

Salem Sound Coastwatch *Clean Beaches and Streams*

Water Monitoring Results

Summer 2007

8/30/2007

Samples Collected by Salem Sound Coastwatch staff and volunteers: Barbara Warren (SS-BW), Susan Yochelson (SS-SY), Fiona Lubbock(SS-FL), Alexi Soule (SS-AS), 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), Richard Sides (SS-RS), Christine Downs (SS-CD), Gary Moore (SS-GM), Kelly Story (SS-KS), Joan Nesbit (SS-JN), Kate Newhall (SS-KH)

Weather Rating: DRY

Low Tide: 7:01AM

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 Community	by	Site Number	Time of Sampling	Flow	Salinity	Sample Collected by	Enterococci per 100 mL	Lab
Manchester								
Wolf Trap Brook - 9 Magnolia Ave		160	7:34	F		SS-PM/KN	60	Bio
Wolf Trap Brook - Downstream of Rt. 127		160D	7:43	T		SS-PM/KN	880	Bio
Wolf Trap Estuary- Downstream of Ocean St. at Black Beach		161	7:55	T	33 ppt	SS-PM/KN	1,120	Bio
Wolf Trap Estuary - east side from wooden bridge in marsh		161E	8:00	S	30 ppt	SS-PM/KN	3,500	Bio
Wolf Trap Estuary- west side at private driveway off Ocean St		161W	8:10	T	2.5 ppt	SS-PM/KN	40	Bio
Beverly								
Brackenbury Beach - stream from 4' x 4' Culvert		213	NS				NS	
Brackenbury Beach - concrete culvert to the east (18" dia.)		213A	NS				NS	
South of Hale Street		213E	NS				NS	
Centerville Brook at Tall Tree Dr		213F	NS				NS	
Rice Beach - streamfall onto beach		214	NS				NS	
Dane St. Beach - Lawrence Street brook at beach		321	NS				NS	
Dane St. Beach - easterly storm drain at beach		322	NS				NS	
Kernwood Bridge - 8" outfall		352	NS				NS	
Danvers								
Porter River Sandy Beach - river sample		430	8:50	F	35 ppt	SS-MP/SY	40	Bio
Porter River Rt. 35 - boat ramp at Bunky's Marina		401	8:30	F	33 ppt	SS-MP/SY	40	Bio
Porter River at Rt. 62 and Holten-Richmond School		400	9:11	F	4 ppt	SS-MP/SY	960	Bio
Frost Fish Brook - Hemlock St.		458H	8:22	F		SS-MP/SY	980	Bio
Frost Fish Brook - between Colgate and Bowdoin Streets		471U	8:10	F		SS-MP/SY	1,730	Bio
Donegal Brook Tributary to Frost Fish Brook		471	8:11	F		SS-MP/SY	1,400	Bio
Frost Fish Brook - end of Princeton St.		474S	7:58	F		SS-MP/SY	1,690	Bio
Salem								
North River - upstream of Rt. 114 overpass, Commercial Way		537	8:15	F	22 ppt	SS-BW	320	Bio
North River - Commercial Way near foot bridge*(too little outfall flow, sample taken from pool at base of culvert in North River)		559	8:05	T	10 ppt	SS-BW	70	Bio
Juniper Beach - storm drain on beach		620	7:40	F		SS-SM	7,000	Bio
Derby Wharf - storm drain		630	7:50	F		SS-BW	770	Bio
Palmer Cove - storm drain below Palmer Cove Playground		631	7:05	S		SS-KS	110	Bio
Willow Ave. Beach		642	6:59	S		SS-KS	320	Bio
Marblehead								
Dolliber Cove Creek - Grace Oliver Beach		700	9:00			SS-AS	Dry	
Front St- before Fort Sewall		FS1	8:55	F		SS-AS	550	Bio
Riverhead Beach Culvert - facing on left		701A	7:20	F	28 ppt	SS-RS	300	Bio
Stramski Beach-Stream draining across beach		722	8:46	N		SS-BW	Dry	
Stramski Way-Dodge Road drainage		722A	8:40	S		SS-BW	Dry	
Stramski Way-Pitman Street drainage		722B	8:45	T		SS-BW	15,000	Bio
Goldthwait marsh - east outlet		740	7:13	F	31 ppt	SS-RS	220	Bio
Goldthwait marsh - northwest fresh water inlet		741	7:04	T	2 ppt	SS-RS	300	Bio
Quality Assurance/Quality Control								
Duplicate Sample collected		630	7:52	F		SS-BW	770	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

Bio = Biomarine Inc. www.biomarinelab.com

Flow ratings:

N = no water | T = trickling flow

S = some water which is stagnant

F = steady, continuous flow