          | ND          | ND          |  |
| PCB095                | 1          | 1.3              | ND               | ND          | ND          | ND          | ND          |  |
| PCB097                | 1          | 1.5              | ND               | ND          | ND          | ND          | ND          |  |

**Sediment chemistry data October 29, 2004—PCB congeners results summary (all results in ng/dry g)—  
CRG Marine Laboratories, Inc.**

|                       |   |     |    |    |    |    |    |
|-----------------------|---|-----|----|----|----|----|----|
| PCB099                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB101                | 1 | 2.7 | ND | ND | ND | ND | ND |
| PCB105                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB110                | 1 | 2.5 | ND | ND | ND | ND | ND |
| PCB114                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB118                | 1 | 1.6 | ND | ND | ND | ND | ND |
| PCB119                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB123                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB126                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB128+167            | 1 | ND  | ND | ND | ND | ND | ND |
| PCB138                | 1 | 2.9 | ND | ND | ND | ND | ND |
| PCB141                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB149                | 1 | 1.5 | ND | ND | ND | ND | ND |
| PCB151                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB153                | 1 | 1.5 | ND | ND | ND | ND | ND |
| PCB156                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB157                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB158                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB168+132            | 1 | ND  | ND | ND | ND | ND | ND |
| PCB169                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB170                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB177                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB180                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB183                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB187                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB189                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB194                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB200                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB201                | 1 | ND  | ND | ND | ND | ND | ND |
| PCB206                | 1 | ND  | ND | ND | ND | ND | ND |
| Total Detectable PCBs |   | 18  | ND | ND | ND | ND | ND |

**Sediment chemistry data October 29, 2004—Aroclors results summary (all results in ng/dry g)—  
CRG Marine Laboratories, Inc.**

| Orla Marine Laboratories, Inc. |     |           |           |            |            |      |      |
|--------------------------------|-----|-----------|-----------|------------|------------|------|------|
| Analyte                        | MDL | BST01     | BST04     | BST07      |            |      |      |
| Aroclor 1016                   | 10  | ND        | ND        | ND         |            |      |      |
| Aroclor 1221                   | 10  | ND        | ND        | ND         |            |      |      |
| Aroclor 1232                   | 10  | ND        | ND        | ND         |            |      |      |
| Aroclor 1242                   | 10  | ND        | ND        | ND         |            |      |      |
| Aroclor 1248                   | 10  | ND        | ND        | ND         |            |      |      |
| Aroclor 1254                   | 10  | 25.9      | ND        | ND         |            |      |      |
| Aroclor 1260                   | 10  | ND        | ND        | ND         |            |      |      |
| Analyte                        | MDL | DAC02     | DAC03     | DAC04 (R1) | DAC04 (R2) |      |      |
| Aroclor 1016                   | 10  | ND        | ND        | ND         | ND         |      |      |
| Aroclor 1221                   | 10  | ND        | ND        | ND         | ND         |      |      |
| Aroclor 1232                   | 10  | ND        | ND        | ND         | ND         |      |      |
| Aroclor 1242                   | 10  | ND        | 150       | ND         | ND         |      |      |
| Aroclor 1248                   | 10  | ND        | ND        | ND         | ND         |      |      |
| Aroclor 1254                   | 10  | 36.3      | 103       | 37.4       | 48.4       |      |      |
| Aroclor 1260                   | 10  | ND        | ND        | ND         | ND         |      |      |
| Analyte                        | MDL | SWZ01     | SWZ02     | SWZ04      |            |      |      |
| Aroclor 1016                   | 10  | ND        | ND        | ND         |            |      |      |
| Aroclor 1221                   | 10  | ND        | ND        | ND         |            |      |      |
| Aroclor 1232                   | 10  | ND        | ND        | ND         |            |      |      |
| Aroclor 1242                   | 10  | ND        | ND        | ND         |            |      |      |
| Aroclor 1248                   | 10  | ND        | ND        | ND         |            |      |      |
| Aroclor 1254                   | 10  | ND        | ND        | 138        |            |      |      |
| Aroclor 1260                   | 10  | ND        | ND        | ND         |            |      |      |
| Analyte                        | MDL | 2229 (R1) | 2229 (R2) | 2238       | 2243       | 2433 | 2441 |

**Sediment chemistry data October 29, 2004—Aroclors results summary (all results in ng/dry g)—  
CRG Marine Laboratories, Inc.**

|              |    |      |    |    |    |    |    |
|--------------|----|------|----|----|----|----|----|
| Aroclor 1016 | 10 | ND   | ND | ND | ND | ND | ND |
| Aroclor 1221 | 10 | ND   | ND | ND | ND | ND | ND |
| Aroclor 1232 | 10 | ND   | ND | ND | ND | ND | ND |
| Aroclor 1242 | 10 | ND   | ND | ND | ND | ND | ND |
| Aroclor 1248 | 10 | ND   | ND | ND | ND | ND | ND |
| Aroclor 1254 | 10 | 20.1 | ND | ND | ND | ND | ND |
| Aroclor 1260 | 10 | ND   | ND | ND | ND | ND | ND |

## Appendix B. Grain size data.

### Grain size analyses March 02, 2004—AMEC

| Size Fraction | Size (mm) | BST 01 | BST 04 | BST 07 |
|---------------|-----------|--------|--------|--------|
| %Gravel       | > 2000    | 2.6%   | 1.0%   | 0.2%   |
| %Sand         | 63-2000   | 32.7%  | 30.8%  | 38.1%  |
| %Silt         | 4-63      | 47.3%  | 54.1%  | 54.0%  |
| %Clay         | <4        | 17.4%  | 14.1%  | 7.7%   |
| %Total        |           | 100.0% | 100.0% | 100.0% |

|                      |     |       |       |       |
|----------------------|-----|-------|-------|-------|
| %Fines (Silt + Clay) | <63 | 64.8% | 68.2% | 61.7% |
|----------------------|-----|-------|-------|-------|

| Size Fraction | Size (mm) | DAC 02 | DAC 03 | DAC 04 |
|---------------|-----------|--------|--------|--------|
| %Gravel       | > 2000    | 0.6%   | 0.5%   | 0.6%   |
| %Sand         | 63-2000   | 23.9%  | 29.3%  | 43.3%  |
| %Silt         | 4-63      | 56.7%  | 48.4%  | 38.1%  |
| %Clay         | <4        | 18.9%  | 21.8%  | 18.0%  |
| %Total        |           | 100.0% | 100.0% | 100.0% |

|                      |     |       |       |       |
|----------------------|-----|-------|-------|-------|
| %Fines (Silt + Clay) | <63 | 75.6% | 70.2% | 56.1% |
|----------------------|-----|-------|-------|-------|

| Size Fraction | Size (mm) | SWZ 01 | SWZ 04 |
|---------------|-----------|--------|--------|
| %Gravel       | > 2000    | 0.6%   | 1.2%   |
| %Sand         | 63-2000   | 60.9%  | 62.8%  |
| %Silt         | 4-63      | 21.4%  | 25.7%  |
| %Clay         | <4        | 17.1%  | 10.3%  |
| %Total        |           | 100.0% | 100.0% |

|                      |     |       |       |
|----------------------|-----|-------|-------|
| %Fines (Silt + Clay) | <63 | 38.4% | 36.0% |
|----------------------|-----|-------|-------|

| Size Fraction | Size (mm) | 2229   | 2238   | 2243   | 2433   | 2441   |
|---------------|-----------|--------|--------|--------|--------|--------|
| %Gravel       | > 2000    | 0.7%   | 0.8%   | 0.3%   | 0.0%   | 0.0%   |
| %Sand         | 63-2000   | 83.9%  | 45.0%  | 72.6%  | 67.9%  | 44.6%  |
| %Silt         | 4-63      | 6.4%   | 46.2%  | 17.5%  | 16.8%  | 34.1%  |
| %Clay         | <4        | 9.0%   | 8.0%   | 9.5%   | 15.3%  | 21.3%  |
| %Total        |           | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

|                      |     |       |       |       |       |       |
|----------------------|-----|-------|-------|-------|-------|-------|
| %Fines (Silt + Clay) | <63 | 15.4% | 54.3% | 27.1% | 32.0% | 55.4% |
|----------------------|-----|-------|-------|-------|-------|-------|

### Grain size analyses August 17, 2004—AMEC

| Size Fraction | Size (mm) | BST 01 | BST 04 | BST 07 |
|---------------|-----------|--------|--------|--------|
| %Gravel       | > 2000    | 2.4%   | 0.0%   | 1.9%   |
| %Sand         | 63-2000   | 39.0%  | 12.6%  | 24.6%  |
| %Silt         | 4-63      | 45.2%  | 68.3%  | 57.2%  |
| %Clay         | <4        | 13.3%  | 19.1%  | 16.3%  |
| %Total        |           | 100.0% | 100.0% | 100.0% |

|                      |     |       |       |       |
|----------------------|-----|-------|-------|-------|
| %Fines (Silt + Clay) | <63 | 58.6% | 87.4% | 73.5% |
|----------------------|-----|-------|-------|-------|

| Size Fraction | Size (mm) | DAC 02 | DAC 03 | DAC 04 |
|---------------|-----------|--------|--------|--------|
| %Gravel       | > 2000    | 0.1%   | 0.0%   | 0.1%   |
| %Sand         | 63-2000   | 24.1%  | 37.3%  | 32.5%  |
| %Silt         | 4-63      | 63.1%  | 42.6%  | 52.5%  |
| %Clay         | <4        | 12.6%  | 20.1%  | 15.0%  |
| %Total        |           | 100.0% | 100.0% | 100.0% |

|                      |     |       |       |       |
|----------------------|-----|-------|-------|-------|
| %Fines (Silt + Clay) | <63 | 75.8% | 62.7% | 67.5% |
|----------------------|-----|-------|-------|-------|

**Grain size analyses August 17, 2004—AMEC**

| Size Fraction | Size (mm) | SWZ 01 | SWZ 02 | SWZ 04 |
|---------------|-----------|--------|--------|--------|
| %Gravel       | > 2000    | 0.0%   | 0.0%   | 0.7%   |
| %Sand         | 63-2000   | 45.4%  | 46.1%  | 40.6%  |
| %Silt         | 4-63      | 31.2%  | 33.4%  | 35.7%  |
| %Clay         | <4        | 23.4%  | 20.5%  | 23.0%  |
| %Total        |           | 100.0% | 100.0% | 100.0% |

|                      |     |       |       |       |
|----------------------|-----|-------|-------|-------|
| %Fines (Silt + Clay) | <63 | 54.6% | 53.9% | 58.7% |
|----------------------|-----|-------|-------|-------|

| Size Fraction | Size (mm) | 2229   | 2238   | 2243   | 2433   | 2441   |
|---------------|-----------|--------|--------|--------|--------|--------|
| %Gravel       | > 2000    | 1.9%   | 0.4%   | 0.1%   | 0.0%   | 0.0%   |
| %Sand         | 63-2000   | 75.3%  | 38.3%  | 68.6%  | 63.8%  | 18.2%  |
| %Silt         | 4-63      | 12.1%  | 48.2%  | 22.6%  | 25.3%  | 40.9%  |
| %Clay         | <4        | 10.6%  | 13.1%  | 8.7%   | 10.9%  | 40.9%  |
| %Total        |           | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

|                      |     |       |       |       |       |       |
|----------------------|-----|-------|-------|-------|-------|-------|
| %Fines (Silt + Clay) | <63 | 22.8% | 61.3% | 31.3% | 36.2% | 81.8% |
|----------------------|-----|-------|-------|-------|-------|-------|

**Grain size analyses October 29, 2004—AMEC**

| Size Fraction | Size (mm) | BST 01 | BST 04 | BST 07 |
|---------------|-----------|--------|--------|--------|
| %Gravel       | > 2000    | 2.3%   | 0.1%   | 1.7%   |
| %Sand         | 63-2000   | 24.4%  | 20.3%  | 23.4%  |
| %Silt         | 4-63      | 43.6%  | 45.5%  | 29.0%  |
| %Clay         | <4        | 29.8%  | 34.1%  | 45.9%  |
| %Total        |           | 100.0% | 100.0% | 100.0% |

|                      |     |       |       |       |
|----------------------|-----|-------|-------|-------|
| %Fines (Silt + Clay) | <63 | 73.4% | 79.5% | 74.9% |
|----------------------|-----|-------|-------|-------|

| Size Fraction | Size (mm) | DAC 02 | DAC 03 | DAC 04 |
|---------------|-----------|--------|--------|--------|
| %Gravel       | > 2000    | 0.0%   | 0.0%   | 0.2%   |
| %Sand         | 63-2000   | 17.3%  | 24.9%  | 50.5%  |
| %Silt         | 4-63      | 26.0%  | 10.4%  | 30.2%  |
| %Clay         | <4        | 56.7%  | 64.7%  | 19.1%  |
| %Total        |           | 100.0% | 100.0% | 100.0% |

|                      |     |       |       |       |
|----------------------|-----|-------|-------|-------|
| %Fines (Silt + Clay) | <63 | 82.7% | 75.1% | 49.2% |
|----------------------|-----|-------|-------|-------|

| Size Fraction | Size (mm) | SWZ 01 | SWZ 02 | SWZ 04 |
|---------------|-----------|--------|--------|--------|
| %Gravel       | > 2000    | 0.4%   | 0.0%   | 0.0%   |
| %Sand         | 63-2000   | 40.1%  | 31.9%  | 51.0%  |
| %Silt         | 4-63      | 4.4%   | 12.8%  | 12.7%  |
| %Clay         | <4        | 55.1%  | 55.4%  | 36.3%  |
| %Total        |           | 100.0% | 100.0% | 100.0% |

|                      |     |       |       |       |
|----------------------|-----|-------|-------|-------|
| %Fines (Silt + Clay) | <63 | 59.6% | 68.1% | 49.0% |
|----------------------|-----|-------|-------|-------|

| Size Fraction | Size (mm) | 2229   | 2238   | 2243   | 2433   | 2441   |
|---------------|-----------|--------|--------|--------|--------|--------|
| %Gravel       | > 2000    | 6.1%   | 0.3%   | 0.0%   | 0.0%   | 0.0%   |
| %Sand         | 63-2000   | 75.4%  | 37.0%  | 67.7%  | 68.2%  | 24.9%  |
| %Silt         | 4-63      | 10.0%  | 28.3%  | 4.8%   | 3.0%   | 14.5%  |
| %Clay         | <4        | 8.6%   | 34.4%  | 27.4%  | 28.8%  | 60.6%  |
| %Total        |           | 100.0% | 100.0% | 100.0% | 100.0% | 100.0% |

|                      |     |       |       |       |       |       |
|----------------------|-----|-------|-------|-------|-------|-------|
| %Fines (Silt + Clay) | <63 | 18.5% | 62.7% | 32.3% | 31.8% | 75.1% |
|----------------------|-----|-------|-------|-------|-------|-------|

## Appendix C. Total Organic Carbon (TOC) data.

**Sediment chemistry data March 02, 2004—TOC results summary (all results in percent)—CRG Marine Laboratories, Inc.**

| <b>Analyte</b>       | <b>BST01</b> | <b>BST04</b> | <b>BST07</b> |             |             |
|----------------------|--------------|--------------|--------------|-------------|-------------|
| Total Organic Carbon | 2.22         | 2.01         | 2.29         |             |             |
| <b>Analyte</b>       | <b>DAC02</b> | <b>DAC03</b> | <b>DAC04</b> |             |             |
| Total Organic Carbon | 2.49         | 1.88         | 1.39         |             |             |
| <b>Analyte</b>       | <b>SWZ01</b> | <b>SWZ02</b> | <b>SWZ04</b> |             |             |
| Total Organic Carbon | 4.85         | 5.57         | 3.87         |             |             |
| <b>Analyte</b>       | <b>2229</b>  | <b>2238</b>  | <b>2243</b>  | <b>2433</b> | <b>2441</b> |
| Total Organic Carbon | 0.32         | 0.88         | 0.4          | 0.65        | 2.35        |

**Sediment chemistry data August 17, 2004—TOC results summary (all results in percent)—CRG Marine Laboratories, Inc.**

| <b>Analyte</b>       | <b>BST01</b> | <b>BST04</b> | <b>BST07</b> |             |             |
|----------------------|--------------|--------------|--------------|-------------|-------------|
| Total Organic Carbon | 1.96         | 1.96         | 2.23         |             |             |
| <b>Analyte</b>       | <b>DAC02</b> | <b>DAC03</b> | <b>DAC04</b> |             |             |
| Total Organic Carbon | 2.49         | 2.02         | 2.77         |             |             |
| <b>Analyte</b>       | <b>SWZ01</b> | <b>SWZ02</b> | <b>SWZ04</b> |             |             |
| Total Organic Carbon | 4.33         | 3.62         | 3.5          |             |             |
| <b>Analyte</b>       | <b>2229</b>  | <b>2238</b>  | <b>2243</b>  | <b>2433</b> | <b>2441</b> |
| Total Organic Carbon | 0.75         | 1.06         | 0.51         | 0.62        | 2.33        |

**Sediment chemistry data October 29, 2004—TOC results summary (all results in percent)—CRG Marine Laboratories, Inc.**

| <b>Analyte</b>       | <b>BST01</b> | <b>BST04</b> | <b>BST07</b> |             |             |
|----------------------|--------------|--------------|--------------|-------------|-------------|
| Total Organic Carbon | 2.25         | 2.29         | 2.53         |             |             |
| <b>Analyte</b>       | <b>DAC02</b> | <b>DAC03</b> | <b>DAC04</b> |             |             |
| Total Organic Carbon | 2.86         | 2.46         | 1.86         |             |             |
| <b>Analyte</b>       | <b>SWZ01</b> | <b>SWZ02</b> | <b>SWZ04</b> |             |             |
| Total Organic Carbon | 4.10         | 2.93         | 2.72         |             |             |
| <b>Analyte</b>       | <b>2229</b>  | <b>2238</b>  | <b>2243</b>  | <b>2433</b> | <b>2441</b> |
| Total Organic Carbon | 0.37         | 0.99         | 0.54         | 0.64        | 2.29        |

Appendix D. Toxicity test results.

10-day *Eohaustorius* survival toxicity test in sediment March 02, 2004—Marine Pollution Studies Laboratory

| Station | Replicate | Final #<br>Alive | Initial #<br>Alive | Final<br>Proportion<br>Alive | Mean Final<br>Proportion<br>Alive | SD Final<br>Proportion<br>Alive | Controls | P     | %<br>Control | MSD<br>Cutoff | Toxic |
|---------|-----------|------------------|--------------------|------------------------------|-----------------------------------|---------------------------------|----------|-------|--------------|---------------|-------|
| BST01   | 1         | 15               | 20                 | 0.75                         | 0.64                              | 0.14                            | 1.00     | 0.003 | 0.67         | 0.72          | T     |
| BST01   | 2         | 13               | 20                 | 0.65                         |                                   |                                 | 0.95     |       |              |               |       |
| BST01   | 3         | 11               | 20                 | 0.55                         |                                   |                                 | 0.90     |       |              |               |       |
| BST01   | 4         | 16               | 20                 | 0.80                         |                                   |                                 | 0.95     |       |              |               |       |
| BST01   | 5         | 9                | 20                 | 0.45                         |                                   |                                 | 1.00     |       |              |               |       |
| BST04   | 1         | 12               | 20                 | 0.60                         | 0.62                              | 0.10                            | 1.00     | 0.000 | 0.65         | 0.72          | T     |
| BST04   | 2         | 16               | 20                 | 0.80                         |                                   |                                 | 0.95     |       |              |               |       |
| BST04   | 3         | 11               | 20                 | 0.55                         |                                   |                                 | 0.90     |       |              |               |       |
| BST04   | 4         | 11               | 20                 | 0.55                         |                                   |                                 | 0.95     |       |              |               |       |
| BST04   | 5         | 12               | 20                 | 0.60                         |                                   |                                 | 1.00     |       |              |               |       |
| BST07   | 1         | 13               | 20                 | 0.65                         | 0.68                              | 0.19                            | 1.00     | 0.013 | 0.71         | 0.72          | T     |
| BST07   | 2         | 17               | 20                 | 0.85                         |                                   |                                 | 0.95     |       |              |               |       |
| BST07   | 3         | 13               | 20                 | 0.65                         |                                   |                                 | 0.90     |       |              |               |       |
| BST07   | 4         | 17               | 20                 | 0.85                         |                                   |                                 | 0.95     |       |              |               |       |
| BST07   | 5         | 8                | 20                 | 0.40                         |                                   |                                 | 1.00     |       |              |               |       |
| DAC02   | 1         | 8                | 20                 | 0.40                         | 0.56                              | 0.11                            | 1.00     | 0.000 | 0.58         | 0.72          | T     |
| DAC02   | 2         | 13               | 20                 | 0.65                         |                                   |                                 | 0.95     |       |              |               |       |
| DAC02   | 3         | 12               | 20                 | 0.60                         |                                   |                                 | 0.90     |       |              |               |       |
| DAC02   | 4         | 10               | 20                 | 0.50                         |                                   |                                 | 0.95     |       |              |               |       |
| DAC02   | 5         | 13               | 20                 | 0.65                         |                                   |                                 | 1.00     |       |              |               |       |
| DAC03   | 1         | 15               | 20                 | 0.75                         | 0.70                              | 0.14                            | 1.00     | 0.005 | 0.73         | 0.72          | NT    |
| DAC03   | 2         | 11               | 20                 | 0.55                         |                                   |                                 | 0.95     |       |              |               |       |
| DAC03   | 3         | 14               | 20                 | 0.70                         |                                   |                                 | 0.90     |       |              |               |       |
| DAC03   | 4         | 18               | 20                 | 0.90                         |                                   |                                 | 0.95     |       |              |               |       |
| DAC03   | 5         | 12               | 20                 | 0.60                         |                                   |                                 | 1.00     |       |              |               |       |
| DAC04   | 1         | 8                | 20                 | 0.40                         | 0.39                              | 0.09                            | 1.00     | 0.000 | 0.41         | 0.72          | T     |
| DAC04   | 2         | 9                | 20                 | 0.45                         |                                   |                                 | 0.95     |       |              |               |       |
| DAC04   | 3         | 6                | 20                 | 0.30                         |                                   |                                 | 0.90     |       |              |               |       |
| DAC04   | 4         | 10               | 20                 | 0.50                         |                                   |                                 | 0.95     |       |              |               |       |
| DAC04   | 5         | 6                | 20                 | 0.30                         |                                   |                                 | 1.00     |       |              |               |       |
| SWZ01   | 1         | 0                | 20                 | 0.00                         | 0.00                              | 0.00                            | 1.00     | 0.000 | 0.00         | 0.72          | T     |
| SWZ01   | 2         | 0                | 20                 | 0.00                         |                                   |                                 | 0.95     |       |              |               |       |
| SWZ01   | 3         | 0                | 20                 | 0.00                         |                                   |                                 | 0.90     |       |              |               |       |
| SWZ01   | 4         | 0                | 20                 | 0.00                         |                                   |                                 | 0.95     |       |              |               |       |
| SWZ01   | 5         | 0                | 20                 | 0.00                         |                                   |                                 | 1.00     |       |              |               |       |
| SWZ02   | 1         | 1                | 20                 | 0.05                         | 0.02                              | 0.03                            | 1.00     | 0.000 | 0.02         | 0.72          | T     |
| SWZ02   | 2         | 0                | 20                 | 0.00                         |                                   |                                 | 0.95     |       |              |               |       |
| SWZ02   | 3         | 0                | 20                 | 0.00                         |                                   |                                 | 0.90     |       |              |               |       |
| SWZ02   | 4         | 0                | 20                 | 0.00                         |                                   |                                 | 0.95     |       |              |               |       |
| SWZ02   | 5         | 1                | 20                 | 0.05                         |                                   |                                 | 1.00     |       |              |               |       |
| SWZ04   | 1         | 2                | 20                 | 0.10                         | 0.05                              | 0.04                            | 1.00     | 0.000 | 0.05         | 0.72          | T     |
| SWZ04   | 2         | 1                | 20                 | 0.05                         |                                   |                                 | 0.95     |       |              |               |       |
| SWZ04   | 3         | 0                | 20                 | 0.00                         |                                   |                                 | 0.90     |       |              |               |       |
| SWZ04   | 4         | 1                | 20                 | 0.05                         |                                   |                                 | 0.95     |       |              |               |       |
| SWZ04   | 5         | 1                | 20                 | 0.05                         |                                   |                                 | 1.00     |       |              |               |       |
| 2229    | 1         | 17               | 20                 | 0.85                         | 0.87                              | 0.09                            | 1.00     | 0.047 | 0.91         | 0.72          | NT    |
| 2229    | 2         | 15               | 20                 | 0.75                         |                                   |                                 | 0.95     |       |              |               |       |
| 2229    | 3         | 17               | 20                 | 0.85                         |                                   |                                 | 0.90     |       |              |               |       |
| 2229    | 4         | 18               | 20                 | 0.90                         |                                   |                                 | 0.95     |       |              |               |       |
| 2229    | 5         | 20               | 20                 | 1.00                         |                                   |                                 | 1.00     |       |              |               |       |
| 2238    | 1         | 12               | 20                 | 0.60                         | 0.58                              | 0.18                            | 1.00     | 0.004 | 0.60         | 0.72          | T     |

**10-day *Eohaustorius* survival toxicity test in sediment March 02, 2004—Marine Pollution Studies Laboratory**

|      |   |    |    |      |      |      |      |       |      |      |    |
|------|---|----|----|------|------|------|------|-------|------|------|----|
| 2238 | 2 | 9  | 20 | 0.45 |      |      | 0.95 |       |      |      |    |
| 2238 | 3 | 16 | 20 | 0.80 |      |      | 0.90 |       |      |      |    |
| 2238 | 4 | 7  | 20 | 0.35 |      |      | 0.95 |       |      |      |    |
| 2238 | 5 | 14 | 20 | 0.70 |      |      | 1.00 |       |      |      |    |
| 2243 | 1 | 14 | 20 | 0.70 | 0.68 | 0.06 | 1.00 | 0.000 | 0.71 | 0.72 | T  |
| 2243 | 2 | 15 | 20 | 0.75 |      |      | 0.95 |       |      |      |    |
| 2243 | 3 | 12 | 20 | 0.60 |      |      | 0.90 |       |      |      |    |
| 2243 | 4 | 13 | 20 | 0.65 |      |      | 0.95 |       |      |      |    |
| 2243 | 5 | 14 | 20 | 0.70 |      |      | 1.00 |       |      |      |    |
| 2433 | 1 | 19 | 20 | 0.95 | 0.83 | 0.13 | 1.00 | 0.040 | 0.86 | 0.72 | NT |
| 2433 | 2 | 13 | 20 | 0.65 |      |      | 0.95 |       |      |      |    |
| 2433 | 3 | 18 | 20 | 0.90 |      |      | 0.90 |       |      |      |    |
| 2433 | 4 | 18 | 20 | 0.90 |      |      | 0.95 |       |      |      |    |
| 2433 | 5 | 15 | 20 | 0.75 |      |      | 1.00 |       |      |      |    |
| 2441 | 1 | 12 | 20 | 0.60 | 0.68 | 0.06 | 1.00 | 0.000 | 0.71 | 0.72 | T  |
| 2441 | 2 | 14 | 20 | 0.70 |      |      | 0.95 |       |      |      |    |
| 2441 | 3 | 15 | 20 | 0.75 |      |      | 0.90 |       |      |      |    |
| 2441 | 4 | 14 | 20 | 0.70 |      |      | 0.95 |       |      |      |    |
| 2441 | 5 | 13 | 20 | 0.65 |      |      | 1.00 |       |      |      |    |
| HOME | 1 | 20 | 20 | 1.00 | 0.96 | 0.04 |      |       |      |      |    |
| HOME | 2 | 19 | 20 | 0.95 |      |      |      |       |      |      |    |
| HOME | 3 | 18 | 20 | 0.90 |      |      |      |       |      |      |    |
| HOME | 4 | 19 | 20 | 0.95 |      |      |      |       |      |      |    |
| HOME | 5 | 20 | 20 | 1.00 |      |      |      |       |      |      |    |

**10-day *Eohaustorius* survival toxicity test in sediment March 02, 2004—Marine Pollution Studies Laboratory**

| Concentration | Replicate | Final #<br>Alive | Initial #<br>Alive | Proportion<br>Survival | Mean<br>Survival | SD   |
|---------------|-----------|------------------|--------------------|------------------------|------------------|------|
| 0             | 1         | 9                | 10                 | 0.90                   | 0.97             | 0.06 |
| 0             | 2         | 10               | 10                 | 1.00                   |                  |      |
| 0             | 3         | 10               | 10                 | 1.00                   |                  |      |
| 560           | 1         | 0                | 10                 | 0.00                   | 0.00             | 0.00 |
| 560           | 2         | 0                | 10                 | 0.00                   |                  |      |
| 560           | 3         | 0                | 10                 | 0.00                   |                  |      |
| 1000          | 1         | 0                | 10                 | 0.00                   | 0.00             | 0.00 |
| 1000          | 2         | 0                | 10                 | 0.00                   |                  |      |
| 1000          | 3         | 0                | 10                 | 0.00                   |                  |      |
| 1800          | 1         | 0                | 10                 | 0.00                   | 0.00             | 0.00 |
| 1800          | 2         | 0                | 10                 | 0.00                   |                  |      |
| 1800          | 3         | 0                | 10                 | 0.00                   |                  |      |
| 3200          | 1         | 0                | 10                 | 0.00                   | 0.00             | 0.00 |
| 3200          | 2         | 0                | 10                 | 0.00                   |                  |      |
| 3200          | 3         | 0                | 10                 | 0.00                   |                  |      |
| 5600          | 1         | 0                | 10                 | 0.00                   | 0.00             | 0.00 |
| 5600          | 2         | 0                | 10                 | 0.00                   |                  |      |
| 5600          | 3         | 0                | 10                 | 0.00                   |                  |      |

| Concentration | pH   | Total<br>Ammonia | Un-ionized<br>Ammonia |
|---------------|------|------------------|-----------------------|
| 0             | 7.84 | 0                | 0.000                 |
| 560           | 7.28 | 482              | 1.924                 |
| 1000          | 7.13 | 984              | 2.785                 |
| 1800          | 6.97 | 1685             | 3.302                 |
| 3200          | 6.8  | 3000             | 3.977                 |
| 5600          | 6.6  | 5100             | 4.268                 |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater March 03, 2004—Marine Pollution Studies Laboratory**

Studies Laboratory

| Station | Dilution | Replicate | # Fertilized | # Unfertilized | Proportion Fertilized | Mean Fertilized | SD Fertilized | Control P | % Control | MSD Cutoff | Toxic |    |
|---------|----------|-----------|--------------|----------------|-----------------------|-----------------|---------------|-----------|-----------|------------|-------|----|
| BST01   | 25       | 1         | 90           | 10             | 0.90                  | 0.87            | 0.08          | 0.90      | 0.198     | 0.96       | 0.80  | NT |
| BST01   | 25       | 2         | 91           | 9              | 0.91                  |                 |               | 0.91      |           |            |       |    |
| BST01   | 25       | 3         | 91           | 9              | 0.91                  |                 |               | 0.95      |           |            |       |    |
| BST01   | 25       | 4         | 92           | 9              | 0.91                  |                 |               | 0.92      |           |            |       |    |
| BST01   | 25       | 5         | 74           | 26             | 0.74                  |                 |               | 0.86      |           |            |       |    |
| BST01   | 50       | 1         | 87           | 13             | 0.87                  | 0.90            | 0.03          | 0.90      | 0.383     | 0.99       | 0.80  | NT |
| BST01   | 50       | 2         | 94           | 11             | 0.90                  |                 |               | 0.91      |           |            |       |    |
| BST01   | 50       | 3         | 104          | 6              | 0.95                  |                 |               | 0.95      |           |            |       |    |
| BST01   | 50       | 4         | 90           | 10             | 0.90                  |                 |               | 0.92      |           |            |       |    |
| BST01   | 50       | 5         | 90           | 10             | 0.90                  |                 |               | 0.86      |           |            |       |    |
| BST01   | 100      | 1         | 76           | 24             | 0.76                  | 0.83            | 0.06          | 0.90      | 0.027     | 0.92       | 0.81  | NT |
| BST01   | 100      | 2         | 90           | 11             | 0.89                  |                 |               | 0.91      |           |            |       |    |
| BST01   | 100      | 3         | 87           | 13             | 0.87                  |                 |               | 0.95      |           |            |       |    |
| BST01   | 100      | 4         | 88           | 20             | 0.81                  |                 |               | 0.92      |           |            |       |    |
| BST01   | 100      | lost      | lost         | lost           | lost                  |                 |               | 0.86      |           |            |       |    |
| BST04   | 25       | 1         | 90           | 10             | 0.90                  | 0.86            | 0.05          | 0.90      | 0.038     | 0.94       | 0.80  | NT |
| BST04   | 25       | 2         | 100          | 17             | 0.85                  |                 |               | 0.91      |           |            |       |    |
| BST04   | 25       | 3         | 91           | 12             | 0.88                  |                 |               | 0.95      |           |            |       |    |
| BST04   | 25       | 4         | 78           | 22             | 0.78                  |                 |               | 0.92      |           |            |       |    |
| BST04   | 25       | 5         | 86           | 14             | 0.86                  |                 |               | 0.86      |           |            |       |    |
| BST04   | 50       | 1         | 96           | 12             | 0.89                  | 0.90            | 0.05          | 0.90      | 0.339     | 0.99       | 0.80  | NT |
| BST04   | 50       | 2         | 99           | 6              | 0.94                  |                 |               | 0.91      |           |            |       |    |
| BST04   | 50       | 3         | 87           | 13             | 0.87                  |                 |               | 0.95      |           |            |       |    |
| BST04   | 50       | 4         | 83           | 17             | 0.83                  |                 |               | 0.92      |           |            |       |    |
| BST04   | 50       | 5         | 95           | 5              | 0.95                  |                 |               | 0.86      |           |            |       |    |
| BST04   | 100      | 1         | 85           | 15             | 0.85                  | 0.82            | 0.04          | 0.90      | 0.003     | 0.90       | 0.80  | NT |
| BST04   | 100      | 2         | 76           | 24             | 0.76                  |                 |               | 0.91      |           |            |       |    |
| BST04   | 100      | 3         | 80           | 20             | 0.80                  |                 |               | 0.95      |           |            |       |    |
| BST04   | 100      | 4         | 112          | 21             | 0.84                  |                 |               | 0.92      |           |            |       |    |
| BST04   | 100      | 5         | 118          | 21             | 0.85                  |                 |               | 0.86      |           |            |       |    |
| BST07   | 25       | 1         | 90           | 13             | 0.87                  | 0.89            | 0.04          | 0.90      | 0.214     | 0.98       | 0.80  | NT |
| BST07   | 25       | 2         | 92           | 15             | 0.86                  |                 |               | 0.91      |           |            |       |    |
| BST07   | 25       | 3         | 95           | 14             | 0.87                  |                 |               | 0.95      |           |            |       |    |
| BST07   | 25       | 4         | 94           | 13             | 0.88                  |                 |               | 0.92      |           |            |       |    |
| BST07   | 25       | 5         | 118          | 5              | 0.96                  |                 |               | 0.86      |           |            |       |    |
| BST07   | 50       | 1         | 91           | 9              | 0.91                  | 0.84            | 0.04          | 0.90      | 0.014     | 0.93       | 0.80  | NT |
| BST07   | 50       | 2         | 113          | 24             | 0.82                  |                 |               | 0.91      |           |            |       |    |
| BST07   | 50       | 3         | 108          | 28             | 0.79                  |                 |               | 0.95      |           |            |       |    |
| BST07   | 50       | 4         | 83           | 17             | 0.83                  |                 |               | 0.92      |           |            |       |    |
| BST07   | 50       | 5         | 85           | 15             | 0.85                  |                 |               | 0.86      |           |            |       |    |
| BST07   | 100      | 1         | 83           | 17             | 0.83                  | 0.85            | 0.02          | 0.90      | 0.005     | 0.93       | 0.80  | NT |
| BST07   | 100      | 2         | 99           | 16             | 0.86                  |                 |               | 0.91      |           |            |       |    |
| BST07   | 100      | 3         | 87           | 18             | 0.83                  |                 |               | 0.95      |           |            |       |    |
| BST07   | 100      | 4         | 88           | 12             | 0.88                  |                 |               | 0.92      |           |            |       |    |
| BST07   | 100      | 5         | 83           | 17             | 0.83                  |                 |               | 0.86      |           |            |       |    |
| DAC02   | 25       | 1         | 108          | 15             | 0.88                  | 0.82            | 0.07          | 0.90      | 0.021     | 0.91       | 0.80  | NT |
| DAC02   | 25       | 2         | 85           | 15             | 0.85                  |                 |               | 0.91      |           |            |       |    |
| DAC02   | 25       | 3         | 87           | 14             | 0.86                  |                 |               | 0.95      |           |            |       |    |
| DAC02   | 25       | 4         | 72           | 29             | 0.71                  |                 |               | 0.92      |           |            |       |    |
| DAC02   | 25       | 5         | 90           | 21             | 0.81                  |                 |               | 0.86      |           |            |       |    |
| DAC02   | 50       | 1         | 77           | 23             | 0.77                  | 0.73            | 0.04          | 0.90      | 0.000     | 0.80       | 0.80  | NT |
| DAC02   | 50       | 2         | 83           | 32             | 0.72                  |                 |               | 0.91      |           |            |       |    |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater March 03, 2004—Marine Pollution Studies Laboratory**

|       |     |   |     |     |      |      |      |      |       |      |      |    |
|-------|-----|---|-----|-----|------|------|------|------|-------|------|------|----|
| DAC02 | 50  | 3 | 73  | 27  | 0.73 |      |      | 0.95 |       |      |      |    |
| DAC02 | 50  | 4 | 76  | 24  | 0.76 |      |      | 0.92 |       |      |      |    |
| DAC02 | 50  | 5 | 67  | 33  | 0.67 |      |      | 0.86 |       |      |      |    |
| DAC02 | 100 | 1 | 58  | 42  | 0.58 | 0.52 | 0.05 | 0.90 | 0.000 | 0.57 | 0.80 | T  |
| DAC02 | 100 | 2 | 48  | 52  | 0.48 |      |      | 0.91 |       |      |      |    |
| DAC02 | 100 | 3 | 51  | 49  | 0.51 |      |      | 0.95 |       |      |      |    |
| DAC02 | 100 | 4 | 57  | 43  | 0.57 |      |      | 0.92 |       |      |      |    |
| DAC02 | 100 | 5 | 46  | 54  | 0.46 |      |      | 0.86 |       |      |      |    |
| DAC03 | 25  | 1 | 88  | 12  | 0.88 | 0.84 | 0.06 | 0.90 | 0.032 | 0.93 | 0.80 | NT |
| DAC03 | 25  | 2 | 90  | 10  | 0.90 |      |      | 0.91 |       |      |      |    |
| DAC03 | 25  | 3 | 83  | 17  | 0.83 |      |      | 0.95 |       |      |      |    |
| DAC03 | 25  | 4 | 85  | 15  | 0.85 |      |      | 0.92 |       |      |      |    |
| DAC03 | 25  | 5 | 83  | 27  | 0.75 |      |      | 0.86 |       |      |      |    |
| DAC03 | 50  | 1 | 85  | 15  | 0.85 | 0.88 | 0.07 | 0.90 | 0.229 | 0.97 | 0.80 | NT |
| DAC03 | 50  | 2 | 87  | 13  | 0.87 |      |      | 0.91 |       |      |      |    |
| DAC03 | 50  | 3 | 129 | 0   | 1.00 |      |      | 0.95 |       |      |      |    |
| DAC03 | 50  | 4 | 81  | 19  | 0.81 |      |      | 0.92 |       |      |      |    |
| DAC03 | 50  | 5 | 87  | 13  | 0.87 |      |      | 0.86 |       |      |      |    |
| DAC03 | 100 | 1 | 74  | 26  | 0.74 | 0.79 | 0.03 | 0.90 | 0.000 | 0.87 | 0.80 | NT |
| DAC03 | 100 | 2 | 84  | 20  | 0.81 |      |      | 0.91 |       |      |      |    |
| DAC03 | 100 | 3 | 83  | 17  | 0.83 |      |      | 0.95 |       |      |      |    |
| DAC03 | 100 | 4 | 97  | 27  | 0.78 |      |      | 0.92 |       |      |      |    |
| DAC03 | 100 | 5 | 82  | 20  | 0.80 |      |      | 0.86 |       |      |      |    |
| DAC04 | 25  | 1 | 90  | 10  | 0.90 | 0.84 | 0.08 | 0.90 | 0.061 | 0.92 | 0.80 | NT |
| DAC04 | 25  | 2 | 103 | 12  | 0.90 |      |      | 0.91 |       |      |      |    |
| DAC04 | 25  | 3 | 75  | 32  | 0.70 |      |      | 0.95 |       |      |      |    |
| DAC04 | 25  | 4 | 86  | 14  | 0.86 |      |      | 0.92 |       |      |      |    |
| DAC04 | 25  | 5 | 82  | 18  | 0.82 |      |      | 0.86 |       |      |      |    |
| DAC04 | 50  | 1 | 75  | 25  | 0.75 | 0.71 | 0.05 | 0.90 | 0.000 | 0.78 | 0.80 | T  |
| DAC04 | 50  | 2 | 78  | 29  | 0.73 |      |      | 0.91 |       |      |      |    |
| DAC04 | 50  | 3 | 77  | 28  | 0.73 |      |      | 0.95 |       |      |      |    |
| DAC04 | 50  | 4 | 71  | 29  | 0.71 |      |      | 0.92 |       |      |      |    |
| DAC04 | 50  | 5 | 63  | 37  | 0.63 |      |      | 0.86 |       |      |      |    |
| DAC04 | 100 | 1 | 72  | 31  | 0.70 | 0.58 | 0.12 | 0.90 | 0.001 | 0.63 | 0.80 | T  |
| DAC04 | 100 | 2 | 61  | 48  | 0.56 |      |      | 0.91 |       |      |      |    |
| DAC04 | 100 | 3 | 41  | 59  | 0.41 |      |      | 0.95 |       |      |      |    |
| DAC04 | 100 | 4 | 84  | 41  | 0.67 |      |      | 0.92 |       |      |      |    |
| DAC04 | 100 | 5 | 54  | 46  | 0.54 |      |      | 0.86 |       |      |      |    |
| SWZ01 | 25  | 1 | 80  | 20  | 0.80 | 0.79 | 0.04 | 0.90 | 0.000 | 0.87 | 0.80 | NT |
| SWZ01 | 25  | 2 | 80  | 20  | 0.80 |      |      | 0.91 |       |      |      |    |
| SWZ01 | 25  | 3 | 72  | 28  | 0.72 |      |      | 0.95 |       |      |      |    |
| SWZ01 | 25  | 4 | 83  | 18  | 0.82 |      |      | 0.92 |       |      |      |    |
| SWZ01 | 25  | 5 | 85  | 22  | 0.79 |      |      | 0.86 |       |      |      |    |
| SWZ01 | 50  | 1 | 91  | 25  | 0.78 | 0.85 | 0.04 | 0.90 | 0.023 | 0.94 | 0.80 | NT |
| SWZ01 | 50  | 2 | 100 | 14  | 0.88 |      |      | 0.91 |       |      |      |    |
| SWZ01 | 50  | 3 | 103 | 12  | 0.90 |      |      | 0.95 |       |      |      |    |
| SWZ01 | 50  | 4 | 89  | 18  | 0.83 |      |      | 0.92 |       |      |      |    |
| SWZ01 | 50  | 5 | 86  | 14  | 0.86 |      |      | 0.86 |       |      |      |    |
| SWZ01 | 100 | 1 | 4   | 96  | 0.04 | 0.03 | 0.03 | 0.90 | 0.000 | 0.03 | 0.80 | T  |
| SWZ01 | 100 | 2 | 2   | 98  | 0.02 |      |      | 0.91 |       |      |      |    |
| SWZ01 | 100 | 3 | 0   | 100 | 0.00 |      |      | 0.95 |       |      |      |    |
| SWZ01 | 100 | 4 | 1   | 99  | 0.01 |      |      | 0.92 |       |      |      |    |
| SWZ01 | 100 | 5 | 8   | 92  | 0.08 |      |      | 0.86 |       |      |      |    |
| SWZ02 | 25  | 1 | 82  | 18  | 0.82 | 0.84 | 0.04 | 0.90 | 0.007 | 0.93 | 0.80 | NT |
| SWZ02 | 25  | 2 | 80  | 20  | 0.80 |      |      | 0.91 |       |      |      |    |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater March 03, 2004—Marine Pollution Studies Laboratory**

|       |     |   |     |     |      |      |      |      |       |      |      |    |  |
|-------|-----|---|-----|-----|------|------|------|------|-------|------|------|----|--|
| SWZ02 | 25  | 3 | 83  | 17  | 0.83 |      |      | 0.95 |       |      |      |    |  |
| SWZ02 | 25  | 4 | 86  | 14  | 0.86 |      |      | 0.92 |       |      |      |    |  |
| SWZ02 | 25  | 5 | 91  | 11  | 0.89 |      |      | 0.86 |       |      |      |    |  |
| SWZ02 | 50  | 1 | 66  | 37  | 0.64 | 0.68 | 0.08 | 0.90 | 0.001 | 0.75 | 0.80 | T  |  |
| SWZ02 | 50  | 2 | 61  | 40  | 0.60 |      |      | 0.91 |       |      |      |    |  |
| SWZ02 | 50  | 3 | 62  | 38  | 0.62 |      |      | 0.95 |       |      |      |    |  |
| SWZ02 | 50  | 4 | 93  | 28  | 0.77 |      |      | 0.92 |       |      |      |    |  |
| SWZ02 | 50  | 5 | 96  | 31  | 0.76 |      |      | 0.86 |       |      |      |    |  |
| SWZ02 | 100 | 1 | 1   | 109 | 0.01 | 0.05 | 0.06 | 0.90 | 0.000 | 0.06 | 0.80 | T  |  |
| SWZ02 | 100 | 2 | 1   | 99  | 0.01 |      |      | 0.91 |       |      |      |    |  |
| SWZ02 | 100 | 3 | 13  | 77  | 0.14 |      |      | 0.95 |       |      |      |    |  |
| SWZ02 | 100 | 4 | 2   | 99  | 0.02 |      |      | 0.92 |       |      |      |    |  |
| SWZ02 | 100 | 5 | 8   | 101 | 0.07 |      |      | 0.86 |       |      |      |    |  |
| SWZ04 | 25  | 1 | 113 | 16  | 0.88 | 0.86 | 0.06 | 0.90 | 0.092 | 0.95 | 0.80 | NT |  |
| SWZ04 | 25  | 2 | 91  | 9   | 0.91 |      |      | 0.91 |       |      |      |    |  |
| SWZ04 | 25  | 3 | 84  | 16  | 0.84 |      |      | 0.95 |       |      |      |    |  |
| SWZ04 | 25  | 4 | 100 | 9   | 0.92 |      |      | 0.92 |       |      |      |    |  |
| SWZ04 | 25  | 5 | 78  | 22  | 0.78 |      |      | 0.86 |       |      |      |    |  |
| SWZ04 | 50  | 1 | 89  | 16  | 0.85 | 0.79 | 0.24 | 0.90 | 0.003 | 0.87 | 0.80 | NT |  |
| SWZ04 | 50  | 2 | 89  | 152 | 0.37 |      |      | 0.91 |       |      |      |    |  |
| SWZ04 | 50  | 3 | 87  | 13  | 0.87 |      |      | 0.95 |       |      |      |    |  |
| SWZ04 | 50  | 4 | 114 | 10  | 0.92 |      |      | 0.92 |       |      |      |    |  |
| SWZ04 | 50  | 5 | 105 | 8   | 0.93 |      |      | 0.86 |       |      |      |    |  |
| SWZ04 | 100 | 1 | 70  | 33  | 0.68 | 0.78 | 0.06 | 0.90 | 0.003 | 0.85 | 0.80 | NT |  |
| SWZ04 | 100 | 2 | 86  | 20  | 0.81 |      |      | 0.91 |       |      |      |    |  |
| SWZ04 | 100 | 3 | 89  | 20  | 0.82 |      |      | 0.95 |       |      |      |    |  |
| SWZ04 | 100 | 4 | 81  | 29  | 0.74 |      |      | 0.92 |       |      |      |    |  |
| SWZ04 | 100 | 5 | 84  | 17  | 0.83 |      |      | 0.86 |       |      |      |    |  |
| 2229  | 25  | 1 | 88  | 12  | 0.88 | 0.84 | 0.04 | 0.90 | 0.014 | 0.93 | 0.80 | NT |  |
| 2229  | 25  | 2 | 88  | 25  | 0.78 |      |      | 0.91 |       |      |      |    |  |
| 2229  | 25  | 3 | 88  | 13  | 0.87 |      |      | 0.95 |       |      |      |    |  |
| 2229  | 25  | 4 | 90  | 15  | 0.86 |      |      | 0.92 |       |      |      |    |  |
| 2229  | 25  | 5 | 97  | 19  | 0.84 |      |      | 0.86 |       |      |      |    |  |
| 2229  | 50  | 1 | 88  | 12  | 0.88 | 0.89 | 0.04 | 0.90 | 0.197 | 0.98 | 0.80 | NT |  |
| 2229  | 50  | 2 | 99  | 8   | 0.93 |      |      | 0.91 |       |      |      |    |  |
| 2229  | 50  | 3 | 98  | 7   | 0.93 |      |      | 0.95 |       |      |      |    |  |
| 2229  | 50  | 4 | 87  | 14  | 0.86 |      |      | 0.92 |       |      |      |    |  |
| 2229  | 50  | 5 | 83  | 17  | 0.83 |      |      | 0.86 |       |      |      |    |  |
| 2229  | 100 | 1 | 93  | 7   | 0.93 | 0.87 | 0.05 | 0.90 | 0.106 | 0.96 | 0.80 | NT |  |
| 2229  | 100 | 2 | 87  | 13  | 0.87 |      |      | 0.91 |       |      |      |    |  |
| 2229  | 100 | 3 | 81  | 19  | 0.81 |      |      | 0.95 |       |      |      |    |  |
| 2229  | 100 | 4 | 86  | 14  | 0.86 |      |      | 0.92 |       |      |      |    |  |
| 2229  | 100 | 5 | 90  | 10  | 0.90 |      |      | 0.86 |       |      |      |    |  |
| 2238  | 25  | 1 | 94  | 17  | 0.85 | 0.90 | 0.03 | 0.90 | 0.276 | 0.99 | 0.80 | NT |  |
| 2238  | 25  | 2 | 89  | 11  | 0.89 |      |      | 0.91 |       |      |      |    |  |
| 2238  | 25  | 3 | 96  | 8   | 0.92 |      |      | 0.95 |       |      |      |    |  |
| 2238  | 25  | 4 | 112 | 10  | 0.92 |      |      | 0.92 |       |      |      |    |  |
| 2238  | 25  | 5 | 90  | 10  | 0.90 |      |      | 0.86 |       |      |      |    |  |
| 2238  | 50  | 1 | 91  | 9   | 0.91 | 0.91 | 0.03 | 0.90 | 0.474 | 1.00 | 0.80 | NT |  |
| 2238  | 50  | 2 | 92  | 8   | 0.92 |      |      | 0.91 |       |      |      |    |  |
| 2238  | 50  | 3 | 97  | 6   | 0.94 |      |      | 0.95 |       |      |      |    |  |
| 2238  | 50  | 4 | 87  | 13  | 0.87 |      |      | 0.92 |       |      |      |    |  |
| 2238  | 50  | 5 | 99  | 12  | 0.89 |      |      | 0.86 |       |      |      |    |  |
| 2238  | 100 | 1 | 88  | 12  | 0.88 | 0.86 | 0.03 | 0.90 | 0.015 | 0.94 | 0.80 | NT |  |
| 2238  | 100 | 2 | 88  | 13  | 0.87 |      |      | 0.91 |       |      |      |    |  |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater March 03, 2004—Marine Pollution Studies Laboratory**

|         |     |   |     |    |      |      |      |      |       |      |      |    |
|---------|-----|---|-----|----|------|------|------|------|-------|------|------|----|
| 2238    | 100 | 3 | 82  | 16 | 0.84 |      |      | 0.95 |       |      |      |    |
| 2238    | 100 | 4 | 97  | 21 | 0.82 |      |      | 0.92 |       |      |      |    |
| 2238    | 100 | 5 | 88  | 12 | 0.88 |      |      | 0.86 |       |      |      |    |
| 2243    | 25  | 1 | 89  | 11 | 0.89 | 0.89 | 0.01 | 0.90 | 0.098 | 0.97 | 0.80 | NT |
| 2243    | 25  | 2 | 99  | 12 | 0.89 |      |      | 0.91 |       |      |      |    |
| 2243    | 25  | 3 | 97  | 13 | 0.88 |      |      | 0.95 |       |      |      |    |
| 2243    | 25  | 4 | 95  | 14 | 0.87 |      |      | 0.92 |       |      |      |    |
| 2243    | 25  | 5 | 89  | 11 | 0.89 |      |      | 0.86 |       |      |      |    |
| 2243    | 50  | 1 | 94  | 7  | 0.93 | 0.91 | 0.04 | 0.90 | 0.456 | 1.00 | 0.80 | NT |
| 2243    | 50  | 2 | 86  | 14 | 0.86 |      |      | 0.91 |       |      |      |    |
| 2243    | 50  | 3 | 94  | 6  | 0.94 |      |      | 0.95 |       |      |      |    |
| 2243    | 50  | 4 | 95  | 6  | 0.94 |      |      | 0.92 |       |      |      |    |
| 2243    | 50  | 5 | 106 | 18 | 0.85 |      |      | 0.86 |       |      |      |    |
| 2243    | 100 | 1 | 90  | 10 | 0.90 | 0.89 | 0.06 | 0.90 | 0.259 | 0.98 | 0.80 | NT |
| 2243    | 100 | 2 | 122 | 2  | 0.98 |      |      | 0.91 |       |      |      |    |
| 2243    | 100 | 3 | 82  | 18 | 0.82 |      |      | 0.95 |       |      |      |    |
| 2243    | 100 | 4 | 86  | 14 | 0.86 |      |      | 0.92 |       |      |      |    |
| 2243    | 100 | 5 | 93  | 14 | 0.87 |      |      | 0.86 |       |      |      |    |
| 2433    | 25  | 1 | 83  | 17 | 0.83 | 0.85 | 0.05 | 0.90 | 0.037 | 0.94 | 0.80 | NT |
| 2433    | 25  | 2 | 80  | 20 | 0.80 |      |      | 0.91 |       |      |      |    |
| 2433    | 25  | 3 | 91  | 19 | 0.83 |      |      | 0.95 |       |      |      |    |
| 2433    | 25  | 4 | 93  | 7  | 0.93 |      |      | 0.92 |       |      |      |    |
| 2433    | 25  | 5 | 87  | 13 | 0.87 |      |      | 0.86 |       |      |      |    |
| 2433    | 50  | 1 | 83  | 17 | 0.83 | 0.85 | 0.03 | 0.90 | 0.009 | 0.94 | 0.80 | NT |
| 2433    | 50  | 2 | 89  | 11 | 0.89 |      |      | 0.91 |       |      |      |    |
| 2433    | 50  | 3 | 108 | 22 | 0.83 |      |      | 0.95 |       |      |      |    |
| 2433    | 50  | 4 | 87  | 13 | 0.87 |      |      | 0.92 |       |      |      |    |
| 2433    | 50  | 5 | 83  | 17 | 0.83 |      |      | 0.86 |       |      |      |    |
| 2433    | 100 | 1 | 91  | 19 | 0.83 | 0.83 | 0.03 | 0.90 | 0.003 | 0.91 | 0.80 | NT |
| 2433    | 100 | 2 | 80  | 22 | 0.78 |      |      | 0.91 |       |      |      |    |
| 2433    | 100 | 3 | 86  | 15 | 0.85 |      |      | 0.95 |       |      |      |    |
| 2433    | 100 | 4 | 87  | 13 | 0.87 |      |      | 0.92 |       |      |      |    |
| 2433    | 100 | 5 | 82  | 18 | 0.82 |      |      | 0.86 |       |      |      |    |
| 2441    | 25  | 1 | 88  | 12 | 0.88 | 0.87 | 0.04 | 0.90 | 0.080 | 0.96 | 0.80 | NT |
| 2441    | 25  | 2 | 110 | 19 | 0.85 |      |      | 0.91 |       |      |      |    |
| 2441    | 25  | 3 | 102 | 8  | 0.93 |      |      | 0.95 |       |      |      |    |
| 2441    | 25  | 4 | 88  | 12 | 0.88 |      |      | 0.92 |       |      |      |    |
| 2441    | 25  | 5 | 83  | 17 | 0.83 |      |      | 0.86 |       |      |      |    |
| 2441    | 50  | 1 | 82  | 18 | 0.82 | 0.87 | 0.04 | 0.90 | 0.090 | 0.96 | 0.80 | NT |
| 2441    | 50  | 2 | 90  | 10 | 0.90 |      |      | 0.91 |       |      |      |    |
| 2441    | 50  | 3 | 90  | 10 | 0.90 |      |      | 0.95 |       |      |      |    |
| 2441    | 50  | 4 | 104 | 21 | 0.83 |      |      | 0.92 |       |      |      |    |
| 2441    | 50  | 5 | 91  | 9  | 0.91 |      |      | 0.86 |       |      |      |    |
| 2441    | 100 | 1 | 110 | 12 | 0.90 | 0.84 | 0.03 | 0.90 | 0.009 | 0.93 | 0.80 | NT |
| 2441    | 100 | 2 | 83  | 17 | 0.83 |      |      | 0.91 |       |      |      |    |
| 2441    | 100 | 3 | 85  | 15 | 0.85 |      |      | 0.95 |       |      |      |    |
| 2441    | 100 | 4 | 82  | 19 | 0.81 |      |      | 0.92 |       |      |      |    |
| 2441    | 100 | 5 | 83  | 17 | 0.83 |      |      | 0.86 |       |      |      |    |
| CONTROL | 100 | 1 | 90  | 10 | 0.90 | 0.91 | 0.03 |      |       |      |      |    |
| CONTROL | 100 | 2 | 91  | 9  | 0.91 |      |      |      |       |      |      |    |
| CONTROL | 100 | 3 | 95  | 5  | 0.95 |      |      |      |       |      |      |    |
| CONTROL | 100 | 4 | 92  | 8  | 0.92 |      |      |      |       |      |      |    |
| CONTROL | 100 | 5 | 86  | 14 | 0.86 |      |      |      |       |      |      |    |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater  
March 03, 2004—Marine Pollution Studies Laboratory**

| Concentration | Replicate | Fertilized | Unfertilized | Proportion Fertilized | Mean Fertilized | SD Fertilized |
|---------------|-----------|------------|--------------|-----------------------|-----------------|---------------|
| 0             | 1         | 81         | 19           | 0.81                  | 0.84            | 0.06          |
| 0             | 2         | 77         | 23           | 0.77                  |                 |               |
| 0             | 3         | 91         | 10           | 0.90                  |                 |               |
| 0             | 4         | 81         | 20           | 0.80                  |                 |               |
| 0             | 5         | 121        | 11           | 0.92                  |                 |               |
| 18            | 1         | 78         | 22           | 0.78                  | 0.78            | 0.04          |
| 18            | 2         | 73         | 27           | 0.73                  |                 |               |
| 18            | 3         | 89         | 18           | 0.83                  |                 |               |
| 18            | 4         | 79         | 21           | 0.79                  |                 |               |
| 18            | 5         | 79         | 21           | 0.79                  |                 |               |
| 32            | 1         | 73         | 27           | 0.73                  | 0.74            | 0.03          |
| 32            | 2         | 70         | 30           | 0.70                  |                 |               |
| 32            | 3         | 77         | 24           | 0.76                  |                 |               |
| 32            | 4         | 86         | 24           | 0.78                  |                 |               |
| 32            | 5         | 74         | 26           | 0.74                  |                 |               |
| 56            | 1         | 72         | 34           | 0.68                  | 0.70            | 0.03          |
| 56            | 2         | 73         | 27           | 0.73                  |                 |               |
| 56            | 3         | 72         | 28           | 0.72                  |                 |               |
| 56            | 4         | 80         | 39           | 0.67                  |                 |               |
| 56            | 5         | 71         | 29           | 0.71                  |                 |               |

| Concentration | pH   | Total Ammonia | Un-ionized Ammonia |
|---------------|------|---------------|--------------------|
| 0             | 7.86 | 0             | 0.000              |
| 18            | 7.85 | 16.4          | 0.241              |
| 32            | 7.83 | 30.3          | 0.425              |
| 56            | 7.79 | 50.9          | 0.652              |
| 100           | 7.71 | 91.4          | 0.976              |
| 180           | 7.62 | 166.4         | 1.447              |

**10-day *Eohaustorius* survival toxicity test in sediment August 20, 2004—Marine Pollution Studies Laboratory**

| 10-day <i>Leishmaniasis</i> Survival Toxicity Test in Sediment August 26, 2004 |           |               |                 |                        |                             |                           |            |       |           |            |       |
|--------------------------------------------------------------------------------|-----------|---------------|-----------------|------------------------|-----------------------------|---------------------------|------------|-------|-----------|------------|-------|
| Marine Pollution Studies Laboratory                                            |           |               |                 |                        |                             |                           |            |       |           |            |       |
| Station                                                                        | Replicate | Final # Alive | Initial # Alive | Final Proportion Alive | Mean Final Proportion Alive | SD Final Proportion Alive | Controls P |       | % Control | MSD Cutoff | Toxic |
| BST01                                                                          | 1         | 18            | 20              | 0.90                   | 0.80                        | 0.12                      | 0.90       | 0.033 | 0.86      | 0.70       | NT    |
| BST01                                                                          | 2         | 17            | 20              | 0.85                   |                             |                           | 0.90       |       |           |            |       |
| BST01                                                                          | 3         | 18            | 20              | 0.90                   |                             |                           | 0.90       |       |           |            |       |
| BST01                                                                          | 4         | 14            | 20              | 0.70                   |                             |                           | 0.95       |       |           |            |       |
| BST01                                                                          | 5         | 13            | 20              | 0.65                   |                             |                           | 1.00       |       |           |            |       |
| BST04                                                                          | 1         | 17            | 20              | 0.85                   | 0.86                        | 0.11                      | 0.90       | 0.118 | 0.92      | 0.70       | NT    |
| BST04                                                                          | 2         | 17            | 20              | 0.85                   |                             |                           | 0.90       |       |           |            |       |
| BST04                                                                          | 3         | 14            | 20              | 0.70                   |                             |                           | 0.90       |       |           |            |       |
| BST04                                                                          | 4         | 20            | 20              | 1.00                   |                             |                           | 0.95       |       |           |            |       |
| BST04                                                                          | 5         | 18            | 20              | 0.90                   |                             |                           | 1.00       |       |           |            |       |
| BST07                                                                          | 1         | 18            | 20              | 0.90                   | 0.85                        | 0.05                      | 0.90       | 0.014 | 0.91      | 0.70       | NT    |
| BST07                                                                          | 2         | 16            | 20              | 0.80                   |                             |                           | 0.90       |       |           |            |       |
| BST07                                                                          | 3         | 18            | 20              | 0.90                   |                             |                           | 0.90       |       |           |            |       |
| BST07                                                                          | 4         | 16            | 20              | 0.80                   |                             |                           | 0.95       |       |           |            |       |
| BST07                                                                          | 5         | 17            | 20              | 0.85                   |                             |                           | 1.00       |       |           |            |       |
| DAC02                                                                          | 1         | 19            | 20              | 0.95                   | 0.86                        | 0.14                      | 0.90       | 0.167 | 0.92      | 0.70       | NT    |
| DAC02                                                                          | 2         | 20            | 20              | 1.00                   |                             |                           | 0.90       |       |           |            |       |
| DAC02                                                                          | 3         | 16            | 20              | 0.80                   |                             |                           | 0.90       |       |           |            |       |
| DAC02                                                                          | 4         | 18            | 20              | 0.90                   |                             |                           | 0.95       |       |           |            |       |
| DAC02                                                                          | 5         | 13            | 20              | 0.65                   |                             |                           | 1.00       |       |           |            |       |

**10-day *Eohaustorius* survival toxicity test in sediment August 20, 2004—Marine Pollution Studies Laboratory**

|       |   |    |    |          |      |      |      |       |      |      |    |
|-------|---|----|----|----------|------|------|------|-------|------|------|----|
| DAC03 | 1 | 20 | 20 | 1.00     | 0.88 | 0.09 | 0.90 | 0.156 | 0.95 | 0.70 | NT |
| DAC03 | 2 | 19 | 20 | 0.95     |      |      | 0.90 |       |      |      |    |
| DAC03 | 3 | 17 | 20 | 0.85     |      |      | 0.90 |       |      |      |    |
| DAC03 | 4 | 16 | 20 | 0.80     |      |      | 0.95 |       |      |      |    |
| DAC03 | 5 | 16 | 20 | 0.80     |      |      | 1.00 |       |      |      |    |
| DAC04 | 1 | 11 | 20 | 0.55     | 0.63 | 0.09 | 0.90 | 0.000 | 0.68 | 0.70 | T  |
| DAC04 | 2 | 11 | 20 | 0.55     |      |      | 0.90 |       |      |      |    |
| DAC04 | 3 | 15 | 20 | 0.75     |      |      | 0.90 |       |      |      |    |
| DAC04 | 4 | 12 | 20 | 0.60     |      |      | 0.95 |       |      |      |    |
| DAC04 | 5 | 14 | 20 | 0.70     |      |      | 1.00 |       |      |      |    |
| SWZ01 | 1 | 5  | 20 | 0.25     | 0.51 | 0.17 | 0.90 | 0.002 | 0.55 | 0.70 | T  |
| SWZ01 | 2 | 10 | 20 | 0.50     |      |      | 0.90 |       |      |      |    |
| SWZ01 | 3 | 10 | 20 | 0.50     |      |      | 0.90 |       |      |      |    |
| SWZ01 | 4 | 24 | 40 | 0.60     |      |      | 0.95 |       |      |      |    |
| SWZ01 | 5 | 14 | 20 | 0.70     |      |      | 1.00 |       |      |      |    |
| SWZ02 | 1 | 11 | 20 | 0.55     | 0.51 | 0.07 | 0.90 | 0.000 | 0.55 | 0.70 | T  |
| SWZ02 | 2 | 8  | 20 | 0.40     |      |      | 0.90 |       |      |      |    |
| SWZ02 | 3 | 12 | 20 | 0.60     |      |      | 0.90 |       |      |      |    |
| SWZ02 | 4 | 10 | 20 | 0.50     |      |      | 0.95 |       |      |      |    |
| SWZ02 | 5 | 10 | 20 | 0.50     |      |      | 1.00 |       |      |      |    |
| SWZ04 | 1 | 3  | 20 | 0.15     | 0.30 | 0.11 | 0.90 | 0.000 | 0.32 | 0.70 | T  |
| SWZ04 | 2 | 6  | 20 | 0.30     |      |      | 0.90 |       |      |      |    |
| SWZ04 | 3 | 8  | 20 | 0.40     |      |      | 0.90 |       |      |      |    |
| SWZ04 | 4 | 8  | 20 | 0.40     |      |      | 0.95 |       |      |      |    |
| SWZ04 | 5 | 5  | 20 | 0.25     |      |      | 1.00 |       |      |      |    |
| 2229  | 1 | 17 | 20 | 0.85     | 0.81 | 0.11 | 0.90 | 0.034 | 0.87 | 0.70 | NT |
| 2229  | 2 | 13 | 20 | 0.65     |      |      | 0.90 |       |      |      |    |
| 2229  | 3 | 18 | 20 | 0.90     |      |      | 0.90 |       |      |      |    |
| 2229  | 4 | 18 | 20 | 0.90     |      |      | 0.95 |       |      |      |    |
| 2229  | 5 | 15 | 20 | 0.75     |      |      | 1.00 |       |      |      |    |
| 2238  | 1 | 19 | 20 | 0.95     | 0.83 | 0.10 | 0.90 | 0.050 | 0.89 | 0.70 | NT |
| 2238  | 2 | 18 | 20 | 0.90     |      |      | 0.90 |       |      |      |    |
| 2238  | 3 | 14 | 20 | 0.70     |      |      | 0.90 |       |      |      |    |
| 2238  | 4 | 15 | 20 | 0.75     |      |      | 0.95 |       |      |      |    |
| 2238  | 5 | 17 | 20 | 0.85     |      |      | 1.00 |       |      |      |    |
| 2243  | 1 | 14 | 20 | 0.70     | 0.61 | 0.36 | 0.90 | 0.059 | 0.66 | 0.70 | NT |
| 2243  | 2 | 13 | 20 | 0.65     |      |      | 0.90 |       |      |      |    |
| 2243  | 3 | 0  | 20 | 0.00     |      |      | 0.90 |       |      |      |    |
| 2243  | 4 | 15 | 20 | 0.75     |      |      | 0.95 |       |      |      |    |
| 2243  | 5 | 19 | 20 | 0.95     |      |      | 1.00 |       |      |      |    |
| 2433  | 1 | 20 | 20 | 1.00     | 0.96 | 0.04 | 0.90 | 0.153 | 1.03 | 0.70 | NT |
| 2433  | 2 | 19 | 20 | 0.95     |      |      | 0.90 |       |      |      |    |
| 2433  | 3 | 19 | 20 | 0.95     |      |      | 0.90 |       |      |      |    |
| 2433  | 4 | 20 | 20 | 1.00     |      |      | 0.95 |       |      |      |    |
| 2433  | 5 | 18 | 20 | 0.90     |      |      | 1.00 |       |      |      |    |
| 2441  | 1 | 1  | 20 | predator | 0.94 | 0.03 | 0.90 | 0.380 | 1.01 | 0.70 | NT |
| 2441  | 2 | 19 | 20 | 0.95     |      |      | 0.90 |       |      |      |    |
| 2441  | 3 | 19 | 20 | 0.95     |      |      | 0.90 |       |      |      |    |
| 2441  | 4 | 18 | 20 | 0.90     |      |      | 0.95 |       |      |      |    |
| 2441  | 5 | 19 | 20 | 0.95     |      |      | 1.00 |       |      |      |    |
| HOME  | 1 | 18 | 20 | 0.90     | 0.93 | 0.04 |      |       |      |      |    |
| HOME  | 2 | 18 | 20 | 0.90     |      |      |      |       |      |      |    |
| HOME  | 3 | 18 | 20 | 0.90     |      |      |      |       |      |      |    |
| HOME  | 4 | 38 | 40 | 0.95     |      |      |      |       |      |      |    |
| HOME  | 5 | 20 | 20 | 1.00     |      |      |      |       |      |      |    |

**10-day *Eohaustorius* survival toxicity test in sediment August 20, 2004—Marine Pollution Studies Laboratory**

| Concentration | Replicate | Final # Alive | Initial # Alive | Proportion Survival | Mean Survival | SD   |
|---------------|-----------|---------------|-----------------|---------------------|---------------|------|
| 0             | 1         | 17            | 20              | 0.85                | 0.87          | 0.03 |
| 0             | 2         | 18            | 20              | 0.90                |               |      |
| 0             | 3         | 17            | 20              | 0.85                |               |      |
| 100           | 1         | 16            | 20              | 0.80                | 0.78          | 0.03 |
| 100           | 2         | 15            | 20              | 0.75                |               |      |
| 100           | 3         | 16            | 20              | 0.80                |               |      |
| 180           | 1         | 8             | 20              | 0.40                | 0.55          | 0.13 |
| 180           | 2         | 13            | 20              | 0.65                |               |      |
| 180           | 3         | 12            | 20              | 0.60                |               |      |
| 320           | 1         | 4             | 20              | 0.20                | 0.35          | 0.15 |
| 320           | 2         | 10            | 20              | 0.50                |               |      |
| 320           | 3         | 7             | 20              | 0.35                |               |      |
| 560           | 1         | 0             | 20              | 0.00                | 0.00          | 0.00 |
| 560           | 2         | 0             | 20              | 0.00                |               |      |
| 560           | 3         | 0             | 20              | 0.00                |               |      |
| 1000          | 1         | 0             | 20              | 0.00                | 0.00          | 0.00 |
| 1000          | 2         | 0             | 20              | 0.00                |               |      |
| 1000          | 3         | 0             | 20              | 0.00                |               |      |

| Concentration | pH   | Total Ammonia | Un-ionized Ammonia |
|---------------|------|---------------|--------------------|
| 0             | 7.86 | 0.6           | 0.009              |
| 100           | 7.65 | 56.2          | 0.523              |
| 180           | 7.42 | 228.4         | 1.257              |
| 320           | 7.39 | 252           | 1.295              |
| 560           | 7.27 | 480           | 1.873              |
| 1000          | 7.1  | 930           | 2.457              |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater August 17, 2004—Marine Pollution Studies Laboratory**

Studies Laboratory

| Station | Dilution | Replicate | # Fertilized | # Unfertilized | Proportion Fertilized | Mean Fertilized | SD Fertilized | Control P | % Control | MSD Cutoff | Toxic |    |
|---------|----------|-----------|--------------|----------------|-----------------------|-----------------|---------------|-----------|-----------|------------|-------|----|
| BST01   | 25       | 1         | 127          | 9              | 0.93                  | 0.92            | 0.02          | 0.99      | 0.001     | 0.95       | 0.86  | NT |
| BST01   | 25       | 2         | 100          | 6              | 0.94                  |                 |               | 0.97      |           |            |       |    |
| BST01   | 25       | 3         | 101          | 7              | 0.94                  |                 |               | 0.98      |           |            |       |    |
| BST01   | 25       | 4         | 90           | 10             | 0.90                  |                 |               | 0.96      |           |            |       |    |
| BST01   | 25       | 5         | 91           | 9              | 0.91                  |                 |               | 0.99      |           |            |       |    |
| BST01   | 50       | 1         | 100          | 4              | 0.96                  | 0.96            | 0.02          | 0.99      | 0.072     | 0.98       | 0.86  | NT |
| BST01   | 50       | 2         | 94           | 6              | 0.94                  |                 |               | 0.97      |           |            |       |    |
| BST01   | 50       | 3         | 97           | 6              | 0.94                  |                 |               | 0.98      |           |            |       |    |
| BST01   | 50       | 4         | 979          | 3              | 1.00                  |                 |               | 0.96      |           |            |       |    |
| BST01   | 50       | 5         | 95           | 5              | 0.95                  |                 |               | 0.99      |           |            |       |    |
| BST01   | 100      | 1         | 92           | 8              | 0.92                  | 0.82            | 0.10          | 0.99      | 0.031     | 0.84       | 0.86  | T  |
| BST01   | 100      | 2         | 89           | 11             | 0.89                  |                 |               | 0.97      |           |            |       |    |
| BST01   | 100      | 3         | 62           | 28             | 0.69                  |                 |               | 0.98      |           |            |       |    |
| BST01   | 100      | 4         | 80           | 20             | 0.80                  |                 |               | 0.96      |           |            |       |    |
| BST01   | 100      | 5         | 84           | 16             | 0.84                  |                 |               | 0.99      |           |            |       |    |
| BST04   | 25       | 1         | 96           | 4              | 0.96                  | 0.94            | 0.03          | 0.99      | 0.023     | 0.97       | 0.86  | NT |
| BST04   | 25       | 2         | 97           | 3              | 0.97                  |                 |               | 0.97      |           |            |       |    |
| BST04   | 25       | 3         | 95           | 5              | 0.95                  |                 |               | 0.98      |           |            |       |    |
| BST04   | 25       | 4         | 94           | 6              | 0.94                  |                 |               | 0.96      |           |            |       |    |
| BST04   | 25       | 5         | 90           | 10             | 0.90                  |                 |               | 0.99      |           |            |       |    |
| BST04   | 50       | 1         | 100          | 5              | 0.95                  | 0.95            | 0.01          | 0.99      | 0.009     | 0.98       | 0.86  | NT |
| BST04   | 50       | 2         | 101          | 3              | 0.97                  |                 |               | 0.97      |           |            |       |    |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater August 17, 2004—Marine Pollution Studies Laboratory**

|       |     |   |     |     |      |      |      |      |       |      |      |    |  |
|-------|-----|---|-----|-----|------|------|------|------|-------|------|------|----|--|
| BST04 | 50  | 3 | 95  | 5   | 0.95 |      |      | 0.98 |       |      |      |    |  |
| BST04 | 50  | 4 | 94  | 6   | 0.94 |      |      | 0.96 |       |      |      |    |  |
| BST04 | 50  | 5 | 96  | 4   | 0.96 |      |      | 0.99 |       |      |      |    |  |
| BST04 | 100 | 1 | 101 | 13  | 0.89 | 0.94 | 0.05 | 0.99 | 0.075 | 0.96 | 0.86 | NT |  |
| BST04 | 100 | 2 | 100 | 14  | 0.88 |      |      | 0.97 |       |      |      |    |  |
| BST04 | 100 | 3 | 102 | 4   | 0.96 |      |      | 0.98 |       |      |      |    |  |
| BST04 | 100 | 4 | 98  | 2   | 0.98 |      |      | 0.96 |       |      |      |    |  |
| BST04 | 100 | 5 | 98  | 2   | 0.98 |      |      | 0.99 |       |      |      |    |  |
| BST07 | 25  | 1 | 135 | 8   | 0.94 | 0.91 | 0.02 | 0.99 | 0.000 | 0.94 | 0.86 | NT |  |
| BST07 | 25  | 2 | 101 | 9   | 0.92 |      |      | 0.97 |       |      |      |    |  |
| BST07 | 25  | 3 | 100 | 11  | 0.90 |      |      | 0.98 |       |      |      |    |  |
| BST07 | 25  | 4 | 99  | 11  | 0.90 |      |      | 0.96 |       |      |      |    |  |
| BST07 | 25  | 5 | 91  | 9   | 0.91 |      |      | 0.99 |       |      |      |    |  |
| BST07 | 50  | 1 | 97  | 5   | 0.95 | 0.94 | 0.04 | 0.99 | 0.039 | 0.96 | 0.86 | NT |  |
| BST07 | 50  | 2 | 99  | 5   | 0.95 |      |      | 0.97 |       |      |      |    |  |
| BST07 | 50  | 3 | 114 | 4   | 0.97 |      |      | 0.98 |       |      |      |    |  |
| BST07 | 50  | 4 | 101 | 15  | 0.87 |      |      | 0.96 |       |      |      |    |  |
| BST07 | 50  | 5 | 95  | 5   | 0.95 |      |      | 0.99 |       |      |      |    |  |
| BST07 | 100 | 1 | 95  | 5   | 0.95 | 0.94 | 0.03 | 0.99 | 0.015 | 0.96 | 0.86 | NT |  |
| BST07 | 100 | 2 | 99  | 4   | 0.96 |      |      | 0.97 |       |      |      |    |  |
| BST07 | 100 | 3 | 108 | 8   | 0.93 |      |      | 0.98 |       |      |      |    |  |
| BST07 | 100 | 4 | 102 | 5   | 0.95 |      |      | 0.96 |       |      |      |    |  |
| BST07 | 100 | 5 | 89  | 11  | 0.89 |      |      | 0.99 |       |      |      |    |  |
| DAC02 | 25  | 1 | 96  | 4   | 0.96 | 0.93 | 0.04 | 0.99 | 0.033 | 0.95 | 0.86 | NT |  |
| DAC02 | 25  | 2 | 97  | 3   | 0.97 |      |      | 0.97 |       |      |      |    |  |
| DAC02 | 25  | 3 | 95  | 5   | 0.95 |      |      | 0.98 |       |      |      |    |  |
| DAC02 | 25  | 4 | 87  | 13  | 0.87 |      |      | 0.96 |       |      |      |    |  |
| DAC02 | 25  | 5 | 99  | 10  | 0.91 |      |      | 0.99 |       |      |      |    |  |
| DAC02 | 50  | 1 | 53  | 71  | 0.43 | 0.54 | 0.15 | 0.99 | 0.001 | 0.55 | 0.86 | T  |  |
| DAC02 | 50  | 2 | 39  | 74  | 0.35 |      |      | 0.97 |       |      |      |    |  |
| DAC02 | 50  | 3 | 67  | 50  | 0.57 |      |      | 0.98 |       |      |      |    |  |
| DAC02 | 50  | 4 | 67  | 35  | 0.66 |      |      | 0.96 |       |      |      |    |  |
| DAC02 | 50  | 5 | 70  | 30  | 0.70 |      |      | 0.99 |       |      |      |    |  |
| DAC02 | 100 | 1 | 21  | 85  | 0.20 | 0.13 | 0.05 | 0.99 | 0.000 | 0.13 | 0.86 | T  |  |
| DAC02 | 100 | 2 | 17  | 100 | 0.15 |      |      | 0.97 |       |      |      |    |  |
| DAC02 | 100 | 3 | 13  | 92  | 0.12 |      |      | 0.98 |       |      |      |    |  |
| DAC02 | 100 | 4 | 12  | 88  | 0.12 |      |      | 0.96 |       |      |      |    |  |
| DAC02 | 100 | 5 | 5   | 95  | 0.05 |      |      | 0.99 |       |      |      |    |  |
| DAC03 | 25  | 1 | 100 | 3   | 0.97 | 0.95 | 0.03 | 0.99 | 0.036 | 0.97 | 0.86 | NT |  |
| DAC03 | 25  | 2 | 95  | 5   | 0.95 |      |      | 0.97 |       |      |      |    |  |
| DAC03 | 25  | 3 | 101 | 11  | 0.90 |      |      | 0.98 |       |      |      |    |  |
| DAC03 | 25  | 4 | 96  | 6   | 0.94 |      |      | 0.96 |       |      |      |    |  |
| DAC03 | 25  | 5 | 100 | 3   | 0.97 |      |      | 0.99 |       |      |      |    |  |
| DAC03 | 50  | 1 | 101 | 8   | 0.93 | 0.92 | 0.05 | 0.99 | 0.020 | 0.94 | 0.86 | NT |  |
| DAC03 | 50  | 2 | 96  | 4   | 0.96 |      |      | 0.97 |       |      |      |    |  |
| DAC03 | 50  | 3 | 84  | 16  | 0.84 |      |      | 0.98 |       |      |      |    |  |
| DAC03 | 50  | 4 | 94  | 6   | 0.94 |      |      | 0.96 |       |      |      |    |  |
| DAC03 | 50  | 5 | 92  | 8   | 0.92 |      |      | 0.99 |       |      |      |    |  |
| DAC03 | 100 | 1 | 98  | 2   | 0.98 | 0.90 | 0.07 | 0.99 | 0.038 | 0.92 | 0.86 | NT |  |
| DAC03 | 100 | 2 | 111 | 7   | 0.94 |      |      | 0.97 |       |      |      |    |  |
| DAC03 | 100 | 3 | 87  | 16  | 0.84 |      |      | 0.98 |       |      |      |    |  |
| DAC03 | 100 | 4 | 93  | 7   | 0.93 |      |      | 0.96 |       |      |      |    |  |
| DAC03 | 100 | 5 | 80  | 20  | 0.80 |      |      | 0.99 |       |      |      |    |  |
| DAC04 | 25  | 1 | 100 | 3   | 0.97 | 0.94 | 0.02 | 0.99 | 0.007 | 0.96 | 0.86 | NT |  |
| DAC04 | 25  | 2 | 101 | 6   | 0.94 |      |      | 0.97 |       |      |      |    |  |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater August 17, 2004—Marine Pollution Studies Laboratory**

|       |     |   |     |    |      |      |      |      |       |      |      |    |  |
|-------|-----|---|-----|----|------|------|------|------|-------|------|------|----|--|
| DAC04 | 25  | 3 | 92  | 8  | 0.92 |      |      | 0.98 |       |      |      |    |  |
| DAC04 | 25  | 4 | 92  | 8  | 0.92 |      |      | 0.96 |       |      |      |    |  |
| DAC04 | 25  | 5 | 95  | 5  | 0.95 |      |      | 0.99 |       |      |      |    |  |
| DAC04 | 50  | 1 | 92  | 8  | 0.92 | 0.93 | 0.04 | 0.99 | 0.013 | 0.95 | 0.86 | NT |  |
| DAC04 | 50  | 2 | 97  | 3  | 0.97 |      |      | 0.97 |       |      |      |    |  |
| DAC04 | 50  | 3 | 93  | 12 | 0.89 |      |      | 0.98 |       |      |      |    |  |
| DAC04 | 50  | 4 | 102 | 5  | 0.95 |      |      | 0.96 |       |      |      |    |  |
| DAC04 | 50  | 5 | 90  | 10 | 0.90 |      |      | 0.99 |       |      |      |    |  |
| DAC04 | 100 | 1 | 93  | 7  | 0.93 | 0.93 | 0.04 | 0.99 | 0.017 | 0.95 | 0.86 | NT |  |
| DAC04 | 100 | 2 | 101 | 8  | 0.93 |      |      | 0.97 |       |      |      |    |  |
| DAC04 | 100 | 3 | 850 | 15 | 0.98 |      |      | 0.98 |       |      |      |    |  |
| DAC04 | 100 | 4 | 99  | 9  | 0.92 |      |      | 0.96 |       |      |      |    |  |
| DAC04 | 100 | 5 | 88  | 12 | 0.88 |      |      | 0.99 |       |      |      |    |  |
| SWZ01 | 25  | 1 | 96  | 4  | 0.96 | 0.95 | 0.01 | 0.99 | 0.012 | 0.98 | 0.86 | NT |  |
| SWZ01 | 25  | 2 | 100 | 4  | 0.96 |      |      | 0.97 |       |      |      |    |  |
| SWZ01 | 25  | 3 | 100 | 4  | 0.96 |      |      | 0.98 |       |      |      |    |  |
| SWZ01 | 25  | 4 | 96  | 4  | 0.96 |      |      | 0.96 |       |      |      |    |  |
| SWZ01 | 25  | 5 | 93  | 7  | 0.93 |      |      | 0.99 |       |      |      |    |  |
| SWZ01 | 50  | 1 | 102 | 4  | 0.96 | 0.93 | 0.03 | 0.99 | 0.013 | 0.95 | 0.86 | NT |  |
| SWZ01 | 50  | 2 | 94  | 6  | 0.94 |      |      | 0.97 |       |      |      |    |  |
| SWZ01 | 50  | 3 | 96  | 4  | 0.96 |      |      | 0.98 |       |      |      |    |  |
| SWZ01 | 50  | 4 | 90  | 10 | 0.90 |      |      | 0.96 |       |      |      |    |  |
| SWZ01 | 50  | 5 | 90  | 10 | 0.90 |      |      | 0.99 |       |      |      |    |  |
| SWZ01 | 100 | 1 | 94  | 6  | 0.94 | 0.94 | 0.04 | 0.99 | 0.051 | 0.96 | 0.86 | NT |  |
| SWZ01 | 100 | 2 | 103 | 17 | 0.86 |      |      | 0.97 |       |      |      |    |  |
| SWZ01 | 100 | 3 | 96  | 4  | 0.96 |      |      | 0.98 |       |      |      |    |  |
| SWZ01 | 100 | 4 | 96  | 4  | 0.96 |      |      | 0.96 |       |      |      |    |  |
| SWZ01 | 100 | 5 | 102 | 4  | 0.96 |      |      | 0.99 |       |      |      |    |  |
| SWZ02 | 25  | 1 | 118 | 6  | 0.95 | 0.94 | 0.04 | 0.99 | 0.038 | 0.96 | 0.86 | NT |  |
| SWZ02 | 25  | 2 | 98  | 2  | 0.98 |      |      | 0.97 |       |      |      |    |  |
| SWZ02 | 25  | 3 | 100 | 7  | 0.93 |      |      | 0.98 |       |      |      |    |  |
| SWZ02 | 25  | 4 | 94  | 6  | 0.94 |      |      | 0.96 |       |      |      |    |  |
| SWZ02 | 25  | 5 | 87  | 13 | 0.87 |      |      | 0.99 |       |      |      |    |  |
| SWZ02 | 50  | 1 | 98  | 4  | 0.96 | 0.95 | 0.01 | 0.99 | 0.004 | 0.97 | 0.86 | NT |  |
| SWZ02 | 50  | 2 | 103 | 6  | 0.94 |      |      | 0.97 |       |      |      |    |  |
| SWZ02 | 50  | 3 | 95  | 5  | 0.95 |      |      | 0.98 |       |      |      |    |  |
| SWZ02 | 50  | 4 | 99  | 5  | 0.95 |      |      | 0.96 |       |      |      |    |  |
| SWZ02 | 50  | 5 | 95  | 5  | 0.95 |      |      | 0.99 |       |      |      |    |  |
| SWZ02 | 100 | 1 | 101 | 8  | 0.93 | 0.92 | 0.04 | 0.99 | 0.048 | 0.94 | 0.86 | NT |  |
| SWZ02 | 100 | 2 | 101 | 5  | 0.95 |      |      | 0.97 |       |      |      |    |  |
| SWZ02 | 100 | 3 | 97  | 3  | 0.97 |      |      | 0.98 |       |      |      |    |  |
| SWZ02 | 100 | 4 | 91  | 9  | 0.91 |      |      | 0.96 |       |      |      |    |  |
| SWZ02 | 100 | 5 | 86  | 14 | 0.86 |      |      | 0.99 |       |      |      |    |  |
| SWZ04 | 25  | 1 | 101 | 6  | 0.94 | 0.92 | 0.06 | 0.99 | 0.048 | 0.94 | 0.86 | NT |  |
| SWZ04 | 25  | 2 | 100 | 4  | 0.96 |      |      | 0.97 |       |      |      |    |  |
| SWZ04 | 25  | 3 | 100 | 2  | 0.98 |      |      | 0.98 |       |      |      |    |  |
| SWZ04 | 25  | 4 | 92  | 12 | 0.88 |      |      | 0.96 |       |      |      |    |  |
| SWZ04 | 25  | 5 | 76  | 14 | 0.84 |      |      | 0.99 |       |      |      |    |  |
| SWZ04 | 50  | 1 | 98  | 2  | 0.98 | 0.94 | 0.03 | 0.99 | 0.030 | 0.96 | 0.86 | NT |  |
| SWZ04 | 50  | 2 | 97  | 3  | 0.97 |      |      | 0.97 |       |      |      |    |  |
| SWZ04 | 50  | 3 | 91  | 9  | 0.91 |      |      | 0.98 |       |      |      |    |  |
| SWZ04 | 50  | 4 | 96  | 7  | 0.93 |      |      | 0.96 |       |      |      |    |  |
| SWZ04 | 50  | 5 | 94  | 8  | 0.92 |      |      | 0.99 |       |      |      |    |  |
| SWZ04 | 100 | 1 | 96  | 4  | 0.96 | 0.95 | 0.02 | 0.99 | 0.014 | 0.97 | 0.86 | NT |  |
| SWZ04 | 100 | 2 | 93  | 7  | 0.93 |      |      | 0.97 |       |      |      |    |  |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater August 17, 2004—Marine Pollution Studies Laboratory**

|       |     |   |     |    |      |      |      |      |       |      |      |    |  |
|-------|-----|---|-----|----|------|------|------|------|-------|------|------|----|--|
| SWZ04 | 100 | 3 | 97  | 3  | 0.97 |      |      | 0.98 |       |      |      |    |  |
| SWZ04 | 100 | 4 | 100 | 5  | 0.95 |      |      | 0.96 |       |      |      |    |  |
| SWZ04 | 100 | 5 | 110 | 10 | 0.92 |      |      | 0.99 |       |      |      |    |  |
| 2229  | 25  | 1 | 91  | 9  | 0.91 | 0.95 | 0.04 | 0.99 | 0.093 | 0.97 | 0.86 | NT |  |
| 2229  | 25  | 2 | 101 | 1  | 0.99 |      |      | 0.97 |       |      |      |    |  |
| 2229  | 25  | 3 | 98  | 6  | 0.94 |      |      | 0.98 |       |      |      |    |  |
| 2229  | 25  | 4 | 100 | 1  | 0.99 |      |      | 0.96 |       |      |      |    |  |
| 2229  | 25  | 5 | 100 | 9  | 0.92 |      |      | 0.99 |       |      |      |    |  |
| 2229  | 50  | 1 | 96  | 10 | 0.91 | 0.92 | 0.03 | 0.99 | 0.004 | 0.94 | 0.86 | NT |  |
| 2229  | 50  | 2 | 95  | 5  | 0.95 |      |      | 0.97 |       |      |      |    |  |
| 2229  | 50  | 3 | 94  | 6  | 0.94 |      |      | 0.98 |       |      |      |    |  |
| 2229  | 50  | 4 | 88  | 12 | 0.88 |      |      | 0.96 |       |      |      |    |  |
| 2229  | 50  | 5 | 100 | 7  | 0.93 |      |      | 0.99 |       |      |      |    |  |
| 2229  | 100 | 1 | 90  | 11 | 0.89 | 0.95 | 0.04 | 0.99 | 0.104 | 0.97 | 0.86 | NT |  |
| 2229  | 100 | 2 | 101 | 3  | 0.97 |      |      | 0.97 |       |      |      |    |  |
| 2229  | 100 | 3 | 97  | 3  | 0.97 |      |      | 0.98 |       |      |      |    |  |
| 2229  | 100 | 4 | 95  | 5  | 0.95 |      |      | 0.96 |       |      |      |    |  |
| 2229  | 100 | 5 | 111 | 2  | 0.98 |      |      | 0.99 |       |      |      |    |  |
| 2238  | 25  | 1 | 106 | 6  | 0.95 | 0.91 | 0.08 | 0.99 | 0.060 | 0.93 | 0.86 | NT |  |
| 2238  | 25  | 2 | 99  | 1  | 0.99 |      |      | 0.97 |       |      |      |    |  |
| 2238  | 25  | 3 | 93  | 7  | 0.93 |      |      | 0.98 |       |      |      |    |  |
| 2238  | 25  | 4 | 93  | 10 | 0.90 |      |      | 0.96 |       |      |      |    |  |
| 2238  | 25  | 5 | 79  | 21 | 0.79 |      |      | 0.99 |       |      |      |    |  |
| 2238  | 50  | 1 | 103 | 8  | 0.93 | 0.93 | 0.06 | 0.99 | 0.063 | 0.95 | 0.86 | NT |  |
| 2238  | 50  | 2 | 100 | 2  | 0.98 |      |      | 0.97 |       |      |      |    |  |
| 2238  | 50  | 3 | 98  | 5  | 0.95 |      |      | 0.98 |       |      |      |    |  |
| 2238  | 50  | 4 | 115 | 6  | 0.95 |      |      | 0.96 |       |      |      |    |  |
| 2238  | 50  | 5 | 83  | 17 | 0.83 |      |      | 0.99 |       |      |      |    |  |
| 2238  | 100 | 1 | 89  | 11 | 0.89 | 0.92 | 0.05 | 0.99 | 0.019 | 0.94 | 0.86 | NT |  |
| 2238  | 100 | 2 | 100 | 4  | 0.96 |      |      | 0.97 |       |      |      |    |  |
| 2238  | 100 | 3 | 97  | 3  | 0.97 |      |      | 0.98 |       |      |      |    |  |
| 2238  | 100 | 4 | 89  | 11 | 0.89 |      |      | 0.96 |       |      |      |    |  |
| 2238  | 100 | 5 | 87  | 13 | 0.87 |      |      | 0.99 |       |      |      |    |  |
| 2243  | 25  | 1 | 121 | 3  | 0.98 | 0.95 | 0.04 | 0.99 | 0.114 | 0.97 | 0.86 | NT |  |
| 2243  | 25  | 2 | 102 | 2  | 0.98 |      |      | 0.97 |       |      |      |    |  |
| 2243  | 25  | 3 | 100 | 7  | 0.93 |      |      | 0.98 |       |      |      |    |  |
| 2243  | 25  | 4 | 98  | 2  | 0.98 |      |      | 0.96 |       |      |      |    |  |
| 2243  | 25  | 5 | 90  | 11 | 0.89 |      |      | 0.99 |       |      |      |    |  |
| 2243  | 50  | 1 | 98  | 4  | 0.96 | 0.96 | 0.01 | 0.99 | 0.020 | 0.98 | 0.86 | NT |  |
| 2243  | 50  | 2 | 101 | 6  | 0.94 |      |      | 0.97 |       |      |      |    |  |
| 2243  | 50  | 3 | 102 | 6  | 0.94 |      |      | 0.98 |       |      |      |    |  |
| 2243  | 50  | 4 | 97  | 3  | 0.97 |      |      | 0.96 |       |      |      |    |  |
| 2243  | 50  | 5 | 97  | 3  | 0.97 |      |      | 0.99 |       |      |      |    |  |
| 2243  | 100 | 1 | 102 | 2  | 0.98 | 0.94 | 0.04 | 0.99 | 0.051 | 0.96 | 0.86 | NT |  |
| 2243  | 100 | 2 | 100 | 8  | 0.93 |      |      | 0.97 |       |      |      |    |  |
| 2243  | 100 | 3 | 101 | 13 | 0.89 |      |      | 0.98 |       |      |      |    |  |
| 2243  | 100 | 4 | 96  | 4  | 0.96 |      |      | 0.96 |       |      |      |    |  |
| 2243  | 100 | 5 | 96  | 4  | 0.96 |      |      | 0.99 |       |      |      |    |  |
| 2433  | 25  | 1 | 101 | 8  | 0.93 | 0.93 | 0.03 | 0.99 | 0.005 | 0.95 | 0.86 | NT |  |
| 2433  | 25  | 2 | 103 | 13 | 0.89 |      |      | 0.97 |       |      |      |    |  |
| 2433  | 25  | 3 | 101 | 6  | 0.94 |      |      | 0.98 |       |      |      |    |  |
| 2433  | 25  | 4 | 96  | 4  | 0.96 |      |      | 0.96 |       |      |      |    |  |
| 2433  | 25  | 5 | 91  | 9  | 0.91 |      |      | 0.99 |       |      |      |    |  |
| 2433  | 50  | 1 | 100 | 4  | 0.96 | 0.94 | 0.03 | 0.99 | 0.034 | 0.96 | 0.86 | NT |  |
| 2433  | 50  | 2 | 100 | 8  | 0.93 |      |      | 0.97 |       |      |      |    |  |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater August 17, 2004—Marine Pollution Studies Laboratory**

|         |     |   |     |    |      |      |      |      |       |      |      |    |  |
|---------|-----|---|-----|----|------|------|------|------|-------|------|------|----|--|
| 2433    | 50  | 3 | 95  | 5  | 0.95 |      |      | 0.98 |       |      |      |    |  |
| 2433    | 50  | 4 | 90  | 10 | 0.90 |      |      | 0.96 |       |      |      |    |  |
| 2433    | 50  | 5 | 98  | 2  | 0.98 |      |      | 0.99 |       |      |      |    |  |
| 2433    | 100 | 1 | 101 | 3  | 0.97 | 0.92 | 0.06 | 0.99 | 0.047 | 0.94 | 0.86 | NT |  |
| 2433    | 100 | 2 | 102 | 6  | 0.94 |      |      | 0.97 |       |      |      |    |  |
| 2433    | 100 | 3 | 101 | 17 | 0.86 |      |      | 0.98 |       |      |      |    |  |
| 2433    | 100 | 4 | 102 | 3  | 0.97 |      |      | 0.96 |       |      |      |    |  |
| 2433    | 100 | 5 | 90  | 16 | 0.85 |      |      | 0.99 |       |      |      |    |  |
| 2441    | 25  | 1 | 104 | 5  | 0.95 | 0.93 | 0.04 | 0.99 | 0.032 | 0.95 | 0.86 | NT |  |
| 2441    | 25  | 2 | 152 | 11 | 0.93 |      |      | 0.97 |       |      |      |    |  |
| 2441    | 25  | 3 | 101 | 5  | 0.95 |      |      | 0.98 |       |      |      |    |  |
| 2441    | 25  | 4 | 95  | 5  | 0.95 |      |      | 0.96 |       |      |      |    |  |
| 2441    | 25  | 5 | 85  | 15 | 0.85 |      |      | 0.99 |       |      |      |    |  |
| 2441    | 50  | 1 | 94  | 6  | 0.94 | 0.94 | 0.03 | 0.99 | 0.022 | 0.96 | 0.86 | NT |  |
| 2441    | 50  | 2 | 101 | 7  | 0.94 |      |      | 0.97 |       |      |      |    |  |
| 2441    | 50  | 3 | 96  | 6  | 0.94 |      |      | 0.98 |       |      |      |    |  |
| 2441    | 50  | 4 | 98  | 2  | 0.98 |      |      | 0.96 |       |      |      |    |  |
| 2441    | 50  | 5 | 89  | 11 | 0.89 |      |      | 0.99 |       |      |      |    |  |
| 2441    | 100 | 1 | 104 | 8  | 0.93 | 0.93 | 0.06 | 0.99 | 0.092 | 0.95 | 0.86 | NT |  |
| 2441    | 100 | 2 | 96  | 4  | 0.96 |      |      | 0.97 |       |      |      |    |  |
| 2441    | 100 | 3 | 100 | 3  | 0.97 |      |      | 0.98 |       |      |      |    |  |
| 2441    | 100 | 4 | 98  | 2  | 0.98 |      |      | 0.96 |       |      |      |    |  |
| 2441    | 100 | 5 | 88  | 18 | 0.83 |      |      | 0.99 |       |      |      |    |  |
| CONTROL | 100 | 1 | 99  | 1  | 0.99 | 0.98 | 0.01 |      |       |      |      |    |  |
| CONTROL | 100 | 2 | 97  | 3  | 0.97 |      |      |      |       |      |      |    |  |
| CONTROL | 100 | 3 | 98  | 2  | 0.98 |      |      |      |       |      |      |    |  |
| CONTROL | 100 | 4 | 96  | 4  | 0.96 |      |      |      |       |      |      |    |  |
| CONTROL | 100 | 5 | 99  | 1  | 0.99 |      |      |      |       |      |      |    |  |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater August 17, 2004—Marine Pollution Studies Laboratory**

| Concentration | Replicate | Fertilized | Unfertilized | Proportion Fertilized | Mean Fertilized | SD Fertilized |
|---------------|-----------|------------|--------------|-----------------------|-----------------|---------------|
| 0             | 1         | 97         | 3            | 0.97                  | 0.96            | 0.02          |
| 0             | 2         | 100        | 6            | 0.94                  |                 |               |
| 0             | 3         | 111        | 9            | 0.93                  |                 |               |
| 0             | 4         | 97         | 3            | 0.97                  |                 |               |
| 0             | 5         | 98         | 2            | 0.98                  |                 |               |
| 18            | 1         | 94         | 6            | 0.94                  | 0.95            | 0.02          |
| 18            | 2         | 95         | 5            | 0.95                  |                 |               |
| 18            | 3         | 98         | 2            | 0.98                  |                 |               |
| 18            | 4         | 101        | 5            | 0.95                  |                 |               |
| 18            | 5         | 92         | 8            | 0.92                  |                 |               |
| 32            | 1         | 88         | 12           | 0.88                  | 0.88            | 0.04          |
| 32            | 2         | 102        | 10           | 0.91                  |                 |               |
| 32            | 3         | 92         | 8            | 0.92                  |                 |               |
| 32            | 4         | 95         | 13           | 0.88                  |                 |               |
| 32            | 5         | 90         | 21           | 0.81                  |                 |               |
| 56            | 1         | 89         | 22           | 0.80                  | 0.82            | 0.08          |
| 56            | 2         | 96         | 4            | 0.96                  |                 |               |
| 56            | 3         | 87         | 30           | 0.74                  |                 |               |
| 56            | 4         | 87         | 23           | 0.79                  |                 |               |
| 56            | 5         | 101        | 23           | 0.81                  |                 |               |
| 100           | 1         | 63         | 89           | 0.41                  | 0.34            | 0.06          |
| 100           | 2         | 46         | 82           | 0.36                  |                 |               |
| 100           | 3         | 26         | 78           | 0.25                  |                 |               |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater  
August 17, 2004—Marine Pollution Studies Laboratory**

|     |   |    |    |      |      |      |
|-----|---|----|----|------|------|------|
| 100 | 4 | 35 | 68 | 0.34 |      |      |
| 100 | 5 | 46 | 97 | 0.32 |      |      |
| 180 | 1 | 3  | 97 | 0.03 | 0.03 | 0.01 |
| 180 | 2 | 1  | 99 | 0.01 |      |      |
| 180 | 3 | 3  | 97 | 0.03 |      |      |
| 180 | 4 | 2  | 98 | 0.02 |      |      |
| 180 | 5 | 4  | 96 | 0.04 |      |      |

| Concentration | pH   | Total Ammonia | Un-ionized Ammonia |
|---------------|------|---------------|--------------------|
| 0             | 7.82 | 0             | 0.000              |
| 18            | 7.86 | 16.6          | 0.249              |
| 32            | 7.82 | 31            | 0.425              |
| 56            | 7.8  | 52            | 0.681              |
| 100           | 7.75 | 91.8          | 1.073              |
| 180           | 7.67 | 167.6         | 1.633              |

**10-day *Eohaustorius* survival toxicity test in sediment October 29, 2004—Marine Pollution Studies Laboratory**

| Station | Replicate | Final #<br>Alive | Initial #<br>Alive | Final<br>Proportion<br>Alive | Mean Final<br>Proportion<br>Alive | SD Final<br>Proportion<br>Alive | Controls | P     | %<br>Control | MSD<br>Cutoff | Toxic |
|---------|-----------|------------------|--------------------|------------------------------|-----------------------------------|---------------------------------|----------|-------|--------------|---------------|-------|
| BST01   | 1         | 13               | 20                 | 0.65                         | 0.79                              | 0.10                            | 0.85     | 0.014 | 0.85         | 0.70          | NT    |
| BST01   | 2         | 17               | 20                 | 0.85                         |                                   |                                 | 0.90     |       |              |               |       |
| BST01   | 3         | 18               | 20                 | 0.90                         |                                   |                                 | 1.00     |       |              |               |       |
| BST01   | 4         | 15               | 20                 | 0.75                         |                                   |                                 | 0.95     |       |              |               |       |
| BST01   | 5         | 16               | 20                 | 0.80                         |                                   |                                 | 0.95     |       |              |               |       |
| BST04   | 1         | 18               | 20                 | 0.90                         | 0.80                              | 0.21                            | 0.85     | 0.121 | 0.86         | 0.70          | NT    |
| BST04   | 2         | 20               | 20                 | 1.00                         |                                   |                                 | 0.90     |       |              |               |       |
| BST04   | 3         | 9                | 20                 | 0.45                         |                                   |                                 | 1.00     |       |              |               |       |
| BST04   | 4         | 16               | 20                 | 0.80                         |                                   |                                 | 0.95     |       |              |               |       |
| BST04   | 5         | 17               | 20                 | 0.85                         |                                   |                                 | 0.95     |       |              |               |       |
| BST07   | 1         | 16               | 20                 | 0.80                         | 0.79                              | 0.16                            | 0.85     | 0.066 | 0.85         | 0.70          | NT    |
| BST07   | 2         | 17               | 20                 | 0.85                         |                                   |                                 | 0.90     |       |              |               |       |
| BST07   | 3         | 20               | 20                 | 1.00                         |                                   |                                 | 1.00     |       |              |               |       |
| BST07   | 4         | 15               | 20                 | 0.75                         |                                   |                                 | 0.95     |       |              |               |       |
| BST07   | 5         | 11               | 20                 | 0.55                         |                                   |                                 | 0.95     |       |              |               |       |
| DAC02   | 1         | 15               | 20                 | 0.75                         | 0.82                              | 0.08                            | 0.85     | 0.023 | 0.88         | 0.70          | NT    |
| DAC02   | 2         | 15               | 20                 | 0.75                         |                                   |                                 | 0.90     |       |              |               |       |
| DAC02   | 3         | 16               | 20                 | 0.80                         |                                   |                                 | 1.00     |       |              |               |       |
| DAC02   | 4         | 17               | 20                 | 0.85                         |                                   |                                 | 0.95     |       |              |               |       |
| DAC02   | 5         | 19               | 20                 | 0.95                         |                                   |                                 | 0.95     |       |              |               |       |
| DAC03   | 1         | 18               | 20                 | 0.90                         | 0.88                              | 0.08                            | 0.85     | 0.137 | 0.95         | 0.70          | NT    |
| DAC03   | 2         | 18               | 20                 | 0.90                         |                                   |                                 | 0.90     |       |              |               |       |
| DAC03   | 3         | 18               | 20                 | 0.90                         |                                   |                                 | 1.00     |       |              |               |       |
| DAC03   | 4         | 15               | 20                 | 0.75                         |                                   |                                 | 0.95     |       |              |               |       |
| DAC03   | 5         | 19               | 20                 | 0.95                         |                                   |                                 | 0.95     |       |              |               |       |
| DAC04   | 1         | 17               | 20                 | 0.85                         | 0.87                              | 0.12                            | 0.85     | 0.169 | 0.94         | 0.70          | NT    |
| DAC04   | 2         | 20               | 20                 | 1.00                         |                                   |                                 | 0.90     |       |              |               |       |
| DAC04   | 3         | 14               | 20                 | 0.70                         |                                   |                                 | 1.00     |       |              |               |       |
| DAC04   | 4         | 17               | 20                 | 0.85                         |                                   |                                 | 0.95     |       |              |               |       |
| DAC04   | 5         | 19               | 20                 | 0.95                         |                                   |                                 | 0.95     |       |              |               |       |
| SWZ01   | 1         | 13               | 20                 | 0.65                         | 0.76                              | 0.09                            | 0.85     | 0.005 | 0.82         | 0.70          | NT    |
| SWZ01   | 2         | 14               | 20                 | 0.70                         |                                   |                                 | 0.90     |       |              |               |       |
| SWZ01   | 3         | 17               | 20                 | 0.85                         |                                   |                                 | 1.00     |       |              |               |       |
| SWZ01   | 4         | 17               | 20                 | 0.85                         |                                   |                                 | 0.95     |       |              |               |       |
| SWZ01   | 5         | 15               | 20                 | 0.75                         |                                   |                                 | 0.95     |       |              |               |       |

**10-day *Eohaustorius* survival toxicity test in sediment October 29, 2004—Marine Pollution Studies Laboratory**

|       |   |    |    |      |      |      |      |       |      |      |    |
|-------|---|----|----|------|------|------|------|-------|------|------|----|
| SWZ02 | 1 | 18 | 20 | 0.90 | 0.80 | 0.08 | 0.85 | 0.010 | 0.86 | 0.70 | NT |
| SWZ02 | 2 | 16 | 20 | 0.80 |      |      | 0.90 |       |      |      |    |
| SWZ02 | 3 | 17 | 20 | 0.85 |      |      | 1.00 |       |      |      |    |
| SWZ02 | 4 | 14 | 20 | 0.70 |      |      | 0.95 |       |      |      |    |
| SWZ02 | 5 | 15 | 20 | 0.75 |      |      | 0.95 |       |      |      |    |
| SWZ04 | 1 | 18 | 20 | 0.90 | 0.84 | 0.08 | 0.85 | 0.042 | 0.90 | 0.70 | NT |
| SWZ04 | 2 | 14 | 20 | 0.70 |      |      | 0.90 |       |      |      |    |
| SWZ04 | 3 | 17 | 20 | 0.85 |      |      | 1.00 |       |      |      |    |
| SWZ04 | 4 | 18 | 20 | 0.90 |      |      | 0.95 |       |      |      |    |
| SWZ04 | 5 | 17 | 20 | 0.85 |      |      | 0.95 |       |      |      |    |
| 2229  | 1 | 18 | 20 | 0.90 | 0.84 | 0.08 | 0.85 | 0.042 | 0.90 | 0.70 | NT |
| 2229  | 2 | 18 | 20 | 0.90 |      |      | 0.90 |       |      |      |    |
| 2229  | 3 | 17 | 20 | 0.85 |      |      | 1.00 |       |      |      |    |
| 2229  | 4 | 17 | 20 | 0.85 |      |      | 0.95 |       |      |      |    |
| 2229  | 5 | 14 | 20 | 0.70 |      |      | 0.95 |       |      |      |    |
| 2238  | 1 | 19 | 20 | 0.95 | 0.88 | 0.07 | 0.85 | 0.120 | 0.95 | 0.70 | NT |
| 2238  | 2 | 16 | 20 | 0.80 |      |      | 0.90 |       |      |      |    |
| 2238  | 3 | 19 | 20 | 0.95 |      |      | 1.00 |       |      |      |    |
| 2238  | 4 | 17 | 20 | 0.85 |      |      | 0.95 |       |      |      |    |
| 2238  | 5 | 17 | 20 | 0.85 |      |      | 0.95 |       |      |      |    |
| 2243  | 1 | 15 | 20 | 0.75 | 0.63 | 0.25 | 0.85 | 0.026 | 0.68 | 0.70 | T  |
| 2243  | 2 | 5  | 20 | 0.25 |      |      | 0.90 |       |      |      |    |
| 2243  | 3 | 14 | 20 | 0.70 |      |      | 1.00 |       |      |      |    |
| 2243  | 4 | 18 | 20 | 0.90 |      |      | 0.95 |       |      |      |    |
| 2243  | 5 | 11 | 20 | 0.55 |      |      | 0.95 |       |      |      |    |
| 2433  | 1 | 20 | 20 | 1.00 | 0.95 | 0.04 | 0.85 | 0.264 | 1.02 | 0.70 | NT |
| 2433  | 2 | 19 | 20 | 0.95 |      |      | 0.90 |       |      |      |    |
| 2433  | 3 | 19 | 20 | 0.95 |      |      | 1.00 |       |      |      |    |
| 2433  | 4 | 18 | 20 | 0.90 |      |      | 0.95 |       |      |      |    |
| 2433  | 5 | 19 | 20 | 0.95 |      |      | 0.95 |       |      |      |    |
| 2441  | 1 | 18 | 20 | 0.90 | 0.93 | 0.06 | 0.85 | 0.500 | 1.00 | 0.70 | NT |
| 2441  | 2 | 17 | 20 | 0.85 |      |      | 0.90 |       |      |      |    |
| 2441  | 3 | 19 | 20 | 0.95 |      |      | 1.00 |       |      |      |    |
| 2441  | 4 | 20 | 20 | 1.00 |      |      | 0.95 |       |      |      |    |
| 2441  | 5 | 19 | 20 | 0.95 |      |      | 0.95 |       |      |      |    |
| HOME  | 2 | 18 | 20 | 0.90 |      |      |      |       |      |      |    |
| HOME  | 3 | 20 | 20 | 1.00 |      |      |      |       |      |      |    |
| HOME  | 4 | 19 | 20 | 0.95 |      |      |      |       |      |      |    |
| HOME  | 5 | 19 | 20 | 0.95 |      |      |      |       |      |      |    |
| HOME  | 2 | 18 | 20 | 0.90 |      |      |      |       |      |      |    |

**10-day *Eohaustorius* survival toxicity test in sediment October 29, 2004—Marine Pollution Studies Laboratory**

| Concentration | Replicate | Final #<br>Alive | Initial #<br>Alive | Proportion<br>Survival | Mean Survival | SD   |
|---------------|-----------|------------------|--------------------|------------------------|---------------|------|
| 0             | 1         | 20               | 20                 | 1.00                   | 1.00          | 0.00 |
| 0             | 2         | 20               | 20                 | 1.00                   |               |      |
| 0             | 3         | 20               | 20                 | 1.00                   |               |      |
| 100           | 1         | 19               | 20                 | 0.95                   | 0.95          | 0.05 |
| 100           | 2         | 20               | 20                 | 1.00                   |               |      |
| 100           | 3         | 18               | 20                 | 0.90                   |               |      |
| 180           | 1         | 17               | 20                 | 0.85                   | 0.90          | 0.05 |
| 180           | 2         | 18               | 20                 | 0.90                   |               |      |
| 180           | 3         | 19               | 20                 | 0.95                   |               |      |
| 320           | 1         | 16               | 20                 | 0.80                   | 0.80          | 0.10 |
| 320           | 2         | 14               | 20                 | 0.70                   |               |      |

**10-day *Eohaustorius* survival toxicity test in sediment October 29, 2004—Marine Pollution Studies Laboratory**

|      |   |    |    |      |      |      |
|------|---|----|----|------|------|------|
| 320  | 3 | 18 | 20 | 0.90 |      |      |
| 560  | 1 | 4  | 20 | 0.20 | 0.32 | 0.10 |
| 560  | 2 | 8  | 20 | 0.40 |      |      |
| 560  | 3 | 7  | 20 | 0.35 |      |      |
| 1000 | 1 | 0  | 20 | 0.00 | 0.00 | 0.00 |
| 1000 | 2 | 0  | 20 | 0.00 |      |      |
| 1000 | 3 | 0  | 20 | 0.00 |      |      |

| Concentration | pH   | Total Ammonia | Un-ionized Ammonia |
|---------------|------|---------------|--------------------|
| 0             | 7.9  | 0             | 0.000              |
| 100           | 7.89 | 72.8          | 1.170              |
| 180           | 7.53 | 136           | 0.963              |
| 320           | 7.43 | 263           | 1.481              |
| 560           | 7.32 | 532           | 2.328              |
| 1000          | 7.17 | 940           | 2.916              |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater October 27, 2004—Marine Pollution Studies Laboratory**

| Station | Dilution | Replicate | # Fertilized | # Unfertilized | Proportion Fertilized | Mean Fertilized | SD Fertilized | Control P | % Control | MSD Cutoff | Toxic |    |
|---------|----------|-----------|--------------|----------------|-----------------------|-----------------|---------------|-----------|-----------|------------|-------|----|
| BST01   | 25       | 1         | 98           | 2              | 0.98                  | 0.96            | 0.05          | 0.98      | 0.133     | 0.97       | 0.87  | NT |
| BST01   | 25       | 2         | 99           | 1              | 0.99                  |                 |               | 0.99      |           |            |       |    |
| BST01   | 25       | 3         | 88           | 12             | 0.88                  |                 |               | 1.00      |           |            |       |    |
| BST01   | 25       | 4         | 100          | 0              | 1.00                  |                 |               | 0.98      |           |            |       |    |
| BST01   | 25       | 5         | 96           | 4              | 0.96                  |                 |               | 1.00      |           |            |       |    |
| BST01   | 50       | 1         | 100          | 0              | 1.00                  | 0.97            | 0.03          | 0.98      | 0.078     | 0.98       | 0.87  | NT |
| BST01   | 50       | 2         | 99           | 1              | 0.99                  |                 |               | 0.99      |           |            |       |    |
| BST01   | 50       | 3         | 93           | 7              | 0.93                  |                 |               | 1.00      |           |            |       |    |
| BST01   | 50       | 4         | 96           | 4              | 0.96                  |                 |               | 0.98      |           |            |       |    |
| BST01   | 50       | 5         | 96           | 4              | 0.96                  |                 |               | 1.00      |           |            |       |    |
| BST01   | 100      | 1         | 98           | 2              | 0.98                  | 0.98            | 0.02          | 0.98      | 0.193     | 0.98       | 0.87  | NT |
| BST01   | 100      | 2         | 99           | 1              | 0.99                  |                 |               | 0.99      |           |            |       |    |
| BST01   | 100      | 3         | 99           | 1              | 0.99                  |                 |               | 1.00      |           |            |       |    |
| BST01   | 100      | 4         | 94           | 6              | 0.94                  |                 |               | 0.98      |           |            |       |    |
| BST01   | 100      | 5         | 96           | 4              | 0.96                  |                 |               | 1.00      |           |            |       |    |
| BST04   | 25       | 1         | 100          | 0              | 1.00                  | 0.99            | 0.01          | 0.98      | 0.370     | 1.00       | 0.87  | NT |
| BST04   | 25       | 2         | 99           | 1              | 0.99                  |                 |               | 0.99      |           |            |       |    |
| BST04   | 25       | 3         | 98           | 2              | 0.98                  |                 |               | 1.00      |           |            |       |    |
| BST04   | 25       | 4         | 98           | 2              | 0.98                  |                 |               | 0.98      |           |            |       |    |
| BST04   | 25       | 5         | 99           | 1              | 0.99                  |                 |               | 1.00      |           |            |       |    |
| BST04   | 50       | 1         | 100          | 0              | 1.00                  | 0.98            | 0.01          | 0.98      | 0.098     | 0.99       | 0.87  | NT |
| BST04   | 50       | 2         | 97           | 3              | 0.97                  |                 |               | 0.99      |           |            |       |    |
| BST04   | 50       | 3         | 98           | 2              | 0.98                  |                 |               | 1.00      |           |            |       |    |
| BST04   | 50       | 4         | 97           | 3              | 0.97                  |                 |               | 0.98      |           |            |       |    |
| BST04   | 50       | 5         | 98           | 2              | 0.98                  |                 |               | 1.00      |           |            |       |    |
| BST04   | 100      | 1         | 90           | 10             | 0.90                  | 0.95            | 0.06          | 0.98      | 0.081     | 0.96       | 0.87  | NT |
| BST04   | 100      | 2         | 98           | 2              | 0.98                  |                 |               | 0.99      |           |            |       |    |
| BST04   | 100      | 3         | 100          | 0              | 1.00                  |                 |               | 1.00      |           |            |       |    |
| BST04   | 100      | 4         | 98           | 2              | 0.98                  |                 |               | 0.98      |           |            |       |    |
| BST04   | 100      | 5         | 87           | 13             | 0.87                  |                 |               | 1.00      |           |            |       |    |
| BST07   | 25       | 1         | 98           | 2              | 0.98                  | 0.97            | 0.02          | 0.98      | 0.068     | 0.98       | 0.87  | NT |
| BST07   | 25       | 2         | 99           | 1              | 0.99                  |                 |               | 0.99      |           |            |       |    |
| BST07   | 25       | 3         | 94           | 6              | 0.94                  |                 |               | 1.00      |           |            |       |    |
| BST07   | 25       | 4         | 99           | 1              | 0.99                  |                 |               | 0.98      |           |            |       |    |
| BST07   | 25       | 5         | 98           | 5              | 0.95                  |                 |               | 1.00      |           |            |       |    |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater October 27, 2004—Marine Pollution Studies Laboratory**

|       |     |   |     |    |      |      |      |      |       |      |      |    |
|-------|-----|---|-----|----|------|------|------|------|-------|------|------|----|
| BST07 | 50  | 1 | 99  | 1  | 0.99 | 0.95 | 0.04 | 0.98 | 0.043 | 0.96 | 0.87 | NT |
| BST07 | 50  | 2 | 91  | 9  | 0.91 |      |      | 0.99 |       |      |      |    |
| BST07 | 50  | 3 | 99  | 1  | 0.99 |      |      | 1.00 |       |      |      |    |
| BST07 | 50  | 4 | 95  | 5  | 0.95 |      |      | 0.98 |       |      |      |    |
| BST07 | 50  | 5 | 93  | 7  | 0.93 |      |      | 1.00 |       |      |      |    |
| BST07 | 100 | 1 | 90  | 10 | 0.90 | 0.95 | 0.06 | 0.98 | 0.094 | 0.96 | 0.87 | NT |
| BST07 | 100 | 2 | 100 | 0  | 1.00 |      |      | 0.99 |       |      |      |    |
| BST07 | 100 | 3 | 87  | 13 | 0.87 |      |      | 1.00 |       |      |      |    |
| BST07 | 100 | 4 | 98  | 2  | 0.98 |      |      | 0.98 |       |      |      |    |
| BST07 | 100 | 5 | 99  | 1  | 0.99 |      |      | 1.00 |       |      |      |    |
| DAC02 | 25  | 1 | 100 | 4  | 0.96 | 0.98 | 0.02 | 0.98 | 0.167 | 0.99 | 0.87 | NT |
| DAC02 | 25  | 2 | 95  | 5  | 0.95 |      |      | 0.99 |       |      |      |    |
| DAC02 | 25  | 3 | 100 | 0  | 1.00 |      |      | 1.00 |       |      |      |    |
| DAC02 | 25  | 4 | 100 | 0  | 1.00 |      |      | 0.98 |       |      |      |    |
| DAC02 | 25  | 5 | 99  | 2  | 0.98 |      |      | 1.00 |       |      |      |    |
| DAC02 | 50  | 1 | 100 | 0  | 1.00 | 0.98 | 0.03 | 0.98 | 0.240 | 0.99 | 0.87 | NT |
| DAC02 | 50  | 2 | 100 | 0  | 1.00 |      |      | 0.99 |       |      |      |    |
| DAC02 | 50  | 3 | 99  | 1  | 0.99 |      |      | 1.00 |       |      |      |    |
| DAC02 | 50  | 4 | 98  | 2  | 0.98 |      |      | 0.98 |       |      |      |    |
| DAC02 | 50  | 5 | 92  | 8  | 0.92 |      |      | 1.00 |       |      |      |    |
| DAC02 | 100 | 1 | 100 | 0  | 1.00 | 0.92 | 0.07 | 0.98 | 0.045 | 0.93 | 0.87 | NT |
| DAC02 | 100 | 2 | 87  | 3  | 0.97 |      |      | 0.99 |       |      |      |    |
| DAC02 | 100 | 3 | 96  | 10 | 0.91 |      |      | 1.00 |       |      |      |    |
| DAC02 | 100 | 4 | 106 | 11 | 0.91 |      |      | 0.98 |       |      |      |    |
| DAC02 | 100 | 5 | 81  | 19 | 0.81 |      |      | 1.00 |       |      |      |    |
| DAC03 | 25  | 1 | 98  | 2  | 0.98 | 0.97 | 0.02 | 0.98 | 0.073 | 0.98 | 0.87 | NT |
| DAC03 | 25  | 2 | 94  | 6  | 0.94 |      |      | 0.99 |       |      |      |    |
| DAC03 | 25  | 3 | 97  | 3  | 0.97 |      |      | 1.00 |       |      |      |    |
| DAC03 | 25  | 4 | 100 | 0  | 1.00 |      |      | 0.98 |       |      |      |    |
| DAC03 | 25  | 5 | 97  | 3  | 0.97 |      |      | 1.00 |       |      |      |    |
| DAC03 | 50  | 1 | 100 | 0  | 1.00 | 0.96 | 0.04 | 0.98 | 0.079 | 0.97 | 0.87 | NT |
| DAC03 | 50  | 2 | 92  | 8  | 0.92 |      |      | 0.99 |       |      |      |    |
| DAC03 | 50  | 3 | 101 | 7  | 0.94 |      |      | 1.00 |       |      |      |    |
| DAC03 | 50  | 4 | 95  | 5  | 0.95 |      |      | 0.98 |       |      |      |    |
| DAC03 | 50  | 5 | 101 | 0  | 1.00 |      |      | 1.00 |       |      |      |    |
| DAC03 | 100 | 1 | 94  | 6  | 0.94 | 0.91 | 0.05 | 0.98 | 0.013 | 0.92 | 0.87 | NT |
| DAC03 | 100 | 2 | 83  | 17 | 0.83 |      |      | 0.99 |       |      |      |    |
| DAC03 | 100 | 3 | 97  | 3  | 0.97 |      |      | 1.00 |       |      |      |    |
| DAC03 | 100 | 4 | 91  | 9  | 0.91 |      |      | 0.98 |       |      |      |    |
| DAC03 | 100 | 5 | 90  | 10 | 0.90 |      |      | 1.00 |       |      |      |    |
| DAC04 | 25  | 1 | 98  | 2  | 0.98 | 0.98 | 0.02 | 0.98 | 0.117 | 0.99 | 0.87 | NT |
| DAC04 | 25  | 2 | 98  | 2  | 0.98 |      |      | 0.99 |       |      |      |    |
| DAC04 | 25  | 3 | 100 | 0  | 1.00 |      |      | 1.00 |       |      |      |    |
| DAC04 | 25  | 4 | 102 | 5  | 0.95 |      |      | 0.98 |       |      |      |    |
| DAC04 | 25  | 5 | 98  | 2  | 0.98 |      |      | 1.00 |       |      |      |    |
| DAC04 | 50  | 1 | 97  | 3  | 0.97 | 0.98 | 0.02 | 0.98 | 0.064 | 0.99 | 0.87 | NT |
| DAC04 | 50  | 2 | 96  | 4  | 0.96 |      |      | 0.99 |       |      |      |    |
| DAC04 | 50  | 3 | 100 | 0  | 1.00 |      |      | 1.00 |       |      |      |    |
| DAC04 | 50  | 4 | 98  | 2  | 0.98 |      |      | 0.98 |       |      |      |    |
| DAC04 | 50  | 5 | 97  | 3  | 0.97 |      |      | 1.00 |       |      |      |    |
| DAC04 | 100 | 1 | 98  | 2  | 0.98 | 0.97 | 0.03 | 0.98 | 0.095 | 0.98 | 0.87 | NT |
| DAC04 | 100 | 2 | 94  | 6  | 0.94 |      |      | 0.99 |       |      |      |    |
| DAC04 | 100 | 3 | 93  | 7  | 0.93 |      |      | 1.00 |       |      |      |    |
| DAC04 | 100 | 4 | 91  | 1  | 0.99 |      |      | 0.98 |       |      |      |    |
| DAC04 | 100 | 5 | 100 | 0  | 1.00 |      |      | 1.00 |       |      |      |    |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater October 27, 2004—Marine Pollution Studies Laboratory**

|       |     |   |     |    |      |      |      |      |       |      |      |    |
|-------|-----|---|-----|----|------|------|------|------|-------|------|------|----|
| SWZ01 | 25  | 1 | 100 | 0  | 1.00 | 0.93 | 0.04 | 0.98 | 0.015 | 0.94 | 0.87 | NT |
| SWZ01 | 25  | 2 | 92  | 8  | 0.92 |      |      | 0.99 |       |      |      |    |
| SWZ01 | 25  | 3 | 92  | 8  | 0.92 |      |      | 1.00 |       |      |      |    |
| SWZ01 | 25  | 4 | 91  | 9  | 0.91 |      |      | 0.98 |       |      |      |    |
| SWZ01 | 25  | 5 | 88  | 12 | 0.88 |      |      | 1.00 |       |      |      |    |
| SWZ01 | 50  | 1 | 99  | 1  | 0.99 | 0.99 | 0.01 | 0.98 | 0.500 | 1.00 | 0.87 | NT |
| SWZ01 | 50  | 2 | 100 | 0  | 1.00 |      |      | 0.99 |       |      |      |    |
| SWZ01 | 50  | 3 | 99  | 1  | 0.99 |      |      | 1.00 |       |      |      |    |
| SWZ01 | 50  | 4 | 99  | 1  | 0.99 |      |      | 0.98 |       |      |      |    |
| SWZ01 | 50  | 5 | 98  | 2  | 0.98 |      |      | 1.00 |       |      |      |    |
| SWZ01 | 100 | 1 | 96  | 4  | 0.96 | 0.95 | 0.02 | 0.98 | 0.004 | 0.96 | 0.87 | NT |
| SWZ01 | 100 | 2 | 94  | 6  | 0.94 |      |      | 0.99 |       |      |      |    |
| SWZ01 | 100 | 3 | 97  | 3  | 0.97 |      |      | 1.00 |       |      |      |    |
| SWZ01 | 100 | 4 | 97  | 3  | 0.97 |      |      | 0.98 |       |      |      |    |
| SWZ01 | 100 | 5 | 93  | 7  | 0.93 |      |      | 1.00 |       |      |      |    |
| SWZ02 | 25  | 1 | 100 | 0  | 1.00 | 0.96 | 0.04 | 0.98 | 0.145 | 0.97 | 0.87 | NT |
| SWZ02 | 25  | 2 | 97  | 3  | 0.97 |      |      | 0.99 |       |      |      |    |
| SWZ02 | 25  | 3 | 90  | 10 | 0.90 |      |      | 1.00 |       |      |      |    |
| SWZ02 | 25  | 4 | 97  | 3  | 0.97 |      |      | 0.98 |       |      |      |    |
| SWZ02 | 25  | 5 | 98  | 2  | 0.98 |      |      | 1.00 |       |      |      |    |
| SWZ02 | 50  | 1 | 100 | 0  | 1.00 | 0.97 | 0.04 | 0.98 | 0.145 | 0.98 | 0.87 | NT |
| SWZ02 | 50  | 2 | 92  | 8  | 0.92 |      |      | 0.99 |       |      |      |    |
| SWZ02 | 50  | 3 | 99  | 1  | 0.99 |      |      | 1.00 |       |      |      |    |
| SWZ02 | 50  | 4 | 100 | 0  | 1.00 |      |      | 0.98 |       |      |      |    |
| SWZ02 | 50  | 5 | 94  | 7  | 0.93 |      |      | 1.00 |       |      |      |    |
| SWZ02 | 100 | 1 | 100 | 0  | 1.00 | 0.97 | 0.03 | 0.98 | 0.152 | 0.98 | 0.87 | NT |
| SWZ02 | 100 | 2 | 96  | 4  | 0.96 |      |      | 0.99 |       |      |      |    |
| SWZ02 | 100 | 3 | 100 | 0  | 1.00 |      |      | 1.00 |       |      |      |    |
| SWZ02 | 100 | 4 | 98  | 2  | 0.98 |      |      | 0.98 |       |      |      |    |
| SWZ02 | 100 | 5 | 92  | 8  | 0.92 |      |      | 1.00 |       |      |      |    |
| SWZ04 | 25  | 1 | 99  | 1  | 0.99 | 0.98 | 0.02 | 0.98 | 0.281 | 0.99 | 0.87 | NT |
| SWZ04 | 25  | 2 | 99  | 1  | 0.99 |      |      | 0.99 |       |      |      |    |
| SWZ04 | 25  | 3 | 95  | 5  | 0.95 |      |      | 1.00 |       |      |      |    |
| SWZ04 | 25  | 4 | 100 | 0  | 1.00 |      |      | 0.98 |       |      |      |    |
| SWZ04 | 25  | 5 | 99  | 1  | 0.99 |      |      | 1.00 |       |      |      |    |
| SWZ04 | 50  | 1 | 98  | 2  | 0.98 | 0.96 | 0.04 | 0.98 | 0.095 | 0.97 | 0.87 | NT |
| SWZ04 | 50  | 2 | 99  | 1  | 0.99 |      |      | 0.99 |       |      |      |    |
| SWZ04 | 50  | 3 | 98  | 2  | 0.98 |      |      | 1.00 |       |      |      |    |
| SWZ04 | 50  | 4 | 97  | 3  | 0.97 |      |      | 0.98 |       |      |      |    |
| SWZ04 | 50  | 5 | 90  | 10 | 0.90 |      |      | 1.00 |       |      |      |    |
| SWZ04 | 100 | 1 | 100 | 0  | 1.00 | 0.97 | 0.03 | 0.98 | 0.174 | 0.98 | 0.87 | NT |
| SWZ04 | 100 | 2 | 100 | 0  | 1.00 |      |      | 0.99 |       |      |      |    |
| SWZ04 | 100 | 3 | 97  | 3  | 0.97 |      |      | 1.00 |       |      |      |    |
| SWZ04 | 100 | 4 | 92  | 8  | 0.92 |      |      | 0.98 |       |      |      |    |
| SWZ04 | 100 | 5 | 98  | 2  | 0.98 |      |      | 1.00 |       |      |      |    |
| 2229  | 25  | 1 | 100 | 0  | 1.00 | 0.98 | 0.03 | 0.98 | 0.198 | 0.99 | 0.87 | NT |
| 2229  | 25  | 2 | 99  | 1  | 0.99 |      |      | 0.99 |       |      |      |    |
| 2229  | 25  | 3 | 99  | 1  | 0.99 |      |      | 1.00 |       |      |      |    |
| 2229  | 25  | 4 | 98  | 2  | 0.98 |      |      | 0.98 |       |      |      |    |
| 2229  | 25  | 5 | 92  | 8  | 0.92 |      |      | 1.00 |       |      |      |    |
| 2229  | 50  | 1 | 99  | 1  | 0.99 | 0.96 | 0.04 | 0.98 | 0.104 | 0.97 | 0.87 | NT |
| 2229  | 50  | 2 | 90  | 10 | 0.90 |      |      | 0.99 |       |      |      |    |
| 2229  | 50  | 3 | 99  | 1  | 0.99 |      |      | 1.00 |       |      |      |    |
| 2229  | 50  | 4 | 106 | 2  | 0.98 |      |      | 0.98 |       |      |      |    |
| 2229  | 50  | 5 | 96  | 4  | 0.96 |      |      | 1.00 |       |      |      |    |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater October 27, 2004—Marine Pollution Studies Laboratory**

|      |     |   |     |    |      |      |      |      |       |      |      |    |
|------|-----|---|-----|----|------|------|------|------|-------|------|------|----|
| 2229 | 100 | 1 | 100 | 0  | 1.00 | 0.99 | 0.01 | 0.98 | 0.500 | 1.00 | 0.87 | NT |
| 2229 | 100 | 2 | 97  | 3  | 0.97 |      |      | 0.99 |       |      |      |    |
| 2229 | 100 | 3 | 100 | 0  | 1.00 |      |      | 1.00 |       |      |      |    |
| 2229 | 100 | 4 | 98  | 2  | 0.98 |      |      | 0.98 |       |      |      |    |
| 2229 | 100 | 5 | 100 | 0  | 1.00 |      |      | 1.00 |       |      |      |    |
| 2238 | 25  | 1 | 99  | 1  | 0.99 | 0.95 | 0.05 | 0.98 | 0.078 | 0.96 | 0.87 | NT |
| 2238 | 25  | 2 | 103 | 0  | 1.00 |      |      | 0.99 |       |      |      |    |
| 2238 | 25  | 3 | 97  | 3  | 0.97 |      |      | 1.00 |       |      |      |    |
| 2238 | 25  | 4 | 90  | 10 | 0.90 |      |      | 0.98 |       |      |      |    |
| 2238 | 25  | 5 | 90  | 10 | 0.90 |      |      | 1.00 |       |      |      |    |
| 2238 | 50  | 1 | 96  | 4  | 0.96 | 0.94 | 0.04 | 0.98 | 0.035 | 0.95 | 0.87 | NT |
| 2238 | 50  | 2 | 98  | 2  | 0.98 |      |      | 0.99 |       |      |      |    |
| 2238 | 50  | 3 | 90  | 10 | 0.90 |      |      | 1.00 |       |      |      |    |
| 2238 | 50  | 4 | 89  | 11 | 0.89 |      |      | 0.98 |       |      |      |    |
| 2238 | 50  | 5 | 98  | 2  | 0.98 |      |      | 1.00 |       |      |      |    |
| 2238 | 100 | 1 | 100 | 0  | 1.00 | 0.98 | 0.02 | 0.98 | 0.090 | 0.99 | 0.87 | NT |
| 2238 | 100 | 2 | 98  | 2  | 0.98 |      |      | 0.99 |       |      |      |    |
| 2238 | 100 | 3 | 98  | 2  | 0.98 |      |      | 1.00 |       |      |      |    |
| 2238 | 100 | 4 | 97  | 3  | 0.97 |      |      | 0.98 |       |      |      |    |
| 2238 | 100 | 5 | 95  | 5  | 0.95 |      |      | 1.00 |       |      |      |    |
| 2243 | 25  | 1 | 100 | 0  | 1.00 | 0.94 | 0.08 | 0.98 | 0.108 | 0.95 | 0.87 | NT |
| 2243 | 25  | 2 | 99  | 1  | 0.99 |      |      | 0.99 |       |      |      |    |
| 2243 | 25  | 3 | 98  | 2  | 0.98 |      |      | 1.00 |       |      |      |    |
| 2243 | 25  | 4 | 82  | 18 | 0.82 |      |      | 0.98 |       |      |      |    |
| 2243 | 25  | 5 | 91  | 9  | 0.91 |      |      | 1.00 |       |      |      |    |
| 2243 | 50  | 1 | 100 | 0  | 1.00 | 0.99 | 0.02 | 0.98 | 0.427 | 1.00 | 0.87 | NT |
| 2243 | 50  | 2 | 100 | 0  | 1.00 |      |      | 0.99 |       |      |      |    |
| 2243 | 50  | 3 | 104 | 3  | 0.97 |      |      | 1.00 |       |      |      |    |
| 2243 | 50  | 4 | 100 | 0  | 1.00 |      |      | 0.98 |       |      |      |    |
| 2243 | 50  | 5 | 97  | 3  | 0.97 |      |      | 1.00 |       |      |      |    |
| 2243 | 100 | 1 | 96  | 4  | 0.96 | 0.97 | 0.01 | 0.98 | 0.008 | 0.98 | 0.87 | NT |
| 2243 | 100 | 2 | 98  | 2  | 0.98 |      |      | 0.99 |       |      |      |    |
| 2243 | 100 | 3 | 97  | 3  | 0.97 |      |      | 1.00 |       |      |      |    |
| 2243 | 100 | 4 | 97  | 3  | 0.97 |      |      | 0.98 |       |      |      |    |
| 2243 | 100 | 5 | 98  | 2  | 0.98 |      |      | 1.00 |       |      |      |    |
| 2433 | 25  | 1 | 100 | 0  | 1.00 | 0.97 | 0.04 | 0.98 | 0.223 | 0.98 | 0.87 | NT |
| 2433 | 25  | 2 | 99  | 1  | 0.99 |      |      | 0.99 |       |      |      |    |
| 2433 | 25  | 3 | 90  | 10 | 0.90 |      |      | 1.00 |       |      |      |    |
| 2433 | 25  | 4 | 99  | 1  | 0.99 |      |      | 0.98 |       |      |      |    |
| 2433 | 25  | 5 | 99  | 1  | 0.99 |      |      | 1.00 |       |      |      |    |
| 2433 | 50  | 1 | 99  | 1  | 0.99 | 0.98 | 0.02 | 0.98 | 0.166 | 0.99 | 0.87 | NT |
| 2433 | 50  | 2 | 98  | 2  | 0.98 |      |      | 0.99 |       |      |      |    |
| 2433 | 50  | 3 | 95  | 5  | 0.95 |      |      | 1.00 |       |      |      |    |
| 2433 | 50  | 4 | 98  | 2  | 0.98 |      |      | 0.98 |       |      |      |    |
| 2433 | 50  | 5 | 100 | 0  | 1.00 |      |      | 1.00 |       |      |      |    |
| 2433 | 100 | 1 | 100 | 0  | 1.00 | 0.97 | 0.03 | 0.98 | 0.109 | 0.98 | 0.87 | NT |
| 2433 | 100 | 2 | 100 | 0  | 1.00 |      |      | 0.99 |       |      |      |    |
| 2433 | 100 | 3 | 96  | 4  | 0.96 |      |      | 1.00 |       |      |      |    |
| 2433 | 100 | 4 | 94  | 6  | 0.94 |      |      | 0.98 |       |      |      |    |
| 2433 | 100 | 5 | 96  | 4  | 0.96 |      |      | 1.00 |       |      |      |    |
| 2441 | 25  | 1 | 91  | 9  | 0.91 | 0.95 | 0.03 | 0.98 | 0.023 | 0.96 | 0.87 | NT |
| 2441 | 25  | 2 | 96  | 4  | 0.96 |      |      | 0.99 |       |      |      |    |
| 2441 | 25  | 3 | 95  | 5  | 0.95 |      |      | 1.00 |       |      |      |    |
| 2441 | 25  | 4 | 99  | 1  | 0.99 |      |      | 0.98 |       |      |      |    |
| 2441 | 25  | 5 | 96  | 4  | 0.96 |      |      | 1.00 |       |      |      |    |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater October 27, 2004—Marine Pollution Studies Laboratory**

|         |     |   |     |   |      |      |      |      |       |      |      |    |
|---------|-----|---|-----|---|------|------|------|------|-------|------|------|----|
| 2441    | 50  | 1 | 93  | 7 | 0.93 | 0.96 | 0.02 | 0.98 | 0.028 | 0.97 | 0.87 | NT |
| 2441    | 50  | 2 | 96  | 4 | 0.96 |      |      | 0.99 |       |      |      |    |
| 2441    | 50  | 3 | 98  | 2 | 0.98 |      |      | 1.00 |       |      |      |    |
| 2441    | 50  | 4 | 99  | 1 | 0.99 |      |      | 0.98 |       |      |      |    |
| 2441    | 50  | 5 | 101 | 6 | 0.94 |      |      | 1.00 |       |      |      |    |
| 2441    | 100 | 1 | 100 | 0 | 1.00 | 0.99 | 0.02 | 0.98 | 0.331 | 1.00 | 0.87 | NT |
| 2441    | 100 | 2 | 96  | 4 | 0.96 |      |      | 0.99 |       |      |      |    |
| 2441    | 100 | 3 | 99  | 1 | 0.99 |      |      | 1.00 |       |      |      |    |
| 2441    | 100 | 4 | 100 | 0 | 1.00 |      |      | 0.98 |       |      |      |    |
| 2441    | 100 | 5 | 98  | 2 | 0.98 |      |      | 1.00 |       |      |      |    |
| CONTROL | 100 | 3 | 100 | 0 | 1.00 |      |      |      |       |      |      |    |
| CONTROL | 100 | 4 | 98  | 2 | 0.98 |      |      |      |       |      |      |    |
| CONTROL | 100 | 5 | 100 | 0 | 1.00 |      |      |      |       |      |      |    |
| CONTROL | 100 | 3 | 100 | 0 | 1.00 |      |      |      |       |      |      |    |
| CONTROL | 100 | 4 | 98  | 2 | 0.98 |      |      |      |       |      |      |    |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater October 27, 2004—Marine Pollution Studies Laboratory**

| Concentration | Replicate | Fertilized                                               | Unfertilized | Proportion Fertilized | Mean Fertilized | SD Fertilized |
|---------------|-----------|----------------------------------------------------------|--------------|-----------------------|-----------------|---------------|
| 0             | 1         | Test failed due to improperly prepared ammonia dilutions |              |                       |                 |               |
| 0             | 2         |                                                          |              |                       |                 |               |
| 0             | 3         |                                                          |              |                       |                 |               |
| 0             | 4         |                                                          |              |                       |                 |               |
| 0             | 5         |                                                          |              |                       |                 |               |
| 18            | 1         |                                                          |              |                       |                 |               |
| 18            | 2         |                                                          |              |                       |                 |               |
| 18            | 3         |                                                          |              |                       |                 |               |
| 18            | 4         |                                                          |              |                       |                 |               |
| 18            | 5         |                                                          |              |                       |                 |               |
| 32            | 1         |                                                          |              |                       |                 |               |
| 32            | 2         |                                                          |              |                       |                 |               |
| 32            | 3         |                                                          |              |                       |                 |               |
| 32            | 4         |                                                          |              |                       |                 |               |
| 32            | 5         |                                                          |              |                       |                 |               |
| 56            | 1         |                                                          |              |                       |                 |               |
| 56            | 2         |                                                          |              |                       |                 |               |
| 56            | 3         |                                                          |              |                       |                 |               |
| 56            | 4         |                                                          |              |                       |                 |               |
| 56            | 5         |                                                          |              |                       |                 |               |
| 100           | 1         |                                                          |              |                       |                 |               |
| 100           | 2         |                                                          |              |                       |                 |               |
| 100           | 3         |                                                          |              |                       |                 |               |
| 100           | 4         |                                                          |              |                       |                 |               |
| 100           | 5         |                                                          |              |                       |                 |               |
| 180           | 1         |                                                          |              |                       |                 |               |
| 180           | 2         |                                                          |              |                       |                 |               |
| 180           | 3         |                                                          |              |                       |                 |               |
| 180           | 4         |                                                          |              |                       |                 |               |
| 180           | 5         |                                                          |              |                       |                 |               |

| Concentration | pH | Total Ammonia | Un-ionized Ammonia |
|---------------|----|---------------|--------------------|
| 0             |    |               | 0.000              |
| 18            |    |               | 0.000              |
| 32            |    |               | 0.000              |

***Strongylocentrotus purpuratus* (purple urchin) fertilization toxicity test in porewater  
October 27, 2004—Marine Pollution Studies Laboratory**

|     |       |
|-----|-------|
| 56  | 0.000 |
| 100 | 0.000 |
| 180 | 0.000 |

## Appendix E. Tissue chemistry

### Tissue chemistry data March 02, 2004—Metals results summary (all results in µg/dry g)—CRG Marine Laboratories, Inc.

| Analyte    | MDL   | TO-1   | TO-2  | TO-3       |            |       |       |       |
|------------|-------|--------|-------|------------|------------|-------|-------|-------|
| Aluminum   | 1     | 369    | 295   | 354        |            |       |       |       |
| Antimony   | 0.05  | 0.22   | 0.15  | 0.23       |            |       |       |       |
| Arsenic    | 0.05  | 26.7   | 28.0  | 21.6       |            |       |       |       |
| Barium     | 0.05  | 4.32   | 2.51  | 2.86       |            |       |       |       |
| Beryllium  | 0.01  | ND     | ND    | ND         |            |       |       |       |
| Cadmium    | 0.01  | 0.44   | 0.37  | 0.54       |            |       |       |       |
| Chromium   | 0.05  | 6.00   | 3.91  | 5.94       |            |       |       |       |
| Cobalt     | 0.01  | 2.12   | 1.55  | 2          |            |       |       |       |
| Copper     | 0.01  | 10.8   | 11.1  | 11.1       |            |       |       |       |
| Iron       | 1     | 864    | 652   | 709        |            |       |       |       |
| Lead       | 0.01  | 1.02   | 0.66  | 1.00       |            |       |       |       |
| Manganese  | 0.05  | 7.69   | 6.41  | 7.02       |            |       |       |       |
| Mercury    | 0.005 | ND     | ND    | ND         |            |       |       |       |
| Molybdenum | 0.05  | 4.25   | 3.76  | 4.16       |            |       |       |       |
| Nickel     | 0.01  | 10.2   | 3.39  | 4.39       |            |       |       |       |
| Selenium   | 0.05  | 4.17   | 3.68  | 3.62       |            |       |       |       |
| Silver     | 0.01  | 0.66   | 0.66  | 0.69       |            |       |       |       |
| Strontium  | 0.05  | 110    | 91.40 | 94.10      |            |       |       |       |
| Thallium   | 0.01  | ND     | ND    | ND         |            |       |       |       |
| Tin        | 0.05  | 0.81   | 0.66  | 0.77       |            |       |       |       |
| Titanium   | 0.05  | 147    | 28.8  | 41.4       |            |       |       |       |
| Vanadium   | 0.05  | 2.78   | 2.28  | 2.70       |            |       |       |       |
| Zinc       | 0.05  | 123    | 122   | 130        |            |       |       |       |
| Analyte    | MDL   | BST04  | BST07 | DAC02 (R1) | DAC02 (R2) | DAC03 | SWZ01 | SWZ04 |
| Aluminum   | 1     | 2200   | 1350  | 2240       | 1330       | 1450  | 1490  | 1420  |
| Antimony   | 0.05  | 0.26   | 0.26  | 0.27       | 0.27       | 0.27  | 0.33  | 0.30  |
| Arsenic    | 0.05  | 26.10  | 26.90 | 30.30      | 29.60      | 27.50 | 24.40 | 23.20 |
| Barium     | 0.05  | 8.94   | 5.67  | 8.17       | 5.51       | 6.47  | 7.81  | 6.48  |
| Beryllium  | 0.01  | ND     | ND    | ND         | ND         | ND    | ND    | ND    |
| Cadmium    | 0.01  | 1.12   | 0.60  | 0.62       | 0.53       | 0.45  | 0.50  | 0.61  |
| Chromium   | 0.05  | 7.31   | 4.90  | 8.08       | 6.13       | 7.91  | 4.99  | 5.34  |
| Cobalt     | 0.01  | 2.49   | 1.98  | 2.31       | 2.04       | 2.52  | 2.08  | 2.21  |
| Copper     | 0.01  | 18.90  | 18.30 | 21.80      | 19.50      | 17.30 | 22.40 | 21.60 |
| Iron       | 1     | 2770   | 1690  | 2840       | 1770       | 1870  | 1740  | 1720  |
| Lead       | 0.01  | 7.31   | 4.13  | 8.08       | 5.68       | 7.28  | 6.65  | 7.85  |
| Manganese  | 0.05  | 15.40  | 10.90 | 14.10      | 9.41       | 10.80 | 10.80 | 11.30 |
| Mercury    | 0.005 | ND     | ND    | ND         | ND         | ND    | ND    | ND    |
| Molybdenum | 0.05  | 3.96   | 4.47  | 4.09       | 4.17       | 4.31  | 4.49  | 3.66  |
| Nickel     | 0.01  | 4.56   | 3.35  | 4.09       | 3.73       | 5.57  | 3.74  | 4.50  |
| Selenium   | 0.05  | 4.13   | 4.04  | 3.73       | 4.00       | 4.13  | 3.74  | 3.66  |
| Silver     | 0.01  | 1.03   | 0.86  | 0.80       | 0.89       | 0.90  | 1.16  | 0.91  |
| Strontium  | 0.05  | 107    | 93    | 101        | 101        | 101   | 96    | 98    |
| Thallium   | 0.01  | ND     | ND    | ND         | ND         | ND    | ND    | ND    |
| Tin        | 0.05  | 1.38   | 0.77  | 1.07       | 0.80       | 0.90  | 0.83  | 1.14  |
| Titanium   | 0.05  | 134.00 | 81.60 | 129.00     | 71.00      | 76.30 | 93.90 | 87.70 |
| Vanadium   | 0.05  | 5.50   | 4.13  | 5.42       | 4.17       | 4.40  | 4.74  | 4.19  |
| Zinc       | 0.05  | 230    | 181   | 189        | 170        | 173   | 178   | 201   |
| Analyte    | MDL   | 2229   | 2238  | 2243       | 2433       | 2441  |       |       |
| Aluminum   | 1     | 1270   | 1460  | 1030       | 1850       | 789   |       |       |
| Antimony   | 0.05  | 0.17   | 0.26  | 0.18       | 0.17       | 0.27  |       |       |
| Arsenic    | 0.05  | 24.70  | 25.00 | 27.10      | 24.50      | 27.40 |       |       |
| Barium     | 0.05  | 6.01   | 4.72  | 3.80       | 6.75       | 5.04  |       |       |
| Beryllium  | 0.01  | ND     | ND    | ND         | ND         | ND    |       |       |
| Cadmium    | 0.01  | 0.42   | 0.60  | 0.36       | 0.43       | 1.33  |       |       |
| Chromium   | 0.05  | 4.48   | 4.46  | 4.44       | 4.87       | 3.89  |       |       |
| Cobalt     | 0.01  | 2.20   | 2.49  | 1.81       | 1.88       | 2.12  |       |       |
| Copper     | 0.01  | 23.60  | 18.80 | 16.30      | 17.00      | 11.10 |       |       |
| Iron       | 1     | 1560   | 1630  | 1420       | 1960       | 1450  |       |       |

**Tissue chemistry data March 02, 2004—Metals results summary (all results in µg/dry g)—CRG Marine Laboratories, Inc.**

|            |       |       |       |       |        |       |
|------------|-------|-------|-------|-------|--------|-------|
| Lead       | 0.01  | 3.47  | 2.23  | 2.63  | 2.65   | 2.21  |
| Manganese  | 0.05  | 13.50 | 16.30 | 9.69  | 15.70  | 7.16  |
| Mercury    | 0.005 | ND    | ND    | ND    | ND     | ND    |
| Molybdenum | 0.05  | 3.89  | 3.69  | 4.08  | 3.84   | 4.15  |
| Nickel     | 0.01  | 3.55  | 3.86  | 3.89  | 4.01   | 3.62  |
| Selenium   | 0.05  | 3.47  | 3.69  | 3.53  | 3.25   | 4.15  |
| Silver     | 0.01  | 1.10  | 0.86  | 1.00  | 0.77   | 0.80  |
| Strontium  | 0.05  | 112.0 | 108.0 | 88.3  | 95.6   | 104.0 |
| Thallium   | 0.01  | ND    | ND    | ND    | ND     | ND    |
| Tin        | 0.05  | 0.51  | 0.60  | 0.54  | 0.77   | 0.44  |
| Titanium   | 0.05  | 86.30 | 85.20 | 58.60 | 119.00 | 52.70 |
| Vanadium   | 0.05  | 3.89  | 4.55  | 3.53  | 4.78   | 3.45  |
| Zinc       | 0.05  | 176   | 193   | 142   | 141    | 182   |

**Tissue chemistry data March 02, 2004—Pesticides results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

| Laboratories, Inc.    |     |       |       |       |            |            |            |            |
|-----------------------|-----|-------|-------|-------|------------|------------|------------|------------|
| Analyte               | MDL | TO-1  | TO-2  | TO-3  |            |            |            |            |
| 2,4'-DDD              | 1   | ND    | ND    | ND    |            |            |            |            |
| 2,4'-DDE              | 1   | ND    | ND    | ND    |            |            |            |            |
| 2,4'-DDT              | 1   | ND    | ND    | ND    |            |            |            |            |
| 4,4'-DDD              | 1   | ND    | ND    | ND    |            |            |            |            |
| 4,4'-DDE              | 1   | ND    | ND    | ND    |            |            |            |            |
| 4,4'-DDT              | 1   | ND    | ND    | ND    |            |            |            |            |
| Aldrin                | 1   | ND    | ND    | ND    |            |            |            |            |
| BHC-alpha             | 1   | ND    | ND    | ND    |            |            |            |            |
| BHC-beta              | 1   | ND    | ND    | ND    |            |            |            |            |
| BHC-delta             | 1   | ND    | ND    | ND    |            |            |            |            |
| BHC-gamma             | 1   | ND    | ND    | ND    |            |            |            |            |
| Chlordane-alpha       | 1   | ND    | ND    | ND    |            |            |            |            |
| Chlordane-gamma       | 1   | ND    | ND    | ND    |            |            |            |            |
| DCPA (Dacthal)        | 1   | ND    | ND    | ND    |            |            |            |            |
| Dieldrin              | 1   | ND    | ND    | ND    |            |            |            |            |
| Endosulfan Sulfate    | 1   | ND    | ND    | ND    |            |            |            |            |
| Endosulfan-I          | 1   | ND    | ND    | ND    |            |            |            |            |
| Endosulfan-II         | 1   | ND    | ND    | ND    |            |            |            |            |
| Endrin                | 1   | ND    | ND    | ND    |            |            |            |            |
| Endrin Aldehyde       | 1   | ND    | ND    | ND    |            |            |            |            |
| Endrin Ketone         | 1   | ND    | ND    | ND    |            |            |            |            |
| Heptachlor            | 1   | ND    | ND    | ND    |            |            |            |            |
| Heptachlor Epoxide    | 1   | ND    | ND    | ND    |            |            |            |            |
| Methoxychlor          | 1   | ND    | ND    | ND    |            |            |            |            |
| Mirex                 | 1   | ND    | ND    | ND    |            |            |            |            |
| Total Detectable DDTs | 1   | 0     | 0     | 0     |            |            |            |            |
| Toxaphene             | 10  | ND    | ND    | ND    |            |            |            |            |
| trans-Nonachlor       | 1   | ND    | ND    | ND    |            |            |            |            |
| Analyte               | MDL | BST04 | BST07 | DAC02 | DAC03 (R1) | DAC03 (R2) | SWZ01 (R1) | SWZ04 (R1) |
| 2,4'-DDD              | 1   | ND    | ND    | ND    | ND         | ND         | ND         | ND         |
| 2,4'-DDE              | 1   | ND    | ND    | ND    | ND         | ND         | ND         | ND         |
| 2,4'-DDT              | 1   | ND    | ND    | ND    | ND         | ND         | ND         | ND         |
| 4,4'-DDD              | 1   | ND    | ND    | ND    | ND         | ND         | ND         | ND         |
| 4,4'-DDE              | 1   | ND    | ND    | ND    | ND         | ND         | ND         | ND         |
| 4,4'-DDT              | 1   | ND    | ND    | ND    | ND         | ND         | ND         | ND         |
| Aldrin                | 1   | ND    | ND    | ND    | ND         | ND         | ND         | ND         |
| BHC-alpha             | 1   | ND    | ND    | ND    | ND         | ND         | ND         | ND         |
| BHC-beta              | 1   | ND    | ND    | ND    | ND         | ND         | ND         | ND         |
| BHC-delta             | 1   | ND    | ND    | ND    | ND         | ND         | ND         | ND         |
| BHC-gamma             | 1   | ND    | ND    | ND    | ND         | ND         | ND         | ND         |
| Chlordane-alpha       | 1   | ND    | ND    | ND    | ND         | ND         | ND         | ND         |
| Chlordane-gamma       | 1   | ND    | ND    | ND    | ND         | ND         | ND         | ND         |
| DCPA (Dacthal)        | 1   | ND    | ND    | ND    | ND         | ND         | ND         | ND         |
| Dieldrin              | 1   | ND    | ND    | ND    | ND         | ND         | ND         | ND         |

**Tissue chemistry data March 02, 2004—Pesticides results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |            |             |             |             |             |             |    |    |
|-----------------------|------------|-------------|-------------|-------------|-------------|-------------|----|----|
| Endosulfan Sulfate    | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| Endosulfan-I          | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| Endosulfan-II         | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| Endrin                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| Endrin Aldehyde       | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| Endrin Ketone         | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| Heptachlor            | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| Heptachlor Epoxide    | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| Methoxychlor          | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| Mirex                 | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| Total Detectable DDTs | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| Toxaphene             | 10         | ND          | ND          | ND          | ND          | ND          | ND | ND |
| trans-Nonachlor       | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| <b>Analyte</b>        | <b>MDL</b> | <b>2238</b> | <b>2243</b> | <b>2433</b> | <b>2441</b> | <b>2229</b> |    |    |
| 2,4'-DDD              | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| 2,4'-DDE              | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| 2,4'-DDT              | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| 4,4'-DDD              | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| 4,4'-DDE              | 1          | 22.3        | ND          | 16.1        | 11.5        | 27.9        |    |    |
| 4,4'-DDT              | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Aldrin                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| BHC-alpha             | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| BHC-beta              | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| BHC-delta             | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| BHC-gamma             | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Chlordane-alpha       | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Chlordane-gamma       | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| DCPA (Dacthal)        | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Dieldrin              | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Endosulfan Sulfate    | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Endosulfan-I          | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Endosulfan-II         | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Endrin                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Endrin Aldehyde       | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Endrin Ketone         | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Heptachlor            | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Heptachlor Epoxide    | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Methoxychlor          | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Mirex                 | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Total Detectable DDTs | 1          | 22.3        | ND          | 16.1        | 11.5        | 27.9        |    |    |
| Toxaphene             | 10         | ND          | ND          | ND          | ND          | ND          |    |    |
| trans-Nonachlor       | 1          | ND          | ND          | ND          | ND          | ND          |    |    |

**Tissue chemistry data March 02, 2004—PAH results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                            |            |             |             |             |
|----------------------------|------------|-------------|-------------|-------------|
| <b>Analyte</b>             | <b>MDL</b> | <b>TO-1</b> | <b>TO-2</b> | <b>TO-3</b> |
| 1-Methylnaphthalene        | 1          | 11.7        | 5.9         | ND          |
| 1-Methylphenanthrene       | 1          | ND          | ND          | ND          |
| 2,3,5-Trimethylnaphthalene | 1          | ND          | ND          | ND          |
| 2,6-Dimethylnaphthalene    | 1          | ND          | ND          | ND          |
| 2-Methylnaphthalene        | 1          | 13.2        | 10.3        | ND          |
| Acenaphthene               | 1          | ND          | ND          | ND          |
| Acenaphthylene             | 1          | ND          | ND          | ND          |
| Anthracene                 | 1          | ND          | ND          | ND          |
| Benz[a]anthracene          | 1          | ND          | ND          | ND          |
| Benzo[a]pyrene             | 1          | ND          | ND          | ND          |
| Benzo[b]fluoranthene       | 1          | ND          | ND          | ND          |
| Benzo[e]pyrene             | 1          | ND          | ND          | ND          |
| Benzo[g,h,i]perylene       | 1          | ND          | ND          | ND          |
| Benzo[k]fluoranthene       | 1          | ND          | ND          | ND          |
| Biphenyl                   | 1          | 8.8         | 7.4         | 3.1         |

**Tissue chemistry data March 02, 2004—PAH results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                            |            |              |              |              |                   |                   |                   |                   |
|----------------------------|------------|--------------|--------------|--------------|-------------------|-------------------|-------------------|-------------------|
| Chrysene                   | 1          | ND           | ND           | ND           |                   |                   |                   |                   |
| Dibenz[a,h]anthracene      | 1          | ND           | ND           | ND           |                   |                   |                   |                   |
| Fluoranthene               | 1          | 16.1         | 15.5         | 19.3         |                   |                   |                   |                   |
| Fluorene                   | 1          | ND           | ND           | ND           |                   |                   |                   |                   |
| Indeno[1,2,3-c,d]pyrene    | 1          | ND           | ND           | ND           |                   |                   |                   |                   |
| Naphthalene                | 1          | 13.9         | 10.3         | ND           |                   |                   |                   |                   |
| Perylene                   | 1          | ND           | ND           | ND           |                   |                   |                   |                   |
| Phenanthrene               | 1          | 3.7          | 3.0          | 5.4          |                   |                   |                   |                   |
| Pyrene                     | 1          | ND           | 16.2         | 18.5         |                   |                   |                   |                   |
| Total Detectable PAHs      |            | 67.4         | 68.6         | 46.3         |                   |                   |                   |                   |
| <b>Analyte</b>             | <b>MDL</b> | <b>BST04</b> | <b>BST07</b> | <b>DAC02</b> | <b>DAC03 (R1)</b> | <b>DAC03 (R2)</b> | <b>SWZ01 (R1)</b> | <b>SWZ04 (R1)</b> |
| 1-Methylnaphthalene        | 1          | 3.4          | ND           | ND           | ND                | 1.80              | 10.8              | 7.6               |
| 1-Methylphenanthrene       | 1          | 11.2         | 19.8         | ND           | ND                | ND                | 14.1              | 17.5              |
| 2,3,5-Trimethylnaphthalene | 1          | 12.9         | 12.00        | ND           | ND                | ND                | ND                | ND                |
| 2,6-Dimethylnaphthalene    | 1          | ND           | ND           | ND           | ND                | ND                | ND                | ND                |
| 2-Methylnaphthalene        | 1          | 1.7          | ND           | ND           | ND                | ND                | 5.8               | 3.00              |
| Acenaphthene               | 1          | ND           | ND           | ND           | ND                | ND                | ND                | ND                |
| Acenaphthylene             | 1          | 86           | 113          | 17.8         | 18                | 9.9               | ND                | 15.2              |
| Anthracene                 | 1          | 328          | 442          | 44.4         | 38.6              | 38.6              | 27.4              | 46.5              |
| Benz[a]anthracene          | 1          | 761          | 1070         | 93.3         | 68.3              | 85.4              | 42.4              | 143               |
| Benzo[a]pyrene             | 1          | 1380         | 1260         | 198          | 184               | 167               | 71.5              | 184               |
| Benzo[b]fluoranthene       | 1          | 1940         | 1560         | 317          | 295               | 268               | 57.4              | 211               |
| Benzo[e]pyrene             | 1          | 1240         | 1100         | 234          | 231               | 168               | 84.8              | 205               |
| Benzo[g,h,i]perylene       | 1          | 274          | 206          | 76.4         | 60.2              | 61.1              | 43.2              | 99.1              |
| Benzo[k]fluoranthene       | 1          | 1850         | 1700         | 394          | 355               | 293               | 80.6              | 309               |
| Biphenyl                   | 1          | 9.5          | 6.00         | 14.2         | 18.9              | 18                | 12.5              | 15.2              |
| Chrysene                   | 1          | 1250         | 1670         | 123          | 132               | 118               | 99.8              | 243               |
| Dibenz[a,h]anthracene      | 1          | 64.5         | 48.2         | ND           | ND                | ND                | ND                | ND                |
| Fluoranthene               | 1          | 2260         | 4910         | 106          | 85.4              | 75.5              | 201               | 419               |
| Fluorene                   | 1          | 5.2          | 9.5          | ND           | 1.8               | 2.7               | 4.2               | 9.9               |
| Indeno[1,2,3-c,d]pyrene    | 1          | 272          | 251          | 59.5         | 84.5              | 57.5              | ND                | 111               |
| Naphthalene                | 1          | 4.3          | ND           | ND           | 13.5              | 2.7               | 20                | 15.2              |
| Perylene                   | 1          | 267          | 252          | ND           | 68.3              | ND                | ND                | 42.7              |
| Phenanthrene               | 1          | 59.3         | 157          | 17.8         | 17.1              | 12.6              | 61.5              | 63.3              |
| Pyrene                     | 1          | 2360         | 3200         | 181          | 130               | 120               | 221               | 646               |
| Total Detectable PAHs      |            | 14440        | 17986.5      | 1876.4       | 1801.6            | 1499.8            | 1058              | 2806.2            |
| <b>Analyte</b>             | <b>MDL</b> | <b>2238</b>  | <b>2243</b>  | <b>2433</b>  | <b>2441</b>       | <b>2229</b>       |                   |                   |
| 1-Methylnaphthalene        | 1          | 16.30        | ND           | ND           | ND                | ND                |                   |                   |
| 1-Methylphenanthrene       | 1          | ND           | ND           | ND           | ND                | ND                |                   |                   |
| 2,3,5-Trimethylnaphthalene | 1          | ND           | ND           | ND           | ND                | ND                |                   |                   |
| 2,6-Dimethylnaphthalene    | 1          | ND           | ND           | ND           | ND                | ND                |                   |                   |
| 2-Methylnaphthalene        | 1          | 18           | ND           | ND           | ND                | ND                |                   |                   |
| Acenaphthene               | 1          | ND           | ND           | ND           | ND                | ND                |                   |                   |
| Acenaphthylene             | 1          | ND           | ND           | ND           | ND                | 11.8              |                   |                   |
| Anthracene                 | 1          | ND           | 10           | 23.1         | 41.5              | 29.6              |                   |                   |
| Benz[a]anthracene          | 1          | ND           | 12.7         | 24.8         | 110               | 57.5              |                   |                   |
| Benzo[a]pyrene             | 1          | ND           | ND           | 44.4         | 104               | 96.4              |                   |                   |
| Benzo[b]fluoranthene       | 1          | ND           | 55.3         | 91.4         | 145               | 146               |                   |                   |
| Benzo[e]pyrene             | 1          | ND           | ND           | 82.8         | 103               | 101               |                   |                   |
| Benzo[g,h,i]perylene       | 1          | ND           | ND           | ND           | 30                | 26.2              |                   |                   |
| Benzo[k]fluoranthene       | 1          | ND           | 66.10        | 102          | 155               | 194               |                   |                   |
| Biphenyl                   | 1          | 18           | 13.6         | 4.3          | 5.3               | 9.3               |                   |                   |
| Chrysene                   | 1          | ND           | 31.70        | 41           | 148               | 87.1              |                   |                   |
| Dibenz[a,h]anthracene      | 1          | ND           | ND           | ND           | ND                | ND                |                   |                   |
| Fluoranthene               | 1          | 17.2         | 40.8         | 54.7         | 351               | 105               |                   |                   |
| Fluorene                   | 1          | 6            | 1.80         | 1.7          | ND                | 5.1               |                   |                   |
| Indeno[1,2,3-c,d]pyrene    | 1          | ND           | ND           | ND           | 30                | 72.8              |                   |                   |
| Naphthalene                | 1          | 23.2         | ND           | ND           | ND                | 3.4               |                   |                   |
| Perylene                   | 1          | ND           | ND           | ND           | 23                | 26.2              |                   |                   |
| Phenanthrene               | 1          | 6.9          | 11.8         | 12           | 16.8              | 19.5              |                   |                   |
| Pyrene                     | 1          | 16.3         | 36.2         | 47           | 231               | 119               |                   |                   |

**Tissue chemistry data March 02, 2004—PAH results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |       |     |       |        |        |
|-----------------------|-------|-----|-------|--------|--------|
| Total Detectable PAHs | 121.9 | 280 | 529.2 | 1493.6 | 1109.9 |
|-----------------------|-------|-----|-------|--------|--------|

**Tissue chemistry data March 02, 2004—PCB results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

| Analyte               | MDL | TO-1  | TO-2  | TO-3  |            |            |            |            |
|-----------------------|-----|-------|-------|-------|------------|------------|------------|------------|
| PCB018                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB028                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB031                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB033                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB037                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB044                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB049                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB052                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB066                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB070                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB074                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB077                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB081                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB087                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB095                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB097                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB099                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB101                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB105                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB110                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB114                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB118                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB119                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB123                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB126                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB128+167            | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB138                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB141                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB149                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB151                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB153                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB156                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB157                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB158                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB168+132            | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB169                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB170                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB177                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB180                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB183                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB187                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB189                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB194                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB200                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB201                | 1   | ND    | ND    | ND    |            |            |            |            |
| PCB206                | 1   | ND    | ND    | ND    |            |            |            |            |
| Total Detectable PCBs |     | ND    | ND    | ND    |            |            |            |            |
| Analyte               | MDL | BST04 | BST07 | DAC02 | DAC03 (R1) | DAC03 (R2) | SWZ01 (R1) | SWZ04 (R1) |
| PCB018                | 1   | ND    | ND    | ND    | ND         | ND         | ND         | ND         |
| PCB028                | 1   | ND    | ND    | ND    | 43.10      | 32.80      | ND         | ND         |
| PCB031                | 1   | ND    | ND    | ND    | 65.60      | 63.20      | ND         | ND         |
| PCB033                | 1   | ND    | ND    | ND    | ND         | ND         | ND         | ND         |
| PCB037                | 1   | ND    | ND    | ND    | 53.90      | ND         | ND         | ND         |
| PCB044                | 1   | ND    | ND    | ND    | 12.60      | 11.70      | ND         | ND         |
| PCB049                | 1   | ND    | ND    | ND    | 80.00      | 74.60      | ND         | ND         |
| PCB052                | 1   | ND    | ND    | 9.77  | 78.20      | 70.10      | ND         | ND         |

**Tissue chemistry data March 02, 2004—PCB results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |            |             |             |             |             |             |    |    |
|-----------------------|------------|-------------|-------------|-------------|-------------|-------------|----|----|
| PCB066                | 1          | ND          | ND          | 22.20       | 111.00      | 119.00      | ND | ND |
| PCB070                | 1          | ND          | ND          | 27.50       | 107.00      | 106.00      | ND | ND |
| PCB074                | 1          | ND          | ND          | 14.20       | 44.00       | 49.40       | ND | ND |
| PCB077                | 1          | ND          | ND          | ND          | 10.80       | 19.80       | ND | ND |
| PCB081                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB087                | 1          | ND          | ND          | ND          | 39.50       | ND          | ND | ND |
| PCB095                | 1          | ND          | ND          | 19.50       | 26.10       | 33.20       | ND | ND |
| PCB097                | 1          | ND          | ND          | ND          | 30.50       | ND          | ND | ND |
| PCB099                | 1          | ND          | ND          | ND          | 39.50       | 28.80       | ND | ND |
| PCB101                | 1          | ND          | ND          | 24.90       | 62.00       | 59.30       | ND | ND |
| PCB105                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB110                | 1          | ND          | ND          | 20.40       | 56.60       | 71.90       | ND | ND |
| PCB114                | 1          | ND          | ND          | ND          | 32.30       | ND          | ND | ND |
| PCB118                | 1          | ND          | ND          | 33.70       | 62.00       | 64.70       | ND | ND |
| PCB119                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB123                | 1          | ND          | ND          | ND          | ND          | 9.88        | ND | ND |
| PCB126                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB128+167            | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB138                | 1          | ND          | ND          | ND          | 21.60       | 31.40       | ND | ND |
| PCB141                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB149                | 1          | ND          | ND          | ND          | 21.60       | 10.80       | ND | ND |
| PCB151                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB153                | 1          | ND          | ND          | 22.20       | 39.50       | 26.10       | ND | ND |
| PCB156                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB157                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB158                | 1          | ND          | ND          | ND          | 24.30       | 18.00       | ND | ND |
| PCB168+132            | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB169                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB170                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB177                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB180                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB183                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB187                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB189                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB194                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB200                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB201                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| PCB206                | 1          | ND          | ND          | ND          | ND          | ND          | ND | ND |
| Total Detectable PCBs |            | ND          | ND          | 194.37      | 1061.70     | 900.68      | ND | ND |
| <b>Analyte</b>        | <b>MDL</b> | <b>2238</b> | <b>2243</b> | <b>2433</b> | <b>2441</b> | <b>2229</b> |    |    |
| PCB018                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB028                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB031                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB033                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB037                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB044                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB049                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB052                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB066                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB070                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB074                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB077                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB081                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB087                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB095                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB097                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB099                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB101                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB105                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB110                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| PCB114                | 1          | ND          | ND          | ND          | ND          | ND          |    |    |

**Tissue chemistry data March 02, 2004—PCB results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |   |    |    |    |    |    |
|-----------------------|---|----|----|----|----|----|
| PCB118                | 1 | ND | ND | ND | ND | ND |
| PCB119                | 1 | ND | ND | ND | ND | ND |
| PCB123                | 1 | ND | ND | ND | ND | ND |
| PCB126                | 1 | ND | ND | ND | ND | ND |
| PCB128+167            | 1 | ND | ND | ND | ND | ND |
| PCB138                | 1 | ND | ND | ND | ND | ND |
| PCB141                | 1 | ND | ND | ND | ND | ND |
| PCB149                | 1 | ND | ND | ND | ND | ND |
| PCB151                | 1 | ND | ND | ND | ND | ND |
| PCB153                | 1 | ND | ND | ND | ND | ND |
| PCB156                | 1 | ND | ND | ND | ND | ND |
| PCB157                | 1 | ND | ND | ND | ND | ND |
| PCB158                | 1 | ND | ND | ND | ND | ND |
| PCB168+132            | 1 | ND | ND | ND | ND | ND |
| PCB169                | 1 | ND | ND | ND | ND | ND |
| PCB170                | 1 | ND | ND | ND | ND | ND |
| PCB177                | 1 | ND | ND | ND | ND | ND |
| PCB180                | 1 | ND | ND | ND | ND | ND |
| PCB183                | 1 | ND | ND | ND | ND | ND |
| PCB187                | 1 | ND | ND | ND | ND | ND |
| PCB189                | 1 | ND | ND | ND | ND | ND |
| PCB194                | 1 | ND | ND | ND | ND | ND |
| PCB200                | 1 | ND | ND | ND | ND | ND |
| PCB201                | 1 | ND | ND | ND | ND | ND |
| PCB206                | 1 | ND | ND | ND | ND | ND |
| Total Detectable PCBs |   | ND | ND | ND | ND | ND |

**Tissue chemistry data March 02, 2004—Aroclors results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

| Analyte      | MDL | TO-1  | TO-2  | TO-3  |            |            |            |            |    |
|--------------|-----|-------|-------|-------|------------|------------|------------|------------|----|
| Aroclor 1016 | 10  | ND    | ND    | ND    |            |            |            |            |    |
| Aroclor 1221 | 10  | ND    | ND    | ND    |            |            |            |            |    |
| Aroclor 1232 | 10  | ND    | ND    | ND    |            |            |            |            |    |
| Aroclor 1242 | 10  | ND    | ND    | ND    |            |            |            |            |    |
| Aroclor 1248 | 10  | ND    | ND    | ND    |            |            |            |            |    |
| Aroclor 1254 | 10  | ND    | ND    | ND    |            |            |            |            |    |
| Aroclor 1260 | 10  | ND    | ND    | ND    |            |            |            |            |    |
| Analyte      | MDL | BST04 | BST07 | DAC02 | DAC03 (R1) | DAC03 (R2) | SWZ01 (R1) | SWZ04 (R1) |    |
| Aroclor 1016 | 10  | ND    | ND    | ND    | ND         | ND         | ND         | ND         | ND |
| Aroclor 1221 | 10  | ND    | ND    | ND    | ND         | ND         | ND         | ND         | ND |
| Aroclor 1232 | 10  | ND    | ND    | ND    | ND         | ND         | ND         | ND         | ND |
| Aroclor 1242 | 10  | ND    | ND    | ND    | 949        | 838        | ND         | ND         | ND |
| Aroclor 1248 | 10  | ND    | ND    | ND    | ND         | ND         | ND         | ND         | ND |
| Aroclor 1254 | 10  | ND    | ND    | 166   | 462        | 586        | ND         | ND         | ND |
| Aroclor 1260 | 10  | ND    | ND    | ND    | ND         | ND         | ND         | ND         | ND |
| Analyte      | MDL | 2238  | 2243  | 2433  | 2441       | 2229       |            |            |    |
| Aroclor 1016 | 10  | ND    | ND    | ND    | ND         | ND         |            |            |    |
| Aroclor 1221 | 10  | ND    | ND    | ND    | ND         | ND         |            |            |    |
| Aroclor 1232 | 10  | ND    | ND    | ND    | ND         | ND         |            |            |    |
| Aroclor 1242 | 10  | ND    | ND    | ND    | ND         | ND         |            |            |    |
| Aroclor 1248 | 10  | ND    | ND    | ND    | ND         | ND         |            |            |    |
| Aroclor 1254 | 10  | ND    | ND    | ND    | ND         | ND         |            |            |    |
| Aroclor 1260 | 10  | ND    | ND    | ND    | ND         | ND         |            |            |    |

**Tissue chemistry data March 02, 2004—Lipids results summary (all results in percent)—CRG Marine Laboratories, Inc.**

| Analyte | TO-1  | TO-2  | TO-3  |            |            |       |       |  |
|---------|-------|-------|-------|------------|------------|-------|-------|--|
| Lipid   | 0.56  | 0.36  | 0.54  |            |            |       |       |  |
| Analyte | BST04 | BST07 | DAC02 | DAC03 (R1) | DAC03 (R2) | SWZ01 | SWZ04 |  |
| Lipid   | 0.61  | 0.56  | 0.46  | 0.57       | 0.5        | 0.54  | 0.7   |  |
| Analyte | 2229  | 2238  | 2243  | 2433       | 2441       |       |       |  |

**Tissue chemistry data March 02, 2004—Lipids results summary (all results in percent)—CRG Marine Laboratories, Inc.**

|       |      |      |     |      |      |
|-------|------|------|-----|------|------|
| Lipid | 0.57 | 0.47 | 0.5 | 0.35 | 0.52 |
|-------|------|------|-----|------|------|

**Tissue chemistry data August 17, 2004—Metals results summary (all results in µg/dry g)—CRG Marine Laboratories, Inc.**

| Analyte    | MDL   | TO-1  | TO-2  | TO-3  |            |            |           |       |
|------------|-------|-------|-------|-------|------------|------------|-----------|-------|
| Aluminum   | 1     | 245   | 311   | 235   |            |            |           |       |
| Antimony   | 0.05  | 0.23  | 0.3   | 0.23  |            |            |           |       |
| Arsenic    | 0.05  | 23    | 22.4  | 23.5  |            |            |           |       |
| Barium     | 0.05  | 3.38  | 3.5   | 3.44  |            |            |           |       |
| Beryllium  | 0.01  | ND    | ND    | ND    |            |            |           |       |
| Cadmium    | 0.01  | 0.3   | 0.3   | 0.31  |            |            |           |       |
| Chromium   | 0.05  | 4.36  | 7.3   | 6.12  |            |            |           |       |
| Cobalt     | 0.01  | 1.05  | 1.04  | 0.99  |            |            |           |       |
| Copper     | 0.01  | 25.3  | 17.8  | 21.2  |            |            |           |       |
| Iron       | 1     | 738   | 760   | 681   |            |            |           |       |
| Lead       | 0.01  | 1.8   | 11.6  | 1.68  |            |            |           |       |
| Manganese  | 0.05  | 5.04  | 6.48  | 4.82  |            |            |           |       |
| Mercury    | 0.005 | 0.15  | 0.15  | 0.08  |            |            |           |       |
| Molybdenum | 0.05  | 7.44  | 7.3   | 7.42  |            |            |           |       |
| Nickel     | 0.01  | 4.51  | 7.9   | 5.97  |            |            |           |       |
| Selenium   | 0.05  | 2.56  | 2.61  | 2.68  |            |            |           |       |
| Silver     | 0.01  | 1.88  | 1.49  | 1.53  |            |            |           |       |
| Strontium  | 0.05  | 108   | 82.7  | 88.8  |            |            |           |       |
| Thallium   | 0.01  | ND    | ND    | ND    |            |            |           |       |
| Tin        | 0.05  | 0.3   | 0.37  | 0.31  |            |            |           |       |
| Titanium   | 0.05  | 26.5  | 31.7  | 27.5  |            |            |           |       |
| Vanadium   | 0.05  | 2.63  | 3.2   | 2.98  |            |            |           |       |
| Zinc       | 0.05  | 88    | 84.2  | 91.8  |            |            |           |       |
| Analyte    | MDL   | BST04 | BST07 | DAC02 | DAC03 (R1) | DAC03 (R2) | SWZ01     | SWZ04 |
| Aluminum   | 1     | 1190  | 641   | 638   | 884        | 618        | 836       | 1220  |
| Antimony   | 0.05  | 0.46  | 0.27  | 0.33  | 0.24       | 0.24       | 0.46      | 0.45  |
| Arsenic    | 0.05  | 28.2  | 23.9  | 20.1  | 19.3       | 19.7       | 29.1      | 29.2  |
| Barium     | 0.05  | 6.94  | 4.44  | 4.18  | 4.22       | 3.19       | 6.87      | 7.12  |
| Beryllium  | 0.01  | ND    | ND    | ND    | ND         | ND         | ND        | ND    |
| Cadmium    | 0.01  | 0.27  | 0.27  | 0.42  | 0.24       | 0.24       | 0.37      | 0.27  |
| Chromium   | 0.05  | 9.86  | 6.93  | 9.61  | 8.69       | 8.21       | 7.89      | 8.56  |
| Cobalt     | 0.01  | 1.28  | 1.07  | 1.34  | 1.51       | 1.59       | 1.21      | 1.26  |
| Copper     | 0.01  | 24.9  | 15.3  | 14    | 12.8       | 11.5       | 19.7      | 23.2  |
| Iron       | 1     | 1700  | 1060  | 1160  | 1390       | 1120       | 1300      | 1710  |
| Lead       | 0.01  | 3.47  | 2.49  | 4.76  | 4.94       | 3.43       | 4.36      | 4.68  |
| Manganese  | 0.05  | 10.5  | 6.84  | 6.02  | 8.45       | 6.45       | 6.31      | 8.11  |
| Mercury    | 0.005 | 0.09  | 0.09  | 0.08  | 0.08       | 0.08       | 0.09      | 0.09  |
| Molybdenum | 0.05  | 8.58  | 5.6   | 3.76  | 3.27       | 3.11       | 7.61      | 9.01  |
| Nickel     | 0.01  | 3.74  | 3.46  | 3.34  | 4.94       | 4.38       | 4.09      | 6.67  |
| Selenium   | 0.05  | 3.47  | 3.11  | 3.43  | 3.03       | 3.19       | 3.16      | 3.42  |
| Silver     | 0.01  | 1.37  | 0.89  | 0.75  | 0.56       | 0.64       | 1.39      | 1.17  |
| Strontium  | 0.05  | 92.2  | 81.4  | 66.1  | 66.9       | 66.7       | 90.7      | 92.8  |
| Thallium   | 0.01  | ND    | ND    | ND    | ND         | ND         | ND        | ND    |
| Tin        | 0.05  | 0.82  | 0.44  | 0.67  | 0.56       | 0.56       | 0.65      | 0.9   |
| Titanium   | 0.05  | 69.6  | 34.5  | 35.8  | 49.7       | 33.9       | 43.5      | 59.3  |
| Vanadium   | 0.05  | 4.93  | 3.64  | 3.8   | 4.06       | 3.82       | 4.18      | 5.32  |
| Zinc       | 0.05  | 96.8  | 95.9  | 86.9  | 82.1       | 81.3       | 104       | 114   |
| Analyte    | MDL   | 2229  | 2238  | 2243  | 2433       | 2441 (R1)  | 2441 (R2) |       |
| Aluminum   | 1     | 1410  | 1210  | 1180  | 2100       | 1090       | 962       |       |
| Antimony   | 0.05  | 0.15  | 0.23  | 0.25  | 0.33       | 0.32       | 0.24      |       |
| Arsenic    | 0.05  | 18.4  | 17    | 16.1  | 19.1       | 21.2       | 18.6      |       |
| Barium     | 0.05  | 6.5   | 4.44  | 5.3   | 10.6       | 7.47       | 6.92      |       |
| Beryllium  | 0.01  | ND    | ND    | ND    | ND         | ND         | ND        |       |
| Cadmium    | 0.01  | 0.23  | 0.23  | 0.25  | 0.25       | 0.24       | 0.24      |       |
| Chromium   | 0.05  | 8.01  | 8.88  | 11.2  | 12.2       | 10.7       | 8.9       |       |
| Cobalt     | 0.01  | 1.51  | 1.64  | 1.16  | 1.5        | 1.27       | 1.11      |       |
| Copper     | 0.01  | 15.7  | 13.2  | 14.2  | 17.7       | 14.6       | 12.9      |       |

**Tissue chemistry data August 17, 2004—Metals results summary (all results in µg/dry g)—CRG Marine Laboratories, Inc.**

|            |       |      |      |      |      |      |      |
|------------|-------|------|------|------|------|------|------|
| Iron       | 1     | 1840 | 1460 | 1380 | 2460 | 1570 | 1340 |
| Lead       | 0.01  | 3.93 | 1.71 | 3.06 | 3.51 | 2.94 | 2.07 |
| Manganese  | 0.05  | 12.5 | 15.1 | 9.68 | 17.7 | 9.62 | 8.11 |
| Mercury    | 0.005 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 |
| Molybdenum | 0.05  | 2.87 | 3.12 | 2.81 | 3.26 | 3.58 | 3.26 |
| Nickel     | 0.01  | 4.08 | 3.43 | 3.89 | 4.34 | 4.93 | 4.37 |
| Selenium   | 0.05  | 3.32 | 3.97 | 3.71 | 3.93 | 4.21 | 3.66 |
| Silver     | 0.01  | 0.53 | 0.55 | 0.58 | 0.67 | 0.56 | 0.56 |
| Strontium  | 0.05  | 67.3 | 71.7 | 65.7 | 71.8 | 71.1 | 64   |
| Thallium   | 0.01  | ND   | ND   | ND   | ND   | ND   | ND   |
| Tin        | 0.05  | 0.68 | 0.55 | 0.58 | 0.75 | 0.56 | 0.56 |
| Titanium   | 0.05  | 79.3 | 62.5 | 57.9 | 124  | 65.5 | 59.9 |
| Vanadium   | 0.05  | 5.44 | 4.67 | 4.47 | 6.85 | 5.01 | 4.45 |
| Zinc       | 0.05  | 75.5 | 88.8 | 75.6 | 83.5 | 68.4 | 60.3 |

**Tissue chemistry data August 17, 2004—Pesticides results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

| Analyte               | MDL | TO-1  | TO-2  | TO-3  |       |       |       |
|-----------------------|-----|-------|-------|-------|-------|-------|-------|
| 2,4'-DDD              | 1   | ND    | ND    | ND    |       |       |       |
| 2,4'-DDE              | 1   | ND    | ND    | ND    |       |       |       |
| 2,4'-DDT              | 1   | ND    | ND    | ND    |       |       |       |
| 4,4'-DDD              | 1   | ND    | ND    | ND    |       |       |       |
| 4,4'-DDE              | 1   | ND    | ND    | ND    |       |       |       |
| 4,4'-DDT              | 1   | ND    | ND    | ND    |       |       |       |
| Aldrin                | 1   | ND    | ND    | ND    |       |       |       |
| BHC-alpha             | 1   | ND    | ND    | ND    |       |       |       |
| BHC-beta              | 1   | ND    | ND    | ND    |       |       |       |
| BHC-delta             | 1   | ND    | ND    | ND    |       |       |       |
| BHC-gamma             | 1   | ND    | ND    | ND    |       |       |       |
| Chlordane-alpha       | 1   | ND    | ND    | ND    |       |       |       |
| Chlordane-gamma       | 1   | ND    | ND    | ND    |       |       |       |
| DCPA (Dacthal)        | 1   | ND    | ND    | ND    |       |       |       |
| Dieldrin              | 1   | ND    | ND    | ND    |       |       |       |
| Endosulfan Sulfate    | 1   | ND    | ND    | ND    |       |       |       |
| Endosulfan-I          | 1   | ND    | ND    | ND    |       |       |       |
| Endosulfan-II         | 1   | ND    | ND    | ND    |       |       |       |
| Endrin                | 1   | ND    | ND    | ND    |       |       |       |
| Endrin Aldehyde       | 1   | ND    | ND    | ND    |       |       |       |
| Endrin Ketone         | 1   | ND    | ND    | ND    |       |       |       |
| Heptachlor            | 1   | ND    | ND    | ND    |       |       |       |
| Heptachlor Epoxide    | 1   | ND    | ND    | ND    |       |       |       |
| Methoxychlor          | 1   | ND    | ND    | ND    |       |       |       |
| Mirex                 | 1   | ND    | ND    | ND    |       |       |       |
| Total Detectable DDTs | 1   | ND    | ND    | ND    |       |       |       |
| Toxaphene             | 10  | ND    | ND    | ND    |       |       |       |
| trans-Nonachlor       | 1   | ND    | ND    | ND    |       |       |       |
| Analyte               | MDL | BST04 | BST07 | DAC02 | DAC03 | SWZ01 | SWZ04 |
| 2,4'-DDD              | 1   | ND    | ND    | ND    | ND    | ND    | ND    |
| 2,4'-DDE              | 1   | ND    | ND    | ND    | ND    | ND    | ND    |
| 2,4'-DDT              | 1   | ND    | ND    | ND    | ND    | ND    | ND    |
| 4,4'-DDD              | 1   | ND    | ND    | ND    | ND    | ND    | ND    |
| 4,4'-DDE              | 1   | ND    | ND    | ND    | ND    | ND    | ND    |
| 4,4'-DDT              | 1   | ND    | ND    | ND    | ND    | ND    | ND    |
| Aldrin                | 1   | ND    | ND    | ND    | ND    | ND    | ND    |
| BHC-alpha             | 1   | ND    | ND    | ND    | ND    | ND    | ND    |
| BHC-beta              | 1   | ND    | ND    | ND    | ND    | ND    | ND    |
| BHC-delta             | 1   | ND    | ND    | ND    | ND    | ND    | ND    |
| BHC-gamma             | 1   | ND    | ND    | ND    | ND    | ND    | ND    |
| Chlordane-alpha       | 1   | ND    | ND    | ND    | ND    | ND    | ND    |
| Chlordane-gamma       | 1   | ND    | ND    | ND    | ND    | ND    | ND    |
| DCPA (Dacthal)        | 1   | ND    | ND    | ND    | ND    | ND    | ND    |
| Dieldrin              | 1   | ND    | ND    | ND    | ND    | ND    | ND    |

**Tissue chemistry data August 17, 2004—Pesticides results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |            |             |             |             |             |                  |                  |
|-----------------------|------------|-------------|-------------|-------------|-------------|------------------|------------------|
| Endosulfan Sulfate    | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Endosulfan-I          | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Endosulfan-II         | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Endrin                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Endrin Aldehyde       | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Endrin Ketone         | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Heptachlor            | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Heptachlor Epoxide    | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Methoxychlor          | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Mirex                 | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Total Detectable DDTs | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Toxaphene             | 10         | ND          | ND          | ND          | ND          | ND               | ND               |
| trans-Nonachlor       | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| <b>Analyte</b>        | <b>MDL</b> | <b>2238</b> | <b>2243</b> | <b>2433</b> | <b>2229</b> | <b>2441 (R1)</b> | <b>2441 (R2)</b> |
| 2,4'-DDD              | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| 2,4'-DDE              | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| 2,4'-DDT              | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| 4,4'-DDD              | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| 4,4'-DDE              | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| 4,4'-DDT              | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Aldrin                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| BHC-alpha             | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| BHC-beta              | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| BHC-delta             | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| BHC-gamma             | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Chlordane-alpha       | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Chlordane-gamma       | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| DCPA (Dacthal)        | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Dieldrin              | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Endosulfan Sulfate    | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Endosulfan-I          | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Endosulfan-II         | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Endrin                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Endrin Aldehyde       | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Endrin Ketone         | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Heptachlor            | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Heptachlor Epoxide    | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Methoxychlor          | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Mirex                 | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Total Detectable DDTs | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Toxaphene             | 10         | ND          | ND          | ND          | ND          | ND               | ND               |
| trans-Nonachlor       | 1          | ND          | ND          | ND          | ND          | ND               | ND               |

**Tissue chemistry data August 17, 2004—PAH results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                            |            |             |             |             |
|----------------------------|------------|-------------|-------------|-------------|
| <b>Analyte</b>             | <b>MDL</b> | <b>TO-1</b> | <b>TO-2</b> | <b>TO-3</b> |
| 1-Methylnaphthalene        | 1          | ND          | ND          | ND          |
| 1-Methylphenanthrene       | 1          | ND          | ND          | ND          |
| 2,3,5-Trimethylnaphthalene | 1          | ND          | ND          | ND          |
| 2,6-Dimethylnaphthalene    | 1          | ND          | ND          | ND          |
| 2-Methylnaphthalene        | 1          | ND          | ND          | ND          |
| Acenaphthene               | 1          | ND          | ND          | ND          |
| Acenaphthylene             | 1          | ND          | ND          | ND          |
| Anthracene                 | 1          | ND          | ND          | ND          |
| Benz[a]anthracene          | 1          | ND          | ND          | ND          |
| Benzo[a]pyrene             | 1          | ND          | ND          | ND          |
| Benzo[b]fluoranthene       | 1          | ND          | ND          | ND          |
| Benzo[e]pyrene             | 1          | ND          | ND          | ND          |
| Benzo[g,h,i]perylene       | 1          | ND          | ND          | ND          |
| Benzo[k]fluoranthene       | 1          | ND          | ND          | ND          |
| Biphenyl                   | 1          | ND          | ND          | ND          |

**Tissue chemistry data August 17, 2004—PAH results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                            |            |              |              |              |              |                  |                  |
|----------------------------|------------|--------------|--------------|--------------|--------------|------------------|------------------|
| Chrysene                   | 1          | ND           | ND           | ND           |              |                  |                  |
| Dibenz[a,h]anthracene      | 1          | ND           | ND           | ND           |              |                  |                  |
| Fluoranthene               | 1          | ND           | ND           | ND           |              |                  |                  |
| Fluorene                   | 1          | ND           | ND           | ND           |              |                  |                  |
| Indeno[1,2,3-c,d]pyrene    | 1          | ND           | ND           | ND           |              |                  |                  |
| Naphthalene                | 1          | ND           | ND           | ND           |              |                  |                  |
| Perylene                   | 1          | ND           | ND           | ND           |              |                  |                  |
| Phenanthrene               | 1          | ND           | ND           | ND           |              |                  |                  |
| Pyrene                     | 1          | ND           | ND           | ND           |              |                  |                  |
| Total Detectable PAHs      |            | ND           | ND           | ND           |              |                  |                  |
| <b>Analyte</b>             | <b>MDL</b> | <b>BST04</b> | <b>BST07</b> | <b>DAC02</b> | <b>DAC03</b> | <b>SWZ01</b>     | <b>SWZ04</b>     |
| 1-Methylnaphthalene        | 1          | ND           | ND           | ND           | ND           | ND               | ND               |
| 1-Methylphenanthrene       | 1          | ND           | 123          | ND           | ND           | ND               | ND               |
| 2,3,5-Trimethylnaphthalene | 1          | ND           | ND           | ND           | ND           | ND               | ND               |
| 2,6-Dimethylnaphthalene    | 1          | ND           | ND           | ND           | ND           | 136              | ND               |
| 2-Methylnaphthalene        | 1          | ND           | ND           | ND           | ND           | ND               | ND               |
| Acenaphthene               | 1          | ND           | 35.5         | ND           | ND           | ND               | ND               |
| Acenaphthylene             | 1          | ND           | 55.1         | ND           | ND           | ND               | ND               |
| Anthracene                 | 1          | 95           | 258          | 38.4         | 28.7         | ND               | ND               |
| Benz[a]anthracene          | 1          | 1120         | 2600         | 191          | 100          | ND               | ND               |
| Benzo[a]pyrene             | 1          | 1360         | 4960         | 683          | 312          | 221              | 124              |
| Benzo[b]fluoranthene       | 1          | 1240         | 4750         | 614          | 353          | 171              | 113              |
| Benzo[e]pyrene             | 1          | 683          | 2330         | 412          | 235          | 113              | 76.6             |
| Benzo[g,h,i]perylene       | 1          | 157          | 458          | 104          | 51.8         | ND               | ND               |
| Benzo[k]fluoranthene       | 1          | 1530         | 4710         | 835          | 372          | 194              | 155              |
| Biphenyl                   | 1          | ND           | 25.8         | ND           | ND           | ND               | ND               |
| Chrysene                   | 1          | 901          | 3530         | 182          | 124          | 104              | ND               |
| Dibenz[a,h]anthracene      | 1          | ND           | ND           | ND           | ND           | ND               | ND               |
| Fluoranthene               | 1          | 2050         | 14900        | 217          | 110          | 242              | 140              |
| Fluorene                   | 1          | ND           | 24.9         | ND           | ND           | ND               | ND               |
| Indeno[1,2,3-c,d]pyrene    | 1          | 221          | 644          | 190          | 72.5         | ND               | ND               |
| Naphthalene                | 1          | ND           | ND           | ND           | ND           | ND               | ND               |
| Perylene                   | 1          | 246          | 841          | 98.6         | ND           | ND               | ND               |
| Phenanthrene               | 1          | ND           | 481          | ND           | ND           | ND               | ND               |
| Pyrene                     | 1          | 1300         | 9770         | 260          | 107          | 331              | 210              |
| Total Detectable PAHs      |            | 10903        | 50496.3      | 3825         | 1866         | 1512             | 818.6            |
| <b>Analyte</b>             | <b>MDL</b> | <b>2238</b>  | <b>2243</b>  | <b>2433</b>  | <b>2229</b>  | <b>2441 (R1)</b> | <b>2441 (R2)</b> |
| 1-Methylnaphthalene        | 1          | ND           | ND           | ND           | ND           | ND               | ND               |
| 1-Methylphenanthrene       | 1          | ND           | ND           | ND           | ND           | ND               | ND               |
| 2,3,5-Trimethylnaphthalene | 1          | ND           | ND           | ND           | ND           | ND               | ND               |
| 2,6-Dimethylnaphthalene    | 1          | ND           | ND           | ND           | ND           | ND               | ND               |
| 2-Methylnaphthalene        | 1          | ND           | ND           | ND           | ND           | ND               | ND               |
| Acenaphthene               | 1          | ND           | ND           | ND           | ND           | ND               | ND               |
| Acenaphthylene             | 1          | ND           | ND           | ND           | ND           | ND               | ND               |
| Anthracene                 | 1          | ND           | ND           | ND           | 18.9         | 73.9             | 89               |
| Benz[a]anthracene          | 1          | ND           | ND           | 41.8         | 103          | 274              | 281              |
| Benzo[a]pyrene             | 1          | ND           | ND           | ND           | 168          | 157              | 184              |
| Benzo[b]fluoranthene       | 1          | ND           | 89.3         | 92.7         | 212          | 156              | 191              |
| Benzo[e]pyrene             | 1          | ND           | 60.4         | 48.5         | 122          | 111              | 111              |
| Benzo[g,h,i]perylene       | 1          | ND           | ND           | ND           | 71.8         | ND               | ND               |
| Benzo[k]fluoranthene       | 1          | ND           | 120          | 166          | 265          | 301              | 270              |
| Biphenyl                   | 1          | ND           | ND           | ND           | ND           | ND               | ND               |
| Chrysene                   | 1          | ND           | ND           | 51           | 88.4         | 178              | 199              |
| Dibenz[a,h]anthracene      | 1          | ND           | ND           | ND           | ND           | ND               | ND               |
| Fluoranthene               | 1          | 56.1         | 40.5         | 54.3         | 95.2         | 803              | 766              |
| Fluorene                   | 1          | ND           | ND           | ND           | ND           | 11.1             | 11.9             |
| Indeno[1,2,3-c,d]pyrene    | 1          | ND           | ND           | 86           | 80.1         | 65.2             | 74.7             |
| Naphthalene                | 1          | ND           | ND           | ND           | ND           | ND               | ND               |
| Perylene                   | 1          | ND           | ND           | ND           | 43.8         | 41.3             | 56.4             |
| Phenanthrene               | 1          | ND           | ND           | ND           | 34.7         | 42.1             | 35               |
| Pyrene                     | 1          | 70.1         | 35.6         | 44.3         | 87.6         | 536              | 530              |

**Tissue chemistry data August 17, 2004—PAH results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |       |       |       |        |        |      |
|-----------------------|-------|-------|-------|--------|--------|------|
| Total Detectable PAHs | 126.2 | 345.8 | 584.6 | 1390.5 | 2749.6 | 2799 |
|-----------------------|-------|-------|-------|--------|--------|------|

**Tissue chemistry data August 17, 2004—PCB results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

| Analyte               | MDL | TO-1  | TO-2  | TO-3  |       |       |       |
|-----------------------|-----|-------|-------|-------|-------|-------|-------|
| PCB018                | 1   | ND    | ND    | ND    |       |       |       |
| PCB028                | 1   | ND    | ND    | ND    |       |       |       |
| PCB031                | 1   | ND    | ND    | ND    |       |       |       |
| PCB033                | 1   | ND    | ND    | ND    |       |       |       |
| PCB037                | 1   | ND    | ND    | ND    |       |       |       |
| PCB044                | 1   | ND    | ND    | ND    |       |       |       |
| PCB049                | 1   | ND    | ND    | ND    |       |       |       |
| PCB052                | 1   | ND    | ND    | ND    |       |       |       |
| PCB066                | 1   | ND    | ND    | ND    |       |       |       |
| PCB070                | 1   | ND    | ND    | ND    |       |       |       |
| PCB074                | 1   | ND    | ND    | ND    |       |       |       |
| PCB077                | 1   | ND    | ND    | ND    |       |       |       |
| PCB081                | 1   | ND    | ND    | ND    |       |       |       |
| PCB087                | 1   | ND    | ND    | ND    |       |       |       |
| PCB095                | 1   | ND    | ND    | ND    |       |       |       |
| PCB097                | 1   | ND    | ND    | ND    |       |       |       |
| PCB099                | 1   | ND    | ND    | ND    |       |       |       |
| PCB101                | 1   | ND    | ND    | ND    |       |       |       |
| PCB105                | 1   | ND    | ND    | ND    |       |       |       |
| PCB110                | 1   | ND    | ND    | ND    |       |       |       |
| PCB114                | 1   | ND    | ND    | ND    |       |       |       |
| PCB118                | 1   | ND    | ND    | ND    |       |       |       |
| PCB119                | 1   | ND    | ND    | ND    |       |       |       |
| PCB123                | 1   | ND    | ND    | ND    |       |       |       |
| PCB126                | 1   | ND    | ND    | ND    |       |       |       |
| PCB128+167            | 1   | ND    | ND    | ND    |       |       |       |
| PCB138                | 1   | ND    | ND    | ND    |       |       |       |
| PCB141                | 1   | ND    | ND    | ND    |       |       |       |
| PCB149                | 1   | ND    | ND    | ND    |       |       |       |
| PCB151                | 1   | ND    | ND    | ND    |       |       |       |
| PCB153                | 1   | ND    | ND    | ND    |       |       |       |
| PCB156                | 1   | ND    | ND    | ND    |       |       |       |
| PCB157                | 1   | ND    | ND    | ND    |       |       |       |
| PCB158                | 1   | ND    | ND    | ND    |       |       |       |
| PCB168+132            | 1   | ND    | ND    | ND    |       |       |       |
| PCB169                | 1   | ND    | ND    | ND    |       |       |       |
| PCB170                | 1   | ND    | ND    | ND    |       |       |       |
| PCB177                | 1   | ND    | ND    | ND    |       |       |       |
| PCB180                | 1   | ND    | ND    | ND    |       |       |       |
| PCB183                | 1   | ND    | ND    | ND    |       |       |       |
| PCB187                | 1   | ND    | ND    | ND    |       |       |       |
| PCB189                | 1   | ND    | ND    | ND    |       |       |       |
| PCB194                | 1   | ND    | ND    | ND    |       |       |       |
| PCB200                | 1   | ND    | ND    | ND    |       |       |       |
| PCB201                | 1   | ND    | ND    | ND    |       |       |       |
| PCB206                | 1   | ND    | ND    | ND    |       |       |       |
| Total Detectable PCBs |     | ND    | ND    | ND    |       |       |       |
| Analyte               | MDL | BST04 | BST07 | DAC02 | DAC03 | SWZ01 | SWZ04 |
| PCB018                | 1   | ND    | ND    | ND    | ND    | ND    | ND    |
| PCB028                | 1   | ND    | ND    | ND    | 60.6  | ND    | ND    |
| PCB031                | 1   | ND    | ND    | ND    | 129   | ND    | ND    |
| PCB033                | 1   | ND    | ND    | ND    | ND    | ND    | ND    |
| PCB037                | 1   | ND    | ND    | ND    | ND    | ND    | ND    |
| PCB044                | 1   | ND    | ND    | ND    | ND    | ND    | ND    |
| PCB049                | 1   | ND    | ND    | ND    | 120   | ND    | ND    |
| PCB052                | 1   | ND    | ND    | ND    | 122   | ND    | ND    |

**Tissue chemistry data August 17, 2004—PCB results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |            |             |             |             |             |                  |                  |
|-----------------------|------------|-------------|-------------|-------------|-------------|------------------|------------------|
| PCB066                | 1          | ND          | ND          | ND          | 108         | ND               | ND               |
| PCB070                | 1          | ND          | ND          | ND          | 90.8        | ND               | ND               |
| PCB074                | 1          | ND          | ND          | ND          | 54.2        | ND               | ND               |
| PCB077                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB081                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB087                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB095                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB097                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB099                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB101                | 1          | ND          | ND          | ND          | 68.5        | ND               | ND               |
| PCB105                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB110                | 1          | ND          | ND          | 38.4        | 48.6        | ND               | ND               |
| PCB114                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB118                | 1          | ND          | ND          | 56          | 74.9        | ND               | ND               |
| PCB119                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB123                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB126                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB128+167            | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB138                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB141                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB149                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB151                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB153                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB156                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB157                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB158                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB168+132            | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB169                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB170                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB177                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB180                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB183                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB187                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB189                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB194                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB200                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB201                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB206                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| Total Detectable PCBs |            | ND          | ND          | 94.4        | 876.6       | ND               | ND               |
| <b>Analyte</b>        | <b>MDL</b> | <b>2238</b> | <b>2243</b> | <b>2433</b> | <b>2229</b> | <b>2441 (R1)</b> | <b>2441 (R2)</b> |
| PCB018                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB028                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB031                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB033                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB037                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB044                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB049                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB052                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB066                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB070                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB074                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB077                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB081                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB087                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB095                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB097                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB099                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB101                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB105                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB110                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |
| PCB114                | 1          | ND          | ND          | ND          | ND          | ND               | ND               |

**Tissue chemistry data August 17, 2004—PCB results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |   |    |    |    |    |    |    |
|-----------------------|---|----|----|----|----|----|----|
| PCB118                | 1 | ND | ND | ND | ND | ND | ND |
| PCB119                | 1 | ND | ND | ND | ND | ND | ND |
| PCB123                | 1 | ND | ND | ND | ND | ND | ND |
| PCB126                | 1 | ND | ND | ND | ND | ND | ND |
| PCB128+167            | 1 | ND | ND | ND | ND | ND | ND |
| PCB138                | 1 | ND | ND | ND | ND | ND | ND |
| PCB141                | 1 | ND | ND | ND | ND | ND | ND |
| PCB149                | 1 | ND | ND | ND | ND | ND | ND |
| PCB151                | 1 | ND | ND | ND | ND | ND | ND |
| PCB153                | 1 | ND | ND | ND | ND | ND | ND |
| PCB156                | 1 | ND | ND | ND | ND | ND | ND |
| PCB157                | 1 | ND | ND | ND | ND | ND | ND |
| PCB158                | 1 | ND | ND | ND | ND | ND | ND |
| PCB168+132            | 1 | ND | ND | ND | ND | ND | ND |
| PCB169                | 1 | ND | ND | ND | ND | ND | ND |
| PCB170                | 1 | ND | ND | ND | ND | ND | ND |
| PCB177                | 1 | ND | ND | ND | ND | ND | ND |
| PCB180                | 1 | ND | ND | ND | ND | ND | ND |
| PCB183                | 1 | ND | ND | ND | ND | ND | ND |
| PCB187                | 1 | ND | ND | ND | ND | ND | ND |
| PCB189                | 1 | ND | ND | ND | ND | ND | ND |
| PCB194                | 1 | ND | ND | ND | ND | ND | ND |
| PCB200                | 1 | ND | ND | ND | ND | ND | ND |
| PCB201                | 1 | ND | ND | ND | ND | ND | ND |
| PCB206                | 1 | ND | ND | ND | ND | ND | ND |
| Total Detectable PCBs |   | ND | ND | ND | ND | ND | ND |

**Tissue chemistry data August 17, 2004—Aroclors results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

| Analyte      | MDL | TO-1  | TO-2  | TO-3  |           |           |       |
|--------------|-----|-------|-------|-------|-----------|-----------|-------|
| Aroclor 1016 | 10  | ND    | ND    | ND    |           |           |       |
| Aroclor 1221 | 10  | ND    | ND    | ND    |           |           |       |
| Aroclor 1232 | 10  | ND    | ND    | ND    |           |           |       |
| Aroclor 1242 | 10  | ND    | ND    | ND    |           |           |       |
| Aroclor 1248 | 10  | ND    | ND    | ND    |           |           |       |
| Aroclor 1254 | 10  | ND    | ND    | ND    |           |           |       |
| Aroclor 1260 | 10  | ND    | ND    | ND    |           |           |       |
| Analyte      | MDL | BST04 | BST07 | DAC02 | DAC03     | SWZ01     | SWZ04 |
| Aroclor 1016 | 10  | ND    | ND    | ND    | ND        | ND        | ND    |
| Aroclor 1221 | 10  | ND    | ND    | ND    | ND        | ND        | ND    |
| Aroclor 1232 | 10  | ND    | ND    | ND    | ND        | ND        | ND    |
| Aroclor 1242 | 10  | ND    | ND    | ND    | 1660      | ND        | ND    |
| Aroclor 1248 | 10  | ND    | ND    | ND    | ND        | ND        | ND    |
| Aroclor 1254 | 10  | ND    | ND    | 313   | 397       | ND        | ND    |
| Aroclor 1260 | 10  | ND    | ND    | ND    | ND        | ND        | ND    |
| Analyte      | MDL | 2238  | 2243  | 2433  | 2441 (R1) | 2441 (R2) | 2229  |
| Aroclor 1016 | 10  | ND    | ND    | ND    | ND        | ND        | ND    |
| Aroclor 1221 | 10  | ND    | ND    | ND    | ND        | ND        | ND    |
| Aroclor 1232 | 10  | ND    | ND    | ND    | ND        | ND        | ND    |
| Aroclor 1242 | 10  | ND    | ND    | ND    | ND        | ND        | ND    |
| Aroclor 1248 | 10  | ND    | ND    | ND    | ND        | ND        | ND    |
| Aroclor 1254 | 10  | ND    | ND    | ND    | ND        | ND        | ND    |
| Aroclor 1260 | 10  | ND    | ND    | ND    | ND        | ND        | ND    |

**Tissue chemistry data August 17, 2004—Lipids results summary (all results in percent)—CRG Marine Laboratories, Inc.**

| Analyte | TO-1  | TO-2  | TO-3  |           |           |           |           |
|---------|-------|-------|-------|-----------|-----------|-----------|-----------|
| Lipid   | 0.64  | 0.35  | 0.6   |           |           |           |           |
| Analyte | BST04 | BST07 | DAC02 | DAC03     | SWZ01     | SWZ04     |           |
| Lipid   | 0.44  | 0.49  | 0.45  | 0.53      | 0.12      | 0.32      |           |
| Analyte | 2229  | 2238  | 2243  | 2433 (R1) | 2433 (R2) | 2441 (R1) | 2441 (R2) |

**Tissue chemistry data August 17, 2004—Lipids results summary (all results in percent)—CRG Marine Laboratories, Inc.**

|       |      |     |      |      |    |     |      |
|-------|------|-----|------|------|----|-----|------|
| Lipid | 0.48 | 0.6 | 0.51 | 0.45 | ND | 0.5 | 0.54 |
|-------|------|-----|------|------|----|-----|------|

**Tissue chemistry data October 29, 2004—Metals results summary (all results in µg/dry g)—CRG Marine Laboratories, Inc.**

| Analyte    | MDL   | T0-1  | T0-2  | T0-3  |       |           |            |            |
|------------|-------|-------|-------|-------|-------|-----------|------------|------------|
| Aluminum   | 1     | 249   | 373   | 258   |       |           |            |            |
| Antimony   | 0.05  | ND    | 0.08  | ND    |       |           |            |            |
| Arsenic    | 0.05  | 22.6  | 26.8  | 25.6  |       |           |            |            |
| Barium     | 0.05  | 2.43  | 3.41  | 2.7   |       |           |            |            |
| Beryllium  | 0.01  | ND    | ND    | ND    |       |           |            |            |
| Cadmium    | 0.01  | 3.9   | 0.49  | 0.6   |       |           |            |            |
| Chromium   | 0.05  | ND    | ND    | ND    |       |           |            |            |
| Cobalt     | 0.01  | 1.99  | 2.2   | 2.14  |       |           |            |            |
| Copper     | 0.01  | 18.7  | 23.3  | 21.4  |       |           |            |            |
| Iron       | 1     | 581   | 837   | 594   |       |           |            |            |
| Lead       | 0.01  | 1.65  | 1.95  | 1.74  |       |           |            |            |
| Manganese  | 0.05  | 10.9  | 13.5  | 11.3  |       |           |            |            |
| Mercury    | 0.005 | 0.69  | 0.24  | 0.09  |       |           |            |            |
| Molybdenum | 0.05  | 0.35  | 4.8   | 4.27  |       |           |            |            |
| Nickel     | 0.01  | 4.68  | 5.77  | 4.79  |       |           |            |            |
| Selenium   | 0.05  | 3.21  | 3.66  | 3.05  |       |           |            |            |
| Silver     | 0.01  | 0.95  | 0.65  | 0.61  |       |           |            |            |
| Strontium  | 0.05  | 65.2  | 79.8  | 72.5  |       |           |            |            |
| Thallium   | 0.01  | ND    | ND    | ND    |       |           |            |            |
| Tin        | 0.05  | ND    | ND    | ND    |       |           |            |            |
| Titanium   | 0.05  | 19.9  | 32.2  | 26.2  |       |           |            |            |
| Vanadium   | 0.05  | 2.86  | 3.82  | 3.05  |       |           |            |            |
| Zinc       | 0.05  | 94.5  | 100   | 102   |       |           |            |            |
| Analyte    | MDL   | BST04 | BST07 | DAC02 | DAC03 | SWZ01     | SWZ04 (R1) | SWZ04 (R2) |
| Aluminum   | 1     | 728   | 788   | 806   | 1190  | 1310      | 1100       | 1160       |
| Antimony   | 0.05  | 0.2   | 0.09  | 0.1   | ND    | 0.09      | 0.09       | 0.09       |
| Arsenic    | 0.05  | 26    | 26.7  | 27.3  | 25.9  | 23.3      | 23.7       | 22.9       |
| Barium     | 0.05  | 9.27  | 4.43  | 4.54  | 6.37  | 6.44      | 6.22       | 6.78       |
| Beryllium  | 0.01  | ND    | ND    | ND    | ND    | ND        | ND         | ND         |
| Cadmium    | 0.01  | 0.49  | 0.38  | 0.39  | 0.36  | 0.37      | 0.46       | 0.46       |
| Chromium   | 0.05  | ND    | ND    | ND    | ND    | ND        | ND         | ND         |
| Cobalt     | 0.01  | 1.95  | 2.08  | 2.12  | 2.33  | 2.05      | 2.23       | 2.32       |
| Copper     | 0.01  | 20    | 18.7  | 19.1  | 19.8  | 20.6      | 28.5       | 30.9       |
| Iron       | 1     | 1200  | 1160  | 1190  | 1580  | 1580      | 1400       | 1490       |
| Lead       | 0.01  | 2.93  | 3.11  | 3.19  | 4.85  | 5.7       | 8.08       | 9.66       |
| Manganese  | 0.05  | 6.83  | 6.98  | 7.14  | 9.96  | 9.34      | 8.82       | 9.56       |
| Mercury    | 0.005 | ND    | ND    | ND    | ND    | ND        | ND         | ND         |
| Molybdenum | 0.05  | 4     | 4.81  | 4.92  | 4.49  | 4.67      | 4.46       | 4.46       |
| Nickel     | 0.01  | 5.07  | 4.06  | 4.15  | 5.48  | 4.11      | 4.46       | 4.64       |
| Selenium   | 0.05  | 3.71  | 4.43  | 4.54  | 3.68  | 4.95      | 4.64       | 4.64       |
| Silver     | 0.01  | 0.29  | 0.19  | 0.19  | 0.18  | 0.19      | 0.28       | 0.37       |
| Strontium  | 0.05  | 84.4  | 81.5  | 83.4  | 87.8  | 84        | 79.7       | 81.8       |
| Thallium   | 0.01  | ND    | ND    | ND    | ND    | ND        | ND         | ND         |
| Tin        | 0.05  | ND    | ND    | ND    | ND    | ND        | ND         | ND         |
| Titanium   | 0.05  | 40.3  | 43.5  | 44.5  | 61.8  | 71.9      | 60.4       | 68.7       |
| Vanadium   | 0.05  | 4     | 3.96  | 4.05  | 4.85  | 5.14      | 4.92       | 5.01       |
| Zinc       | 0.05  | 131   | 109   | 112   | 122   | 106       | 110        | 110        |
| Analyte    | MDL   | 2229  | 2238  | 2243  | 2433  | 2441 (R1) | 2229       | 2238       |
| Aluminum   | 1     | 876   | 1290  | 1030  | 1480  | 1110      | 876        | 1290       |
| Antimony   | 0.05  | 0.1   | 0.09  | 0.1   | 0.16  | 0.09      | 0.1        | 0.09       |
| Arsenic    | 0.05  | 22.5  | 21.1  | 26.9  | 22.5  | 25.7      | 22.5       | 21.1       |
| Barium     | 0.05  | 5.36  | 4.73  | 6.49  | 6.74  | 7.43      | 5.36       | 4.73       |
| Beryllium  | 0.01  | ND    | ND    | ND    | ND    | ND        | ND         | ND         |
| Cadmium    | 0.01  | 0.39  | 0.44  | 0.39  | 0.4   | 0.36      | 0.39       | 0.44       |
| Chromium   | 0.05  | ND    | ND    | ND    | ND    | ND        | ND         | ND         |
| Cobalt     | 0.01  | 2.33  | 2.1   | 2.03  | 2.09  | 1.9       | 2.33       | 2.1        |
| Copper     | 0.01  | 19.6  | 17.1  | 17.5  | 21    | 17        | 19.6       | 17.1       |

**Tissue chemistry data October 29, 2004—Metals results summary (all results in µg/dry g)—CRG Marine Laboratories, Inc.**

|            |       |      |      |      |      |      |      |      |
|------------|-------|------|------|------|------|------|------|------|
| Iron       | 1     | 1030 | 1360 | 1360 | 1820 | 1500 | 1030 | 1360 |
| Lead       | 0.01  | 3.53 | 2.36 | 2.81 | 3.77 | 2.18 | 3.53 | 2.36 |
| Manganese  | 0.05  | 13.8 | 12.4 | 9.4  | 13.6 | 9.25 | 13.8 | 12.4 |
| Mercury    | 0.005 | 0.2  | 0.09 | ND   | 0.08 | ND   | 0.2  | 0.09 |
| Molybdenum | 0.05  | 3.92 | 3.77 | 4.65 | 4.41 | 4.26 | 3.92 | 3.77 |
| Nickel     | 0.01  | 4.22 | 3.85 | 4.36 | 4.17 | 3.9  | 4.22 | 3.85 |
| Selenium   | 0.05  | 2.65 | 2.8  | 4.36 | 3.39 | 4.08 | 2.65 | 2.8  |
| Silver     | 0.01  | 0.59 | 0.35 | 0.39 | 0.4  | 0.27 | 0.59 | 0.35 |
| Strontium  | 0.05  | 77.1 | 73.6 | 93.3 | 78.2 | 80.1 | 77.1 | 73.6 |
| Thallium   | 0.01  | ND   | ND   | ND   | ND   | ND   | ND   | ND   |
| Tin        | 0.05  | 4.22 | ND   | 4.75 | ND   | ND   | 4.22 | ND   |
| Titanium   | 0.05  | 47.6 | 67.1 | 50.4 | 79.1 | 63.7 | 47.6 | 67.1 |
| Vanadium   | 0.05  | 3.82 | 4.82 | 4.36 | 5.13 | 4.71 | 3.82 | 4.82 |
| Zinc       | 0.05  | 109  | 103  | 128  | 137  | 110  | 109  | 103  |

**Tissue chemistry data October 29, 2004—Pesticides results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

| Analyte            | MDL | T0-1  | T0-2  | T0-3  |       |       |       |       |
|--------------------|-----|-------|-------|-------|-------|-------|-------|-------|
| 2,4'-DDD           | 1   | ND    | ND    | ND    |       |       |       |       |
| 2,4'-DDE           | 1   | ND    | ND    | ND    |       |       |       |       |
| 2,4'-DDT           | 1   | ND    | ND    | ND    |       |       |       |       |
| 4,4'-DDD           | 1   | ND    | ND    | ND    |       |       |       |       |
| 4,4'-DDE           | 1   | ND    | ND    | ND    |       |       |       |       |
| 4,4'-DDT           | 1   | ND    | ND    | ND    |       |       |       |       |
| Aldrin             | 1   | ND    | ND    | ND    |       |       |       |       |
| BHC-alpha          | 1   | ND    | ND    | ND    |       |       |       |       |
| BHC-beta           | 1   | ND    | ND    | ND    |       |       |       |       |
| BHC-delta          | 1   | ND    | ND    | ND    |       |       |       |       |
| BHC-gamma          | 1   | ND    | ND    | ND    |       |       |       |       |
| Chlordane-alpha    | 1   | ND    | ND    | ND    |       |       |       |       |
| Chlordane-gamma    | 1   | ND    | ND    | ND    |       |       |       |       |
| Dieldrin           | 1   | ND    | ND    | ND    |       |       |       |       |
| Endosulfan Sulfate | 1   | ND    | ND    | ND    |       |       |       |       |
| Endosulfan-I       | 1   | ND    | ND    | ND    |       |       |       |       |
| Endosulfan-II      | 1   | ND    | ND    | ND    |       |       |       |       |
| Endrin             | 1   | ND    | ND    | ND    |       |       |       |       |
| Endrin Aldehyde    | 1   | ND    | ND    | ND    |       |       |       |       |
| Heptachlor         | 1   | ND    | ND    | ND    |       |       |       |       |
| Heptachlor Epoxide | 1   | ND    | ND    | ND    |       |       |       |       |
| Toxaphene          | 10  | ND    | ND    | ND    |       |       |       |       |
| Analyte            | MDL | BST04 | BST07 | DAC02 | DAC03 | SWZ01 | SWZ04 | SWZ01 |
| 2,4'-DDD           | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| 2,4'-DDE           | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| 2,4'-DDT           | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| 4,4'-DDD           | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| 4,4'-DDE           | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| 4,4'-DDT           | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| Aldrin             | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| BHC-alpha          | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| BHC-beta           | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| BHC-delta          | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| BHC-gamma          | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| Chlordane-alpha    | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| Chlordane-gamma    | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| Dieldrin           | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| Endosulfan Sulfate | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| Endosulfan-I       | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| Endosulfan-II      | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| Endrin             | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| Endrin Aldehyde    | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| Heptachlor         | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |
| Heptachlor Epoxide | 1   | ND    | ND    | ND    | ND    | ND    | ND    | ND    |

**Tissue chemistry data October 29, 2004—Pesticides results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                    |            |             |             |             |             |             |    |    |
|--------------------|------------|-------------|-------------|-------------|-------------|-------------|----|----|
| Toxaphene          | 10         | ND          | ND          | ND          | ND          | ND          | ND | ND |
| <b>Analyte</b>     | <b>MDL</b> | <b>2229</b> | <b>2238</b> | <b>2243</b> | <b>2433</b> | <b>2411</b> |    |    |
| 2,4'-DDD           | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| 2,4'-DDE           | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| 2,4'-DDT           | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| 4,4'-DDD           | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| 4,4'-DDE           | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| 4,4'-DDT           | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Aldrin             | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| BHC-alpha          | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| BHC-beta           | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| BHC-delta          | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| BHC-gamma          | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Chlordane-alpha    | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Chlordane-gamma    | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Dieldrin           | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Endosulfan Sulfate | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Endosulfan-I       | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Endosulfan-II      | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Endrin             | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Endrin Aldehyde    | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Heptachlor         | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Heptachlor Epoxide | 1          | ND          | ND          | ND          | ND          | ND          |    |    |
| Toxaphene          | 10         | ND          | ND          | ND          | ND          | ND          |    |    |

**Tissue chemistry data October 29, 2004—PAH results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

| <b>Analyte</b>             | <b>MDL</b> | <b>T0-1</b>  | <b>T0-2</b>  | <b>T0-3</b>  |              |              |                   |                   |
|----------------------------|------------|--------------|--------------|--------------|--------------|--------------|-------------------|-------------------|
| 1-Methylnaphthalene        | 1          | ND           | ND           | ND           |              |              |                   |                   |
| 1-Methylphenanthrene       | 1          | ND           | ND           | ND           |              |              |                   |                   |
| 2,3,5-Trimethylnaphthalene | 1          | ND           | ND           | ND           |              |              |                   |                   |
| 2,6-Dimethylnaphthalene    | 1          | ND           | ND           | ND           |              |              |                   |                   |
| 2-Methylnaphthalene        | 1          | ND           | ND           | ND           |              |              |                   |                   |
| Acenaphthene               | 1          | ND           | ND           | ND           |              |              |                   |                   |
| Acenaphthylene             | 1          | ND           | ND           | ND           |              |              |                   |                   |
| Anthracene                 | 1          | ND           | ND           | ND           |              |              |                   |                   |
| Benz[a]anthracene          | 1          | ND           | 10.7         | ND           |              |              |                   |                   |
| Benzo[a]pyrene             | 1          | ND           | ND           | ND           |              |              |                   |                   |
| Benzo[b]fluoranthene       | 1          | ND           | ND           | ND           |              |              |                   |                   |
| Benzo[e]pyrene             | 1          | ND           | ND           | ND           |              |              |                   |                   |
| Benzo[g,h,i]perylene       | 1          | ND           | ND           | ND           |              |              |                   |                   |
| Benzo[k]fluoranthene       | 1          | ND           | ND           | ND           |              |              |                   |                   |
| Biphenyl                   | 1          | ND           | ND           | ND           |              |              |                   |                   |
| Chrysene                   | 1          | ND           | 13.4         | ND           |              |              |                   |                   |
| Dibenz[a,h]anthracene      | 1          | ND           | ND           | ND           |              |              |                   |                   |
| Fluoranthene               | 1          | 58.6         | 50.8         | 55.2         |              |              |                   |                   |
| Fluorene                   | 1          | ND           | ND           | ND           |              |              |                   |                   |
| Indeno[1,2,3-c,d]pyrene    | 1          | ND           | ND           | ND           |              |              |                   |                   |
| Naphthalene                | 1          | ND           | ND           | ND           |              |              |                   |                   |
| Perylene                   | 1          | ND           | ND           | ND           |              |              |                   |                   |
| Phenanthrene               | 1          | 20.6         | 13.7         | 12.6         |              |              |                   |                   |
| Pyrene                     | 1          | 32.2         | 29           | 36.5         |              |              |                   |                   |
| Total Detectable PAHs      |            | 111.4        | 117.6        | 104.3        |              |              |                   |                   |
| <b>Analyte</b>             | <b>MDL</b> | <b>BST04</b> | <b>BST07</b> | <b>DAC02</b> | <b>DAC03</b> | <b>SWZ01</b> | <b>SWZ04 (R1)</b> | <b>SWZ04 (R2)</b> |
| 1-Methylnaphthalene        | 1          | 11.3         | 12.2         | 11.1         | ND           | ND           | ND                | ND                |
| 1-Methylphenanthrene       | 1          | ND           | ND           | ND           | ND           | ND           | ND                | ND                |
| 2,3,5-Trimethylnaphthalene | 1          | ND           | ND           | ND           | ND           | ND           | ND                | ND                |
| 2,6-Dimethylnaphthalene    | 1          | ND           | ND           | ND           | ND           | ND           | ND                | ND                |
| 2-Methylnaphthalene        | 1          | 25.4         | 22.1         | 14.1         | ND           | ND           | ND                | ND                |
| Acenaphthene               | 1          | ND           | ND           | ND           | ND           | ND           | ND                | ND                |
| Acenaphthylene             | 1          | 44.7         | 111          | ND           | ND           | ND           | 12                | 13.7              |

**Tissue chemistry data October 29, 2004—PAH results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                            |            |             |             |             |             |             |        |        |
|----------------------------|------------|-------------|-------------|-------------|-------------|-------------|--------|--------|
| Anthracene                 | 1          | 200         | 425         | 34.7        | 37.1        | 37.1        | 47.7   | 36.7   |
| Benz[a]anthracene          | 1          | 791         | 2510        | 93.3        | 80.1        | 96.8        | 109    | 135    |
| Benzo[a]pyrene             | 1          | 1280        | 3830        | 226         | 178         | 133         | 279    | 301    |
| Benzo[b]fluoranthene       | 1          | 1610        | 4720        | 348         | 247         | 168         | 305    | 364    |
| Benzo[e]pyrene             | 1          | 959         | 2690        | 228         | 180         | 137         | 234    | 282    |
| Benzo[g,h,i]perylene       | 1          | 229         | 450         | 59.2        | 63.8        | 62.1        | 103    | 109    |
| Benzo[k]fluoranthene       | 1          | 1550        | 4190        | 340         | 246         | 161         | 299    | 361    |
| Biphenyl                   | 1          | 9.5         | ND          | 6.7         | ND          | ND          | ND     | ND     |
| Chrysene                   | 1          | 968         | 3520        | 126         | 125         | 132         | 215    | 252    |
| Dibenz[a,h]anthracene      | 1          | ND          | 155         | ND          | ND          | ND          | ND     | ND     |
| Fluoranthene               | 1          | 2670        | 11630       | 167         | 148         | 321         | 287    | 318    |
| Fluorene                   | 1          | ND          | 24.3        | 12.5        | ND          | ND          | 20.3   | 19.5   |
| Indeno[1,2,3-c,d]pyrene    | 1          | 277         | 661         | 91          | 116         | ND          | 113    | 104    |
| Naphthalene                | 1          | 43.2        | 42.7        | 24.7        | ND          | 30.2        | 29.3   | 21.2   |
| Perylene                   | 1          | 229         | 695         | 45.7        | 44.3        | 26.2        | 47.8   | 60     |
| Phenanthrene               | 1          | 120         | 209         | 20.8        | 30.6        | 34.7        | 38.4   | 42.5   |
| Pyrene                     | 1          | 3170        | 10120       | 187         | 152         | 465         | 727    | 816    |
| Total Detectable PAHs      |            | 14187.1     | 45993       | 2035.8      | 1647.9      | 1804.1      | 2866.5 | 3235.6 |
| <b>Analyte</b>             | <b>MDL</b> | <b>2229</b> | <b>2238</b> | <b>2243</b> | <b>2433</b> | <b>2411</b> |        |        |
| 1-Methylnaphthalene        | 1          | ND          | ND          | ND          | ND          | ND          |        |        |
| 1-Methylphenanthrene       | 1          | ND          | ND          | ND          | ND          | ND          |        |        |
| 2,3,5-Trimethylnaphthalene | 1          | ND          | ND          | ND          | ND          | ND          |        |        |
| 2,6-Dimethylnaphthalene    | 1          | ND          | ND          | ND          | ND          | ND          |        |        |
| 2-Methylnaphthalene        | 1          | ND          | ND          | ND          | ND          | 14.6        |        |        |
| Acenaphthene               | 1          | ND          | ND          | ND          | ND          | ND          |        |        |
| Acenaphthylene             | 1          | ND          | ND          | ND          | ND          | ND          |        |        |
| Anthracene                 | 1          | 18.4        | ND          | ND          | 15.3        | 88.1        |        |        |
| Benz[a]anthracene          | 1          | 42.2        | ND          | 26.2        | 31.3        | 169         |        |        |
| Benzo[a]pyrene             | 1          | 75          | ND          | 42.2        | 65.1        | 29.9        |        |        |
| Benzo[b]fluoranthene       | 1          | 118         | ND          | 58.8        | 96          | 159         |        |        |
| Benzo[e]pyrene             | 1          | 78.3        | ND          | 43.9        | 53.9        | 114         |        |        |
| Benzo[g,h,i]perylene       | 1          | ND          | ND          | ND          | ND          | ND          |        |        |
| Benzo[k]fluoranthene       | 1          | 120         | ND          | 71.2        | 100         | 101         |        |        |
| Biphenyl                   | 1          | ND          | ND          | ND          | ND          | 9.6         |        |        |
| Chrysene                   | 1          | 72.7        | ND          | 43.3        | 32.9        | 165         |        |        |
| Dibenz[a,h]anthracene      | 1          | ND          | ND          | ND          | ND          | ND          |        |        |
| Fluoranthene               | 1          | 79.1        | 18.9        | 45.4        | 56.4        | 835         |        |        |
| Fluorene                   | 1          | ND          | ND          | ND          | 16.9        | 27.7        |        |        |
| Indeno[1,2,3-c,d]pyrene    | 1          | ND          | ND          | ND          | ND          | ND          |        |        |
| Naphthalene                | 1          | ND          | ND          | ND          | ND          | 19.9        |        |        |
| Perylene                   | 1          | ND          | ND          | ND          | ND          | ND          |        |        |
| Phenanthrene               | 1          | 31.1        | ND          | 23          | 19.5        | 52.8        |        |        |
| Pyrene                     | 1          | 85.7        | 18.4        | 48.7        | 43.9        | 526         |        |        |
| Total Detectable PAHs      |            | 720.5       | 37.3        | 402.7       | 531.2       | 2311.6      |        |        |

**Tissue chemistry data October 29, 2004—PCB results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

| <b>Analyte</b> | <b>MDL</b> | <b>T0-1</b> | <b>T0-2</b> | <b>T0-3</b> |
|----------------|------------|-------------|-------------|-------------|
| PCB018         | 1          | ND          | ND          | ND          |
| PCB028         | 1          | ND          | ND          | ND          |
| PCB031         | 1          | ND          | ND          | ND          |
| PCB033         | 1          | ND          | ND          | ND          |
| PCB037         | 1          | ND          | ND          | ND          |
| PCB044         | 1          | ND          | ND          | ND          |
| PCB049         | 1          | ND          | ND          | ND          |
| PCB052         | 1          | ND          | ND          | ND          |
| PCB066         | 1          | ND          | ND          | ND          |
| PCB070         | 1          | ND          | ND          | ND          |
| PCB074         | 1          | ND          | ND          | ND          |
| PCB077         | 1          | ND          | ND          | ND          |
| PCB081         | 1          | ND          | ND          | ND          |

**Tissue chemistry data October 29, 2004—PCB results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |            |              |              |              |              |
|-----------------------|------------|--------------|--------------|--------------|--------------|
| PCB087                | 1          | ND           | ND           | ND           |              |
| PCB095                | 1          | ND           | ND           | ND           |              |
| PCB097                | 1          | ND           | ND           | ND           |              |
| PCB099                | 1          | ND           | ND           | ND           |              |
| PCB101                | 1          | ND           | ND           | ND           |              |
| PCB105                | 1          | ND           | ND           | ND           |              |
| PCB110                | 1          | ND           | ND           | ND           |              |
| PCB114                | 1          | ND           | ND           | ND           |              |
| PCB118                | 1          | ND           | ND           | ND           |              |
| PCB119                | 1          | ND           | ND           | ND           |              |
| PCB123                | 1          | ND           | ND           | ND           |              |
| PCB126                | 1          | ND           | ND           | ND           |              |
| PCB128+167            | 1          | ND           | ND           | ND           |              |
| PCB138                | 1          | ND           | ND           | ND           |              |
| PCB141                | 1          | ND           | ND           | ND           |              |
| PCB149                | 1          | ND           | ND           | ND           |              |
| PCB151                | 1          | ND           | ND           | ND           |              |
| PCB153                | 1          | ND           | ND           | ND           |              |
| PCB156                | 1          | ND           | ND           | ND           |              |
| PCB157                | 1          | ND           | ND           | ND           |              |
| PCB158                | 1          | ND           | ND           | ND           |              |
| PCB168+132            | 1          | ND           | ND           | ND           |              |
| PCB169                | 1          | ND           | ND           | ND           |              |
| PCB170                | 1          | ND           | ND           | ND           |              |
| PCB177                | 1          | ND           | ND           | ND           |              |
| PCB180                | 1          | ND           | ND           | ND           |              |
| PCB183                | 1          | ND           | ND           | ND           |              |
| PCB187                | 1          | ND           | ND           | ND           |              |
| PCB189                | 1          | ND           | ND           | ND           |              |
| PCB194                | 1          | ND           | ND           | ND           |              |
| PCB200                | 1          | ND           | ND           | ND           |              |
| PCB201                | 1          | ND           | ND           | ND           |              |
| PCB206                | 1          | ND           | ND           | ND           |              |
| Total Detectable PCBs |            | ND           | ND           | ND           |              |
| <b>Analyte</b>        | <b>MDL</b> | <b>BST04</b> | <b>BST07</b> | <b>DAC02</b> | <b>DAC03</b> |
| PCB018                | 1          | ND           | ND           | ND           | 86.5         |
| PCB028                | 1          | ND           | ND           | ND           | 142          |
| PCB031                | 1          | ND           | ND           | ND           | 257          |
| PCB033                | 1          | ND           | ND           | ND           | 16.5         |
| PCB037                | 1          | ND           | ND           | ND           | ND           |
| PCB044                | 1          | ND           | ND           | 21.9         | 46.9         |
| PCB049                | 1          | ND           | ND           | 38.1         | 278          |
| PCB052                | 1          | ND           | ND           | 35.7         | 284          |
| PCB066                | 1          | ND           | ND           | 62.3         | 215          |
| PCB070                | 1          | ND           | ND           | 38.1         | 179          |
| PCB074                | 1          | ND           | ND           | 27.6         | 94.1         |
| PCB077                | 1          | ND           | ND           | ND           | ND           |
| PCB081                | 1          | ND           | ND           | ND           | ND           |
| PCB087                | 1          | ND           | ND           | ND           | ND           |
| PCB095                | 1          | ND           | ND           | ND           | 63.1         |
| PCB097                | 1          | ND           | ND           | ND           | ND           |
| PCB099                | 1          | ND           | ND           | 42.2         | 79.8         |
| PCB101                | 1          | ND           | ND           | 76.7         | 121          |
| PCB105                | 1          | ND           | ND           | ND           | ND           |
| PCB110                | 1          | 9.8          | 18.1         | 50.8         | 101          |
| PCB114                | 1          | ND           | ND           | ND           | ND           |
| PCB118                | 1          | ND           | ND           | 53           | 96.9         |
| PCB119                | 1          | ND           | ND           | ND           | ND           |
| PCB123                | 1          | ND           | ND           | ND           | ND           |
| PCB126                | 1          | ND           | ND           | ND           | ND           |
| PCB128+167            | 1          | ND           | ND           | ND           | ND           |

**Tissue chemistry data October 29, 2004—PCB results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |            |             |             |             |             |             |
|-----------------------|------------|-------------|-------------|-------------|-------------|-------------|
| PCB138                | 1          | ND          | ND          | 43.8        | 67.8        |             |
| PCB141                | 1          | ND          | ND          | ND          | ND          |             |
| PCB149                | 1          | ND          | ND          | 30.5        | ND          |             |
| PCB151                | 1          | ND          | ND          | ND          | ND          |             |
| PCB153                | 1          | 153         | 22.4        | 38.7        | 48.1        |             |
| PCB156                | 1          | ND          | ND          | ND          | ND          |             |
| PCB157                | 1          | ND          | ND          | ND          | ND          |             |
| PCB158                | 1          | ND          | ND          | ND          | ND          |             |
| PCB168+132            | 1          | ND          | ND          | 12.1        | 17.8        |             |
| PCB169                | 1          | ND          | ND          | ND          | ND          |             |
| PCB170                | 1          | ND          | ND          | ND          | ND          |             |
| PCB177                | 1          | ND          | ND          | ND          | ND          |             |
| PCB180                | 1          | ND          | ND          | ND          | ND          |             |
| PCB183                | 1          | ND          | ND          | ND          | ND          |             |
| PCB187                | 1          | ND          | ND          | ND          | ND          |             |
| PCB189                | 1          | ND          | ND          | ND          | ND          |             |
| PCB194                | 1          | ND          | ND          | ND          | ND          |             |
| PCB200                | 1          | ND          | ND          | ND          | ND          |             |
| PCB201                | 1          | ND          | ND          | ND          | ND          |             |
| PCB206                | 1          | ND          | ND          | ND          | ND          |             |
| Total Detectable PCBs |            | 162.8       | 40.5        | 571.5       | 2194.5      |             |
| <b>Analyte</b>        | <b>MDL</b> | <b>2229</b> | <b>2238</b> | <b>2243</b> | <b>2433</b> | <b>2411</b> |
| PCB018                | 1          | ND          | ND          | ND          | 47.3        | ND          |
| PCB028                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB031                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB033                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB037                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB044                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB049                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB052                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB066                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB070                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB074                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB077                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB081                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB087                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB095                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB097                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB099                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB101                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB105                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB110                | 1          | ND          | ND          | ND          | 10.6        | ND          |
| PCB114                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB118                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB119                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB123                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB126                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB128+167            | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB138                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB141                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB149                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB151                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB153                | 1          | ND          | ND          | ND          | 18.4        | ND          |
| PCB156                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB157                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB158                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB168+132            | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB169                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB170                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB177                | 1          | ND          | ND          | ND          | ND          | ND          |
| PCB180                | 1          | ND          | ND          | ND          | ND          | ND          |

**Tissue chemistry data October 29, 2004—PCB results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

|                       |   |    |    |    |      |    |
|-----------------------|---|----|----|----|------|----|
| PCB183                | 1 | ND | ND | ND | ND   | ND |
| PCB187                | 1 | ND | ND | ND | ND   | ND |
| PCB189                | 1 | ND | ND | ND | ND   | ND |
| PCB194                | 1 | ND | ND | ND | ND   | ND |
| PCB200                | 1 | ND | ND | ND | ND   | ND |
| PCB201                | 1 | ND | ND | ND | ND   | ND |
| PCB206                | 1 | ND | ND | ND | ND   | ND |
| Total Detectable PCBs |   | ND | ND | ND | 76.3 | ND |

**Tissue chemistry data October 29, 2004—Aroclors results summary (all results in ng/dry g)—CRG Marine Laboratories, Inc.**

| <b>Analyte</b> | <b>MDL</b> | <b>T0-1</b>  | <b>T0-2</b>  | <b>T0-3</b>  |              |              |                   |                   |
|----------------|------------|--------------|--------------|--------------|--------------|--------------|-------------------|-------------------|
| Aroclor 1016   | 10         | ND           | ND           | ND           |              |              |                   |                   |
| Aroclor 1221   | 10         | ND           | ND           | ND           |              |              |                   |                   |
| Aroclor 1232   | 10         | ND           | ND           | ND           |              |              |                   |                   |
| Aroclor 1242   | 10         | ND           | ND           | ND           |              |              |                   |                   |
| Aroclor 1248   | 10         | ND           | ND           | ND           |              |              |                   |                   |
| Aroclor 1254   | 10         | ND           | ND           | ND           |              |              |                   |                   |
| Aroclor 1260   | 10         | ND           | ND           | ND           |              |              |                   |                   |
| <b>Analyte</b> | <b>MDL</b> | <b>BST04</b> | <b>BST07</b> | <b>DAC02</b> | <b>DAC03</b> | <b>SWZ01</b> | <b>SWZ04 (R1)</b> | <b>SWZ04 (R2)</b> |
| Aroclor 1016   | 10         | ND           | ND           | ND           | ND           | ND           | ND                | ND                |
| Aroclor 1221   | 10         | ND           | ND           | ND           | ND           | ND           | ND                | ND                |
| Aroclor 1232   | 10         | ND           | ND           | ND           | ND           | ND           | ND                | ND                |
| Aroclor 1242   | 10         | ND           | ND           | ND           | 3480         | ND           | ND                | ND                |
| Aroclor 1248   | 10         | ND           | ND           | ND           | ND           | ND           | ND                | ND                |
| Aroclor 1254   | 10         | 80.3         | 147          | 415          | 822          | ND           | 612               | 370               |
| Aroclor 1260   | 10         | ND           | ND           | ND           | ND           | ND           | ND                | ND                |
| <b>Analyte</b> | <b>MDL</b> | <b>2229</b>  | <b>2238</b>  | <b>2243</b>  | <b>2433</b>  | <b>2411</b>  |                   |                   |
| Aroclor 1016   | 10         | ND           | ND           | ND           | ND           | ND           |                   |                   |
| Aroclor 1221   | 10         | ND           | ND           | ND           | ND           | ND           |                   |                   |
| Aroclor 1232   | 10         | ND           | ND           | ND           | ND           | ND           |                   |                   |
| Aroclor 1242   | 10         | ND           | ND           | ND           | ND           | ND           |                   |                   |
| Aroclor 1248   | 10         | ND           | ND           | ND           | ND           | ND           |                   |                   |
| Aroclor 1254   | 10         | ND           | ND           | ND           | 86.2         | ND           |                   |                   |
| Aroclor 1260   | 10         | ND           | ND           | ND           | ND           | ND           |                   |                   |

**Tissue chemistry data October 27, 2004—Lipids results summary (all results in percent)—CRG Marine Laboratories, Inc.**

| <b>Analyte</b> | <b>T0-1</b>  | <b>T0-2</b>  | <b>T0-3</b>  |              |              |                   |                   |  |
|----------------|--------------|--------------|--------------|--------------|--------------|-------------------|-------------------|--|
| Lipid          | 0.51         | 0.47         | 0.48         |              |              |                   |                   |  |
| <b>Analyte</b> | <b>BST04</b> | <b>BST07</b> | <b>DAC02</b> | <b>DAC03</b> | <b>SWZ01</b> | <b>SWZ04 (R1)</b> | <b>SWZ04 (R2)</b> |  |
| Lipid          | 0.42         | 0.4          | 0.37         | 0.45         | 0.38         | 0.5               | 0.49              |  |
| <b>Analyte</b> | <b>2229</b>  | <b>2238</b>  | <b>2243</b>  | <b>2433</b>  | <b>2411</b>  |                   |                   |  |
| Lipid          | 0.4          | 0.45         | 0.38         | 0.51         | 0.44         |                   |                   |  |

Appendix F. Clam (*Macoma nasuta*) tissue chemistry vs. TRVs – February 2004

| Station | Analyte | Macoma concentration (mg/kg) (a) | Dose from Macoma (mg/d) (b) | Sed. conc. (mg/kg) | Dose from sediment (mg/d) (c) | Total Dose (mg/kg/d) (d) | TRV high | TRV low | dose: TRV high ratio | dose: TRV low ratio |
|---------|---------|----------------------------------|-----------------------------|--------------------|-------------------------------|--------------------------|----------|---------|----------------------|---------------------|
| SWZ 01  | As      | 24.40                            | 1.886                       | 8.24               | 0.034                         | 2.133                    | 22.01    | 5.5     | 0.097                | 0.388               |
| SWZ 01  | Cd      | 0.50                             | 0.039                       | 0.87               | 0.004                         | 0.047                    | 10.43    | 0.08    | 0.004                | 0.586               |
| SWZ 01  | Cu      | 22.40                            | 1.732                       | 133                | 0.541                         | 2.525                    | 52.26    | 2.3     | 0.048                | <b>1.098</b>        |
| SWZ 01  | Mn      | 10.80                            | 0.835                       | 216                | 0.879                         | 1.904                    | 776      | 77.6    | 0.002                | 0.025               |
| SWZ 01  | Hg      | 0.0025                           | 0.000                       | 0.2                | 0.001                         | 0.001                    | 0.18     | 0.039   | 0.006                | 0.029               |
| SWZ 01  | Ni      | 3.74                             | 0.289                       | 18.1               | 0.074                         | 0.403                    | 56.26    | 1.38    | 0.007                | 0.292               |
| SWZ 01  | Se      | 3.74                             | 0.289                       | 0.67               | 0.003                         | 0.324                    | 0.93     | 0.23    | 0.349                | <b>1.410</b>        |
| SWZ 01  | Zn      | 178                              | 13.759                      | 408                | 1.660                         | 17.132                   | 172      | 17.2    | 0.100                | 0.996               |
| SWZ 01  | Naph    | 20                               | 1.546                       | 81.2               | 0.330                         | 2.085                    |          | 2.9     |                      | 0.719               |
| SWZ 01  | BaP     | 71.5                             | 5.527                       | 3020               | 12.285                        | 19.791                   |          | 2       |                      | <b>9.896</b>        |
| SWZ 04  | As      | 23.20                            | 1.793                       | 9.79               | 0.040                         | 2.037                    | 22.01    | 5.5     | 0.093                | 0.370               |
| SWZ 04  | Cd      | 0.61                             | 0.047                       | 0.91               | 0.004                         | 0.057                    | 10.43    | 0.08    | 0.005                | 0.706               |
| SWZ 04  | Cu      | 21.60                            | 1.670                       | 201                | 0.818                         | 2.764                    | 52.26    | 2.3     | 0.053                | <b>1.202</b>        |
| SWZ 04  | Mn      | 11.30                            | 0.873                       | 244                | 0.993                         | 2.073                    | 776      | 77.6    | 0.003                | 0.027               |
| SWZ 04  | Hg      | 0.0025                           | 0.000                       | 0.45               | 0.002                         | 0.002                    | 0.18     | 0.039   | 0.012                | 0.058               |
| SWZ 04  | Ni      | 4.50                             | 0.348                       | 18.9               | 0.077                         | 0.472                    | 56.26    | 1.38    | 0.008                | 0.342               |
| SWZ 04  | Se      | 3.66                             | 0.283                       | 1                  | 0.004                         | 0.319                    | 0.93     | 0.23    | 0.343                | <b>1.386</b>        |
| SWZ 04  | Zn      | 201                              | 15.537                      | 457                | 1.859                         | 19.329                   | 172      | 17.2    | 0.112                | <b>1.124</b>        |
| SWZ 04  | Naph    | 15.2                             | 1.175                       | 31                 | 0.126                         | 1.446                    |          | 2.9     |                      | 0.498               |
| SWZ 04  | BaP     | 184                              | 14.223                      | 1300               | 5.288                         | 21.680                   |          | 2       |                      | <b>10.840</b>       |
| BST04   | As      | 26.10                            | 2.018                       | 13.3               | 0.054                         | 2.302                    | 22.01    | 5.5     | 0.105                | 0.419               |
| BST04   | Cd      | 1.12                             | 0.087                       | 1.07               | 0.004                         | 0.101                    | 10.43    | 0.08    | 0.010                | <b>1.263</b>        |
| BST04   | Cu      | 18.90                            | 1.461                       | 192                | 0.781                         | 2.491                    | 52.26    | 2.3     | 0.048                | <b>1.083</b>        |
| BST04   | Mn      | 15.40                            | 1.190                       | 308                | 1.253                         | 2.715                    | 776      | 77.6    | 0.003                | 0.035               |
| BST04   | Hg      | 0.0025                           | 0.000                       | 0.51               | 0.002                         | 0.003                    | 0.18     | 0.039   | 0.014                | 0.065               |
| BST04   | Ni      | 4.56                             | 0.352                       | 24.8               | 0.101                         | 0.504                    | 56.26    | 1.38    | 0.009                | 0.365               |
| BST04   | Se      | 4.13                             | 0.319                       | 1.43               | 0.006                         | 0.361                    | 0.93     | 0.23    | 0.388                | <b>1.570</b>        |
| BST04   | Zn      | 230                              | 17.779                      | 320                | 1.302                         | 21.201                   | 172      | 17.2    | 0.123                | <b>1.233</b>        |
| BST04   | Naph    | 4.3                              | 0.332                       | 20.2               | 0.082                         | 0.461                    |          | 2.9     |                      | 0.159               |
| BST04   | BaP     | 1380                             | 106.674                     | 2200               | 8.950                         | 128.471                  |          | 2       |                      | <b>64.235</b>       |
| BST07   | As      | 26.90                            | 2.079                       | 18                 | 0.073                         | 2.392                    | 22.01    | 5.5     | 0.109                | 0.435               |
| BST07   | Cd      | 0.60                             | 0.046                       | 0.55               | 0.002                         | 0.054                    | 10.43    | 0.08    | 0.005                | 0.675               |
| BST07   | Cu      | 18.30                            | 1.415                       | 247                | 1.005                         | 2.688                    | 52.26    | 2.3     | 0.051                | <b>1.169</b>        |
| BST07   | Mn      | 10.90                            | 0.843                       | 416                | 1.692                         | 2.817                    | 776      | 77.6    | 0.004                | 0.036               |
| BST07   | Hg      | 0.0025                           | 0.000                       | 0.5                | 0.002                         | 0.002                    | 0.18     | 0.039   | 0.014                | 0.063               |
| BST07   | Ni      | 3.35                             | 0.259                       | 28.7               | 0.117                         | 0.417                    | 56.26    | 1.38    | 0.007                | 0.303               |
| BST07   | Se      | 4.04                             | 0.312                       | 1.75               | 0.007                         | 0.355                    | 0.93     | 0.23    | 0.382                | <b>1.543</b>        |
| BST07   | Zn      | 181                              | 13.991                      | 353                | 1.436                         | 17.141                   | 172      | 17.2    | 0.100                | 0.997               |
| BST07   | Naph    | 0.50                             | 0.039                       | 6                  | 0.024                         | 0.070                    |          | 2.9     |                      | 0.024               |
| BST07   | BaP     | 1260                             | 97.398                      | 3090               | 12.570                        | 122.187                  |          | 2       |                      | <b>61.093</b>       |
| DAC 02  | As      | 30.30                            | 2.342                       | 17.7               | 0.072                         | 2.682                    | 22.01    | 5.5     | 0.122                | 0.488               |
| DAC 02  | Cd      | 0.62                             | 0.048                       | 0.83               | 0.003                         | 0.057                    | 10.43    | 0.08    | 0.005                | 0.713               |

|        |            |        |        |      |       |        |       |       |              |                |
|--------|------------|--------|--------|------|-------|--------|-------|-------|--------------|----------------|
| DAC 02 | Cu         | 21.80  | 1.685  | 238  | 0.968 | 2.948  | 52.26 | 2.3   | 0.056        | <b>1.282</b>   |
| DAC 02 | Mn         | 14.10  | 1.090  | 362  | 1.473 | 2.847  | 776   | 77.6  | 0.004        | 0.037          |
| DAC 02 | Hg         | 0.0025 | 0.000  | 0.53 | 0.002 | 0.003  | 0.18  | 0.039 | 0.015        | 0.067          |
| DAC 02 | Ni         | 4.09   | 0.316  | 33   | 0.134 | 0.500  | 56.26 | 1.38  | 0.009        | 0.363          |
| DAC 02 | Se         | 3.73   | 0.288  | 1.2  | 0.005 | 0.326  | 0.93  | 0.23  | 0.350        | <b>1.416</b>   |
| DAC 02 | Zn         | 189    | 14.610 | 341  | 1.387 | 17.774 | 172   | 17.2  | 0.103        | <b>1.033</b>   |
| DAC 02 | Total PCBs | 166.00 | 12.832 | 37.4 | 0.152 | 14.427 | 1.27  | 0.09  | <b>11.36</b> | <b>160.296</b> |
| DAC 02 | Naph       | 0.50   | 0.039  | 2.6  | 0.011 | 0.055  |       | 2.9   |              | 0.019          |
| DAC 02 | BaP        | 198    | 15.305 | 541  | 2.201 | 19.451 |       | 2     |              | <b>9.726</b>   |
| DAC 03 | As         | 27.50  | 2.126  | 14.4 | 0.059 | 2.427  | 22.01 | 5.5   | 0.110        | 0.441          |
| DAC 03 | Cd         | 0.45   | 0.035  | 0.72 | 0.003 | 0.042  | 10.43 | 0.08  | 0.004        | 0.524          |
| DAC 03 | Cu         | 17.30  | 1.337  | 180  | 0.732 | 2.299  | 52.26 | 2.3   | 0.044        | <b>1.000</b>   |
| DAC 03 | Mn         | 10.80  | 0.835  | 324  | 1.318 | 2.392  | 776   | 77.6  | 0.003        | 0.031          |
| DAC 03 | Hg         | 0.0025 | 0.000  | 0.47 | 0.002 | 0.002  | 0.18  | 0.039 | 0.013        | 0.060          |
| DAC 03 | Ni         | 5.57   | 0.431  | 48.2 | 0.196 | 0.696  | 56.26 | 1.38  | 0.012        | 0.505          |
| DAC 03 | Se         | 4.13   | 0.319  | 1    | 0.004 | 0.359  | 0.93  | 0.23  | 0.386        | <b>1.562</b>   |
| DAC 03 | Zn         | 173    | 13.373 | 282  | 1.147 | 16.133 | 172   | 17.2  | 0.094        | 0.938          |
| DAC 03 | Total PCBs | 949    | 73.358 | 347  | 1.412 | 83.077 | 1.27  | 0.09  | <b>65.42</b> | <b>923.078</b> |
| DAC 03 | Naph       | 13.5   | 1.044  | 8.2  | 0.033 | 1.197  |       | 2.9   |              | 0.413          |
| DAC 03 | BaP        | 184    | 14.223 | 1290 | 5.248 | 21.634 |       | 2     |              | <b>10.817</b>  |
| 2229   | As         | 24.70  | 1.909  | 4.53 | 0.018 | 2.142  | 22.01 | 5.5   | 0.097        | 0.389          |
| 2229   | Cd         | 0.42   | 0.032  | 0.12 | 0.000 | 0.037  | 10.43 | 0.08  | 0.004        | 0.458          |
| 2229   | Cu         | 23.60  | 1.824  | 39.3 | 0.160 | 2.205  | 52.26 | 2.3   | 0.042        | 0.959          |
| 2229   | Mn         | 13.50  | 1.044  | 126  | 0.513 | 1.729  | 776   | 77.6  | 0.002        | 0.022          |
| 2229   | Hg         | 0.0025 | 0.000  | 0.1  | 0.000 | 0.001  | 0.18  | 0.039 | 0.004        | 0.017          |
| 2229   | Ni         | 3.55   | 0.274  | 6.29 | 0.026 | 0.333  | 56.26 | 1.38  | 0.006        | 0.242          |
| 2229   | Se         | 3.47   | 0.268  | 0.22 | 0.001 | 0.299  | 0.93  | 0.23  | 0.322        | <b>1.300</b>   |
| 2229   | Zn         | 176    | 13.605 | 85.8 | 0.349 | 15.504 | 172   | 17.2  | 0.090        | 0.901          |
| 2229   | Naph       | 3.4    | 0.263  | 1    | 0.004 | 0.297  |       | 2.9   |              | 0.102          |
| 2229   | BaP        | 96.4   | 7.452  | 110  | 0.447 | 8.777  |       | 2     |              | <b>4.388</b>   |
| 2238   | As         | 25.00  | 1.933  | 6.75 | 0.027 | 2.178  | 22.01 | 5.5   | 0.099        | 0.396          |
| 2238   | Cd         | 0.60   | 0.046  | 0.19 | 0.001 | 0.052  | 10.43 | 0.08  | 0.005        | 0.655          |
| 2238   | Cu         | 18.80  | 1.453  | 69   | 0.281 | 1.927  | 52.26 | 2.3   | 0.037        | 0.838          |
| 2238   | Mn         | 16.30  | 1.260  | 242  | 0.984 | 2.494  | 776   | 77.6  | 0.003        | 0.032          |
| 2238   | Hg         | 0.0025 | 0.000  | 0.14 | 0.001 | 0.001  | 0.18  | 0.039 | 0.005        | 0.022          |
| 2238   | Ni         | 3.86   | 0.298  | 13.4 | 0.055 | 0.392  | 56.26 | 1.38  | 0.007        | 0.284          |
| 2238   | Se         | 3.69   | 0.285  | 0.43 | 0.002 | 0.319  | 0.93  | 0.23  | 0.343        | <b>1.386</b>   |
| 2238   | Zn         | 193    | 14.919 | 180  | 0.732 | 17.390 | 172   | 17.2  | 0.101        | <b>1.011</b>   |
| 2238   | Naph       | 23     | 1.793  | 1    | 0.004 | 1.997  |       | 2.9   |              | 0.689          |
| 2238   | BaP        | 1      | 0.039  | 17.5 | 0.071 | 0.122  |       | 2     |              | 0.061          |
| 2243   | As         | 27.10  | 2.095  | 5.28 | 0.021 | 2.351  | 22.01 | 5.5   | 0.107        | 0.428          |
| 2243   | Cd         | 0.36   | 0.028  | 0.23 | 0.001 | 0.032  | 10.43 | 0.08  | 0.003        | 0.399          |
| 2243   | Cu         | 16.30  | 1.260  | 50.6 | 0.206 | 1.629  | 52.26 | 2.3   | 0.031        | 0.708          |
| 2243   | Mn         | 9.69   | 0.749  | 186  | 0.757 | 1.673  | 776   | 77.6  | 0.002        | 0.022          |
| 2243   | Hg         | 0.0025 | 0.000  | 0.11 | 0.000 | 0.001  | 0.18  | 0.039 | 0.004        | 0.018          |
| 2243   | Ni         | 3.89   | 0.301  | 9.73 | 0.040 | 0.378  | 56.26 | 1.38  | 0.007        | 0.274          |
| 2243   | Se         | 3.53   | 0.273  | 0.25 | 0.001 | 0.304  | 0.93  | 0.23  | 0.327        | <b>1.323</b>   |

|      |      |        |        |      |       |        |       |       |       |              |
|------|------|--------|--------|------|-------|--------|-------|-------|-------|--------------|
| 2243 | Zn   | 142    | 10.977 | 107  | 0.435 | 12.680 | 172   | 17.2  | 0.074 | 0.737        |
| 2243 | Naph | 0.50   | 0.039  | 1    | 0.004 | 0.047  |       | 2.9   |       | 0.016        |
| 2243 | BaP  | 1      | 0.039  | 22.7 | 0.092 | 0.146  |       | 2     |       | 0.073        |
| 2433 | As   | 24.50  | 1.894  | 4.89 | 0.020 | 2.126  | 22.01 | 5.5   | 0.097 | 0.387        |
| 2433 | Cd   | 0.43   | 0.033  | 0.2  | 0.001 | 0.038  | 10.43 | 0.08  | 0.004 | 0.473        |
| 2433 | Cu   | 17.00  | 1.314  | 46.6 | 0.190 | 1.671  | 52.26 | 2.3   | 0.032 | 0.726        |
| 2433 | Mn   | 15.70  | 1.214  | 163  | 0.663 | 2.085  | 776   | 77.6  | 0.003 | 0.027        |
| 2433 | Hg   | 0.0025 | 0.000  | 0.09 | 0.000 | 0.001  | 0.18  | 0.039 | 0.003 | 0.016        |
| 2433 | Ni   | 4.01   | 0.310  | 8.64 | 0.035 | 0.383  | 56.26 | 1.38  | 0.007 | 0.278        |
| 2433 | Se   | 3.25   | 0.251  | 0.25 | 0.001 | 0.280  | 0.93  | 0.23  | 0.301 | <b>1.219</b> |
| 2433 | Zn   | 141    | 10.899 | 96.9 | 0.394 | 12.548 | 172   | 17.2  | 0.073 | 0.730        |
| 2433 | Naph | 0.50   | 0.039  | 1    | 0.004 | 0.047  |       | 2.9   |       | 0.016        |
| 2433 | BaP  | 44.4   | 3.432  | 51.1 | 0.208 | 4.044  |       | 2     |       | <b>2.022</b> |
| 2441 | As   | 27.40  | 2.118  | 10.5 | 0.043 | 2.401  | 22.01 | 5.5   | 0.109 | 0.437        |
| 2441 | Cd   | 1.33   | 0.103  | 0.43 | 0.002 | 0.116  | 10.43 | 0.08  | 0.011 | <b>1.452</b> |
| 2441 | Cu   | 11.10  | 0.858  | 106  | 0.431 | 1.432  | 52.26 | 2.3   | 0.027 | 0.623        |
| 2441 | Mn   | 7.16   | 0.553  | 352  | 1.432 | 2.206  | 776   | 77.6  | 0.003 | 0.028        |
| 2441 | Hg   | 0.0025 | 0.000  | 0.14 | 0.001 | 0.001  | 0.18  | 0.039 | 0.005 | 0.022        |
| 2441 | Ni   | 3.62   | 0.280  | 21   | 0.085 | 0.406  | 56.26 | 1.38  | 0.007 | 0.294        |
| 2441 | Se   | 4.15   | 0.321  | 2.21 | 0.009 | 0.366  | 0.93  | 0.23  | 0.394 | <b>1.593</b> |
| 2441 | Zn   | 182    | 14.069 | 170  | 0.692 | 16.400 | 172   | 17.2  | 0.095 | 0.953        |
| 2441 | Naph | 0.50   | 0.039  | 1    | 0.004 | 0.047  |       | 2.9   |       | 0.016        |
| 2441 | BaP  | 104    | 8.039  | 83.5 | 0.340 | 9.310  |       | 2     |       | <b>4.655</b> |

(a) Non-detected mercury concentrations were replaced with one-half the detection limit (0.0025)

(b) Calculated Macoma ingestion rate for 0.9 kg scaup is 0.0773 kg/day

(c) Calculated incidental sediment ingestion rate for 0.9 kg scaup is 0.004068 kg/day (5% of total food intake)

(d) Assumes a body mass of 0.9 kg

### Clam (*Macoma nasuta*) tissue chemistry vs. TRVs – August 2004

| Station | Analyte | Macoma concentration (mg/kg) (a) | Dose from Macoma (mg/d) (b) | Sediment concentration (mg/kg) | Dose from sediment (mg/d) (c) | Total Dose (mg/kg/d) (d) | TRV high | TRV low | dose: TRV high ratio | dose: TRV low ratio |
|---------|---------|----------------------------------|-----------------------------|--------------------------------|-------------------------------|--------------------------|----------|---------|----------------------|---------------------|
| SWZ 01  | As      | 29.1                             | 2.25                        | 9.81                           | 0.04                          | 2.54                     | 22.01    | 5.50    | 0.12                 | 0.46                |
| SWZ 01  | Cd      | 0.37                             | 0.03                        | 1.02                           | 0.00                          | 0.04                     | 10.43    | 0.08    | 0.00                 | 0.45                |
| SWZ 01  | Cu      | 19.7                             | 1.52                        | 128                            | 0.52                          | 2.27                     | 52.26    | 2.30    | 0.04                 | 0.99                |
| SWZ 01  | Mn      | 6.31                             | 0.49                        | 214                            | 0.87                          | 1.51                     | 776.00   | 77.60   | 0.00                 | 0.02                |
| SWZ 01  | Hg      | 0.09                             | 0.01                        | 0.85                           | 0.00                          | 0.01                     | 0.18     | 0.04    | 0.06                 | 0.30                |
| SWZ 01  | Ni      | 4.09                             | 0.32                        | 16.3                           | 0.07                          | 0.42                     | 56.26    | 1.38    | 0.01                 | 0.31                |
| SWZ 01  | Se      | 3.16                             | 0.24                        | 1.66                           | 0.01                          | 0.28                     | 0.93     | 0.23    | 0.30                 | <b>1.21</b>         |
| SWZ 01  | Zn      | 104                              | 8.04                        | 303                            | 1.23                          | 10.30                    | 172.00   | 17.20   | 0.06                 | 0.60                |
| SWZ 01  | Naph    | 0.50                             | 0.04                        | 3.7                            | 0.02                          | 0.06                     |          | 2.90    |                      | 0.02                |
| SWZ 01  | BaP     | 221.00                           | 17.08                       | 421                            | 1.71                          | 20.88                    |          | 2.00    |                      | <b>10.44</b>        |
| SWZ 04  | As      | 29.2                             | 2.26                        | 10.7                           | 0.04                          | 2.56                     | 22.01    | 5.50    | 0.12                 | 0.46                |
| SWZ 04  | Cd      | 0.27                             | 0.02                        | 0.79                           | 0.00                          | 0.03                     | 10.43    | 0.08    | 0.00                 | 0.33                |
| SWZ 04  | Cu      | 23.2                             | 1.79                        | 148                            | 0.60                          | 2.66                     | 52.26    | 2.30    | 0.05                 | <b>1.16</b>         |
| SWZ 04  | Mn      | 8.11                             | 0.63                        | 227                            | 0.92                          | 1.72                     | 776.00   | 77.6    | 0.00                 | 0.02                |
| SWZ 04  | Hg      | 0.09                             | 0.01                        | 0.91                           | 0.00                          | 0.01                     | 0.18     | 0.04    | 0.07                 | 0.30                |

|        |         |         |        |       |      |        |        |      |               |               |
|--------|---------|---------|--------|-------|------|--------|--------|------|---------------|---------------|
| SWZ 04 | Ni      | 6.67    | 0.52   | 17.7  | 0.07 | 0.65   | 56.26  | 1.38 | 0.01          | 0.47          |
| SWZ 04 | Se      | 3.42    | 0.26   | 1.73  | 0.01 | 0.30   | 0.93   | 0.23 | 0.32          | <b>1.31</b>   |
| SWZ 04 | Zn      | 114     | 8.81   | 338   | 1.37 | 11.32  | 172.00 | 17.2 | 0.07          | 0.66          |
| SWZ 04 | Naph    | 0.50    | 0.04   | 3.2   | 0.01 | 0.06   |        | 2.90 |               | 0.02          |
| SWZ 04 | BaP     | 124.00  | 9.59   | 526   | 2.14 | 13.03  |        | 2.00 |               | <b>6.51</b>   |
| BST04  | As      | 28.20   | 2.18   | 12.60 | 0.05 | 2.48   | 22.01  | 5.50 | 0.11          | 0.45          |
| BST04  | Cd      | 0.27    | 0.02   | 0.26  | 0.00 | 0.02   | 10.43  | 0.08 | 0.00          | 0.30          |
| BST04  | Cu      | 24.9    | 1.92   | 140   | 0.57 | 2.77   | 52.26  | 2.30 | 0.05          | <b>1.20</b>   |
| BST04  | Mn      | 10.5    | 0.81   | 281   | 1.14 | 2.17   | 776.00 | 77.6 | 0.00          | 0.03          |
| BST04  | Hg      | 0.09    | 0.01   | 0.89  | 0.00 | 0.01   | 0.18   | 0.04 | 0.07          | 0.30          |
| BST04  | Ni      | 3.74    | 0.29   | 17.9  | 0.07 | 0.40   | 56.26  | 1.38 | 0.01          | 0.29          |
| BST04  | Se      | 3.47    | 0.27   | 1.63  | 0.01 | 0.31   | 0.93   | 0.23 | 0.33          | <b>1.33</b>   |
| BST04  | Zn      | 96.8    | 7.48   | 208   | 0.85 | 9.25   | 172.00 | 17.2 | 0.05          | 0.54          |
| BST04  | Naph    | 0.50    | 0.04   | 2.1   | 0.01 | 0.05   |        | 2.90 |               | 0.02          |
| BST04  | BaP     | 1360.00 | 105.13 | 150   | 0.61 | 117.49 |        | 2.00 |               | <b>58.74</b>  |
| BST07  | As      | 23.9    | 1.85   | 11.4  | 0.05 | 2.10   | 22.01  | 5.50 | 0.10          | 0.38          |
| BST07  | Cd      | 0.27    | 0.02   | 0.24  | 0.00 | 0.02   | 10.43  | 0.08 | 0.00          | 0.30          |
| BST07  | Cu      | 15.3    | 1.18   | 144   | 0.59 | 1.96   | 52.26  | 2.30 | 0.04          | 0.85          |
| BST07  | Mn      | 6.84    | 0.53   | 259   | 1.05 | 1.76   | 776.00 | 77.6 | 0.00          | 0.02          |
| BST07  | Hg      | 0.09    | 0.01   | 0.89  | 0.00 | 0.01   | 0.18   | 0.04 | 0.07          | 0.30          |
| BST07  | Ni      | 3.46    | 0.27   | 17.3  | 0.07 | 0.38   | 56.26  | 1.38 | 0.01          | 0.27          |
| BST07  | Se      | 3.11    | 0.24   | 1.65  | 0.01 | 0.27   | 0.93   | 0.23 | 0.30          | <b>1.19</b>   |
| BST07  | Zn      | 95.9    | 7.41   | 210   | 0.85 | 9.19   | 172.00 | 17.2 | 0.05          | 0.53          |
| BST07  | Naph    | 0.50    | 0.04   | 2.1   | 0.01 | 0.05   |        | 2.90 |               | 0.02          |
| BST07  | BaP     | 4960.00 | 383.41 | 1570  | 6.39 | 433.11 |        | 2.00 |               | <b>216.55</b> |
| DAC 02 | As      | 20.10   | 1.55   | 14.7  | 0.06 | 1.79   | 22.01  | 5.50 | 0.08          | 0.33          |
| DAC 02 | Cd      | 0.42    | 0.03   | 0.53  | 0.00 | 0.04   | 10.43  | 0.08 | 0.00          | 0.48          |
| DAC 02 | Cu      | 14      | 1.08   | 180   | 0.73 | 2.02   | 52.26  | 2.30 | 0.04          | 0.88          |
| DAC 02 | Mn      | 6.02    | 0.47   | 288   | 1.17 | 1.82   | 776.00 | 77.6 | 0.00          | 0.02          |
| DAC 02 | Hg      | 0.08    | 0.01   | 1.39  | 0.01 | 0.01   | 0.18   | 0.04 | 0.07          | 0.34          |
| DAC 02 | Ni      | 3.34    | 0.26   | 24.6  | 0.10 | 0.40   | 56.26  | 1.38 | 0.01          | 0.29          |
| DAC 02 | Se      | 3.43    | 0.27   | 1.75  | 0.01 | 0.30   | 0.93   | 0.23 | 0.33          | <b>1.32</b>   |
| DAC 02 | Zn      | 86.9    | 6.72   | 265   | 1.08 | 8.66   | 172.00 | 17.2 | 0.05          | 0.50          |
| DAC 02 | TotPCBs | 313.00  | 24.19  | 10.00 | 0.04 | 26.93  | 1.27   | 0.09 | <b>21.20</b>  | <b>299.20</b> |
| DAC 02 | Naph    | 0.50    | 0.04   | 1.00  | 0.00 | 0.05   |        | 2.90 |               | 0.02          |
| DAC 02 | BaP     | 412.00  | 31.85  | 150   | 0.61 | 36.06  |        | 2.00 |               | <b>18.03</b>  |
| DAC 03 | As      | 19.3    | 1.49   | 14.2  | 0.06 | 1.72   | 22.01  | 5.50 | 0.08          | 0.31          |
| DAC 03 | Cd      | 0.24    | 0.02   | 0.41  | 0.00 | 0.02   | 10.43  | 0.08 | 0.00          | 0.28          |
| DAC 03 | Cu      | 12.8    | 0.99   | 160   | 0.65 | 1.82   | 52.26  | 2.30 | 0.03          | 0.79          |
| DAC 03 | Mn      | 8.45    | 0.65   | 282   | 1.15 | 2.00   | 776.00 | 77.6 | 0.00          | 0.03          |
| DAC 03 | Hg      | 0.08    | 0.01   | 1.2   | 0.00 | 0.01   | 0.18   | 0.04 | 0.07          | 0.32          |
| DAC 03 | Ni      | 4.94    | 0.38   | 43.2  | 0.18 | 0.62   | 56.26  | 1.38 | 0.01          | 0.45          |
| DAC 03 | Se      | 3.03    | 0.23   | 1.65  | 0.01 | 0.27   | 0.93   | 0.23 | 0.29          | <b>1.16</b>   |
| DAC 03 | Zn      | 82.1    | 6.35   | 242   | 0.98 | 8.15   | 172.00 | 17.2 | 0.05          | 0.47          |
| DAC 03 | TotPCBs | 1660.00 | 128.32 | 68.40 | 0.28 | 142.88 | 1.27   | 0.09 | <b>112.51</b> | <b>1587.6</b> |
| DAC 03 | Naph    | 0.50    | 0.04   | 11.5  | 0.05 | 0.09   |        | 2.90 |               | 0.03          |
| DAC 03 | BaP     | 235.00  | 18.17  | 740   | 3.01 | 23.53  |        | 2.00 |               | <b>11.76</b>  |
| 2229   | As      | 18.4    | 1.42   | 5.86  | 0.02 | 1.61   | 22.01  | 5.50 | 0.07          | 0.29          |
| 2229   | Cd      | 0.23    | 0.02   | 0.08  | 0.00 | 0.02   | 10.43  | 0.08 | 0.00          | 0.25          |
| 2229   | Cu      | 15.7    | 1.21   | 47.1  | 0.19 | 1.56   | 52.26  | 2.30 | 0.03          | 0.68          |
| 2229   | Mn      | 12.5    | 0.97   | 139   | 0.57 | 1.70   | 776.00 | 77.6 | 0.00          | 0.02          |
| 2229   | Hg      | 0.08    | 0.01   | 0.48  | 0.00 | 0.01   | 0.18   | 0.04 | 0.05          | 0.23          |
| 2229   | Ni      | 4.08    | 0.32   | 7.14  | 0.03 | 0.38   | 56.26  | 1.38 | 0.01          | 0.28          |
| 2229   | Se      | 3.32    | 0.26   | 0.66  | 0.00 | 0.29   | 0.93   | 0.23 | 0.31          | <b>1.25</b>   |
| 2229   | Zn      | 75.5    | 5.84   | 92.2  | 0.38 | 6.90   | 172.00 | 17.2 | 0.04          | 0.40          |
| 2229   | Naph    | 0.50    | 0.04   | 1.00  | 0.00 | 0.05   |        | 2.90 |               | 0.02          |
| 2229   | BaP     | 168.00  | 12.99  | 184   | 0.75 | 15.26  |        | 2.00 |               | <b>7.63</b>   |
| 2238   | As      | 17      | 1.31   | 8.51  | 0.03 | 1.50   | 22.01  | 5.50 | 0.07          | 0.27          |
| 2238   | Cd      | 0.23    | 0.02   | 0.17  | 0.00 | 0.02   | 10.43  | 0.08 | 0.00          | 0.26          |
| 2238   | Cu      | 13.2    | 1.02   | 70    | 0.28 | 1.45   | 52.26  | 2.30 | 0.03          | 0.63          |
| 2238   | Mn      | 15.1    | 1.17   | 274   | 1.11 | 2.54   | 776.00 | 77.6 | 0.00          | 0.03          |
| 2238   | Hg      | 0.08    | 0.01   | 0.45  | 0.00 | 0.01   | 0.18   | 0.04 | 0.05          | 0.23          |
| 2238   | Ni      | 3.43    | 0.27   | 14.1  | 0.06 | 0.36   | 56.26  | 1.38 | 0.01          | 0.26          |
| 2238   | Se      | 3.97    | 0.31   | 1.21  | 0.00 | 0.35   | 0.93   | 0.23 | 0.37          | <b>1.51</b>   |
| 2238   | Zn      | 88.8    | 6.86   | 184   | 0.75 | 8.46   | 172.00 | 17.2 | 0.05          | 0.49          |
| 2238   | Naph    | 0.50    | 0.04   | 1.00  | 0.00 | 0.05   |        | 2.90 |               | 0.02          |

|      |      |        |       |      |      |       |        |      |      |             |
|------|------|--------|-------|------|------|-------|--------|------|------|-------------|
| 2238 | BaP  | 0.50   | 0.04  | 8.1  | 0.03 | 0.08  |        | 2.00 |      | 0.04        |
| 2243 | As   | 16.1   | 1.24  | 5.71 | 0.02 | 1.41  | 22.01  | 5.50 | 0.06 | 0.26        |
| 2243 | Cd   | 0.25   | 0.02  | 0.08 | 0.00 | 0.02  | 10.43  | 0.08 | 0.00 | 0.27        |
| 2243 | Cu   | 14.2   | 1.10  | 56   | 0.23 | 1.47  | 52.26  | 2.30 | 0.03 | 0.64        |
| 2243 | Mn   | 9.68   | 0.75  | 134  | 0.55 | 1.44  | 776.00 | 77.6 | 0.00 | 0.02        |
| 2243 | Hg   | 0.08   | 0.01  | 0.41 | 0.00 | 0.01  | 0.18   | 0.04 | 0.05 | 0.22        |
| 2243 | Ni   | 3.89   | 0.30  | 7.1  | 0.03 | 0.37  | 56.26  | 1.38 | 0.01 | 0.27        |
| 2243 | Se   | 3.71   | 0.29  | 0.78 | 0.00 | 0.32  | 0.93   | 0.23 | 0.35 | <b>1.40</b> |
| 2243 | Zn   | 75.6   | 5.84  | 108  | 0.44 | 6.98  | 172.00 | 17.2 | 0.04 | 0.41        |
| 2243 | Naph | 0.50   | 0.04  | 20.6 | 0.08 | 0.14  |        | 2.90 |      | 0.05        |
| 2243 | BaP  | 0.50   | 0.04  | 1.00 | 0.00 | 0.05  |        | 2.00 |      | 0.02        |
| 2433 | As   | 19.10  | 1.48  | 5.92 | 0.02 | 1.67  | 22.01  | 5.50 | 0.08 | 0.30        |
| 2433 | Cd   | 0.25   | 0.02  | 0.21 | 0.00 | 0.02  | 10.43  | 0.08 | 0.00 | 0.28        |
| 2433 | Cu   | 17.7   | 1.37  | 47.2 | 0.19 | 1.73  | 52.26  | 2.30 | 0.03 | 0.75        |
| 2433 | Mn   | 17.7   | 1.37  | 178  | 0.72 | 2.32  | 776.00 | 77.6 | 0.00 | 0.03        |
| 2433 | Hg   | 0.08   | 0.01  | 0.39 | 0.00 | 0.01  | 0.18   | 0.04 | 0.05 | 0.22        |
| 2433 | Ni   | 4.34   | 0.34  | 8.61 | 0.04 | 0.41  | 56.26  | 1.38 | 0.01 | 0.30        |
| 2433 | Se   | 3.93   | 0.30  | 0.88 | 0.00 | 0.34  | 0.93   | 0.23 | 0.37 | <b>1.48</b> |
| 2433 | Zn   | 83.5   | 6.45  | 100  | 0.41 | 7.62  | 172.00 | 17.2 | 0.04 | 0.44        |
| 2433 | Naph | 0.50   | 0.04  | 13.5 | 0.05 | 0.10  |        | 2.90 |      | 0.04        |
| 2433 | BaP  | 0.50   | 0.04  | 531  | 2.16 | 2.44  |        | 2.00 |      | <b>1.22</b> |
| 2441 | As   | 21.2   | 1.64  | 9.89 | 0.04 | 1.87  | 22.01  | 5.50 | 0.08 | 0.34        |
| 2441 | Cd   | 0.24   | 0.02  | 0.43 | 0.00 | 0.02  | 10.43  | 0.08 | 0.00 | 0.28        |
| 2441 | Cu   | 14.6   | 1.13  | 95   | 0.39 | 1.68  | 52.26  | 2.30 | 0.03 | 0.73        |
| 2441 | Mn   | 9.62   | 0.74  | 303  | 1.23 | 2.20  | 776.00 | 77.6 | 0.00 | 0.03        |
| 2441 | Hg   | 0.08   | 0.01  | 0.48 | 0.00 | 0.01  | 0.18   | 0.04 | 0.05 | 0.23        |
| 2441 | Ni   | 4.93   | 0.38  | 17.3 | 0.07 | 0.50  | 56.26  | 1.38 | 0.01 | 0.36        |
| 2441 | Se   | 4.21   | 0.33  | 2.2  | 0.01 | 0.37  | 0.93   | 0.23 | 0.40 | <b>1.62</b> |
| 2441 | Zn   | 68.4   | 5.29  | 147  | 0.60 | 6.54  | 172.00 | 17.2 | 0.04 | 0.38        |
| 2441 | Naph | 0.50   | 0.04  | 1.00 | 0.00 | 0.05  |        | 2.90 |      | 0.02        |
| 2441 | BaP  | 157.00 | 12.14 | 30.5 | 0.12 | 13.62 |        | 2.00 |      | <b>6.81</b> |

Clam (*Macoma nasuta*) tissue chemistry vs. TRVs – October 2004

| Station | Analyte     | Macoma concentration (mg/kg) (a) | Dose from Macoma (mg/d) (b) | Sed concen (mg/kg) | Dose from sediment (mg/d) (c) | Total Dose (mg/kg/d) (d) | TRV high | TRV low | dose: TRV high ratio | dose: TRV low ratio |
|---------|-------------|----------------------------------|-----------------------------|--------------------|-------------------------------|--------------------------|----------|---------|----------------------|---------------------|
| SWZ 01  | Arsenic     | 23.3                             | 1.801                       | 9.26               | 0.038                         | 2.043                    | 22.01    | 5.5     | 0.093                | 0.371               |
| SWZ 01  | Cadmium (   | 0.37                             | 0.029                       | 0.69               | 0.003                         | 0.035                    | 10.43    | 0.08    | 0.003                | 0.436               |
| SWZ 01  | Copper      | 20.6                             | 1.592                       | 178                | 0.724                         | 2.574                    | 52.26    | 2.3     | 0.049                | <b>1.119</b>        |
| SWZ 01  | Manganese   | 9.34                             | 0.722                       | 267                | 1.086                         | 2.009                    | 776      | 77.6    | 0.003                | 0.026               |
| SWZ 01  | Mercury     | 0.025                            | 0.002                       | 0.5                | 0.002                         | 0.004                    | 0.18     | 0.04    | 0.024                | 0.113               |
| SWZ 01  | Nickel (Ni) | 4.11                             | 0.318                       | 20.3               | 0.083                         | 0.445                    | 56.26    | 1.38    | 0.008                | 0.322               |
| SWZ 01  | Selenium (  | 4.95                             | 0.383                       | 1.03               | 0.004                         | 0.430                    | 0.93     | 0.23    | 0.462                | <b>1.869</b>        |
| SWZ 01  | Zinc        | 106                              | 8.194                       | 322                | 1.310                         | 10.560                   | 172      | 17.2    | 0.061                | 0.614               |
| SWZ 01  | Napth       | 30.2                             | 2.334                       | 22.5               | 0.092                         | 2.696                    |          | 2.9     |                      | 0.929               |
| SWZ 01  | BaP         | 133                              | 10.281                      | 349                | 1.420                         | 13.001                   |          | 2       |                      | <b>6.500</b>        |
| SWZ 04  | Arsenic     | 22.9                             | 1.770                       | 7.96               | 0.032                         | 2.003                    | 22.01    | 5.5     | 0.091                | 0.364               |
| SWZ 04  | Cadmium (   | 0.46                             | 0.036                       | 0.67               | 0.003                         | 0.043                    | 10.43    | 0.08    | 0.004                | 0.532               |
| SWZ 04  | Copper      | 30.9                             | 2.389                       | 296                | 1.204                         | 3.992                    | 52.26    | 2.3     | 0.076                | <b>1.736</b>        |
| SWZ 04  | Manganese   | 9.56                             | 0.739                       | 207                | 0.842                         | 1.757                    | 776      | 77.6    | 0.002                | 0.023               |
| SWZ 04  | Mercury     | 0.025                            | 0.002                       | 0.69               | 0.003                         | 0.005                    | 0.18     | 0.04    | 0.029                | 0.135               |
| SWZ 04  | Nickel (Ni) | 4.64                             | 0.359                       | 15.8               | 0.064                         | 0.470                    | 56.26    | 1.38    | 0.008                | 0.341               |
| SWZ 04  | Selenium    | 4.64                             | 0.359                       | 0.69               | 0.003                         | 0.402                    | 0.93     | 0.23    | 0.432                | <b>1.746</b>        |
| SWZ 04  | Zinc        | 110                              | 8.503                       | 357                | 1.452                         | 11.061                   | 172      | 17.2    | 0.064                | 0.643               |
| SWZ 04  | Napth       | 29.3                             | 2.265                       | 18.6               | 0.076                         | 2.601                    |          | 2.9     |                      | 0.897               |
| SWZ 04  | BaP         | 279                              | 21.567                      | 327                | 1.330                         | 25.441                   |          | 2       |                      | <b>12.72</b>        |
| BST04   | Arsenic     | 26                               | 2.010                       | 12.9               | 0.052                         | 2.291                    | 22.01    | 5.5     | 0.104                | 0.417               |
| BST04   | Cadmium     | 0.49                             | 0.038                       | 0.48               | 0.002                         | 0.044                    | 10.43    | 0.08    | 0.004                | 0.553               |
| BST04   | Copper      | 20                               | 1.546                       | 227                | 0.923                         | 2.744                    | 52.26    | 2.3     | 0.053                | <b>1.193</b>        |
| BST04   | Manganese   | 6.83                             | 0.528                       | 344                | 1.399                         | 2.142                    | 776      | 77.6    | 0.003                | 0.028               |
| BST04   | Mercury     | 0.025                            | 0.002                       | 0.64               | 0.003                         | 0.005                    | 0.18     | 0.04    | 0.028                | 0.129               |
| BST04   | Nickel      | 5.07                             | 0.392                       | 24.8               | 0.101                         | 0.548                    | 56.26    | 1.38    | 0.010                | 0.397               |
| BST04   | Selenium    | 3.71                             | 0.287                       | 1.23               | 0.005                         | 0.324                    | 0.93     | 0.23    | 0.349                | <b>1.410</b>        |
| BST04   | Zinc        | 131                              | 10.126                      | 320                | 1.302                         | 12.698                   | 172      | 17.2    | 0.074                | 0.738               |
| BST04   | Total PCBs  | 80.3                             | 6.207                       | 0.5                | 0.002                         | 6.899                    | 1.27     | 0.09    | <b>5.432</b>         | <b>76.66</b>        |
| BST04   | Napth       | 43.2                             | 3.339                       | 11.2               | 0.046                         | 3.761                    |          | 2.9     |                      | <b>1.297</b>        |
| BST04   | BaP         | 1280                             | 98.944                      | 624                | 2.538                         | 112.758                  |          | 2       |                      | <b>56.38</b>        |
| BST07   | Arsenic     | 26.7                             | 2.064                       | 14.4               | 0.059                         | 2.358                    | 22.01    | 5.5     | 0.107                | 0.429               |
| BST07   | Cadmium     | 0.38                             | 0.029                       | 0.4                | 0.002                         | 0.034                    | 10.43    | 0.08    | 0.003                | 0.431               |
| BST07   | Copper      | 18.7                             | 1.446                       | 193                | 0.785                         | 2.478                    | 52.26    | 2.3     | 0.047                | <b>1.078</b>        |
| BST07   | Manganese   | 6.98                             | 0.540                       | 294                | 1.196                         | 1.928                    | 776      | 77.6    | 0.002                | 0.025               |
| BST07   | Mercury     | 0.025                            | 0.002                       | 0.54               | 0.002                         | 0.005                    | 0.18     | 0.04    | 0.025                | 0.118               |
| BST07   | Nickel (Ni) | 4.06                             | 0.314                       | 20.6               | 0.084                         | 0.442                    | 56.26    | 1.38    | 0.008                | 0.320               |
| BST07   | Selenium    | 4.43                             | 0.342                       | 1.37               | 0.006                         | 0.387                    | 0.93     | 0.23    | 0.416                | <b>1.681</b>        |
| BST07   | Zinc        | 109                              | 8.426                       | 287                | 1.168                         | 10.659                   | 172      | 17.2    | 0.062                | 0.620               |
| BST07   | Total PCBs  | 147                              | 11.363                      | 0.5                | 0.002                         | 12.628                   | 1.27     | 0.09    | <b>9.943</b>         | <b>140.3</b>        |
| BST07   | Napth       | 42.7                             | 3.301                       | 6.9                | 0.028                         | 3.699                    |          | 2.9     |                      | <b>1.275</b>        |
| BST07   | BaP         | 3830                             | 296.059                     | 1650               | 6.712                         | 336.412                  |          | 2       |                      | <b>168.2</b>        |
| DAC 02  | Arsenic     | 27.3                             | 2.110                       | 10.6               | 0.043                         | 2.393                    | 22.01    | 5.5     | 0.109                | 0.435               |
| DAC 02  | Cadmium     | 0.39                             | 0.030                       | 0.37               | 0.002                         | 0.035                    | 10.43    | 0.08    | 0.003                | 0.440               |
| DAC 02  | Copper      | 19.1                             | 1.476                       | 174                | 0.708                         | 2.427                    | 52.26    | 2.3     | 0.046                | <b>1.055</b>        |
| DAC 02  | Manganese   | 7.14                             | 0.552                       | 241                | 0.980                         | 1.703                    | 776      | 77.6    | 0.002                | 0.022               |
| DAC 02  | Mercury     | 0.025                            | 0.002                       | 0.47               | 0.002                         | 0.004                    | 0.18     | 0.04    | 0.024                | 0.110               |
| DAC 02  | Nickel      | 4.15                             | 0.321                       | 23                 | 0.094                         | 0.460                    | 56.26    | 1.38    | 0.008                | 0.334               |
| DAC 02  | Selenium    | 4.54                             | 0.351                       | 1.09               | 0.004                         | 0.395                    | 0.93     | 0.23    | 0.425                | <b>1.717</b>        |
| DAC 02  | Zinc        | 112                              | 8.658                       | 216                | 0.879                         | 10.596                   | 172      | 17.2    | 0.062                | 0.616               |
| DAC 02  | Total PCBs  | 415                              | 32.080                      | 36.3               | 0.148                         | 35.808                   | 1.27     | 0.090   | 28.195               | <b>397.9</b>        |
| DAC 02  | Napth       | 24.7                             | 1.909                       | 4.11               | 0.017                         | 2.140                    |          | 2.9     |                      | 0.738               |
| DAC 02  | BaP         | 226                              | 17.470                      | 217                | 0.883                         | 20.392                   |          | 2       |                      | <b>10.20</b>        |
| DAC 03  | Arsenic     | 25.9                             | 2.002                       | 13.2               | 0.054                         | 2.284                    | 22.01    | 5.5     | 0.104                | 0.415               |
| DAC 03  | Cadmium     | 0.36                             | 0.028                       | 0.53               | 0.002                         | 0.033                    | 10.43    | 0.08    | 0.003                | 0.416               |
| DAC 03  | Copper      | 19.8                             | 1.531                       | 178                | 0.724                         | 2.505                    | 52.26    | 2.3     | 0.048                | <b>1.089</b>        |

|        |            |        |         |      |       |         |       |      |               |               |
|--------|------------|--------|---------|------|-------|---------|-------|------|---------------|---------------|
| DAC 03 | Manganese  | 9.96   | 0.770   | 316  | 1.285 | 2.284   | 776   | 77.6 | 0.003         | 0.029         |
| DAC 03 | Mercury    | 0.025  | 0.002   | 0.53 | 0.002 | 0.005   | 0.18  | 0.04 | 0.025         | 0.116         |
| DAC 03 | Nickel     | 5.48   | 0.424   | 46.5 | 0.189 | 0.681   | 56.26 | 1.38 | 0.012         | 0.493         |
| DAC 03 | Selenium   | 3.68   | 0.284   | 0.96 | 0.004 | 0.320   | 0.93  | 0.23 | 0.345         | <b>1.393</b>  |
| DAC 03 | Zinc       | 122    | 9.431   | 263  | 1.070 | 11.667  | 172   | 17.2 | 0.068         | 0.678         |
| DAC 03 | Total PCBs | 3480   | 269.004 | 150  | 0.610 | 299.571 | 1.27  | 0.09 | <b>235.88</b> | <b>3328.6</b> |
| DAC 03 | Napth      | 0.5    | 0.039   | 7.6  | 0.031 | 0.077   |       | 2.9  |               | 0.027         |
| DAC 03 | BaP        | 178    | 13.759  | 161  | 0.655 | 16.016  |       | 2    |               | <b>8.008</b>  |
| 2229   | Arsenic    | 22.5   | 1.739   | 5.49 | 0.022 | 1.957   | 22.01 | 5.5  | 0.089         | 0.356         |
| 2229   | Cadmium    | 0.39   | 0.030   | 0.23 | 0.001 | 0.035   | 10.43 | 0.08 | 0.003         | 0.432         |
| 2229   | Copper     | 19.6   | 1.515   | 44.7 | 0.182 | 1.885   | 52.26 | 2.3  | 0.036         | 0.820         |
| 2229   | Manganese  | 13.8   | 1.067   | 138  | 0.561 | 1.809   | 776   | 77.6 | 0.002         | 0.023         |
| 2229   | Mercury    | 0.2    | 0.015   | 0.24 | 0.001 | 0.018   | 0.18  | 0.04 | 0.101         | 0.468         |
| 2229   | Nickel     | 4.22   | 0.326   | 6.89 | 0.028 | 0.394   | 56.26 | 1.38 | 0.007         | 0.285         |
| 2229   | Selenium   | 2.65   | 0.205   | 0.4  | 0.002 | 0.229   | 0.93  | 0.23 | 0.247         | 0.997         |
| 2229   | Zinc       | 109    | 8.426   | 125  | 0.509 | 9.927   | 172   | 17.2 | 0.058         | 0.577         |
| 2229   | Napth      | 0.5    | 0.039   | 2.3  | 0.009 | 0.053   |       | 2.9  |               | 0.018         |
| 2229   | BaP        | 75     | 5.798   | 22   | 0.089 | 6.541   |       | 2    |               | <b>3.271</b>  |
| 2238   | Arsenic    | 21.1   | 1.631   | 7.05 | 0.029 | 1.844   | 22.01 | 5.5  | 0.084         | 0.335         |
| 2238   | Cadmium    | 0.44   | 0.034   | 0.18 | 0.001 | 0.039   | 10.43 | 0.08 | 0.004         | 0.483         |
| 2238   | Copper     | 17.1   | 1.322   | 70.9 | 0.288 | 1.789   | 52.26 | 2.3  | 0.034         | 0.778         |
| 2238   | Manganese  | 12.4   | 0.959   | 276  | 1.123 | 2.313   | 776   | 77.6 | 0.003         | 0.030         |
| 2238   | Mercury    | 0.09   | 0.007   | 0.23 | 0.001 | 0.009   | 0.18  | 0.04 | 0.049         | 0.225         |
| 2238   | Nickel     | 3.85   | 0.298   | 13.8 | 0.056 | 0.393   | 56.26 | 1.38 | 0.007         | 0.285         |
| 2238   | Selenium   | 2.8    | 0.216   | 0.65 | 0.003 | 0.243   | 0.93  | 0.23 | 0.262         | <b>1.058</b>  |
| 2238   | Zinc       | 103    | 7.962   | 177  | 0.720 | 9.647   | 172   | 17.2 | 0.056         | 0.561         |
| 2238   | Napth      | 0.5    | 0.039   | 1.3  | 0.005 | 0.049   |       | 2.9  |               | 0.017         |
| 2238   | BaP        | 0.5    | 0.039   | 3.2  | 0.013 | 0.057   |       | 2    |               | 0.029         |
| 2243   | Arsenic    | 26.9   | 2.079   | 4.63 | 0.019 | 2.331   | 22.01 | 5.5  | 0.106         | 0.424         |
| 2243   | Cadmium    | 0.39   | 0.030   | 0.09 | 0.000 | 0.034   | 10.43 | 0.08 | 0.003         | 0.424         |
| 2243   | Copper     | 17.5   | 1.353   | 63.9 | 0.260 | 1.792   | 52.26 | 2.3  | 0.034         | 0.779         |
| 2243   | Manganese  | 9.4    | 0.727   | 147  | 0.598 | 1.472   | 776   | 77.6 | 0.002         | 0.019         |
| 2243   | Mercury    | 0.0025 | 0.000   | 0.24 | 0.001 | 0.001   | 0.18  | 0.04 | 0.007         | 0.033         |
| 2243   | Nickel     | 4.36   | 0.337   | 7.73 | 0.031 | 0.409   | 56.26 | 1.38 | 0.007         | 0.297         |
| 2243   | Selenium   | 4.36   | 0.337   | 0.33 | 0.001 | 0.376   | 0.93  | 0.23 | 0.404         | <b>1.635</b>  |
| 2243   | Zinc       | 128    | 9.894   | 107  | 0.435 | 11.477  | 172   | 17.2 | 0.067         | 0.667         |
| 2243   | Napth      | 0.5    | 0.039   | 1    | 0.004 | 0.047   |       | 2.9  |               | 0.016         |
| 2243   | BaP        | 42.2   | 3.262   | 4.2  | 0.017 | 3.643   |       | 2    |               | <b>1.822</b>  |
| 2433   | Arsenic    | 22.5   | 1.739   | 4.7  | 0.019 | 1.954   | 22.01 | 5.5  | 0.089         | 0.355         |
| 2433   | Cadmium    | 0.4    | 0.031   | 0.23 | 0.001 | 0.035   | 10.43 | 0.08 | 0.003         | 0.442         |
| 2433   | Copper     | 21     | 1.623   | 47.2 | 0.192 | 2.017   | 52.26 | 2.3  | 0.039         | 0.877         |
| 2433   | Manganese  | 13.6   | 1.051   | 178  | 0.724 | 1.973   | 776   | 77.6 | 0.003         | 0.025         |
| 2433   | Mercury    | 0.08   | 0.006   | 0.19 | 0.001 | 0.008   | 0.18  | 0.04 | 0.043         | 0.198         |
| 2433   | Nickel     | 4.17   | 0.322   | 8.35 | 0.034 | 0.396   | 56.26 | 1.38 | 0.007         | 0.287         |
| 2433   | Selenium   | 3.39   | 0.262   | 0.42 | 0.002 | 0.293   | 0.93  | 0.23 | 0.315         | <b>1.274</b>  |
| 2433   | Zinc       | 137    | 10.590  | 94.9 | 0.386 | 12.196  | 172   | 17.2 | 0.071         | 0.709         |
| 2433   | Napth      | 0.5    | 0.039   | 1    | 0.004 | 0.047   |       | 2.9  |               | 0.016         |
| 2433   | BaP        | 65.1   | 5.032   | 14.8 | 0.060 | 5.658   |       | 2    |               | <b>2.829</b>  |
| 2441   | Arsenic    | 25.7   | 1.987   | 12.5 | 0.051 | 2.264   | 22.01 | 5.5  | 0.103         | 0.412         |
| 2441   | Cadmium    | 0.36   | 0.028   | 0.55 | 0.002 | 0.033   | 10.43 | 0.08 | 0.003         | 0.418         |
| 2441   | Copper     | 17     | 1.314   | 162  | 0.659 | 2.192   | 52.26 | 2.3  | 0.042         | 0.953         |
| 2441   | Manganese  | 9.25   | 0.715   | 463  | 1.883 | 2.887   | 776   | 77.6 | 0.004         | 0.037         |
| 2441   | Mercury    | 0.0025 | 0.000   | 0.42 | 0.002 | 0.002   | 0.18  | 0.04 | 0.012         | 0.054         |
| 2441   | Nickel     | 3.9    | 0.301   | 25.8 | 0.105 | 0.452   | 56.26 | 1.38 | 0.008         | 0.327         |
| 2441   | Selenium   | 4.08   | 0.315   | 2.64 | 0.011 | 0.362   | 0.93  | 0.23 | 0.390         | <b>1.575</b>  |
| 2441   | Zinc       | 110    | 8.503   | 222  | 0.903 | 10.451  | 172   | 17.2 | 0.061         | 0.608         |
| 2441   | Napth      | 19.9   | 1.538   | 2.5  | 0.010 | 1.720   |       | 2.9  |               | 0.593         |
| 2441   | BaP        | 29.9   | 2.311   | 39.6 | 0.161 | 2.747   |       | 2    |               | <b>1.374</b>  |

Appendix G. Constituents that were measured in marine sediments for temporal assessment studies in San Diego Bay.

| GENERAL<br>CONSTITUENTS                              |  | PCB Congeners <sup>a</sup>          |
|------------------------------------------------------|--|-------------------------------------|
| Sediment grain size                                  |  | MDL = 0.01-1 (ng/g dry wt.)         |
| Total organic carbon                                 |  |                                     |
|                                                      |  |                                     |
| <b>Metals</b>                                        |  | <b>CHORINATED PESTICIDES</b>        |
| MDL = 0.1 (ug/g dry wt.)<br>except Cd, Ag, Hg = 0.02 |  | MDL = 0.1-2 (ng/g dry wt.)          |
| Aluminum                                             |  | 4,4'-DDT                            |
| Antimony                                             |  | 2,4'-DDT                            |
| Arsenic                                              |  | 4,4'-DDD                            |
| Barium                                               |  | 2,4'-DDD                            |
| Beryllium                                            |  | 4,4'-DDE                            |
| Cadmium                                              |  | 2,4'-DDE                            |
| Chromium                                             |  | Dieldrin                            |
| Copper                                               |  | Cis & trans-Chlordane; Oxychlordane |
| Iron                                                 |  | Cis & trans Nonachlor               |
| Lead                                                 |  | <b>PAHs</b>                         |
| Mercury                                              |  | MDL = 0.7-2.8 (ng/g dry wt.)        |
| Nickel                                               |  | Acenaphthene                        |
| Selenium                                             |  | Acenaphthylene                      |
| Silver                                               |  | Anthracene                          |
| Zinc                                                 |  | Benz[a]anthracene                   |
|                                                      |  | Benzo[a]pyrene                      |
|                                                      |  | Benzo[b]fluoranthene                |
|                                                      |  | Benzo[e]pyrene                      |
|                                                      |  | Benzo[g,h,i]perylene                |
|                                                      |  | Benzo[k]fluoranthene                |
|                                                      |  | Biphenyl                            |
|                                                      |  | Chrysene                            |
|                                                      |  | Dibenz[a,h]anthracene               |
|                                                      |  | Fluoranthene                        |
|                                                      |  | Fluorene                            |
|                                                      |  | Indeno(1,2,3-c,d)pyrene             |
|                                                      |  | Naphthalene                         |
|                                                      |  | Perylene                            |
|                                                      |  | Phenanthrene                        |
|                                                      |  | Pyrene                              |
|                                                      |  | 2,6-Dimethylnaphthalene             |
|                                                      |  | 1-Methylnaphthalene                 |
|                                                      |  | 2-Methylnaphthalene                 |
|                                                      |  | 1-Methylphenanthrene                |
|                                                      |  | 1,6,7-Trimethylnaphthalene          |

<sup>a</sup>Congeners 18, 28, 37, 44, 49, 52, 66, 70, 74, 77, 81, 87, 99, 101, 105, 110, 114, 118, 119, 123, 126, 128, 138, 149, 151, 153, 156, 157, 158, 167, 168, 169, 170, 177, 180, 183, 187, 189, 194, 201, 206.

| <b>Metal</b> | <b>Minimum Detection Limit (ug/g dry wt.)</b> |
|--------------|-----------------------------------------------|
| Aluminum     | 0.2                                           |
| Antimony     | 0.2                                           |
| Arsenic      | 0.5                                           |
| Barium       | 0.2                                           |
| Beryllium    | 0.2                                           |
| Cadmium      | 0.025                                         |
| Chromium     | 0.01                                          |
| Copper       | 0.2                                           |
| Iron         | 0.2                                           |
| Lead         | 0.2                                           |
| Mercury      | 0.3                                           |
| Nickel       | 0.0005                                        |
| Selenium     | 0.07                                          |
| Silver       | 0.025                                         |
| Zinc         | 0.1                                           |

Appendix H. List of station locations for B Street/Downtown Piers, Downtown Anchorage area, and Switzer Creek study areas and reference sites.

| <b>B Street/Downtown Piers</b> |             |           |
|--------------------------------|-------------|-----------|
| Station                        | Longitude   | Latitude  |
| BST01                          | -117°10.418 | 32°42.970 |
| BST04                          | -117°10.417 | 32°42.996 |
| BST07                          | -117°10.417 | 32°43.006 |

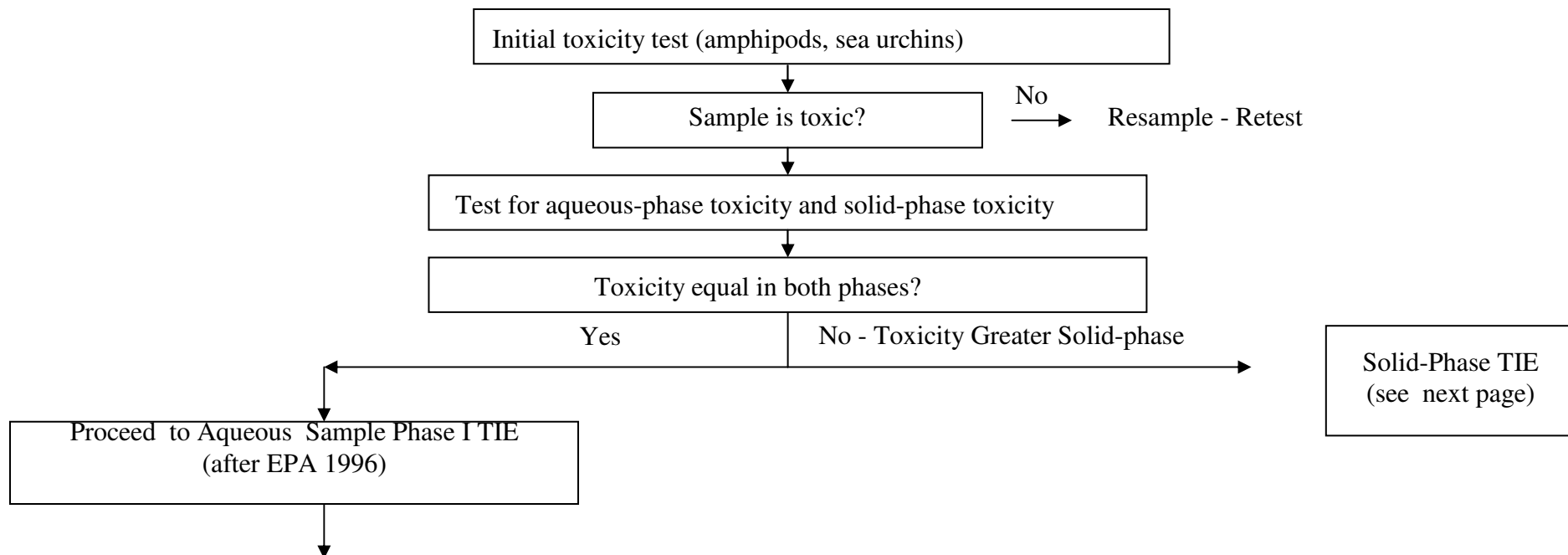
| <b>Downtown Anchorage</b> |             |           |
|---------------------------|-------------|-----------|
| Station                   | Longitude   | Latitude  |
| DAC02                     | -117°10.493 | 32°43.564 |
| DAC03                     | -117°10.545 | 32°43.603 |
| DAC04                     | -117°10.599 | 32°43.624 |

| <b>Switzer Creek</b> |            |           |
|----------------------|------------|-----------|
| Station              | Longitude  | Latitude  |
| SWZ01                | -117°9.482 | 32°42.124 |
| SWZ02                | -117°9.519 | 32°42.105 |
| SWZ04                | -117°9.500 | 32°42.135 |

| <b>Reference Stations</b> |             |           |
|---------------------------|-------------|-----------|
| Station                   | Longitude   | Latitude  |
| 2238                      | -117°7.719  | 32°37.526 |
| 2243                      | -117°8.558  | 32°39.869 |
| 2433                      | -117°12.546 | 32°43.350 |
| 2441                      | -117°14.278 | 32°41.468 |
| 2229                      | -117°10.562 | 32°42.537 |

## Appendix I. Toxicity Identification Evaluation Procedures

## Toxicity Identification Evaluation Decision Tree



| TIE Treatment   | Target Toxicants                                                 |  |
|-----------------|------------------------------------------------------------------|--|
| Initial Test    | Determines sample toxicity                                       |  |
| Baseline Test   | Confirms toxicity during TIE                                     |  |
| Centrifugation  | Removes particulates                                             |  |
| Aeration        | Reduces volatiles (e.g., H <sub>2</sub> S, BTEX)                 |  |
| EDTA            | Binds divalent cations                                           |  |
| Sodium Thio.    | Neutralizes oxidants, binds some metals                          |  |
| C18 Column      | Removes non-polar compounds                                      |  |
| C18 Eluate      | Returns non-polar compounds to solution                          |  |
| Aerat./Column   | Removes mixtures of non-polars and volatiles                     |  |
| Column/EDTA     | Removes mixtures of non-polars and metals                        |  |
| Pip. Butox.     | Blocks organophosphate pest. Metabolism, potentiates pyrethroids |  |
| pH 7            | Affects bioavailability of metals, organics, ammonia             |  |
| pH 8            | Affects bioavailability of metals, organics, ammonia             |  |
| pH 9            | Affects bioavailability of metals, organics, ammonia             |  |
| Cation Ex. Col. | Binds divalent cations                                           |  |
| Cation Eluate   | Returns divalent cations to solution                             |  |

Toxicity Reduced?

Yes

No

Phase II TIE  
based on Phase I  
results

1. Try combination treatments to investigate multiple toxicants
2. Investigate non-contaminant factors

**Toxicity Identification Evaluation Decision Tree - Solid Phase TIE**  
**(Conducted when sample exhibits greater solid-phase toxicity than aqueous-phase toxicity)**

