

Salem Sound Coastwatch *Clean Beaches and Streams*

Water Monitoring Results

Summer 2007 8/16/2007

Samples Collected by Salem Sound Coastwatch staff and volunteers: Barbara Warren (SS-BW), Susan Yochelson (SS-SY), Fiona Lubbock(SS-FL), 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), Kelly Story (SS-KS), Joan Nesbit (SS-JN), Alexis Soule (SS-AS)

Weather Rating: DRY

Tide: 8:04AM

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	8:05	F		SS-CK/FC	50	Bio
Wolf Trap Brook - Downstream of Rt. 127		160D	8:10	S		SS-CK/FC	660	Bio
Wolf Trap Estuary- Downstream of Ocean St. at Black Beach		161	8:21	F	30	SS-CK/FC	210	Bio
Wolf Trap Estuary - east side from wooden bridge in marsh		161E	8:34	F	25	SS-CK/FC	1,100	Bio
Wolf Trap Estuary- west side at private driveway off Ocean St		161W	8:45	F	2	SS-CK/FC	90	Bio
Beverly								
Brackenbury Beach - stream from 4' x 4' Culvert		213	8:07	T		SS-CD	1,200	Bio
Brackenbury Beach - concrete culvert to the east (18" dia.)		213A	8:02	F		SS-CD	500	Bio
South of Hale Street		213E	7:52	F		SS-CD	2,500	Bio
Centerville Brook at Tall Tree Dr		213F	7:42	S		SS-CD	330	Bio
Rice Beach - streamfall onto beach		214		N		SS-CD	Dry	Bio
Dane St. Beach - Lawrence Street brook at beach		321	7:15	T		SS-MM	540	Bio
Dane St. Beach - easterly storm drain at beach		322	7:23	T		SS-MM	90	Bio
Kernwood Bridge - 8" outfall		352	N/A	F		SS-TW	N/A	
Danvers								
Porter River Sandy Beach		430	9:00	F		SS-SY	20	Bio
Porter River Rt. 35 - boat ramp at Bunky's Marina		401	8:48	F	32	SS-SY	70	Bio
Porter River at Rt. 62 and Holten-Richmond School		400	8:38	F	3	SS-SY	1,000	Bio
Frost Fish Brook - Hemlock St.		458H	8:06	F		SS-SY	1,700	Bio
Frost Fish Brook - between Colgate and Bowdoin Streets		471U	8:18	F		SS-SY	1,700	Bio
Donegal Brook Tributary to Frost Fish Brook		471	8:16	F		SS-SY	2,700	Bio
Frost Fish Brook - end of Princeton St.		474S	8:25	F		SS-SY	1,900	Bio
Salem								
North River - upstream of Rt. 114 overpass, Commercial Way		537	7:27	T		SS-GM	2,300	Bio
North River - Commercial Way near foot bridge		559	7:21	T		SS-GM	410	Bio
Juniper Beach - storm drain on beach		620	N/A	N/A		SS-SM	N/A	
Derby Wharf - storm drain		630	7:35	T		SS-GM	600	Bio
Palmer Cove - storm drain below Palmer Cove Playground		631	8:28	F		SS-KS	130	Bio
Willow Ave. Beach		642	8:21	F		SS-KS	14,000	Bio
Marblehead								
Dolliber Cove Creek - Grace Oliver Beach		700	8:55	F		SS-AS	520	Bio
Dolliber Cove Creek - upstream of Mill house		700CR	9:00	F		SS-AS	200	Bio
Front St- before Fort Sewall		FS1	8:50	F		SS-AS	180	Bio
Riverhead Beach Culvert - facing on left		701A	8:11	F	29	SS-FL	90	Bio
Stramski Beach-Stream draining across beach		722	8:40	T		SS-BW	1,100	Bio
Stramski Way-Dodge Road drainage		722A	8:18	T		SS-BW	1,600	Bio
Stramski Way-Pitman Street drainage		722B	8:30	T		SS-BW	5,900	Bio
Goldthwait marsh - east outlet		740	8:16	F	21	SS-FL	100	Bio
Goldthwait marsh - northwest fresh water inlet		741	8:05	T	0	SS-FL	640	Bio
Quality Assurance/Quality Control								
Duplicate Sample collected		722B	8:32	T		SS-BW	3,300	Bio
Duplicate Sample collected		700	8:10	T		SS-KM	450	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. 16 East Main Street, Gloucester, MA - 978-281-0222

Flow ratings:

N = no water
S = some water which is stagnant
T = trickling flow
F = steady, continuous flow