

# Salem Sound Coastwatch *Clean Beaches and Streams*

Water Monitoring Results

SUMMER 2016

7/7/2016

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), Torri Kako (SS-TK)

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

Weather Rating: DRY

Low Tide: 7:57 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 Estuary- Downstream of Ocean St. at Black Beach	161	7:36	Flow	35	MCST	<b>1,050</b>	Bio
Wolf Trap Estuary - East side from wooden bridge in marsh	161E	7:44	Flow	33	MCST	<b>10,500</b>	Bio
Wolf Trap Brook - Downstream of Rt. 127	160D	7:54	T	2	MCST	<b>288</b>	Bio
<b>Beverly</b>							
Obear Park Culvert	330	6:56	T	5	SS-JN	20	Bio
Patch Beach - Brackenbury Lane	213	7:10	T	0	SS-JN	<b>327</b>	Bio
Rice Beach - Stream outlet on beach	214	NS	S	NA	SS-JN	NS	Bio
Dane St. Beach - Lawrence Street brook at beach	321	7:30	T	23	SS-JN	<b>160</b>	Bio
<b>Salem</b>							
North River 114	537	7:46	T	NA	SS-GM	<b>1,240</b>	Bio
North River Footbridge	559	7:40	T	NA	SS-GM	<b>1,330</b>	Bio
Juniper Beach - Storm drain on beach	620	7:15	Flow	15	SS-TK	<b>471</b>	Bio
Derby Wharf	630	7:56	T	NA	SS-GM	<b>2,610</b>	Bio
Palmer Cove - Storm drain below Palmer Cove Playground	631	7:40	Flow	NA	SS-TK	<b>1,520</b>	Bio
<b>Marblehead</b>							
Riverhead Beach Culvert - Facing on right	701	7:23	Flow	NA	SS-SS	<b>1,520</b>	Bio
Stramski Beach - Stream before entering the beach	722	7:38	Flow	NA	SS-SS	<b>733</b>	Bio
Village Street	721	7:51	Flow	NA	SS-SS	<b>1,110</b>	Bio
<b>Quality Assurance/Quality Control</b>							
Duplicate - Juniper Beach - Storm drain on beach	620	7:15	Flow	NA	SS-BW	<b>487</b>	Bio
Duplicate - Palmer Cove - Storm drain	631	7:40	Flow	NA	SS-BW	<b>1,620</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

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