

# Salem Sound Coastwatch *Clean Beaches and Streams*

## Water Monitoring Results

July 31, 2008

**Samples Collected by Salem Sound Coastwatch staff and volunteers:** Barbara Warren (SS-BW), Susan Yochelson (SS-SY), Francie Caudill (SS-FC), Kathy Martin (SS-KM), Marilyn McCrory (SS-MM), Christine Downs (SS-CD), Gary Moore (SS-GM), Joan Nesbit (SS-JN), Sarah Calland (SS-SC)

**Weather Rating: DRY**

**4:43 AM**

\*Showers in Salem Sound at 5:53am - amount not recorded. (Shower at 5:53am in Boston at 0.04 inches)

*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	6:03 AM	F	0	SS-FC,JN	<b>670</b>	Bio
Wolf Trap Estuary- Downstream of Ocean St. at Black Beach	161	6:16 AM	F	20	SS-FC,JN	<b>4,100</b>	Bio
Wolf Trap Estuary - east side from wooden bridge in marsh	161E	6:26 AM	F	18	SS-FC,JN	<b>2,400</b>	Bio
Wolf Trap Estuary- west side at private driveway off Ocean St	161W	6:35 AM	F	0	SS-FC,JN	<b>320</b>	Bio
<b>Beverly</b>							
Brackenbury Beach - stream from 4' x 4' culvert	213	7:48 AM**	F	4	SS-CD	<b>590</b>	Bio
Brackenbury Beach	213A					NS	Bio
Centerville Brook - South of Hale Street	213E	7:30 AM**	F	0	SS-CD	<b>960</b>	Bio
Centerville Brook - Tall tree Dr	213F	7:56 AM**	F		SS-CD	<b>860</b>	Bio
Rice Beach	214					NS	Bio
Dane St. Beach - Lawrence Street brook at beach	321	6:16 AM	F		SS-MM	<b>2,200</b>	Bio
Dane St. Beach - easterly storm drain at beach	322	6:25 AM	T		SS-MM	<b>340</b>	Bio
<b>Danvers</b>							
<b>Salem</b>							
North River - upstream of Rt. 114 overpass, Commercial Way	537	6:33 AM	F		SS-GM	<b>16,000</b>	Bio
North River - Commercial Way near foot bridge	559	6:28 AM	T		SS-GM	<b>2,200</b>	Bio
Juniper Beach - storm drain on beach	620	6:14 AM	F	4	SS-SM	<b>2,100</b>	Bio
Derby Wharf - storm drain	630	6:40 AM	F		SS-GM	<b>4,900</b>	Bio
Palmer Cove - storm drain below Palmer Cove Playground	631	6:35 AM	F		SS-SC	<b>4,600</b>	Bio
Willow Ave. Beach	642	6:30 AM	F		SS-SC	<b>20,000</b>	Bio
<b>Marblehead</b>							
Dolliber Cove Creek - Grace Oliver Beach	700	6:05 AM	T/S		SS-KM	<b>2,500</b>	Bio
Grace Oliver Beach - center of cove	700A	6:00 AM			SS-KM	85	Bio
Riverhead Beach Culvert - facing on left	701A					NS	Bio
Riverhead Beach Culvert - facing on right	701B					NS	Bio
Stramski Beach - Stream draining across beach	722	6:45 AM	F	1	SS-BW	<b>2,900</b>	Bio
Stramski Way - Dodge Road drainage	722A	6:40 AM	F		SS-BW	<b>260</b>	Bio
Stramski Beach - Wooden bridge	722A-1	6:38 AM	F	0	SS-BW	<b>4,100</b>	Bio
Stramski Way - Pitman Street drainage	722B	6:30 AM	F		SS-BW	<b>410</b>	Bio
Stramski Beach - 1st culvert	722B-1	6:32 AM	F		SS-BW	<b>2,200</b>	Bio
Stramski Beach - 2nd culvert	722B-2	6:34 AM	T		SS-BW	<b>3,900</b>	Bio
<b>Quality Assurance/Quality Control</b>							
Stramski Beach - Stream draining across beach	213F	8:00 AM	F		SS-BW	<b>870</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