

Salem Sound Coastwatch *Clean Beaches and Streams*

Water Monitoring Results

SUMMER 2009

8/6/2009

Samples Collected by Salem Sound Coastwatch staff and volunteers: Barbara Warren (SS-BGW), Emily Gardner (SS-EG)

Francie Caudill (SS-FC), Carolyn Kelly (SS-CK), Patti Mitchell (SS-PM), Joan Nesbit (SS-JN), Kate Culhane (SS-KC)

Lynn Atkinson (SS-LA), Lenny Capello (SS-LC), Kathy Martin (SS-KM), Christine Downs (SS-CD), Marilyn McCrory (SS-MM),

David Pelletier (SS-DP), Susan Marsh (SS-SM), Gary Moore (SS-GM), Bob Solda (SS-BS)

Weather Rating: DRY

Low Tide: 6:10 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 |
|---|-------------|-----------------------|------|----------|------------------|------------------------|-----|
| Manchester | | | | | | | |
| Wolf Trap Estuary- west side at private driveway off Ocean St | 161W | 7:30 | F | 0 | MCST | <10 | Bio |
| Wolf Trap Estuary- Downstream of Ocean St. at Black Beach | 161 | 7:37 | F | 8 | MCST | 190 | Bio |
| Wolf Trap Estuary - east side from wooden bridge in marsh | 161E | 7:45 | F | 1 | MCST | 98 | Bio |
| Wolf Trap Estuary - east side stream parallel to Ocean St. | 161ST | 8:00 | S | 17 | MCST | 550 | Bio |
| Wolf Trap Brook - Downstream of Rt. 127 | 160D | 8:11 | F | 0 | MCST | 41 | Bio |
| Beverly | | | | | | | |
| Brackenbury Beach - stream from 4' x 4' culvert | 213 | 6:18 | F | 3 | SS-CD | 31 | Bio |
| Centerville Brook - South of Hale Street | 213E | 6:10 | F | 0 | SS-CD | 120 | Bio |
| Rice Beach | 214 | 6:28 | F | 0 | SS-CD | 98 | Bio |
| Dane St. Beach - Lawrence Street brook at beach | 321 | 6:42 | F | | SS-MM | 300 | Bio |
| Dane St. Beach - easterly storm drain at beach | 322 | 6:52 | T | | SS-MM | 63 | Bio |
| Peabody | | | | | | | |
| North River - downstream of Howley Street Bridge | 500 | 7:45 | F | 0 | SS-BS | 73 | Bio |
| Salem | | | | | | | |
| North River - upstream of Rt. 114 overpass, Commercial Way | 537 | 6:53 | T | | SS-GM | 52 | Bio |
| North River - Commercial Way near foot bridge | 559 | 6:45 | F | | SS-GM | 52 | Bio |
| Juniper Beach - storm drain on beach | 620 | 7:58 | F | | SS-BW | 160 | Bio |
| Derby Wharf - storm drain | 630 | 7:03 | T | | SS-GM | 170 | Bio |
| Palmer Cove - storm drain below Palmer Cove Playground | 631 | 6:42 | T | 22 | SS-DP | 231 | Bio |
| Willow Ave. Beach | 642 | 6:55 | T | 10 | SS-DP | 2,900 | Bio |
| South River from Congress St.dock | 673 | 6:30 | F | 14 | SS-DP | 200 | Bio |
| Marblehead | | | | | | | |
| Dolliber Cove Creek - Grace Oliver Beach | 700 | 6:09 | F | | SS-KM | 130 | Bio |
| Outfall Bradlee Rd/3 Anchorage Lane | 731 | 6:04 | F | | SS-EG | 110 | 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

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