

Salem Sound Coastwatch *Clean Beaches and Streams*

Water Monitoring Results

SUMMER 2016

6/23/2016

Samples Collected by Salem Sound Coastwatch staff and volunteers: Barbara Warren (SS-BW), Jack Nessen (SS-JN)

Susan Stratton (SS-SS), Gary Moore (SS-GM)

MCST: Lynn Atkinson, Carolyn Kelly, Francie Caudill, Susan Purser, Joan Nesbit, Eric Magers

Weather Rating: **DRY**

Low Tide: **7:58 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
Manchester							
Wolf Trap Estuary- Downstream of Ocean St. at Black Beach	161	7:40	F	27	MCST	2,490	Bio
Wolf Trap Estuary - East side from wooden bridge in marsh	161E	7:45	F	24	MCST	3,080	Bio
Wolf Trap Brook - Downstream of Rt. 127	160D	7:55	T	0	MCST	41	Bio
Beverly							
Obear Park Culvert	330	6:50	T	0	SS-JN	185	Bio
Patch Beach - Brackenbury Lane	213	7:18	T	15	SS-JN	487	Bio
Rice Beach - Stream outlet on beach	214	7:30	T	0	SS-JN	161	Bio
Dane St. Beach - Lawrence Street brook at beach	321	7:05	T	0	SS-JN	336	Bio
Salem							
North River 114	537	7:40	T	NA	SS-GM	1,050	Bio
North River Footbridge	559	7:35	T	NA	SS-GM	148	Bio
Juniper Beach - Storm drain on beach	620	7:15	F	NA	SS-BW	404	Bio
Derby Wharf	630	7:57	T	NA	SS-GM	12,000	Bio
Palmer Cove - Storm drain below Palmer Cove Playground	631	7:30	F	NA	SS-BW	7,700	Bio
Marblehead							
Riverhead Beach Culvert - Facing on right	701	8:01	T	NA	SS-SS	1,110	Bio
Stramski Beach - Stream before entering the beach	722	7:43	T	NA	SS-SS	1,020	Bio
Village Street	721	7:34	T	NA	SS-SS	58	Bio
Quality Assurance/Quality Control							
Duplicate Sample collected							

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