

Salem Sound Coastwatch *Clean Beaches and Streams*

Water Monitoring Results

SUMMER 2013

8/8/2013

Samples Collected by Salem Sound Coastwatch staff and volunteers: Barbara Warren (SS-BW), Susan Yochelson (SS-SY)

Vi Patek (SS-VP), Gary Moore (SS-GM),

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Weather Rating: DRY

Low Tide: 6:47 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- Downstream of Ocean St. at Black Beach | 161 | 7:40 | Flow | 22 | MCST | 8,160 | Bio |
| Wolf Trap Estuary - East side from wooden bridge in marsh | 161E | 7:30 | Flow | 12 | MCST | 24,200 | Bio |
| Wolf Trap Brook - Downstream of Rt. 127 | 160D | 7:55 | Trickle | 0 | MCST | 10 | Bio |
| Beverly | | | | | | | |
| Patch Beach - Brackenbury Lane | 213 | 8:47 | Flow | 5 | SS-BW | 833 | Bio |
| Rice Beach - Stream outlet on beach | 214 | 8:30 | Trickle | 0 | SS-BW | 420 | Bio |
| Dane St. Beach - Lawrence Street brook at beach | 321 | 8:20 | Flow | | SS-BW | 6,870 | Bio |
| Salem | | | | | | | |
| North River - Upstream of Rt. 114 overpass, Commercial Way | 537 | 6:49 | Trickle | | SS-GM | 300 | Bio |
| North River - Commercial Way near foot bridge | 559 | 6:45 | Flow | | SS-GM | 97 | Bio |
| Juniper Beach - Storm drain on beach | 620 | 8:10 | Flow | 8 | SS-BW | 880 | Bio |
| Derby Wharf - Storm drain | 630 | 7:02 | Trickle | | SS-GM | 395 | Bio |
| Palmer Cove - Storm drain below Palmer Cove Playground | 631 | 7:45 | Flow | 10 | SS-BW | 520 | Bio |
| Juniper Cove - Storm drain in | 625 | | | | | NS | |
| Collins Cove - Storm drain below Park | 525 | | | | | NS | |
| Marblehead | | | | | | | |
| Dolliber Cove Creek - Grace Oliver Beach | 700 | 7:30 | Flow | 0 | SS-BW | 2,280 | Bio |
| Riverhead Beach Culvert - Facing on right | 701B | | | | | NS | Bio |
| Stramski Beach - Stream before entering the beach | 722 | 7:15 | Flow | | SS-BW | 910 | Bio |
| Quality Assurance/Quality Control | | | | | | | |
| Duplicate Sample collected | | | | | | | |
| 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: | | | | | | Flow ratings: | |
| Dry - Less than 0.2" the day of sampling or less than 0.5" within three days preceding sampling | | | | | | N = no water | |
| Wet - More than 0.2" the day of sampling or more than 0.5" within three days preceding sampling | | | | | | S = some water which is stagnant | |
| Lab abbreviation: Bio = Biomarine Inc. | | | | | | T = trickling flow | |
| | | | | | | F = steady, continuous flow | |

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