

Salem Sound Coastwatch Clean Beaches and Streams

Water Monitoring Results

June 28, 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: DRY

Low Tide: 4:29 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	Flow	Salinity	Sample Collected	Enterococci per 100 mL	Lab
Manchester							
Wolf Trap Brook - 9 Magnolia Ave	160	5:40	F		SS-CK/FC	130	Bio
Wolf Trap Brook - Downstream of Rt. 127	160D	5:58	F		SS-KN/FC	500	Bio
Wolf Trap Estuary- Downstream of Ocean St. at Black Beach	161	6:07	F	21 ppt	SS-KN/FC	1,700	Bio
Wolf Trap Estuary - east side from wooden bridge in marsh	161E	6:15	F	15 ppt	SS-KN/FC	2,700	Bio
Wolf Trap Estuary- west side at private driveway off Ocean St	161W	6:25	F	2 ppt	SS-KN/FC	250	Bio
Beverly							
Brackenbury Beach - stream from 4' x 4' Culvert	213	6:38	T	3 ppt	SS-CD/SY	6,400	Bio
Brackenbury Beach - concrete culvert to the east (18" dia.)	213A	6:31	F	3 ppt	SS-CD/SY	520	Bio
East drainage to 213A - Endicott College	213AU				SS-CD/SY	NS	
South of Hale Street	213E	6:22	F	1 ppt	SS-CD/SY	1,800	Bio
Centerville Brook at Tall Tree Dr	213F	6:11	F	0 ppt	SS-CD/SY	270	Bio
Centerville Brook at Common Street	213-G					NS	
Rice Beach - streamfall onto beach	214	6:53	N		SS-CD/SY	DRY	
Dane St. Beach - Lawrence Street brook at beach	321	6:00	T		SS-MM	280	Bio
Dane St. Beach - easterly storm drain at beach	322	6:07			SS-MM	60	Bio
Kernwood Bridge - 8" outfall	352	5:45	F		SS-TW	360	Bio
Danvers							
Frost Fish Brook - Hemlock St.	458H				SS-LM/BW	NS	
Frost Fish Brook - between Colgate and Bowdoin Street	471U				SS-LM/BW	NS	
Frost Fish Brook - Cabot Rd	473				SS-LM/BW	NS	
Porter River at Rt. 62 and Holten-Richmond School	400	7:17	F	0 ppt	SS-CD/SY	13,000	Bio
Peabody							
North River - downstream of Howley Street Bridge	500	NS				NS	
Salem							
North River - upstream of Rt. 114 overpass, Commercial Way	537	5:49	T		SS-GM	2,400	Bio
North River - Commercial Way near foot bridge	559	5:44	F		SS-GM	500	Bio
Forest River Park - Pioneer Village	634					NS	
Juniper Beach - storm drain on beach	620	6:00	F		SS-SM	20	Bio
Derby Wharf - storm drain	630	5:55	T		SS-GM	3,300	Bio
Palmer Cove - storm drain below Palmer Cove Playgrounc	631	5:50	F		SS-KS	<10	Bio
Willow Ave. Beach	642	5:45	N		SS-KS	DRY	
Marblehead							
Dolliber Cove Creek - Grace Oliver Beach	700	6:14	F		SS-KM	830	Bio
Riverhead Beach Culvert - facing on left	701A	6:25	F	14 ppt	SS-FL/RS	470	Bio
Stramski Beach-Stream draining across beach	722	7:11	F		SS-JM	1,900	Bio
Stramski Way-Dodge Road drainage	722A	7:05	T		SS-JM	3,600	Bio
Stramski Way-Pitman Street drainage	722B	6:55	T		SS-JM	1,100	Bio
Goldthwait marsh - east outlet	740	6:15	F	27 ppt	SS-FL	450	Bio
Goldthwait marsh - northwest fresh water inlet	741	6:10	T	0 ppt	SS-FL	230	Bio
Quality Assurance/Quality Control							
Duplicate Sample collected	352	5:45	F		SS-TW	420	Bio
Duplicate Sample collected	213F	6:12	F	9 ppt	SS-CD/SY	190	Bio

*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