

# Salem Sound Coastwatch *Clean Beaches and Streams*

## Water Monitoring Results

## Summer 2003

**Date of Sample Collection: 7/29/03**

**Report Issue Date: 7/31/03**

**Samples Collected by Salem Sound Coastwatch staff and volunteers:** Mary Reilly (SS-MR), Christina and Teegan Bash (SS-CB), Jim Seavey (SS-JS), Marilyn McCrory (SS-MM), Joan McIntyre (SS-JM), Mary Sullivan (SS-MS), Stephanie Raby (SS-SR), Daniel Noon (SS-DN), Susan Marsh (SM), Bob Solda (RS) and Curtis Healy (SS-CH)

**Weather Rating: Dry**

**Low Tide: 6:09am**

*Salem Sound Coastwatch's Clean Beaches and Streams Program is an ongoing water quality monitoring program that collects data from prioritized, potential pollution sources/sites along Salem Sound's coastline, including outfall pipes, culverts, and small streams.*

*Sites may change throughout the season. For more information contact Mary Reilly at 978-741-7900.*

*Testing conducted specifically for water quality at bathing beaches is performed by each city/town Board of Health.*

| Salem Sound Coastwatch Sampling Sites by Community      | Site Number | Time of Sampling | Flow | Sample Collected by | Fecal coliform per 100 mL | Enterococci per 100 mL | Lab |
|---|-------------|------------------|------|---------------------|---------------------------|------------------------|-----|
| <b>Marblehead</b>                                       |             |                  |      |                     |                           |                        |     |
| Riverhead Beach-Large storm drain at boat landing       | 701         | 7:11             | F    | SS-JM               | <b>900</b>                | 100                    | BIO |
| Stramski Beach-Stream draining across beach             | 722         | 6:45             | T    | SS-JM               | <b>1,200</b>              | <b>200</b>             | BIO |
| Preston Beach   | PRE         | ns               | ns   | ns                  | ns                        | ns                     | ns  |
| <b>Beverly</b>  |             |                  |      |                     |                           |                        |     |
| Dane Street Beach                                       |             |                  |      |                     |                           |                        |     |
| Northern storm drain at beach                           | 322         | 7:33             | S    | SS-MM               | <b>500</b>                | <100                   | BIO |
| Lawrence Street brook at beach                          | 321         | 7:24             | T    | SS-MM               | <100                      | <100                   | BIO |
| Rice Beach-Stream draining across beach                 | 214         | 7:05             | S    | SS-MM               | <b>6,000</b>              | <b>300</b>             | BIO |
| Mingo Beach-Storm drain at beach                        | 212         | ns               | ns   | ns                  | ns                        | ns                     | ns  |
| Brackenberry Beach-Stream draining across beach         | 213         | 7:35             | F    | SS-MR               | <b>1,700</b>              | <b>700</b>             | BIO |
| Southwestern storm drain at beach                       | 222         | ns               | ns   | ns                  | ns                        | ns                     | ns  |
| <b>Danvers</b>  |             |                  |      |                     |                           |                        |     |
| Eden Glen Ave. Pipe                                     | 491b        | 7:20             | T    | SS-RS               | <b>4,400</b>              | <100                   | BIO |
| Waters River (at Route 35)                              | 403         | 7:23             | S    | SS-DN               | <b>400</b>                | <100                   | BIO |
| <b>Salem</b>  |             |                  |      |                     |                           |                        |     |
| Juniper Beach-storm drain on beach                      | 620         | 6:15             | F    | SS-SM               | <b>1,300,000</b>          | <b>26,000</b>          | BIO |
| Juniper Cove-storm drain on Steps Beach (Columbus Ave.) | 625         | 6:10             | N    | SS-SM               | ns                        | ns                     | ns  |
| Collins Cove - storm drain below Collins Cove Park      | 525         | 7:05             | N    | SS-CB               | ns                        | ns                     | ns  |
| Pickman Park-Pickman River at low tide                  | 646         | ns               | ns   | ns                  | ns                        | ns                     | BIO |
| Palmer Cove-storm drain at Shetland Park                | 629         | 7:47             | F    | SS-DN               | <b>3,700</b>              | 100                    | BIO |
| Palmer Cove-storm drain below Palmer Cove Playground    | 631         | 7:39             | T    | SS-DN               | <b>3,000</b>              | <100                   | BIO |
| Willow Avenue Beach-storm drain on beach                | 642         | ns               | ns   | ns                  | ns                        | ns                     | BIO |
| North River (near Harmony Grove Rd.)                    | 500         | 7:40             | T    | SS-MS               | 200                       | <100                   | BIO |
| North River (at Rte. 114)                               | 501         | 7:30             | T    | SS-MS               | <b>33,000</b>             | <b>400</b>             | BIO |
| <b>Manchester</b>                                       |             |                  |      |                     |                           |                        |     |
| Storm drain to Sawmill Brook at the High School         | 127         | 6:30             | F    | SS-MR               | 100                       | <100                   | BIO |
| Bennett's Brook (at Bennett Street)                     | 149         | ns               | ns   | ns                  | ns                        | ns                     | ns  |
| <b>Quality Assurance/Quality Control</b>                |             |                  |      |                     |                           |                        |     |
| Duplicate Sample collected                              | ns          | ns               | ns   | ns                  | ns                        | ns                     | ns  |
| Blank sample  | B           | 9:00             | na   | SS-MR               | 0                         | 0                      | BIO |

\*Numbers in bold exceed Class A, B and C standards as specified by the EPA (EPA-823-R-03-008):

fecal coliform > 200 CFU/100mL, Enterococci > 104 CFU/100mL

Notes: ns = no sample collected na = parameter not analyzed

**Weather ratings:**

Dry - Less than 0.2" the day of sampling or less than 0.5" within three days preceding sampling

Wet - More than 0.2" the day of sampling or more than 0.5" within three days preceding sampling

Lab abbreviations: Bio = Biomarine, Inc. in Gloucester (membrane filtration method 9222d)

DMF = Division of Marine Fisheries Bacteriological Lab in Gloucester (MPN m

**Flow ratings:**

N = no water

S = some water which is stagnant

T = trickling flow

F = significant flow