

# Salem Sound Coastwatch *Clean Beaches and Streams*

## Water Monitoring Results

July 17, 2008

**Samples Collected by Salem Sound Coastwatch staff and volunteers:** Barbara Warren (SS-BW), Susan Yochelson (SS-SY), Francie Caudill (SS-FC), Patti Mitchell (SS-PM), Carolyn Kelly (SS-CK), Richard Sides (SS-RS), Kathy Martin (SS-KM), Susan Marsh (SS-SM), Marilyn McCrory (SS-MM), Kate Newhall (SS-KN), Christine Downs (SS-CD), Gary Moore (SS-GM), Joan Nesbit (SS-JN), Sarah Calland (SS-SC)

**Weather Rating: DRY**

**5:22 AM**

*Salem Sound Coastwatch's Clean Beaches and Streams Program is an ongoing water quality monitoring program that collects data at low tide 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 Barbara Warren 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 (am) | Flow | Salinity | Sample Collected | Enterococci per 100 mL | Lab |
|---|-------------|-----------------------|------|----------|------------------|------------------------|-----|
| <b>Manchester</b>   |             |                       |      |          |                  |                        |     |
| Wolf Trap Brook - Downstream of Rt. 127                       | 160D        | 6:28 AM               | T    | 0        | SS-FC,KN         | 90                     | Bio |
| Wolf Trap Estuary- Downstream of Ocean St. at Black Beach     | 161         | 6:50 AM               | F    | 25       | SS-FC,KN         | <b>1,100</b>           | Bio |
| Wolf Trap Estuary - east side from wooden bridge in marsh     | 161E        | 6:40 AM               | F    | 22       | SS-FC,KN         | <b>590</b>             | Bio |
| Wolf Trap Estuary- west side at private driveway off Ocean St | 161W        | 7:00 AM               | F    | 1.5      | SS-FC,KN         | <b>560</b>             | Bio |
| <b>Beverly</b>  |             |                       |      |          |                  |                        |     |
| Brackenbury Beach - stream from 4' x 4' culvert               | 213         | 6:31 AM               | F    |          | SS-CD            | <b>210</b>             | Bio |
| Brackenbury Beach   | 213A        | 6:35 AM               | F    |          | SS-CD            | <b>1,700</b>           | Bio |
| Centerville Brook - South of Hale Street                      | 213E        | 6:22 AM               | F    |          | SS-CD            | <b>700</b>             | Bio |
| Centerville Brook - Tall tree Dr                              | 213F        | 6:13 AM               | S    |          | SS-CD            | <b>790</b>             | Bio |
| Rice Beach  | 214         |                       | N    |          | SS-CD            | dry                    | Bio |
| Dane St. Beach - Lawrence Street brook at beach               | 321         | 6:38 AM               | T    |          | SS-MM            | <b>300</b>             | Bio |
| Dane St. Beach - easterly storm drain at beach                | 322         | 6:47 AM               | T    |          | SS-MM            | <10                    | Bio |
| <b>Danvers</b>  |             |                       |      |          |                  |                        |     |
| <b>Salem</b>  |             |                       |      |          |                  |                        |     |
| North River - upstream of Rt. 114 overpass, Commercial Way    | 537         | 7:23 AM               | T    |          | SS-GM            | <b>20,000</b>          | Bio |
| North River - Commercial Way near foot bridge                 | 559         | 7:18 AM               | T    |          | SS-GM            | <b>345</b>             | Bio |
| Juniper Beach - storm drain on beach                          | 620         | 6:14 AM               | F    |          | SS-SM            | 70                     | Bio |
| Derby Wharf - storm drain                                     | 630         | 7:33 AM               | T    |          | SS-GM            | <b>15,000</b>          | Bio |
| Palmer Cove - storm drain below Palmer Cove Playground        | 631         | 7:00 AM               | F    |          | SS-SC            | <b>340</b>             | Bio |
| Willow Ave. Beach   | 642         | 6:50 AM               | F    |          | SS-SC            | <b>15,000</b>          | Bio |
| <b>Marblehead</b>   |             |                       |      |          |                  |                        |     |
| Dolliber Cove Creek - Grace Oliver Beach                      | 700         |                       | N    |          | SS-KM            | dry                    | Bio |
| Grace Oliver Beach - center of cove                           | 700A        | 6:55 AM               |      |          | SS-KM            | 40                     | Bio |
| Riverhead Beach Culvert - facing on left                      | 701A        | 6:19 AM               | F    |          | SS-RS            | <b>180</b>             | Bio |
| Riverhead Beach Culvert - facing on right                     | 701B        | 6:21 AM               | F    |          | SS-RS            | <b>200</b>             | Bio |
| Stramski Beach - Stream draining across beach                 | 722         | 7:28 AM               | T    | 0        | SS-BW            | <b>2,500</b>           | Bio |
| Stramski Way - Dodge Road drainage                            | 722A        | 7:20 AM               | T    |          | SS-BW            | <b>1,300</b>           | Bio |
| Stramski Beach - Wooden bridge                                | 722A-1      | 7:22 AM               | T    |          | SS-BW            | <b>3,600</b>           | Bio |
| Stramski Way - Pitman Street drainage                         | 722B        | 7:15 AM               | T    |          | SS-BW            | 90                     | Bio |
| Stramski Beach - 1st culvert                                  | 722B-1      | 7:17 AM               | T    |          | SS-BW            | <b>980</b>             | Bio |
| Stramski Beach - 2nd culvert                                  | 722B-2      | 7:18 AM               | T    |          | SS-BW            | <b>1,100</b>           | Bio |
| <b>Quality Assurance/Quality Control</b>                      |             |                       |      |          |                  |                        |     |
| Stramski Beach - Stream draining across beach                 | 722         | 7:24                  |      |          | SS-BW            | <b>4,100</b>           | Bio |

Times with \*\* indicates samples were taken outside of the 2 hour window of sampling at low tide.

**\*Numbers in bold exceed Class A, B and C standards as specified by the EPA (EPA-823-R-03-008): Enterococci > 104 CFU/100mL**

Notes: NS = no sample collected ND = no detect (<4 CFU/100mL) 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 abbreviation: Bio = Biomarine Inc.

### Flow ratings:

N = no water  
S = some water which is stagnant  
T = trickling flow  
F = steady, continuous flow