

## July Sampling Event (7/25/01)

|           |               | Analytical Data |        |               |        |           |             |           |        |               |           |           |             |           |           |           |        |           |           |
|-----------|---------------|-----------------|--------|---------------|--------|-----------|-------------|-----------|--------|---------------|-----------|-----------|-------------|-----------|-----------|-----------|--------|-----------|-----------|
| Sample ID | Locale        | TSS             | TDS    | Copper (mg/l) |        |           | Lead (mg/l) |           |        | Nickel (mg/l) |           |           | Zinc (mg/l) |           |           |           |        |           |           |
|           |               | (mg/l)          | (mg/l) | Qualifier     | Total  | Qualifier | Dissolved   | Qualifier | Total  | Qualifier     | Dissolved | Qualifier | Total       | Qualifier | Dissolved | Qualifier | Total  | Qualifier | Dissolved |
| MTS-1     | U/S           | 3.77            | 1733   | <             | 0.0005 | <         | 0.0005      | <         | 0.0005 | <             | 0.0005    | <         | 0.0005      | <         | 0.0005    | <         | 0.0005 | <         | 0.0005    |
| MTS-2     | Mixing Zone   | 5.07            | 2176   | <             | 0.0005 | <         | 0.0005      | <         | 0.0005 | <             | 0.0005    | <         | 0.0005      | <         | 0.0005    | <         | 0.023  | <         | 0.020     |
| MTS-3     | Upper Estuary | 17.54           | 4917   | <             | 0.0005 | <         | 0.0005      | <         | 0.0005 | <             | 0.0005    | <         | 0.0005      | <         | 0.0005    | <         | 0.011  | <         | 0.010     |
| MTS-R     | Discharge     | 4.05            | 2664   | <             | 0.0005 | <         | 0.0005      | <         | 0.0005 | <             | 0.0005    | <         | 0.0005      | <         | 0.0005    | <         | 0.030  | <         | 0.020     |
| MTS-DUP   | Dup MTS-3     | 25.94           | 4950   | <             | 0.0005 | <         | 0.0005      | <         | 0.0005 | <             | 0.0005    | <         | 0.0005      | <         | 0.0005    | <         | 0.0005 | <         | 0.0005    |

| Water Quality Parameters |         |      |      |               |                 |           |           |            |                  |     |
|--------------------------|---------|------|------|---------------|-----------------|-----------|-----------|------------|------------------|-----|
| Sample ID                | Locale  | Time | pH   | Cond. (ms/cm) | Turbidity (NTU) | DO (mg/l) | Temp. (C) | Sal. (ppt) | Tot. Depth (ft.) |     |
| <b>MTS-1</b>             | Surface | 0905 | 7.66 | 2.86          | <               | 5         | 8.78      | 18.3       | 1.4              | 0.5 |
| <b>MTS-2 (MZ-1)</b>      | Surface | 1200 | 7.06 | 2.79          | <               | 10        | 2.7       | 22.7       | 1.8              | 2.0 |
|                          | 1ft.    | 1200 | 7.04 | 4.4           | <               | 10        | 7.63      | 22.9       | 4.5              | 2.0 |
| <b>MTS-3 (MZ-7)</b>      | Surface | 1030 | 8.66 | 5.91          | <               | 10        | 11.28     | 20.4       | 3.1              | 2.5 |
|                          | 1ft.    | 1030 | 8.66 | 5.92          | <               | 10        | 10.72     | 20.5       | 3.1              | 2.5 |
|                          | 2ft.    | 1030 | 8.77 | 6.69          | <               | 10        | 9.97      | 20.9       | 3.7              | 2.5 |
| <b>MTS-R (MZ-R)</b>      | Surface | 0830 | 7.05 | 2.14          | <               | 10        | 6.71      | 22.4       | 1.0              | 1.0 |
|                          | Surface | 1045 | 9.09 | 7.38          | <               | 10        | 16.09     | 21.1       | 3.9              | 5.0 |
| <b>MZ-3</b>              | 1ft.    | 1045 | 9.1  | 7.31          | <               | 10        | 16.10     | 21.1       | 3.9              | 5.0 |
|                          | 2ft.    | 1045 | 9.5  | 8.8           | <               | 10        | 16.69     | 21.6       | 5.1              | 5.0 |
|                          | 3ft.    | 1045 | 9.39 | 12            | <               | 10        | 16.85     | 21.9       | 10.6             | 5.0 |
|                          | 4ft.    | 1045 | 7.75 | 30.3          | <               | 10        | 7.0       | 22.6       | 17.8             | 5.0 |
| <b>MZ-4</b>              | Surface | 1115 | 9.4  | 8.1           | <               | 10        | 18.15     | 21.3       | 4.4              | 5.0 |
|                          | 1ft.    | 1115 | 9.39 | 8.13          | <               | 10        | 18.19     | 21.3       | 4.4              | 5.0 |
|                          | 2ft.    | 1115 | 9.51 | 8.75          | <               | 10        | 18.34     | 21.3       | 4.5              | 5.0 |
|                          | 3ft.    | 1115 | 8.65 | 23.7          | <               | 10        | 18.5      | 22.3       | 14.9             | 5.0 |
|                          | 4ft.    | 1115 | 7.65 | 34.1          | <               | 10        | 9.95      | 22.1       | 21.4             | 5.0 |
| <b>MZ-5</b>              | Surface | 1130 | 9.5  | 8.65          | <               | 10        | 18.22     | 21         | 4.6              | 5.0 |
|                          | 1ft.    | 1130 | 9.37 | 8.33          | <               | 10        | 18.84     | 21.1       | 4.7              | 5.0 |
|                          | 2ft.    | 1130 | 8.91 | 16.9          | <               | 10        | 15.92     | 23         | 12.8             | 5.0 |
|                          | 3ft.    | 1130 | 8.33 | 27            | <               | 10        | 15.13     | 22.7       | 18.8             | 5.0 |
| <b>MZ-5b</b>             | 4ft.    | 1130 | 7.56 | 36.6          | <               | 10        | 3.31      | 21.9       | 21.8             | 5.0 |
|                          | Surface | 1145 | 9.34 | 8.26          | <               | 10        | 16.95     | 21.8       | 4.6              | 3.0 |
|                          | 1ft.    | 1145 | 9.65 | 9.38          | <               | 10        | 17.21     | 21.8       | 5.3              | 3.0 |
| <b>MZ-6</b>              | 2ft.    | 1145 | 9.16 | 11.6          | <               | 10        | 15.25     | 22         | 6.5              | 3.0 |
|                          | 1ft.    | 1215 | 8.91 | 8.92          | <               | 10        | 8.35      | 22.5       | 5.3              | 2.5 |
| <b>MZ-2</b>              | 2ft.    | 1215 | 8.78 | 13            | <               | 10        | 11.75     | 23.5       | 6.8              | 2.5 |
|                          | 1ft.    | 1720 | 7.2  | 4.01          | <               | 10        | 3.14      | 20.8       | 2.3              | 2.0 |

### Notes:

The Mixing Zone (MTS-2) was sampled at MZ-1.

Mixing zone established primarily on visual observation of discharge flow into the pooled estuary.

Validated with water quality parameter measurement to establish sampling point.

### Conditions:

The Estuary was impounded during this Metals Translator sampling event.

### Tides:

High 5.1 ft. at 0119, 4.8 at 1457  
Low 0.1 ft at 0809, 1.9 ft. at 2053

### Qualifiers:

J : estimated value

<: non-detect