

# Salem Sound Coastwatch *Clean Beaches and Streams*

## Water Monitoring Results

July 5, 2007

**Samples Collected by Salem Sound Coastwatch staff and volunteers:** Barbara Warren (SS-BW), Susan Yochelson (SS-SY), Fiona Lubbock(SS-FL), Joan McIntyre (SS-JM), Francie Caudill (SS-FC), Patti Mitchell,(SS-PM), Carolyn Kelly (SS-CK), Kathy Martin (SS-KM), Susan Marsh (SS-SM), Marilyn McCrory (SS-MM), Tony Wilbur (SS-TW), Marty Amberg (SS-AM) Christine Downs (SS-CD), Gary Moore (SS-GM), Lauren Montana (SS-LM), Kelly Story (SS-KS), Joan Nesbit (SS-JN)

**Weather Rating: WET**

**Low Tide: 9:25 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 - 9 Magnolia Ave	160	7:30 - 9:30am	F		SS-PM/KN	<b>1,100</b>	Bio
Wolf Trap Brook - Downstream of Rt. 127	160D	7:30 - 9:30am	T		SS-PM/KN	<b>1,800</b>	Bio
Wolf Trap Estuary- Downstream of Ocean St. at Black Beach	161	7:30 - 9:30am	F	16 ppt	SS-PM/KN	<b>10,000</b>	Bio
Wolf Trap Estuary - east side from wooden bridge in marsh	161E	7:30 - 9:30am	F	14 ppt	SS-PM/KN	<b>5,300</b>	Bio
Wolf Trap Estuary- west side at private driveway off Ocean St	161W	7:30 - 9:30am	F	2.5 ppt	SS-PM/KN	<b>17,000</b>	Bio
<b>Beverly</b>							
Brackenbury Beach - stream from 4' x 4' Culvert	213	8:23	F	12 ppt	SS-CD/SY	<b>5,200</b>	Bio
Brackenbury Beach - concrete culvert to the east (18" dia.)	213A	8:30	F	5 ppt	SS-CD/SY	<b>5,900</b>	Bio
South of Hale Street	213E	8:13	F	1 ppt	SS-CD/SY	<b>17,000</b>	Bio
Centerville Brook at Tall Tree Dr	213F	8:05	F	0 ppt	SS-CD/SY	<b>9,200</b>	Bio
Rice Beach - streamfall onto beach	214	8:49	S	0 ppt	SS-CD/SY	<b>9,800</b>	Bio
Dane St. Beach - Lawrence Street brook at beach	321	7:32	F		SS-MM	<b>7,000</b>	Bio
Dane St. Beach - easterly storm drain at beach	322	7:39	T		SS-MM	<b>6,800</b>	Bio
Kernwood Bridge - 8" outfall	352	8:10	F		SS-TW	<b>7,700</b>	Bio
<b>Danvers</b>							
Porter River Sandy Beach	430	9:25	F	26 ppt	SS-BW	<b>860</b>	Bio
Porter River Rt. 35 - boat ramp at Bunky's Marina	401	8:28	F	22 ppt	SS-BW	<b>4,100</b>	Bio
Porter River at Rt. 62 and Holten-Richmond School	400	8:40	F	0 ppt	SS-BW	<b>7,600</b>	Bio
Frost Fish Brook - Hemlock St.	458H	8:55	F	0 ppt	SS-BW	<b>11,000</b>	Bio
Frost Fish Brook - between Colgate and Bowdoin Streets	471U	9:08	F		SS-BW	<b>20,000</b>	Bio
Donegal Brook Tributary to Frost Fish Brook	471	9:09	F		SS-BW	<b>14,000</b>	Bio
Frost Fish Brook - end of Princeton St.	474S	9:15	F		SS-BW	<b>11,000</b>	Bio
<b>Salem</b>							
North River - upstream of Rt. 114 overpass, Commercial Way	537	7:16	T		SS-GM	<b>9,900</b>	Bio
North River - Commercial Way near foot bridge	559	7:12	F		SS-GM	<b>2,800</b>	Bio
Juniper Beach - storm drain on beach	620	10:10**	F		SS-SM	<b>680</b>	Bio
Derby Wharf - storm drain	630	7:27	F		SS-GM	<b>9,700</b>	Bio
Palmer Cove - storm drain below Palmer Cove Playground	631	8:20	F		SS-KS	<b>140</b>	Bio
Willow Ave. Beach	642	8:32	T		SS-KS	<b>2,900</b>	Bio
<b>Marblehead</b>							
Dolliber Cove Creek - Grace Oliver Beach	700	8:42	F		SS-KM	<b>16,000</b>	Bio
Riverhead Beach Culvert - facing on left	701A	10:48**	F		SS-FL	<b>3,100</b>	Bio
Stramski Beach-Stream draining across beach	722	8:06	F		SS-JM	<b>13,000</b>	Bio
Stramski Way-Dodge Road drainage	722A	8:00	T		SS-JM	<b>14,000</b>	Bio
Stramski Way-Pitman Street drainage	722B	7:53	F		SS-JM	<b>9,000</b>	Bio
Goldthwait marsh - east outlet	740	10:43**	F		SS-FL	<b>2,300</b>	Bio
Goldthwait marsh - northwest fresh water inlet	741	10:40**	T		SS-FL	<b>3,500</b>	Bio
<b>Quality Assurance/Quality Control</b>							
Duplicate Sample collected	430	9:26	F	26 ppt	SS-BW	<b>1,100</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