

**Draft Massachusetts Integrated List of Waters for the
Clean Water Act 2024/2026 Reporting Cycles**

**Appendix 36
Taunton River Basin
Assessment and Listing Decision Summary**

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Watershed Planning Program

The mission of the Watershed Planning Program (WPP) in the Massachusetts Department of Environmental Protection is to protect, enhance, and restore the quality and value of the waters of the Commonwealth. Guided by the federal Clean Water Act, WPP implements this mission statewide through five Sections that each have a different technical focus: (1) Surface Water Quality Standards; (2) Surface Water Quality Monitoring; (3) Data Management and Water Quality Assessment; (4) Total Maximum Daily Load; and (5) Nonpoint Source Management. Together with other MassDEP programs and state environmental agencies, WPP shares in the duty and responsibility to secure the environmental, recreational, and public health benefits of clean water for all people of the Commonwealth.

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Disclaimer

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Overview of Appendix Contents

This Integrated Report (IR) Appendix functions as a watershed-based Assessment and Listing Decision Summary that catalogs the most recent assessment decisions for each assessment unit (AU) that was updated as part of the 2024/2026 IR cycle.

The appendix begins with 2024/26 Cycle Impairment Changes, a comprehensive table summarizing all impairments that were either added, removed, changed, or unchanged between the 2022 and 2024/2026 reporting cycles. This table presents the overall impairment status at the waterbody scale, across all designated uses. The table does not detail use-specific impairment changes; those details are provided in subsequent sections of the appendix.

Following 2024/26 Cycle Impairment Changes, the appendix provides an individual section for each AU updated during the 2024/2026 cycle. Each AU section details the supporting data and rationale for each designated use attainment determination, including any associated impairment removal decisions. Changes in impairment status at the designated use level are documented in full within the corresponding Designated Use Attainment Decision. AUs where no usable data were available for the 2024/2026 IR cycle are included, but with the assessment information from the 2022 cycle is carried forward.

The following abbreviations are used when referencing designated uses:

- ALU - Aquatic Life Use
- FC - Fish Consumption Use
- SH - Shellfish Harvesting Use
- AES - Aesthetic Use
- PCR - Primary Contact Recreation Use
- SCR - Secondary Contact Recreation Use

When listing an impairment, parentheses and an asterisk (*) are utilized to denote “pollution” or non-pollutant impairments that do not require the development of a Total Maximum Daily Load (TMDL). Where applicable, further explanation of the ATTAINS impairment code is provided within square brackets [].

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2024/26 Cycle Impairment Changes

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Ames Long Pond	MA62001	5	5	(Aquatic Plants (Macrophytes)*)	--	Unchanged
Ames Long Pond	MA62001	5	5	(Fanwort*)	--	Unchanged
Ames Long Pond	MA62001	5	5	(Non-Native Aquatic Plants*)	--	Unchanged
Ames Long Pond	MA62001	5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
Ames Long Pond	MA62001	5	5	Turbidity	--	Unchanged
Assawompset Pond	MA62003	3	3	None	--	Unchanged
Assonet River	MA62-19	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Assonet River	MA62-20	5	4a	Enterococcus	40309	Changed
Assonet River	MA62-20	5	4a	Fecal Coliform	40309	Unchanged
Barrowsville Pond	MA62007	4c	4c	(Water Chestnut*)	--	Unchanged
Beaumont Pond	MA62009	3	3	None	--	Unchanged
Beaver Brook	MA62-09	4a	4a	Escherichia Coli (E. Coli)	40308	Unchanged
Beaver Brook	MA62-09	4a	4a	Fecal Coliform	40308	Unchanged
Beaver Brook	MA62-30	3	3	None	--	Unchanged
Big Bearhole Pond	MA62011	5	5	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Big Bearhole Pond	MA62011	5	5	(Fanwort*)	--	Unchanged
Big Bearhole Pond	MA62011	5	5	Dissolved Oxygen	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Briggs Pond	MA62021	3	3	None	--	Unchanged
Broad Cove	MA62-50	4a	4a	Fecal Coliform	40309	Unchanged
Brockton Reservoir	MA62023	4c	4c	(Fanwort*)	--	Unchanged
Cain Pond	MA62030	5	5	Dissolved Oxygen	--	Unchanged
Cain Pond	MA62030	5	5	Turbidity	--	Unchanged
Canoe River	MA62-64	2	2	None	--	Unchanged
Canoe River	MA62-65	3	3	None	--	Unchanged
Canoe River	MA62-66	2	5	Escherichia Coli (E. Coli)	--	Added
Carpenter Pond	MA62032	3	3	None	--	Unchanged
Carver Pond	MA62033	4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged
Cedar Swamp River	MA62-44	3	2	None	--	Unchanged
Chaffin Reservoir	MA62035	3	3	None	--	Unchanged
Chartley Pond	MA62038	3	3	None	--	Unchanged
Clear Pond	MA62041	4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged
Cleveland Pond	MA62042	5	5	(Aquatic Plants (Macrophytes)*)	--	Added
Cleveland Pond	MA62042	5	5	(Fanwort*)	--	Unchanged
Cleveland Pond	MA62042	5	5	Mercury in Fish Tissue	--	Unchanged
Cobb Brook	MA62-43	3	3	None	--	Unchanged
Cocasset Lake	MA62043	3	3	None	--	Unchanged
Cooper Pond	MA62046	3	3	None	--	Unchanged
Cotley River	MA62-41	5	5	Enterococcus	--	Unchanged
Coweaset Brook	MA62-22	2	2	None	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Crocker Pond	MA62051	4c	4c	(Curly-leaf Pondweed*)	--	Unchanged
Cross Pond	MA62052	3	3	None	--	Unchanged
Cross Street Pond	MA62053	3	3	None	--	Unchanged
Cushing Pond	MA62056	4c	4c	(Fanwort*)	--	Unchanged
Elm Street Pond	MA62066	3	3	None	--	Unchanged
Fall Brook	MA62-72	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Fall Brook	MA62-81	5	5	(Non-Native Aquatic Plants*)	--	Unchanged
Fall Brook	MA62-81	5	5	Benthic Macroinvertebrates	--	Unchanged
Forge River	MA62-37	5	5	(Fish Passage Barrier*)	--	Unchanged
Forge River	MA62-37	5	5	Enterococcus	--	Unchanged
Fuller Street Pond	MA62234	4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged
Furnace Brook	MA62-73	5	5	(Fish Passage Barrier*)	--	Unchanged
Furnace Brook	MA62-73	5	5	Enterococcus	--	Unchanged
Furnace Lake	MA62076	3	3	None	--	Unchanged
Gavins Pond	MA62077	4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged
Glue Factory Pond	MA62078	3	3	None	--	Unchanged
Great Quittacas Pond	MA62083	3	3	None	--	Unchanged
Gushee Pond	MA62084	4c	4c	(Fanwort*)	--	Unchanged
Gushee Pond	MA62084	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Gushee Pond	MA62084	4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged
Hartwell School Pond	MA62086	3	3	None	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Hockomock River	MA62-35	5	5	Benthic Macroinvertebrates	--	Unchanged
Island Grove Pond	MA62094	5	5	(Fanwort*)	--	Unchanged
Island Grove Pond	MA62094	5	5	Algae	--	Unchanged
Island Grove Pond	MA62094	5	5	Turbidity	--	Unchanged
Johns Pond	MA62096	3	3	None	--	Unchanged
Kings Pond	MA62101	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Lake Mirimichi	MA62118	4c	5	(Fanwort*)	--	Unchanged
Lake Mirimichi	MA62118	4c	5	PFAS in Fish Tissue	--	Added
Lake Nippenicket	MA62131	4a	4a	(Fanwort*)	--	Unchanged
Lake Nippenicket	MA62131	4a	4a	Mercury in Fish Tissue	33880	Unchanged
Lake Rico	MA62148	4c	4c	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Lake Rico	MA62148	4c	4c	(Fanwort*)	--	Unchanged
Lake Rico	MA62148	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Lake Sabbatia	MA62166	5	5	(Aquatic Plants (Macrophytes)*)	--	Added
Lake Sabbatia	MA62166	5	5	(Fanwort*)	--	Unchanged
Lake Sabbatia	MA62166	5	5	(Non-Native Aquatic Plants*)	--	Unchanged
Lake Sabbatia	MA62166	5	5	Dissolved Oxygen	--	Unchanged
Lake Sabbatia	MA62166	5	5	PFAS in Fish Tissue	--	Added
Leach Pond	MA62103	3	3	None	--	Unchanged
Little Cedar Swamp	MA62106	3	3	None	--	Unchanged
Little Quittacas Pond	MA62107	3	3	None	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Long Pond	MA62108	4c	5	(Fanwort*)	--	Unchanged
Long Pond	MA62108	4c	5	(Non-Native Aquatic Plants*)	--	Unchanged
Long Pond	MA62108	4c	5	PFAS in Fish Tissue	--	Added
Long Pond River	MA62-74	3	3	None	--	Unchanged
Longwater Pond	MA62109	4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged
Lovett Brook	MA62-46	3	3	None	--	Unchanged
Lower Porter Pond	MA62111	4c	4c	(Fanwort*)	--	Unchanged
Matfield River	MA62-32	5	5	Algae	--	Unchanged
Matfield River	MA62-32	5	5	Benthic Macroinvertebrates	--	Unchanged
Matfield River	MA62-32	5	5	Dissolved Oxygen	--	Unchanged
Matfield River	MA62-32	5	5	Enterococcus	40308	Changed
Matfield River	MA62-32	5	5	Escherichia Coli (E. Coli)	40308	Unchanged
Matfield River	MA62-32	5	5	Fecal Coliform	40308	Unchanged
Matfield River	MA62-32	5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
Matfield River	MA62-32	5	5	Odor	--	Unchanged
Matfield River	MA62-32	5	5	Phosphorus, Total	--	Unchanged
Meadow Brook	MA62-38	4a	4a	(Fish Passage Barrier*)	--	Unchanged
Meadow Brook	MA62-38	4a	4a	Escherichia Coli (E. Coli)	40308	Unchanged
Meadow Brook	MA62-38	4a	4a	Fecal Coliform	40308	Unchanged
Meadow Brook Pond	MA62113	3	3	None	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Middle Pond	MA62115	4c	4c	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Middle Pond	MA62115	4c	4c	(Fanwort*)	--	Unchanged
Mill River	MA62-29	5	5	(Fanwort*)	--	Unchanged
Mill River	MA62-29	5	5	Benthic Macroinvertebrates	--	Unchanged
Mill River	MA62-29	5	5	Enterococcus	--	Unchanged
Mill River	MA62-29	5	5	Escherichia Coli (E. Coli)	--	Unchanged
Mill River	MA62-29	5	5	Temperature	--	Unchanged
Mill River	MA62-29	5	5	Trash	--	Added
Monponsett Pond, East Basin	MA62218	4a	4a	(Curly-leaf Pondweed*)	--	Unchanged
Monponsett Pond, East Basin	MA62218	4a	4a	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Monponsett Pond, East Basin	MA62218	4a	4a	(Fanwort*)	--	Unchanged
Monponsett Pond, East Basin	MA62218	4a	4a	(Non-Native Aquatic Plants*)	--	Unchanged
Monponsett Pond, East Basin	MA62218	4a	4a	Chlorophyll-a	R1_MA_2022_01	Unchanged
Monponsett Pond, East Basin	MA62218	4a	4a	Harmful Algal Blooms	R1_MA_2022_01	Unchanged
Monponsett Pond, East Basin	MA62218	4a	4a	Mercury in Fish Tissue	33880	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Monponsett Pond, East Basin	MA62218	4a	4a	Phosphorus, Total	R1_MA_2022_01	Unchanged
Monponsett Pond, West Basin	MA62119	5	4a	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Monponsett Pond, West Basin	MA62119	5	4a	(Fanwort*)	--	Unchanged
Monponsett Pond, West Basin	MA62119	5	4a	Chlorophyll-a	R1_MA_2022_01	Unchanged
Monponsett Pond, West Basin	MA62119	5	4a	Harmful Algal Blooms	R1_MA_2022_01	Unchanged
Monponsett Pond, West Basin	MA62119	5	4a	Mercury in Fish Tissue	33880	Changed
Monponsett Pond, West Basin	MA62119	5	4a	Phosphorus, Total	R1_MA_2022_01	Unchanged
Monponsett Pond, West Basin	MA62119	5	4a	Transparency / Clarity	R1_MA_2022_01	Unchanged
Mount Hope Mill Pond	MA62122	4c	4c	(Fanwort*)	--	Unchanged
Muddy Cove Brook	MA62-51	4a	4a	(Fish Passage Barrier*)	--	Unchanged
Muddy Cove Brook	MA62-51	4a	4a	Fecal Coliform	40309	Unchanged
Muddy Cove Brook	MA62-58	3	3	None	--	Unchanged
Muddy Cove Brook	MA62-59	4c	4c	(Fish Passage Barrier*)	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Muddy Cove Brook Pond	MA62124	5	5	(Fish Passage Barrier*)	--	Unchanged
Muddy Cove Brook Pond	MA62124	5	5	Algae	--	Unchanged
Muddy Cove Brook Pond	MA62124	5	5	Turbidity	--	Unchanged
Muddy Pond	MA62125	4c	4c	(Fanwort*)	--	Unchanged
Muddy Pond	MA62126	3	3	None	--	Unchanged
Muddy Pond	MA62233	3	3	None	--	Unchanged
Mulberry Meadow Brook	MA62-31	3	5	Escherichia Coli (E. Coli)	--	Added
Mullein Hill Chapel Pond	MA62127	3	3	None	--	Unchanged
Nemasket River	MA62-25	5	5	Ambient Bioassays - Chronic Aquatic Toxicity	--	Unchanged
Nemasket River	MA62-25	5	5	Benthic Macroinvertebrates	--	Unchanged
Nemasket River	MA62-25	5	5	Dissolved Oxygen	--	Unchanged
Nemasket River	MA62-25	5	5	Temperature	--	Unchanged
Nemasket River	MA62-26	5	5	Enterococcus	--	Unchanged
New Pond	MA62130	4c	4c	(Fanwort*)	--	Unchanged
North Center Street Pond	MA62132	3	3	None	--	Unchanged
Norton Reservoir	MA62134	5	5	(Fanwort*)	--	Unchanged
Norton Reservoir	MA62134	5	5	(Non-Native Aquatic Plants*)	--	Unchanged
Norton Reservoir	MA62134	5	5	Algae	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Norton Reservoir	MA62134	5	5	Dioxin (including 2,3,7,8-TCDD)	--	Unchanged
Norton Reservoir	MA62134	5	5	Pentachlorophenol (PCP)	--	Unchanged
Norton Reservoir	MA62134	5	5	Phosphorus, Total	--	Unchanged
Norton Reservoir	MA62134	5	5	Turbidity	--	Unchanged
Oakland Pond	MA62136	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Pine Swamp Brook	MA62-77	5	5	Benthic Macroinvertebrates	--	Unchanged
Pine Swamp Brook	MA62-77	5	5	Dissolved Oxygen	--	Unchanged
Pine Swamp Brook	MA62-77	5	5	Escherichia Coli (E. Coli)	--	Unchanged
Plymouth Street Pond	MA62141	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Pocksha Pond	MA62145	3	3	None	--	Unchanged
Poor Meadow Brook	MA62-34	5	5	Escherichia Coli (E. Coli)	--	Unchanged
Poquoy Brook	MA62-71	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Poquoy Brook Pond	MA62146	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Poquoy Pond	MA62147	3	3	None	--	Unchanged
Prospect Hill Pond	MA62149	3	3	None	--	Unchanged
Puddingshear Brook	MA62-75	5	5	Benthic Macroinvertebrates	--	Unchanged
Puddingshear Brook	MA62-75	5	5	Escherichia Coli (E. Coli)	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Puddingshear Brook	MA62-75	5	5	Temperature	--	Unchanged
Puds Pond	MA62151	3	3	None	--	Unchanged
Queset Brook	MA62-67	4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged
Queset Brook	MA62-68	3	3	None	--	Unchanged
Rattlesnake Brook	MA62-45	2	2	None	--	Unchanged
Reservoir (White Oak Reservoir)	MA62157	5	4a	(Fanwort*)	--	Unchanged
Reservoir (White Oak Reservoir)	MA62157	5	4a	Nutrient/Eutrophication Biological Indicators	R1_MA_2022_01	Changed
Reservoir (White Oak Reservoir)	MA62157	5	4a	Phosphorus, Total	R1_MA_2022_01	Changed
Richmond Pond	MA62159	4c	4c	(Fanwort*)	--	Unchanged
Robbins Pond	MA62162	3	5	(Aquatic Plants (Macrophytes)*)	--	Added
Robbins Pond	MA62162	3	5	PFAS in Fish Tissue	--	Added
Robinson Brook	MA62-14	5	5	(Physical Substrate Habitat Alterations*)	--	Unchanged
Robinson Brook	MA62-14	5	5	Benthic Macroinvertebrates	--	Unchanged
Route One Pond, West	MA62165	3	3	None	--	Unchanged
Rumford River	MA62-40	2	3	None	--	Unchanged
Rumford River	MA62-62	5	5	(Non-Native Aquatic Plants*)	--	Unchanged
Rumford River	MA62-62	5	5	Benthic Macroinvertebrates	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Rumford River	MA62-63	5	5	(Curly-leaf Pondweed*)	--	Unchanged
Rumford River	MA62-63	5	5	Benthic Macroinvertebrates	--	Unchanged
Rumford River	MA62-63	5	5	Dioxin (including 2,3,7,8-TCDD)	--	Unchanged
Rumford River	MA62-63	5	5	Pentachlorophenol (PCP)	--	Unchanged
Salisbury Brook	MA62-08	5	5	(Debris*)	--	Unchanged
Salisbury Brook	MA62-08	5	5	(Non-Native Aquatic Plants*)	--	Unchanged
Salisbury Brook	MA62-08	5	5	(Physical Substrate Habitat Alterations*)	--	Unchanged
Salisbury Brook	MA62-08	5	5	Algae	--	Unchanged
Salisbury Brook	MA62-08	5	5	Benthic Macroinvertebrates	--	Unchanged
Salisbury Brook	MA62-08	5	5	Escherichia Coli (E. Coli)	40308	Unchanged
Salisbury Brook	MA62-08	5	5	Fecal Coliform	40308	Unchanged
Salisbury Brook	MA62-08	5	5	Sedimentation/Siltation	--	Unchanged
Salisbury Brook	MA62-08	5	5	Trash	--	Unchanged
Salisbury Plain River	MA62-05	5	5	(Debris*)	--	Unchanged
Salisbury Plain River	MA62-05	5	5	(Physical Substrate Habitat Alterations*)	--	Unchanged
Salisbury Plain River	MA62-05	5	5	Benthic Macroinvertebrates	--	Unchanged
Salisbury Plain River	MA62-05	5	5	Dissolved Oxygen	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Salisbury Plain River	MA62-05	5	5	Escherichia Coli (E. Coli)	40308	Unchanged
Salisbury Plain River	MA62-05	5	5	Fecal Coliform	40308	Unchanged
Salisbury Plain River	MA62-05	5	5	Sedimentation/Siltation	--	Unchanged
Salisbury Plain River	MA62-05	5	5	Trash	--	Unchanged
Salisbury Plain River	MA62-06	5	5	Algae	--	Unchanged
Salisbury Plain River	MA62-06	5	5	Benthic Macroinvertebrates	--	Unchanged
Salisbury Plain River	MA62-06	5	5	Dissolved Oxygen	--	Unchanged
Salisbury Plain River	MA62-06	5	5	Escherichia Coli (E. Coli)	40308	Unchanged
Salisbury Plain River	MA62-06	5	5	Fecal Coliform	40308	Unchanged
Salisbury Plain River	MA62-06	5	5	Odor	--	Unchanged
Salisbury Plain River	MA62-06	5	5	Phosphorus, Total	--	Unchanged
Salisbury Plain River	MA62-06	5	5	Turbidity	--	Unchanged
Sassaquin Pond	MA62232	5	5	(Curly-leaf Pondweed*)	--	Unchanged
Sassaquin Pond	MA62232	5	5	Algae	--	Unchanged
Sassaquin Pond	MA62232	5	5	Fecal Coliform	--	Unchanged
Sassaquin Pond	MA62232	5	5	Harmful Algal Blooms	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Sassaquin Pond	MA62232	5	5	Odor	--	Unchanged
Satucket River	MA62-10	5	5	(Non-Native Aquatic Plants*)	--	Unchanged
Satucket River	MA62-10	5	5	Dissolved Oxygen	--	Unchanged
Satucket River	MA62-10	5	5	Escherichia Coli (E. Coli)	--	Added
Satucket River	MA62-10	5	5	Lead	--	Unchanged
Satucket River	MA62-10	5	5	Temperature	--	Unchanged
Savery Pond	MA62167	4c	4c	(Fanwort*)	--	Unchanged
Sawmill Brook	MA62-36	2	5	Escherichia Coli (E. Coli)	--	Added
Segreganset River	MA62-53	5	5	(Dewatering*)	--	Unchanged
Segreganset River	MA62-53	5	5	(Fish Passage Barrier*)	--	Unchanged
Segreganset River	MA62-53	5	5	Enterococcus	--	Unchanged
Segreganset River	MA62-54	4c	4c	(Dewatering*)	--	Unchanged
Segreganset River	MA62-54	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Segreganset River	MA62-55	4a	4a	Fecal Coliform	40309	Unchanged
Shumatuscacant River	MA62-33	5	5	(Non-Native Aquatic Plants*)	--	Unchanged
Shumatuscacant River	MA62-33	5	5	(Physical Substrate Habitat Alterations*)	--	Unchanged
Shumatuscacant River	MA62-33	5	5	Benthic Macroinvertebrates	--	Unchanged
Shumatuscacant River	MA62-33	5	5	Dissolved Oxygen	--	Unchanged
Shumatuscacant River	MA62-33	5	5	Escherichia Coli (E. Coli)	40308	Changed

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Shumatuscacant River	MA62-33	5	5	Fecal Coliform	40308	Unchanged
Shumatuscacant River	MA62-33	5	5	Sedimentation/Siltation	--	Unchanged
Snake River	MA62-28	3	3	None	--	Unchanged
Somerset Reservoir	MA62174	4a	4a	Mercury in Fish Tissue	33880	Unchanged
Stetson Pond	MA62182	5	4a	(Curly-leaf Pondweed*)	--	Unchanged
Stetson Pond	MA62182	5	4a	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
Stetson Pond	MA62182	5	4a	(Fanwort*)	--	Unchanged
Stetson Pond	MA62182	5	4a	(Water Chestnut*)	--	Unchanged
Stetson Pond	MA62182	5	4a	Dissolved Oxygen	R1_MA_2022_01	Changed
Stetson Pond	MA62182	5	4a	Harmful Algal Blooms	R1_MA_2022_01	Changed
Stetson Pond	MA62182	5	4a	Phosphorus, Total	R1_MA_2022_01	Changed
Sunset Lake	MA62184	3	3	None	--	Unchanged
Taunton River	MA62-01	5	5	Dissolved Oxygen	--	Unchanged
Taunton River	MA62-01	5	5	Enterococcus	R1_MA_2024_04 P	Unchanged
Taunton River	MA62-01	5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed
Taunton River	MA62-02	5	5	Chlorophyll-a	--	Unchanged
Taunton River	MA62-02	5	5	Enterococcus	40310	Unchanged
Taunton River	MA62-02	5	5	Fecal Coliform	40310	Unchanged
Taunton River	MA62-02	5	5	Nitrogen, Total	--	Unchanged
Taunton River	MA62-02	5	5	Phosphorus, Total	--	Unchanged
Taunton River	MA62-03	5	5	Dissolved Oxygen	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Taunton River	MA62-03	5	5	Enterococcus	40310	Changed
Taunton River	MA62-03	5	5	Fecal Coliform	40310	Unchanged
Taunton River	MA62-03	5	5	Nitrogen, Total	--	Unchanged
Taunton River	MA62-04	5	5	Dissolved Oxygen	--	Unchanged
Taunton River	MA62-04	5	5	Enterococcus	40310	Unchanged
Taunton River	MA62-04	5	5	Fecal Coliform	40310	Unchanged
Taunton River	MA62-04	5	5	Fish Bioassessments	--	Unchanged
Taunton River	MA62-04	5	5	Nitrogen, Total	--	Unchanged
The Creek	MA62-76	5	5	Fecal Coliform	--	Unchanged
The Reservoir	MA62189	3	3	None	--	Unchanged
Thirtyacre Pond	MA62190	4c	4c	(Fanwort*)	--	Unchanged
Threemile River	MA62-56	5	4a	(Fish Passage Barrier*)	--	Unchanged
Threemile River	MA62-56	5	4a	Enterococcus	40308	Changed
Threemile River	MA62-56	5	4a	Escherichia Coli (E. Coli)	40308	Added
Threemile River	MA62-57	5	4a	Enterococcus	40310	Changed
Threemile River	MA62-57	5	4a	Fecal Coliform	40310	Unchanged
Thurston Street Pond	MA62192	3	3	None	--	Unchanged
Tispaquin Pond	MA62195	3	3	None	--	Unchanged
Town River	MA62-11	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Town River	MA62-12	4c	5	(Fish Passage Barrier*)	--	Unchanged
Town River	MA62-12	4c	5	Escherichia Coli (E. Coli)	--	Added
Town River	MA62-13	5	5	(Non-Native Aquatic Plants*)	--	Unchanged
Town River	MA62-13	5	5	Benthic Macroinvertebrates	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Town River	MA62-13	5	5	Enterococcus	--	Unchanged
Town River	MA62-13	5	5	Escherichia Coli (E. Coli)	--	Added
Trout Brook	MA62-07	5	5	(Habitat Assessment*)	--	Unchanged
Trout Brook	MA62-07	5	5	Benthic Macroinvertebrates	--	Unchanged
Trout Brook	MA62-07	5	5	Dissolved Oxygen	--	Unchanged
Trout Brook	MA62-07	5	5	Escherichia Coli (E. Coli)	40308	Unchanged
Trout Brook	MA62-07	5	5	Fecal Coliform	40308	Unchanged
Turnpike Lake	MA62198	4c	4c	(Fanwort*)	--	Unchanged
Turnpike Lake	MA62198	4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged
Unnamed Tributary	MA62-42	5	5	Benthic Macroinvertebrates	--	Unchanged
Unnamed Tributary	MA62-42	5	5	Fish Bioassessments	--	Unchanged
Unnamed Tributary	MA62-48	5	5	(Flow Regime Modification*)	--	Unchanged
Unnamed Tributary	MA62-48	5	5	(Physical Substrate Habitat Alterations*)	--	Unchanged
Unnamed Tributary	MA62-48	5	5	Benthic Macroinvertebrates	--	Unchanged
Unnamed Tributary	MA62-48	5	5	Fish Bioassessments	--	Unchanged
Unnamed Tributary	MA62-48	5	5	Temperature	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Unnamed Tributary	MA62-69	2	2	None	--	Unchanged
Unnamed Tributary	MA62-70	4c	4c	(Fanwort*)	--	Unchanged
Unnamed Tributary	MA62-70	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Unnamed Tributary	MA62-78	5	5	Benthic Macroinvertebrates	--	Unchanged
Unnamed Tributary	MA62-80	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Upper Leach Pond	MA62123	3	3	None	--	Unchanged
Upper Porter Pond	MA62200	4c	4c	(Fanwort*)	--	Unchanged
Wading River	MA62-47	5	5	Algae	--	Unchanged
Wading River	MA62-60	4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged
Wading River	MA62-61	5	5	Benthic Macroinvertebrates	--	Unchanged
Waldo Lake	MA62201	4c	4c	(Fanwort*)	--	Unchanged
Watson Pond	MA62205	5	5	(Aquatic Plants (Macrophytes)*)	--	Added
Watson Pond	MA62205	5	5	(Fanwort*)	--	Unchanged
Watson Pond	MA62205	5	5	Algae	--	Removed
Watson Pond	MA62205	5	5	Dissolved Oxygen	--	Unchanged
Watson Pond	MA62205	5	5	Enterococcus	--	Unchanged
Watson Pond	MA62205	5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
Watson Pond	MA62205	5	5	PFAS in Fish Tissue	--	Added
Watson Pond	MA62205	5	5	Phosphorus, Total	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Watson Pond	MA62205	5	5	Transparency / Clarity	--	Removed
Weir Village North Pond	MA62206	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Weir Village South Pond	MA62207	3	3	None	--	Unchanged
West Meadow Pond	MA62208	4c	4c	(Aquatic Plants (Macrophytes)*)	--	Added
West Meadow Pond	MA62208	4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged
White Oak Brook	MA62-79	2	2	None	--	Unchanged
Whiteville Pond	MA62211	3	3	None	--	Unchanged
Winnecunnet Pond	MA62213	4c	4c	(Fanwort*)	--	Unchanged
Winnetuxet River	MA62-24	3	5	Escherichia Coli (E. Coli)	--	Added
Wolomolopoag Pond	MA62216	3	3	None	--	Unchanged
Woods Pond	MA62220	5	5	(Fanwort*)	--	Unchanged
Woods Pond	MA62220	5	5	Turbidity	--	Unchanged

Ames Long Pond (MA62001)

Location:	Stoughton/Easton.
AU Type:	FRESHWATER LAKE
AU Size:	88 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Aquatic Plants (Macrophytes)*)	--	Unchanged
5	5	(Fanwort*)	--	Unchanged
5	5	(Non-Native Aquatic Plants*)	--	Unchanged
5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
5	5	Turbidity	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Aquatic Plants (Macrophytes)*)	Source Unknown (N)	--	--	X	X	X
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Source Unknown (N)	--	--	X	X	X
Turbidity	Source Unknown (N)	--	--	X	X	X

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Insufficient Information	No

2024/26 Use Attainment Summary
There is Insufficient Information to assess the Fish Consumption Use for Ames Long Pond (MA62001). Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Ames Long Pond (MA62001) at station F0118 in 2018 as part of the probabilistic lake surveys (MAP2). However, no site-specific fish consumption advisory was issued by MDPH.

Fish Consumption Advisories

Summary of Fish Toxics Sampling and Resulting Fish Consumption Advisories (MassDEP Undated 7)

Summary Statement
Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Ames Long Pond (MA62001) at station F0118 in 2018 as part of the probabilistic lake surveys (MAP2). No site-specific fish consumption advisory was issued by MDPH.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Ames Long Pond (MA62001) will continue to be assessed as Not Supporting with the Aquatic Plants (Macrophytes), Nutrient/Eutrophication Biological Indicators and Turbidity impairments being carried forward. Since the Non-Native Aquatic Plants impairment was redundantly duplicated across multiple uses for this waterbody, the Non-Native Aquatic Plants impairment is being removed from the Aesthetics Use but will continue to be maintained under the Aquatic Life Use. Aesthetic observations were made by MassDEP field sampling crews as part of the MAP2 lake monitoring project during the summer of 2018, at two stations in Easton for this Ames Long Pond AU; at the deep hole, southern end of southern basin of pond, Easton W0940/MAP2L-275 (n=3) and the western edge of southern lobe, at the town beach off Highland Street, Stoughton W2777/MAP2L-275S (n=5). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded at either location and during the MAP2 littoral survey (n=1), duckweed was not noted in any of the 10 shoreline plots. However, during the MAP2 macrophyte mapping survey (n=1) in September 2018, greater than 25% (56.1%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%, with MassDEP field staff raising an aesthetics flag during this survey due to the density of the aquatic plants. These observations are reflective of the existing Aquatic Plants (Macrophytes) impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0940	MassDEP	Water Quality	Ames Long Pond	[deep hole, southern end of southern basin of pond, Easton]	42.078405	-71.115547
W2777	MassDEP	Water Quality	Ames Long Pond	[western edge of southern lobe, at the town beach off Highland Street, Stoughton]	42.081707	-71.117554

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W0940	2018	3	Aesthetic observations were made by MassDEP field sampling crews at Station W0940 (MAP2L-275) on Ames Long Pond (MA62001) during 3 site visits between Jun 2018 and Aug 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. During the MAP2 macrophyte mapping survey (n=1) in Sep 2018, greater than 25% (56.1%) of the waterbody was determined to have an aquatic macrophyte biovolume >50% and the survey also noted an aesthetics impairment flag due to aquatic plants (macrophytes). The observations from the MAP2 survey are indicative of an Aesthetics Use impairment.

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2777	2018	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2777 (MAP2L-275S) on Ames Long Pond (MA62001) during 5 site visits between May 2018 and Sep 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. During the MAP2 littoral survey (n=1), duckweed was not noted in any of the 10 shoreline plots.

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0940	Ames Long Pond	2018	Aesthetics Impaired?	No	3	3
W0940	Ames Long Pond	2018	Aquatic Plant Density, Overall	None	3	3
W0940	Ames Long Pond	2018	Color	Brownish	1	3
W0940	Ames Long Pond	2018	Color	Light Yellow/Tan	2	3
W0940	Ames Long Pond	2018	Objectionable Deposits	No	3	3
W0940	Ames Long Pond	2018	Odor	None	3	3
W0940	Ames Long Pond	2018	Scum	No	3	3
W0940	Ames Long Pond	2018	Turbidity	None	2	3
W0940	Ames Long Pond	2018	Turbidity	Slightly Turbid	1	3
W2777	Ames Long Pond	2018	Aesthetics Impaired?	No	5	5
W2777	Ames Long Pond	2018	Color	Light Yellow/Tan	3	5
W2777	Ames Long Pond	2018	Color	None	2	5
W2777	Ames Long Pond	2018	Objectionable Deposits	No	5	5
W2777	Ames Long Pond	2018	Odor	None	5	5
W2777	Ames Long Pond	2018	Scum	No	3	5
W2777	Ames Long Pond	2018	Scum	Yes	2	5
W2777	Ames Long Pond	2018	Turbidity	None	4	5
W2777	Ames Long Pond	2018	Turbidity	Slightly Turbid	1	5

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Ames Long Pond (MA62001) continues to be assessed as Not Supporting, with the prior Aquatic Plants (Macrophytes), Nutrient/Eutrophication Biological Indicators, and Turbidity impairments (from the Aesthetics Use) being carried forward. Since the Non-Native Aquatic Plants impairment is being removed from the Aesthetics Use this cycle, this impairment is also being removed from the Primary Contact Recreation Use. MassDEP staff collected *E. coli* bacteria samples in this Ames Long Pond AU at W2777/MAP2L-275S [Shoreline station at western edge of southern lobe, at the town beach off Highland St, Stoughton] from Jun-Sep 2018 (n=4). Analysis of this single year limited frequency *E. coli* dataset indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 28 CFU/100ml. *E. coli* data from W2777 were indicative of good water quality conditions. MassDEP also collected Secchi depth and cyanobacteria cell count data in 2018 at W0940/MAP2L-275 [Index-deep hole], and cyanobacteria cell count and cyanotoxins data in 2018 at station W2777. Secchi depth data at index station W0940 (station depth=2.4 m) indicated water clarity meeting the 1.2m (4ft) threshold (n=3, 1.5-2.3m). The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples (n=6). Analysis of microcystins and cylindrospermopsin samples from the shoreline station W2777 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0940	MassDEP	Water Quality	Ames Long Pond	[deep hole, southern end of southern basin of pond, Easton]	42.078405	-71.115547
W2777	MassDEP	Water Quality	Ames Long Pond	[western edge of southern lobe, at the town beach off Highland Street, Stoughton]	42.081707	-71.117554

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

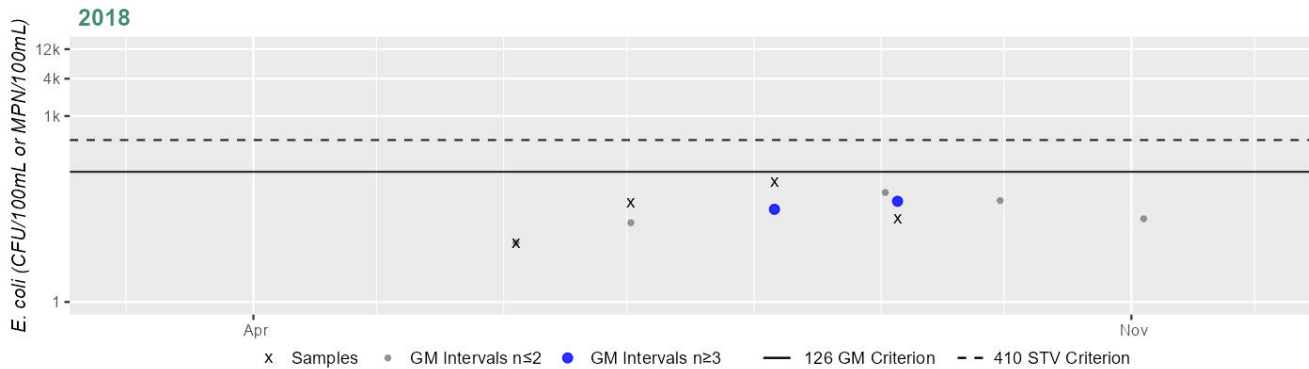
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2777	MassDEP	E. coli	06/04/18	09/05/18	4	9	85	28

Station MASSDEP_W2777 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	28
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data

(MassDEP Undated 9) (MassDEP Undated 5)

Data Year(s)	Summary
2018	In Ames Long Pond (MA62001) in 2018, MassDEP collected Secchi and cyanobacteria cell count data at W0940 [MAP2L-275, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2777 [MAP2L-275S, Shoreline]. At the index station W0940 (station depth=2.4 m) the Secchi depth measurements ranged from 1.5-2.3 m (n=3) indicating water clarity meeting the 1.2 m (4 ft) threshold. The cyanobacteria cell count did not exceed 70,000 cells/mL in any of the water samples (n=6). Analysis of microcystins and cylindrospermopsin samples from the shoreline station W2777 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L.

MassDEP Cyanobacteria Cell Count Data Collected at Lakes and Impoundments (2016-2018) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Waterbody	Station Type	Data Year	Sample Count	Count >70,000 cells/mL	Exceedance Date(s)
W0940	Ames Long Pond	Index	2018	3	0	NA
W2777	Ames Long Pond	Shoreline	2018	3	0	NA

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Ames Long Pond (MA62001) continues to be assessed as Not Supporting, with the prior Aquatic Plants (Macrophytes), Nutrient/Eutrophication Biological Indicators, and Turbidity impairments (from the Aesthetics Use) being carried forward. Since the Non-Native Aquatic Plants impairment is being removed from the Aesthetics Use this cycle, this impairment is also being removed from the Secondary Contact Recreation Use.

MassDEP staff collected *E. coli* bacteria samples in Ames Long Pond at W2777/MAP2L-275S [Shoreline station at western edge of southern lobe, at the town beach off Highland St, Stoughton] from Jun-Sep 2018 (n=4). Analysis of this single year limited frequency dataset indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 28 CFU/100ml. *E. coli* data from W2777 were indicative of good water quality conditions. MassDEP also collected cyanobacteria cell count data in 2018 at W0940/MAP2L-275 [Index-deep hole] and cyanobacteria cell count and cyanotoxins data in 2018 at W2777. The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples (n=6). Analysis of microcystins and cylindrospermopsin samples from W2777 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2777	MassDEP	Water Quality	Ames Long Pond	[western edge of southern lobe, at the town beach off Highland Street, Stoughton]	42.081707	-71.117554

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

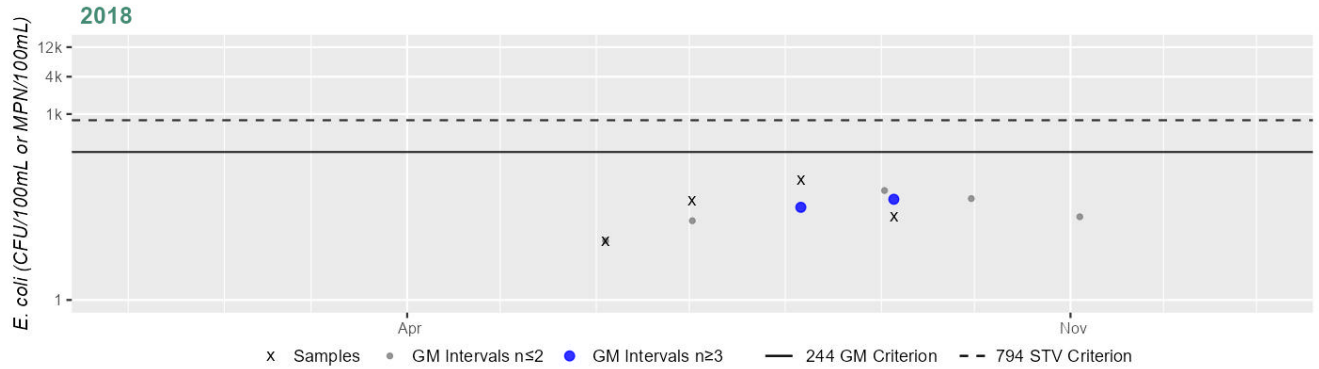
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2777	MassDEP	E. coli	06/04/18	09/05/18	4	9	85	28

Station MASSDEP_W2777 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	28
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Assawompset Pond (MA62003)

Location:	Lakeville/Middleborough.
AU Type:	FRESHWATER LAKE
AU Size:	2034 ACRES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for Assawompset Pond (MA62003) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

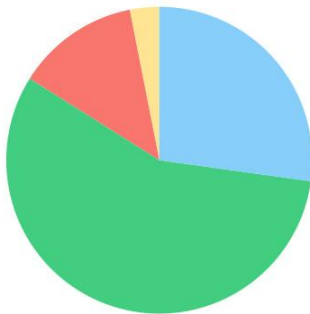
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Assonet River (MA62-19)

Location:	From Lakeville/Freetown corporate boundary to Tisdale Pond Dam (NATID: MA03049) (north of Route 79/Elm Street intersection), Freetown (through former 2016 segment: Forge Pond MA62072) (stream name changes from Cedar Swamp River at Lakeville/Freetown corporate boundary).
AU Type:	RIVER
AU Size:	2.5 MILES
Classification/Qualifier:	B

Assonet River (MA62-19)

Watershed Area: 21.05 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	21.05	13.00	5.30	3.03
Agriculture	3.1%	3.1%	5.7%	6.6%
Developed	13%	12.7%	8.3%	8.2%
Natural	56.7%	58.4%	42.2%	44.7%
Wetland	27.2%	25.9%	43.8%	40.5%
Impervious	4.5%	4.2%	2.9%	2.9%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fish Passage Barrier*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--

Recommendations

2024/26 Recommendations	
2001 IR [Aesthetics, Low] It is recommended that additional aesthetics observations be collected for Assonet River (MA62-19), in particular at Locust Street {W0818}. These data are needed to determine if the prior Alert identified for trash and debris in the river near Locust Street in 2001 can be removed, or if the river has an Trash and Debris impairment.	

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Assonet River (MA62-19) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	YES
2024/26 Use Attainment Summary	
There are no data available to assess the status of the Aesthetics Use for this Assonet River AU (MA62-19), so it is Not Assessed. The prior Alert identified for trash and debris in the river near Locust Street (W0818) in 2001 (MassDEP 2005) is being carried forward.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for the Assonet River (MA62-19) are available, so the Primary Contact Recreation Use is Not Assessed.	

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	

No bacteria or other indicator data for the Assonet River (MA62-19) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected *E. coli* bacteria samples in this Assonet River AU in 2001 at 3 stations in Freetown. Samples were collected from the following stations/sample years from upstream to downstream: the upstream end of the AU at W0817 [Rt. 79 (Richmond Rd)] from Jul-Sep 2001 (n=3), three quarters of the way down at W0860 [Forge Rd (outlet of Forge Pond)] from Jul-Aug 2001 (n=2), and close to the downstream end of the AU at W0818 [Locust St] from Jul-Sep 2001 (n=3). Analysis of the historic single year limited frequency *E. coli* datasets from W0817 and W0818 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM's were 14 and 12 CFU/100ml respectively. The historic *E. coli* data at W0860 are too limited to assess according to the 2024 CALM. While the historic *E. coli* data from W0817 and W0818 were indicative of good water quality conditions, since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0817	MassDEP	Water Quality	Assonet River	[Route 79 (Richmond Road), Freetown]	41.813847	-71.038445
W0818	MassDEP	Water Quality	Assonet River	[Locust Street, Freetown]	41.799291	-71.059991
W0860	MassDEP	Water Quality	Assonet River	[Forge Road (outlet of Forge Pond), Freetown]	41.802293	-71.052381

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

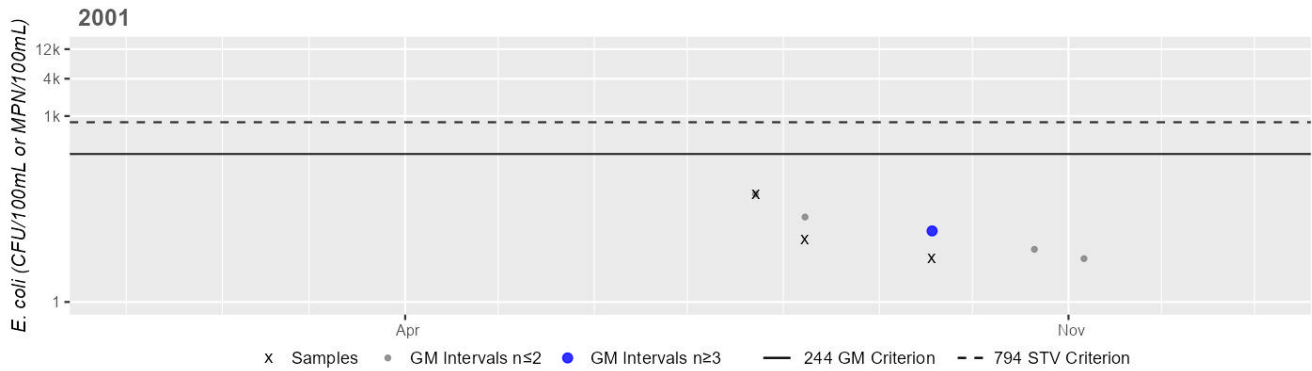
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0817	MassDEP	E. coli	07/23/01	09/18/01	3	5	55	14
W0818	MassDEP	E. coli	07/23/01	09/18/01	3	5	25	12
W0860	MassDEP	E. coli	07/23/01	08/08/01	2	5	5	4

Station MASSDEP_W0817 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



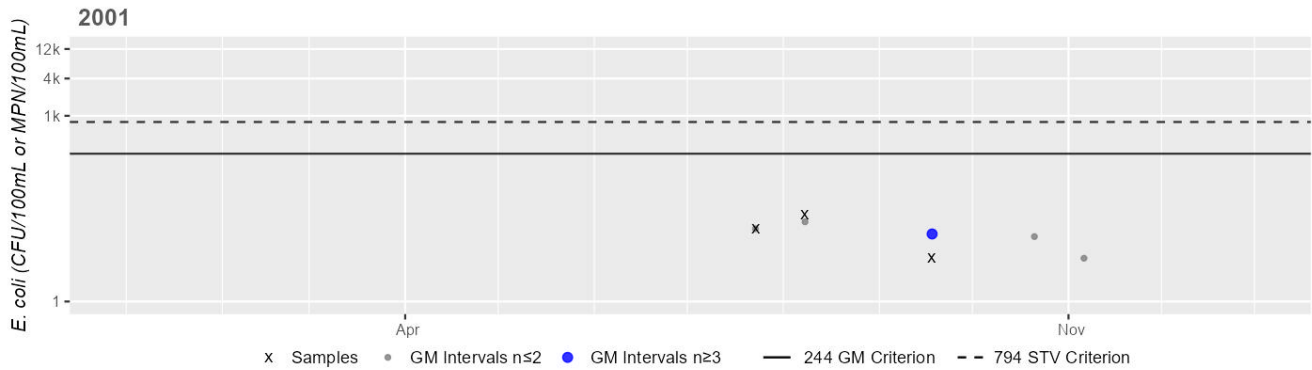
Variable*	Result
Samples	3
SeasGM	14
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W0818 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



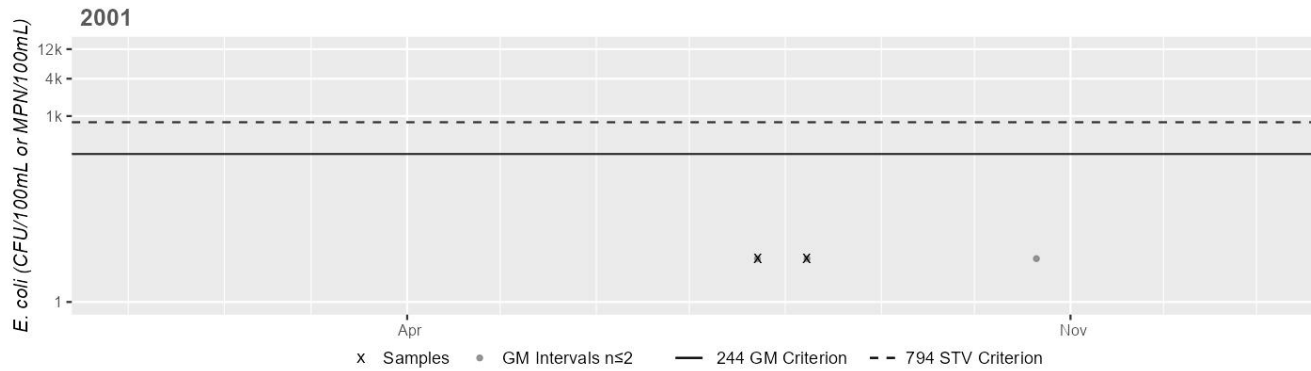
Variable*	Result
Samples	3
SeasGM	12
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W0860 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	5
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Assonet River (MA62-20)

Location:	From Tisdale Pond Dam (NATID: MA03049) (north of Route 79/Elm Street intersection), Freetown to mouth at confluence with the Taunton River, Freetown/Berkley.
AU Type:	ESTUARY
AU Size:	0.82 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	4a	Enterococcus	40309	Changed
5	4a	Fecal Coliform	40309	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Enterococcus	Source Unknown (N)	--	--	--	--	X	--
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Enterococcus	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Final Pathogen TMDL for the Taunton River Watershed (Report CN 256.0, approved 6/16/2011, ATTAINS Action ID: 40309)

Recommendations

2024/26 Recommendations
2024/26IR [Bacteria, Low] Additional high frequency monitoring for <i>Enterococcus</i> is recommended to clarify a possible impairment of the Secondary Contact Recreation Use for Assonet River (MA62-20). This Primary Contact Recreation Use for this AU is already impaired for <i>Enterococcus</i> . Data collected at Taunton River Watershed Alliance station {TRWA_ASO-01} [Assonet R. Bridge, Rt 79] in 2019 was indicative of generally good conditions; however, an Alert was identified since some concentrations were elevated i.e. 1 sample exceeded the 252 CFU/100ml STV (270 CFU) and the overall GM was 73 CFU/100ml. This is of low priority.

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Assonet River (MA62-20) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Assonet River (MA62-20): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.795 sq mi (97%). The approved shellfish growing area represents 0 sq mi (0%). The prohibited shellfish growing area represents 0.795 sq mi (97%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as either entirely prohibited or a combination of approved and prohibited. There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use is evaluated as Not Supporting.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
MHB2.2	Assonet River	Prohibited	0.79499	97.5%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Assonet River (MA62-20) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for the Assonet River (MA62-20) continues to be assessed as Not Supporting. The prior <i>Enterococcus</i> impairment is being carried forward based on bacteria data exceeding thresholds at one station in 2019. The shellfish growing areas (0.795 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), so these data were too limited to assess Primary Contact Recreation Use based on shellfish classification data. Taunton River Watershed Alliance (TRWA) staff/volunteers collected <i>Enterococcus</i> bacteria samples in the Assonet River at TRWA_ASO-01 [Rt 79 bridge] from May-Oct 2019 (n=6). Analysis of the single year limited frequency <i>Enterococcus</i> dataset from this station indicated that 100% of intervals had GMs >35 CFU/100ml. The bacteria data from TRWA_ASO-01 are indicative of an <i>Enterococcus</i> impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
TRWA_ASO-01	Taunton River Watershed Alliance	Water Quality	Assonet River	Assonet R. Bridge, Rt 79	41.793861	-71.067667

Bacteria Data

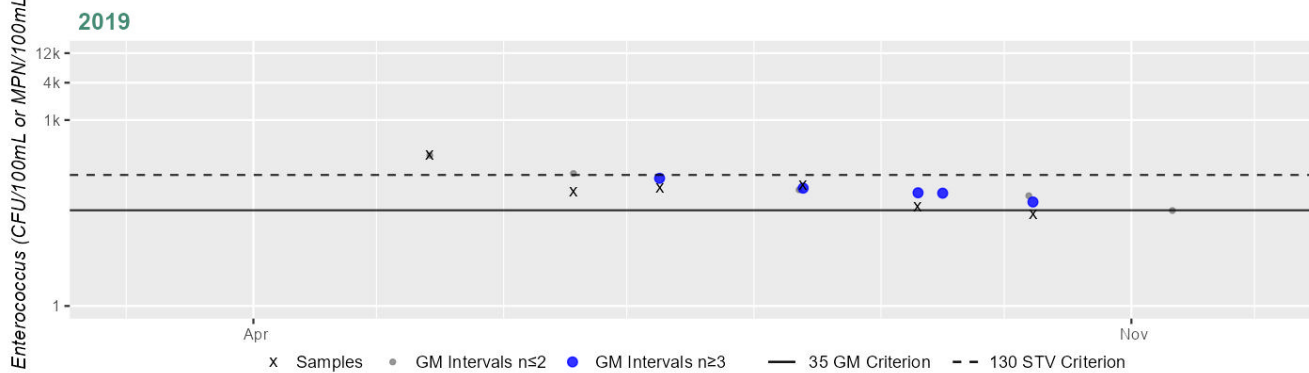
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
 (TRWA 2020) (MassDEP Undated 3)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
TRWA_ASO-01	Taunton River Watershed Association	Enterococci	05/14/19	10/08/19	6	30	270	73

Station TRWA_ASO-01 - Enterococcus

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	73
#GMI	5
#GMI Ex	5
%GMI Ex	100%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Assonet River (MA62-20): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.795 sq mi (97%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES
2024/26 Use Attainment Summary	

The Secondary Contact Recreation Use for the Assonet River (MA62-20) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected at one station in 2019. However, an Alert is being identified for *Enterococcus* and additional sampling is recommended for this AU. The shellfish growing areas (0.795 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), so these data were too limited to assess the Secondary Contact Recreation Use for Assonet River based on shellfish classification data. Taunton River Watershed Alliance (TRWA) staff/volunteers collected *Enterococcus* bacteria samples in the Assonet River at TRWA_ASO-01 [Rt 79 bridge] from May-Oct 2019 (n=6). Analysis of the single year limited frequency *Enterococcus* dataset from this station indicated 40% of intervals had GMs >68 CFU/100ml, 1 sample exceeded the 252 CFU/100ml STV (270 CFU) and the overall GM was 73 CFU/100ml. *Enterococcus* data from TRWA_ASO-01 are indicative of generally good conditions; however, an Alert is being identified since some concentrations were elevated.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
TRWA_ASO-01	Taunton River Watershed Alliance	Water Quality	Assonet River	Assonet R. Bridge, Rt 79	41.793861	-71.067667

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

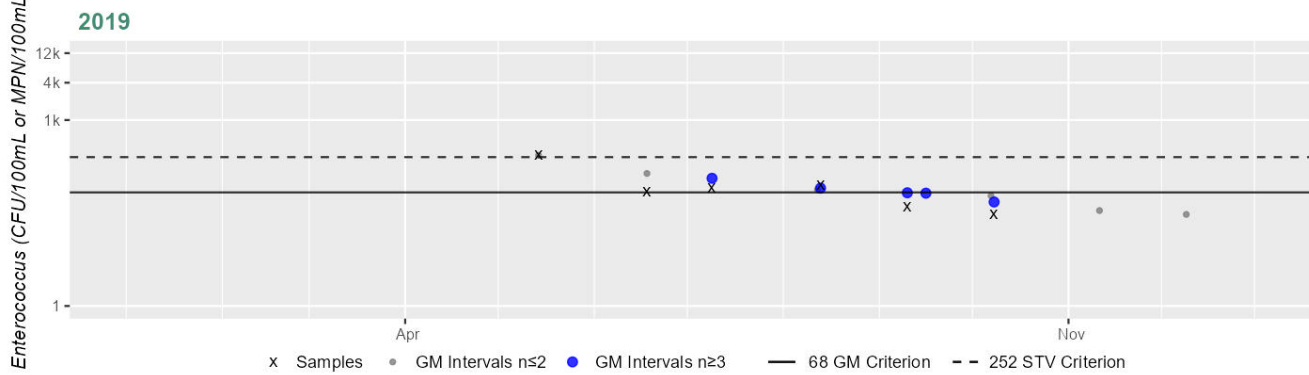
(TRWA 2020) (MassDEP Undated 2)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
TRWA_ASO-01	Taunton River Watershed Association	Enterococci	05/14/19	10/08/19	6	30	270	73

Station TRWA_ASO-01 - Enterococcus

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	73
#GMI	5
#GMI Ex	2
%GMI Ex	40%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
40%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Assonet River (MA62-20): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.795 sq mi (97%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Barrowsville Pond (MA62007)

Location:	Norton.
AU Type:	FRESHWATER LAKE
AU Size:	31 ACRES
Classification/Qualifier:	B: WWF

No usable data were available for Barrowsville Pond (MA62007) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Water Chestnut*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Water Chestnut*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Beaumont Pond (MA62009)

Location:	Foxborough.
AU Type:	FRESHWATER LAKE
AU Size:	24 ACRES
Classification/Qualifier:	B

No usable data were available for Beaumont Pond (MA62009) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

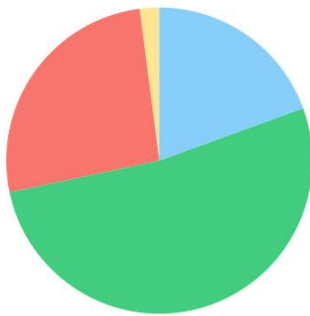
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Beaver Brook (MA62-09)

Location:	Outlet Cleveland Pond, Abington to mouth at confluence with Salisbury Plain River forming headwaters Matfield River, East Bridgewater.
AU Type:	RIVER
AU Size:	6.8 MILES
Classification/Qualifier:	B

Beaver Brook (MA62-09)

Watershed Area: 9.67 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	9.67	3.49	2.40	1.02
Agriculture	2.1%	5.2%	2.1%	5.1%
Developed	26.3%	26.8%	12.9%	15.2%
Natural	52.2%	48.5%	50.9%	44.1%
Wetland	19.4%	19.5%	34%	35.7%
Impervious	13.4%	12.9%	6.5%	6.9%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Escherichia Coli (E. Coli)	40308	Unchanged
4a	4a	Fecal Coliform	40308	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	--
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Fecal Coliform	Source Unknown (N)	--	--	--	X	--

Recommendations

2024/26 Recommendations

2024/26IR [Bacteria, Low] High frequency follow-up monitoring should be conducted in Beaver Brook (MA62-09), especially close to the downstream end at stations W2469 [Elm St, East Bridgewater] and W1497 [Belmont St bridge, East Bridgewater], to determine if *E. coli* may be impairing the Secondary Contact Recreation use. In 2014 at station {W2469} 1 sample exceeded the STV threshold (maximum 2,420 CFU) and at station {W1497} >57% of the GMs were >244 CFU/100ml in 2019 so that cumulatively across 2014 & 2019 50% of intervals exceeded the threshold. Note that the Primary Contact Use is already impaired for *E. coli*. This is of low priority;

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary

Fish toxics sampling has not been conducted, so the Fish Consumption Use for Beaver Brook (MA62-09) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for this Beaver Brook AU (MA62-09) will continue to be assessed as Fully Supporting based on the observations made at three stations during summers of 2014 and 2019. The Alert previously identified for turbidity (based on observations made by MassDEP field staff at W1497 in 2014) is being removed, since turbid water was not observed at any time in eight visits to the same station in 2019. MassDEP staff recorded aesthetics observations in the downstream half of this Beaver Brook AU at three stations during the summer of 2014, as part the MassDEP Bacteria Source Tracking (BST) project and at one station during the summer of 2019 for selected monitoring. From up to downstream these stations are as follows: at Summer Street in East Bridgewater (W2471 in 2014, n=3), at Elm Street in East Bridgewater (W2469 in 2014, n=3), and at the Belmont Street bridge in East Bridgewater (W1497 in 2014, n=3 & 2019 n=8). There were generally no persistent objectionable conditions (odors, growths, or deposits) recorded by MassDEP field sampling crews at any station, although moderate turbidity was observed on three occasions at W1497 in 2014.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1497	MassDEP	Water Quality	Beaver Brook	[Belmont Street bridge, East Bridgewater]	42.045506	-70.970740
W2469	MassDEP	Water Quality	Beaver Brook	[Elm Street, East Bridgewater]	42.051225	-70.970350
W2471	MassDEP	Water Quality	Beaver Brook	[Summer Street, East Bridgewater]	42.061672	-70.971889

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W1497	2014	3	Aesthetic observations were made by MassDEP field sampling crews at Station W1497 on Beaver Brook (MA62-09) during 3 site visits between Jun 2014 and Sep 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted moderate turbidity (n=3).
W1497	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W1497 on Beaver Brook (MA62-09) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2469	2014	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2469 on Beaver Brook (MA62-09) during 3 site visits between Jun 2014 and Sep 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2471	2014	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2471 on Beaver Brook (MA62-09) during 3 site visits between Jun 2014 and Sep 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W1497	2014	3	3	0
W1497	2019	8	8	0
W2469	2014	3	3	0
W2471	2014	3	2	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1497	Beaver Brook	2014	Aquatic Plant Density, Overall	None	2	3
W1497	Beaver Brook	2014	Aquatic Plant Density, Overall	Sparse	1	3
W1497	Beaver Brook	2014	Color	Light Yellow/Tan	1	3
W1497	Beaver Brook	2014	Color	None	2	3
W1497	Beaver Brook	2014	Odor	Musty (Basement)	1	3
W1497	Beaver Brook	2014	Odor	None	2	3
W1497	Beaver Brook	2014	Periphyton Density, Filamentous	None	3	3
W1497	Beaver Brook	2014	Periphyton Density, Film	Moderate	2	3
W1497	Beaver Brook	2014	Periphyton Density, Film	None	1	3
W1497	Beaver Brook	2014	Turbidity	Moderately Turbid	3	3
W1497	Beaver Brook	2019	Aesthetics Impaired?	No	8	8
W1497	Beaver Brook	2019	Aquatic Plant Density, Overall	None	4	8
W1497	Beaver Brook	2019	Aquatic Plant Density, Overall	Sparse	4	8
W1497	Beaver Brook	2019	Color	Brownish	1	8
W1497	Beaver Brook	2019	Color	Light Yellow/Tan	6	8
W1497	Beaver Brook	2019	Color	None	1	8
W1497	Beaver Brook	2019	Objectionable Deposits	No	7	8
W1497	Beaver Brook	2019	Objectionable Deposits	Yes	1	8
W1497	Beaver Brook	2019	Odor	None	8	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1497	Beaver Brook	2019	Periphyton Density, Filamentous	None	8	8
W1497	Beaver Brook	2019	Periphyton Density, Film	None	8	8
W1497	Beaver Brook	2019	Scum	No	8	8
W1497	Beaver Brook	2019	Turbidity	Moderately Turbid	1	8
W1497	Beaver Brook	2019	Turbidity	None	2	8
W1497	Beaver Brook	2019	Turbidity	Slightly Turbid	5	8
W2469	Beaver Brook	2014	Aquatic Plant Density, Overall	None	2	3
W2469	Beaver Brook	2014	Aquatic Plant Density, Overall	Sparse	1	3
W2469	Beaver Brook	2014	Color	Light Yellow/Tan	1	3
W2469	Beaver Brook	2014	Color	None	2	3
W2469	Beaver Brook	2014	Odor	None	3	3
W2469	Beaver Brook	2014	Periphyton Density, Filamentous	None	3	3
W2469	Beaver Brook	2014	Periphyton Density, Film	Moderate	1	3
W2469	Beaver Brook	2014	Periphyton Density, Film	None	1	3
W2469	Beaver Brook	2014	Periphyton Density, Film	Sparse	1	3
W2469	Beaver Brook	2014	Turbidity	Moderately Turbid	2	3
W2469	Beaver Brook	2014	Turbidity	Slightly Turbid	1	3
W2471	Beaver Brook	2014	Aquatic Plant Density, Overall	None	3	3
W2471	Beaver Brook	2014	Color	Light Yellow/Tan	1	3
W2471	Beaver Brook	2014	Color	None	2	3
W2471	Beaver Brook	2014	Odor	None	3	3
W2471	Beaver Brook	2014	Periphyton Density, Filamentous	None	2	3
W2471	Beaver Brook	2014	Periphyton Density, Filamentous	Unobservable	1	3
W2471	Beaver Brook	2014	Periphyton Density, Film	Sparse	2	3
W2471	Beaver Brook	2014	Periphyton Density, Film	Unobservable	1	3
W2471	Beaver Brook	2014	Turbidity	Moderately Turbid	1	3
W2471	Beaver Brook	2014	Turbidity	Slightly Turbid	2	3

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Beaver Brook (MA62-09) continues to be assessed as Not Supporting. The prior *Escherichia coli* (*E. coli*) impairment is being carried forward based on bacteria data collected at two stations in 2014 & 2019. The prior Fecal Coliform impairment is also being carried forward. MassDEP staff collected *E. coli* bacteria samples in Beaver Brook from 2014-2019 at three stations in East Bridgewater. Samples were collected from the following stations/sample years from upstream to downstream: two-thirds of the way down the AU at W2471 [Summer St] from Jun-Sep 2014 (n=3), close to the downstream end of the AU at W2469 [Elm St] from Jun-Sep 2014 (n=3) and at W1497 [Belmont St bridge] in 2014 and 2019 (n=3-6/yr). Analysis of the single year limited frequency *E. coli* dataset from W2471 indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 31 CFU/100ml. However, analysis of the single year limited frequency *E. coli* dataset from W2469 indicated 100% of intervals had GMs >126 CFU/100ml, with a seasonal GM of 184 CFU/100ml. Also analysis of the multi-year limited frequency *E. coli* dataset from W1497 indicated both of the 2 sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml (100% in both 2014 and 2019), so that cumulatively across years 100% of intervals had GMs >126 CFU/100ml. While *E. coli* data from W2471 were indicative of good water quality conditions, the data from W2469 and W1497 are indicative of an *E. coli* impairment. Additional bacteria sampling was conducted in 2011 & 2014 as part of the MassDEP Bacteria Source Tracking (BST) project, samples were collected at three stations along Beaver Brook. It was reported that the incidences of elevated bacteria concentrations noted by the BST project coincided with episodes of very low flow in 2014. Overall, considering bacteria and other BST data, it was concluded that the data did not suggest the presence of a human source of bacteria in this watershed.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1497	MassDEP	Water Quality	Beaver Brook	[Belmont Street bridge, East Bridgewater]	42.045506	-70.970740
W2469	MassDEP	Water Quality	Beaver Brook	[Elm Street, East Bridgewater]	42.051225	-70.970350
W2471	MassDEP	Water Quality	Beaver Brook	[Summer Street, East Bridgewater]	42.061672	-70.971889

Bacteria Data

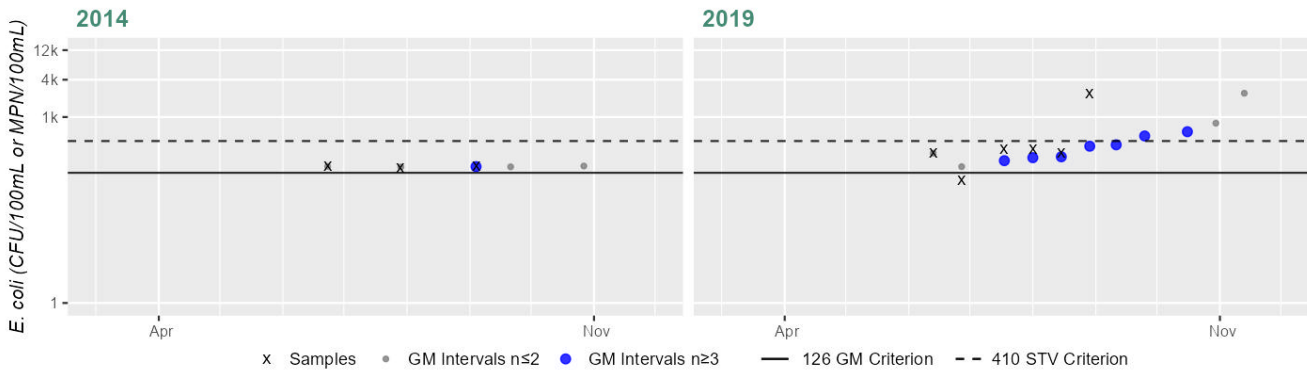
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1497	MassDEP	E. coli	06/23/14	09/04/14	3	153	162	158
W1497	MassDEP	E. coli	06/13/19	08/29/19	6	96	2420	338
W2469	MassDEP	E. coli	06/23/14	09/04/14	3	16	2420	184
W2471	MassDEP	E. coli	06/23/14	09/04/14	3	6	84	31

Station MASSDEP_W1497 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	3
SeasGM	158
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	0
%n>STV	0%

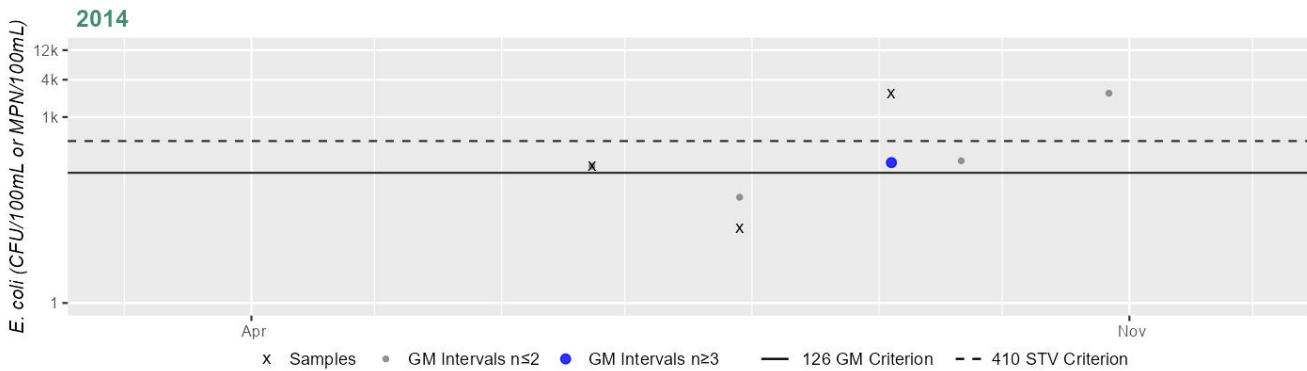
Variable*	Result
Samples	6
SeasGM	338
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
 Current (2011-2022)
 100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2469 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



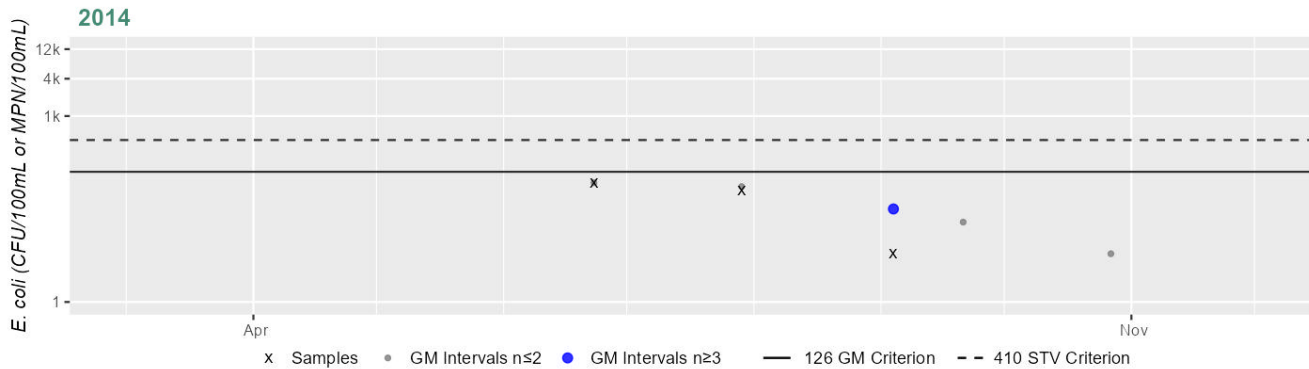
Variable*	Result
Samples	3
SeasGM	184
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	1
%n>STV	33%

Cumulative %GMI Exceedance
 Current (2011-2022)
 100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2471 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	3
SeasGM	31
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Summary Statement for 2011-2019 MassDEP Bacteria Source Tracking (BST) Data (MassDEP Undated 1)

Summary

BST work was conducted in 2011 & 2014 at 3 sites along the Beaver Brook AU (MA62-09) with *E. coli* concentrations ranging 6 to 2,419.6MPN. BST work was also conducted in 1 unnamed tributary in 2014, with a max *E. coli* concentration of >2419.6MPN. It was noted that the incidences of elevated bacteria concentrations coincided with episodes of very low flow in 2014. Overall, it was concluded that the data collected did not suggest the presence of a human source of bacteria in this watershed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES
2024/26 Use Attainment Summary	

The Secondary Contact Recreation Use for Beaver Brook (MA62-09) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2014 and 2019 at three stations. MassDEP staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in Beaver Brook from 2006-2019 at four stations. Samples were collected from the following stations/sample years from upstream to downstream: halfway down the AU at W1496 [Crescent St (Rt. 27) bridge, Brockton] from May-Oct 2006 (n=4), two-thirds of the way down the AU at W2471 [Summer St, East Bridgewater] from Jun-Sep 2014 (n=3), close to the downstream end at W2469 [Elm St, East Bridgewater] from Jun-Sep 2014 (n=3) and W1497 [Belmont St bridge, East Bridgewater] from May-Oct 2006 (historic n=4) also 2014 & 2019 (current n=3-6/yr). Since bacteria data from the historic IR window are all indicative of good water quality conditions, only the analysis from the current IR window will be summarized here. Analysis of the single year limited frequency *E. coli* dataset from W2471 indicated 0% of intervals had GMs >244 CFU/100ml, 0 samples exceeded the 794 CFU/100ml STV, and the overall GM was 31 CFU/100ml. Analysis of the single year limited frequency *E. coli* dataset from W2469 indicated 0% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV (maximum 2,420 CFU) and the overall GM was 184 CFU/100ml. Analysis of the multi-year limited frequency *E. coli* dataset from W1497 indicated that while only 1 out of 2 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml (2019, 57%) and 0 yrs had ≥2 samples exceed the 794 CFU/100ml STV, cumulatively across years 50% of intervals had GMs >244 CFU/100ml. Since *E. coli* data from W2469 are single year, limited frequency and analysis of the data resulted in a GM below the threshold but also an exceedance of the STV threshold, the data from this station are too limited to assess the Secondary Contact Recreation Use. While most of the *E. coli* data collected in both the historic & the current IR window for Beaver Brook are indicative of good water quality conditions an Alert is being identified for *Escherichia coli* (*E. coli*) at station W1497 based on the current IR window data (2014 & 2019). Bacteria sampling was conducted in 2011 & 2014 as part of the MassDEP Bacteria Source Tracking (BST) project, with much of the data summarized above here. It was reported that the incidences of elevated bacteria concentrations coincided with episodes of very low flow in 2014. Overall, considering bacteria and other BST data, it was concluded that the data did not suggest the presence of a human source of bacteria in this watershed.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1496	MassDEP	Water Quality	Beaver Brook	[Crescent Street (Route 27) bridge, Brockton]	42.081538	-70.986037
W1497	MassDEP	Water Quality	Beaver Brook	[Belmont Street bridge, East Bridgewater]	42.045506	-70.970740
W2469	MassDEP	Water Quality	Beaver Brook	[Elm Street, East Bridgewater]	42.051225	-70.970350
W2471	MassDEP	Water Quality	Beaver Brook	[Summer Street, East Bridgewater]	42.061672	-70.971889

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

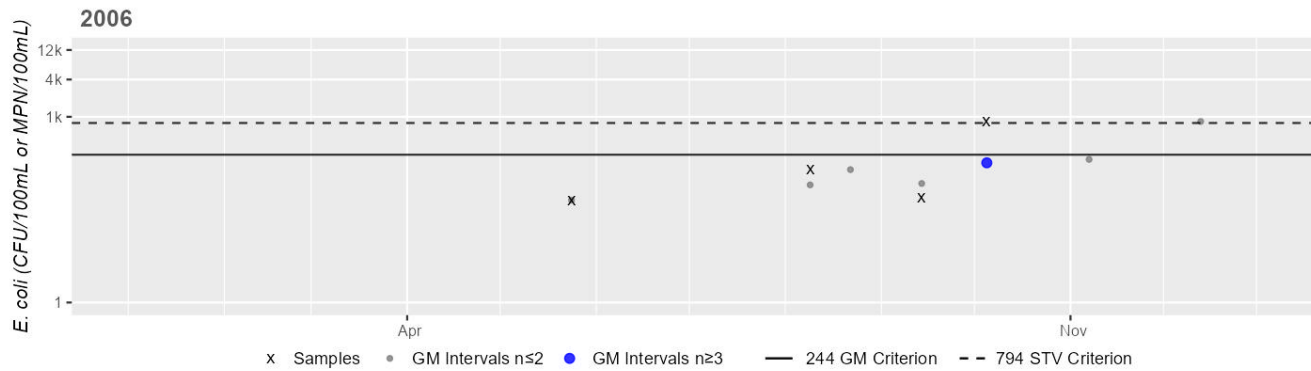
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1496	MassDEP	E. coli	05/24/06	10/05/06	4	45	840	127
W1497	MassDEP	E. coli	05/24/06	10/05/06	4	30	210	75
W1497	MassDEP	E. coli	06/23/14	09/04/14	3	153	162	158
W1497	MassDEP	E. coli	06/13/19	08/29/19	6	96	2420	338
W2469	MassDEP	E. coli	06/23/14	09/04/14	3	16	2420	184
W2471	MassDEP	E. coli	06/23/14	09/04/14	3	6	84	31

Station MASSDEP_W1496 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



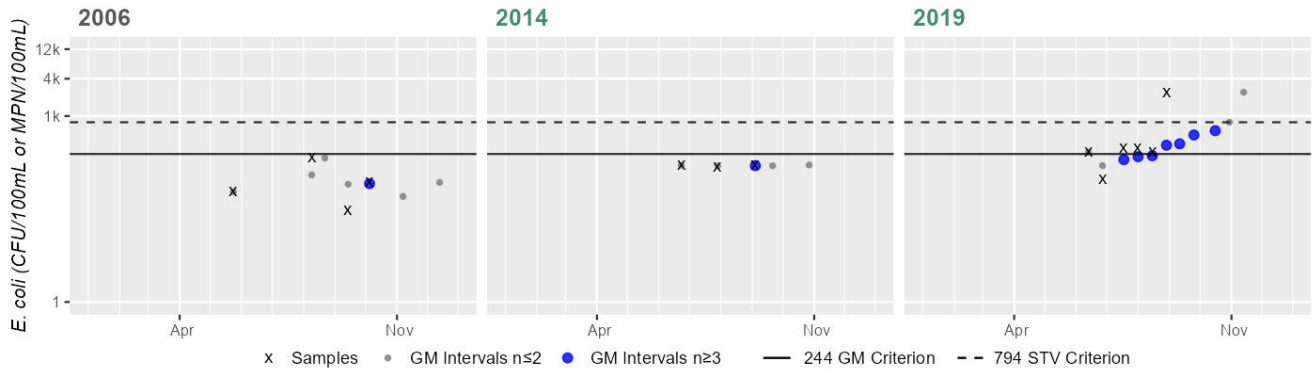
Variable*	Result
Samples	4
SeasGM	127
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	25%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1497 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	75
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	3
SeasGM	158
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

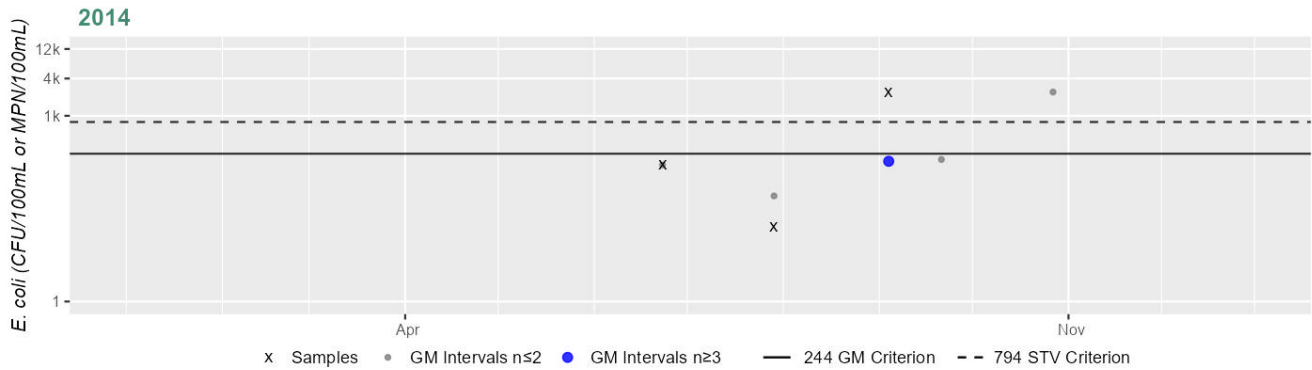
Variable*	Result
Samples	6
SeasGM	338
#GMI	7
#GMI Ex	4
%GMI Ex	57%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
 Historic (1997-2010) 0%
 Current (2011-2022) 50%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2469 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



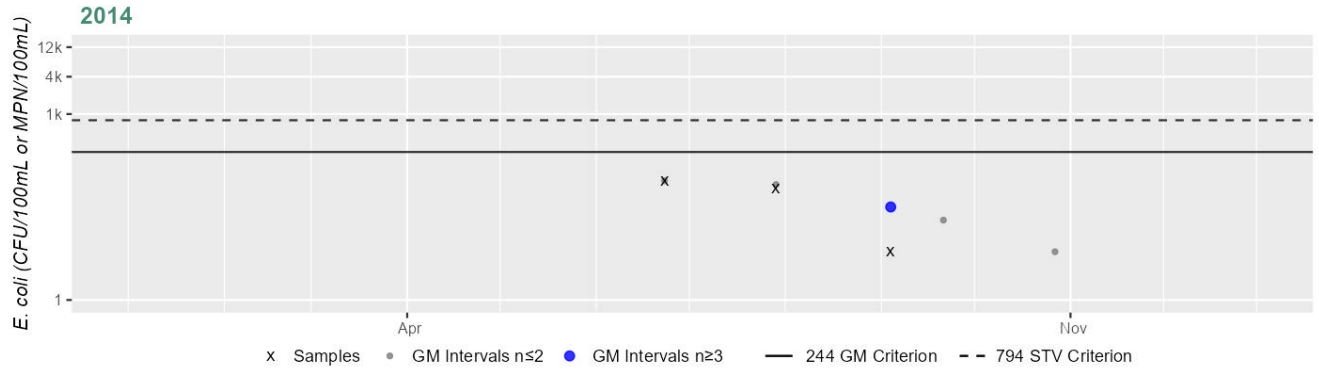
Variable*	Result
Samples	3
SeasGM	184
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	33%

Cumulative %GMI Exceedance
 Current (2011-2022) 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2471 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	3
SeasGM	31
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Beaver Brook (MA62-30)

Location:	Headwaters, perennial portion, just west of Bay Road, Easton to mouth at inlet of Old Pond, Easton.
AU Type:	RIVER
AU Size:	1.4 MILES
Classification/Qualifier:	B

No usable data were available for Beaver Brook (MA62-30) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Big Bearhole Pond (MA62011)

Location:	Taunton.
AU Type:	FRESHWATER LAKE
AU Size:	38 ACRES
Classification/Qualifier:	B

No usable data were available for Big Bearhole Pond (MA62011) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
5	5	(Fanwort*)	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Eurasian Water Milfoil, Myriophyllum Spicatum*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--

Briggs Pond (MA62021)

Location:	Sharon.
AU Type:	FRESHWATER LAKE
AU Size:	19 ACRES
Classification/Qualifier:	B

No usable data were available for Briggs Pond (MA62021) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Broad Cove (MA62-50)

Location:	Dighton/Somerset (formerly reported as 2004 lake segment: Broad Cove MA62022).
AU Type:	ESTUARY
AU Size:	0.13 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	40309	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Broad Cove (MA62-50) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

Broad Cove (MA62-50): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1231 sq mi (98%). The approved shellfish growing area represents 0 sq mi (0%). The prohibited shellfish growing area represents 0.123 sq mi (98%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as either entirely prohibited or a combination of approved and prohibited. There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use is evaluated as Not Supporting.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
MHB2.0	Taunton River	Restricted	0.00014	0.1%
MHB2.7	Broad Cove	Prohibited	0.12295	97.6%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Broad Cove (MA62-50) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Primary Contact Recreation Use for Broad Cove (MA62-50) so it is assessed as having Insufficient Information. The shellfish growing areas (0.1231 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), so these data were too limited to assess Primary Contact Recreation Use for Broad Cove based on shellfish classification data.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Broad Cove (MA62-50): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1231 sq mi (98%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
<p>No bacteria data are available to assess the Secondary Contact Recreation Use for Broad Cove (MA62-50) so it is assessed as having Insufficient Information. The shellfish growing areas (0.1231 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), so these data were too limited to assess Secondary Contact Recreation Use based on shellfish classification data.</p>

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
<p>Broad Cove (MA62-50): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.1231 sq mi (98%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.</p>

Brockton Reservoir (MA62023)

Location:	Avon.
AU Type:	FRESHWATER LAKE
AU Size:	89 ACRES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for Brockton Reservoir (MA62023) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fanwort*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Cain Pond (MA62030)

Location:	Taunton.
AU Type:	FRESHWATER LAKE
AU Size:	3 ACRES
Classification/Qualifier:	B

No usable data were available for Cain Pond (MA62030) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Dissolved Oxygen	--	Unchanged
5	5	Turbidity	--	Unchanged

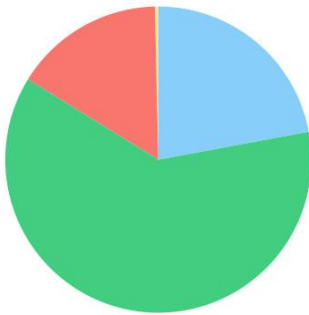
Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
Turbidity	Source Unknown (N)	--	--	X	X	X

Canoe River (MA62-64)

Location:	Headwaters in wetland east of Cow Hill, Sharon to inlet Beaumont Pond, Foxborough (formerly part of 2014 segment: Canoe River MA62-27).
AU Type:	RIVER
AU Size:	3.1 MILES
Classification/Qualifier:	B

Canoe River (MA62-64)

Watershed Area: 2.77 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	2.77	2.77	0.99	0.99
Agriculture	0.4%	0.4%	0%	0%
Developed	15.8%	15.8%	12.9%	12.9%
Natural	61.7%	61.7%	49%	49%
Wetland	22.1%	22.1%	38.1%	38.1%
Impervious	6.9%	6.9%	5.2%	5.2%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Canoe River (MA62-64) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Canoe River (MA62-64) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for the Canoe River (MA62-64) are available, so the Primary Contact Recreation Use is Not Assessed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
<p>No bacteria or other indicator data for the Canoe River (MA62-64) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in this Canoe River AU from 2001-2006 at two stations. Samples were collected from the following stations/sample years from upstream to downstream: three-quarters of the way down at W1505 [Willow St bridge, Foxborough] from May-Oct 2006 (n=4) and at the downstream end of the AU at W0830 [East St, Foxborough] from Aug-Sep 2001 (n=2). Historic <i>E. coli</i> data from W0830 are too limited according to the 2024 CALM to assess the Secondary Contact Recreation Use. While historic <i>E. coli</i> data from W1505 were indicative of good water quality conditions, since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0830	MassDEP	Water Quality	Canoe River	[East Street, Foxborough]	42.056592	-71.196439
W1505	MassDEP	Water Quality	Canoe River	[Willow Street bridge, Foxborough]	42.063325	-71.195042

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

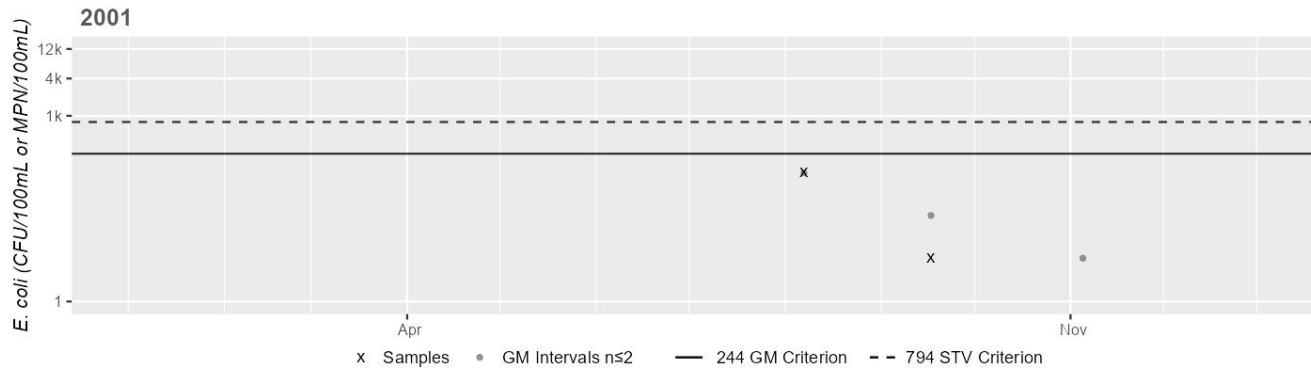
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0830	MassDEP	E. coli	08/07/01	09/17/01	2	5	120	24
W1505	MassDEP	E. coli	05/24/06	10/05/06	4	10	80	25

Station MASSDEP_W0830 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	24
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Historic (1997-2010)

0%

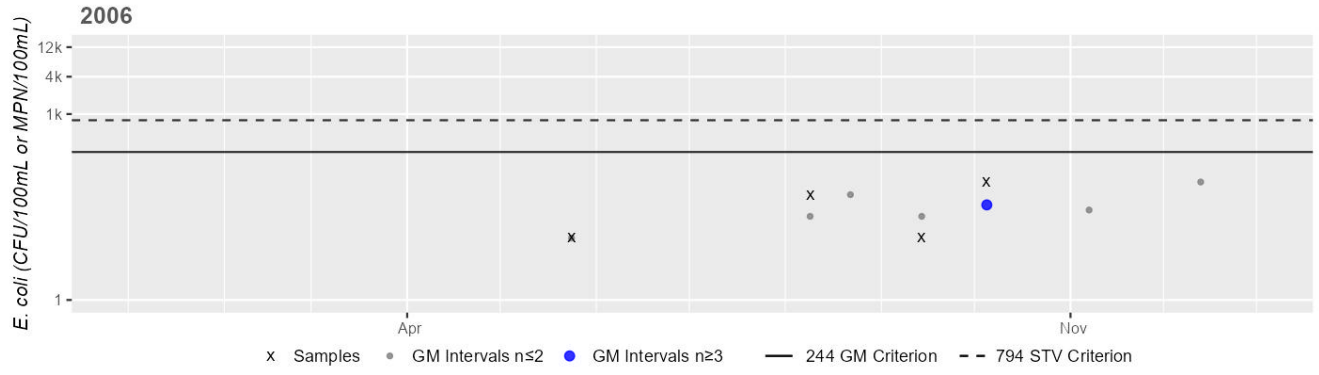
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;

%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;

"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1505 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	25
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Canoe River (MA62-65)

Location:	From outlet of Beaumont Pond, Foxborough to inlet of Hartwell School Pond, Mansfield (formerly part of 2014 segment: Canoe River MA62-27).
AU Type:	RIVER
AU Size:	3.8 MILES
Classification/Qualifier:	B

No usable data were available for Canoe River (MA62-65) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Canoe River (MA62-66)

Location:	From outlet of Hartwell School Pond, Mansfield to mouth at inlet Winnecunnet Pond, Norton (formerly part of 2014 segment: Canoe River MA62-27).
AU Type:	RIVER
AU Size:	6.9 MILES
Classification/Qualifier:	B

Canoe River (MA62-66)

Watershed Area: 18.80 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	18.80	5.86	7.55	2.15
Agriculture	1.8%	2.6%	1.2%	2.1%
Developed	22.9%	21.1%	15.2%	13.1%
Natural	53.2%	50.5%	46.3%	40.2%
Wetland	22.2%	25.8%	37.4%	44.6%
Impervious	10.5%	9.1%	6.7%	5.3%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	5	Escherichia Coli (E. Coli)	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--

Recommendations

2024/26 Recommendations
2024/26IR [Bacteria, Low] Conduct additional high frequency bacteria sampling/analysis on Canoe River (MA62-66) to better evaluate the extent of the impairment for <i>E. coli</i> . An Alert was identified on the Secondary Contact Recreation Use based on data collected in 2019 at {W2833} Rt. 495 southbound exit ramp to Rt. 123 (Eastman St) Norton. This is of low priority;

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Canoe River (MA62-66) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO
2024/26 Use Attainment Summary	
The Aesthetics Use for Canoe River (MA62-66) is assessed as Fully Supporting based on the lack of objectionable conditions observed during the summer of 2019. MassDEP staff recorded aesthetics observations approximately three-quarters of the way down this Canoe River AU at W2833 [Rt. 495 southbound exit ramp to Rt. 123 (Eastman St), Norton] for a selected monitoring project during the summer of 2019 (n=8). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded during the surveys.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2833	MassDEP	Water Quality	Canoe River	[Route 495 southbound exit ramp to Route 123 (Eastman Street), Norton]	41.981775	-71.161188

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2833	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2833 on Canoe River (MA62-66) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2833	2019	8	7	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2833	Canoe River	2019	Aesthetics Impaired?	No	8	8
W2833	Canoe River	2019	Aquatic Plant Density, Overall	None	8	8
W2833	Canoe River	2019	Color	Light Yellow/Tan	7	8
W2833	Canoe River	2019	Color	None	1	8
W2833	Canoe River	2019	Objectionable Deposits	No	8	8
W2833	Canoe River	2019	Odor	None	8	8
W2833	Canoe River	2019	Periphyton Density, Filamentous	None	7	8
W2833	Canoe River	2019	Periphyton Density, Filamentous	Unobservable	1	8
W2833	Canoe River	2019	Periphyton Density, Film	Moderate	1	8
W2833	Canoe River	2019	Periphyton Density, Film	None	6	8
W2833	Canoe River	2019	Periphyton Density, Film	Unobservable	1	8
W2833	Canoe River	2019	Scum	No	6	8
W2833	Canoe River	2019	Scum	Yes	2	8
W2833	Canoe River	2019	Turbidity	None	5	8
W2833	Canoe River	2019	Turbidity	Slightly Turbid	3	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Canoe River (MA62-66) is assessed as Not Supporting, with an *Escherichia coli* (*E. coli*) impairment being added. MassDEP staff collected *E. coli* bacteria samples approximately three-quarters of the way down this Canoe River AU at W2833 [Rt. 495 southbound exit ramp to Rt. 123 (Eastman St), Norton] from Jun-Aug 2019 (n=6). Analysis of the single year limited frequency dataset from W2833 indicated 100% of intervals had GMs >126 CFU/100ml, with a seasonal GM of 256 CFU/100ml, which is indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2833	MassDEP	Water Quality	Canoe River	[Route 495 southbound exit ramp to Route 123 (Eastman Street), Norton]	41.981775	-71.161188

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

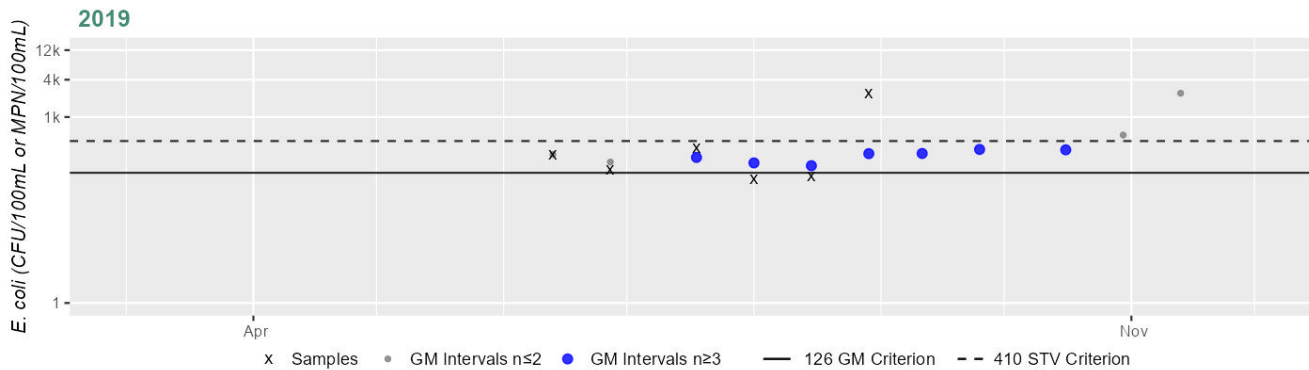
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2833	MassDEP	E. coli	06/13/19	08/29/19	6	99	2420	256

Station MASSDEP_W2833 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	256
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance

Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for the Canoe River (MA62-66) is assessed as Fully Supporting, based on a re-evaluation of bacteria data collected from in 2019 at one station. However, an Alert is being identified for <i>Escherichia coli</i> (<i>E. coli</i>). MassDEP staff collected <i>E. coli</i> bacteria samples approximately three-quarters of the way down this Canoe River AU at W2833 [Rt. 495 southbound exit ramp to Rt. 123 (Eastman St), Norton] from Jun-Aug 2019 (n=6). Analysis of the single year limited frequency <i>E. coli</i> dataset from W2833 indicated 57% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV (2,420 CFU/100ml), and the overall GM was 256 CFU/100ml. An Alert is being identified for <i>E. coli</i> based on the data collected at W2833.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2833	MassDEP	Water Quality	Canoe River	[Route 495 southbound exit ramp to Route 123 (Eastman Street), Norton]	41.981775	-71.161188

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

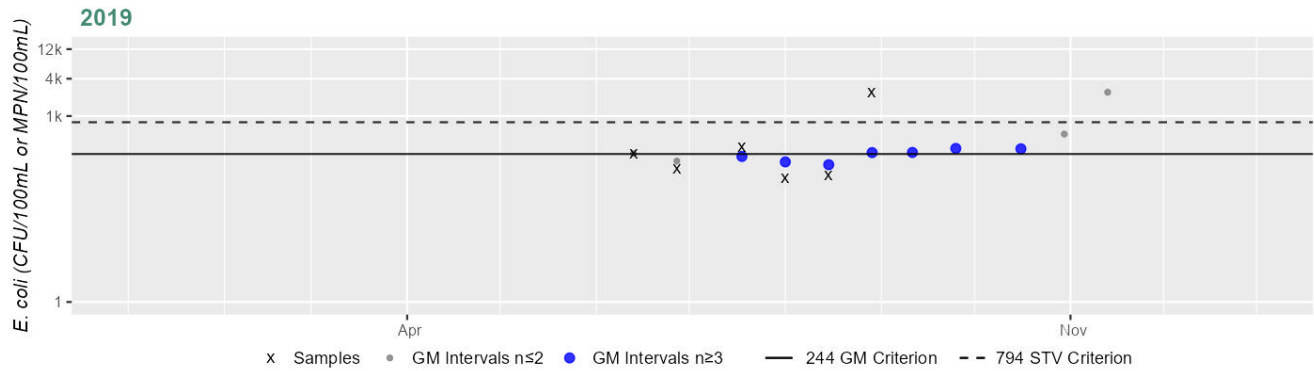
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2833	MassDEP	E. coli	06/13/19	08/29/19	6	99	2420	256

Station MASSDEP_W2833 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	256
#GMI	7
#GMI Ex	4
%GMI Ex	57%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
 57%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Carpenter Pond (MA62032)

Location:	Foxborough.
AU Type:	FRESHWATER LAKE
AU Size:	29 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Carpenter Pond (MA62032) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Carver Pond (MA62033)

Location:	Bridgewater.
AU Type:	FRESHWATER LAKE
AU Size:	29 ACRES
Classification/Qualifier:	B

No usable data were available for Carver Pond (MA62033) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Cedar Swamp River (MA62-44)

Location:	Headwaters south of Freetown Street, Lakeville to Lakeville/Freetown corporate boundary (stream name changes to Assonet River at Lakeville/Freetown corporate boundary).
AU Type:	RIVER
AU Size:	5.3 MILES
Classification/Qualifier:	B

Cedar Swamp River (MA62-44)

Watershed Area: 15.40 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	15.40	12.07	3.84	3.24
Agriculture	3.5%	4.3%	7.4%	8.8%
Developed	11.1%	12%	7.1%	6.9%
Natural	54.5%	51.9%	37.2%	34.3%
Wetland	30.9%	31.8%	48.3%	50%
Impervious	4%	4.3%	2.5%	2.4%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	2	None	--	Unchanged

Recommendations

2024/26 Recommendations
2024/26 [Aesthetics, Low] It is recommended that additional aesthetics observations be collected for Cedar Swamp River (MA62-44) primarily at Malbone Street {W0816}, since an Alert for Trash and Debris has been in place for this AU since 2001 based on observations of trash and debris at Malbone Street in 2001 and again in 2019. Should this AU be impaired for Aesthetics? This is of low priority.

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Cedar Swamp River (MA62-44) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary
The Aesthetics Use for Cedar Swamp River (MA62-44) is assessed as Fully Supporting based on the general lack of objectionable conditions noted by MassDEP staff during the summer of 2019. The prior alert identified for trash and debris based on observations made in 2001 (MassDEP 2005) is being carried forward, confirmed by additional observations of light trash (at Malbone Street) in 2019. MassDEP staff recorded aesthetics observations at one station close to the upstream end of this Cedar Swamp River AU at Malbone Street, Lakeville (W0816), for selected monitoring during the summer of 2019 (n=8). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff raised an aesthetics impairment flag due to a strong hydrogen sulfide odor in August 2019 and light trash was noted on two occasions, which clarifies the prior Alert.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0816	MassDEP	Water Quality	Cedar Swamp River	[Malbone Street, Lakeville]	41.819896	-71.027176

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W0816	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W0816 on Cedar Swamp River (MA62-44) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted an aesthetics impairment flag (n=1) and objectionable deposits (n=2).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W0816	2019	8	1	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0816	Cedar Swamp River	2019	Aesthetics Impaired?	No	7	8
W0816	Cedar Swamp River	2019	Aesthetics Impaired?	Yes	1	8
W0816	Cedar Swamp River	2019	Aquatic Plant Density, Overall	None	2	8
W0816	Cedar Swamp River	2019	Aquatic Plant Density, Overall	Sparse	1	8
W0816	Cedar Swamp River	2019	Aquatic Plant Density, Overall	Unobservable	5	8
W0816	Cedar Swamp River	2019	Color	Brownish	2	8
W0816	Cedar Swamp River	2019	Color	Light Yellow/Tan	3	8
W0816	Cedar Swamp River	2019	Color	Reddish	3	8
W0816	Cedar Swamp River	2019	Objectionable Deposits	No	5	8
W0816	Cedar Swamp River	2019	Objectionable Deposits	Unobservable	1	8
W0816	Cedar Swamp River	2019	Objectionable Deposits	Yes	2	8
W0816	Cedar Swamp River	2019	Odor	Musty (Basement)	3	8
W0816	Cedar Swamp River	2019	Odor	None	3	8
W0816	Cedar Swamp River	2019	Odor	Raw sewage	1	8
W0816	Cedar Swamp River	2019	Odor	Sulfide (rotten egg)	1	8
W0816	Cedar Swamp River	2019	Periphyton Density, Filamentous	Moderate	1	8
W0816	Cedar Swamp River	2019	Periphyton Density, Filamentous	Unobservable	7	8
W0816	Cedar Swamp River	2019	Periphyton Density, Film	None	1	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0816	Cedar Swamp River	2019	Periphyton Density, Film	Unobservable	7	8
W0816	Cedar Swamp River	2019	Scum	No	5	8
W0816	Cedar Swamp River	2019	Scum	Yes	3	8
W0816	Cedar Swamp River	2019	Turbidity	None	5	8
W0816	Cedar Swamp River	2019	Turbidity	Slightly Turbid	3	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for the Cedar Swamp River (MA62-44) is assessed as Fully Supporting based on bacteria data collected in 2019 at one station. MassDEP staff collected <i>E. coli</i> bacteria samples close to the downstream end of Cedar Swamp River at W0816 [Malbone St, Lakeville] from Jun-Aug 2019 (n=5). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 74 CFU/100ml. <i>E. coli</i> data from W0816 were indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0816	MassDEP	Water Quality	Cedar Swamp River	[Malbone Street, Lakeville]	41.819896	-71.027176

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

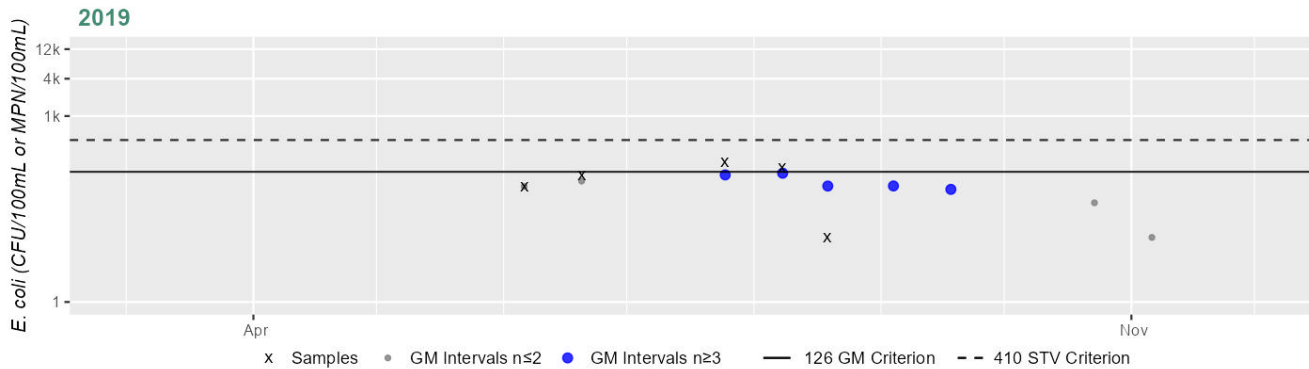
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0816	MassDEP	E. coli	06/06/19	08/19/19	5	11	178	74

Station MASSDEP_W0816 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	74
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for the Cedar Swamp River (MA62-44) is assessed as Fully Supporting based on a re-evaluation of bacteria data from 1 station in 2019. MassDEP staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) close to the downstream end of Cedar Swamp River at W0816 [Malbone St, Lakeville] from Jul-Sep 2001 (historic n=3) and Jun-Aug 2019 (current n=5). Analysis of the single year limited frequency *E. coli* dataset from this station indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 74 CFU/100ml. Overall, the *E. coli* data collected in both the historic & the current IR window for the Cedar Swamp River are indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0816	MassDEP	Water Quality	Cedar Swamp River	[Malbone Street, Lakeville]	41.819896	-71.027176

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

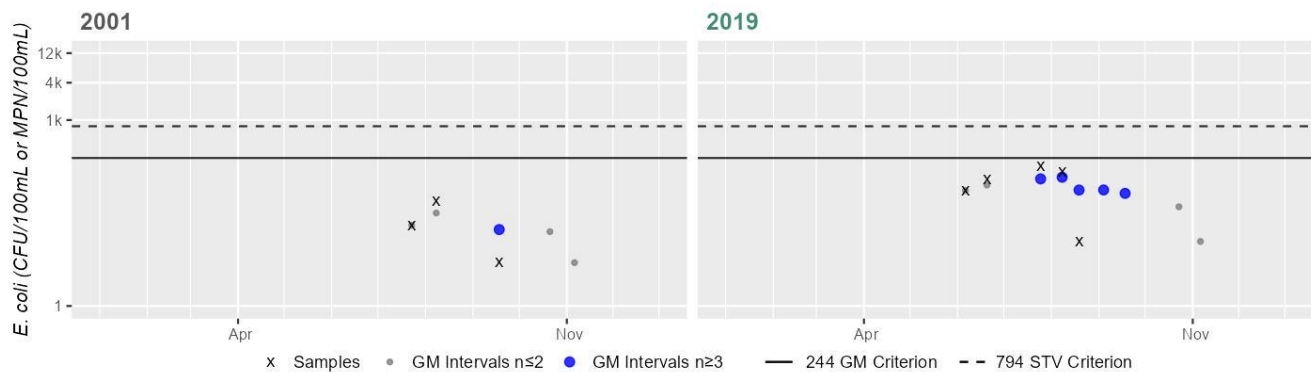
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0816	MassDEP	E. coli	07/23/01	09/18/01	3	5	50	17
W0816	MassDEP	E. coli	06/06/19	08/19/19	5	11	178	74

Station MASSDEP_W0816 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	3
SeasGM	17
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	5
SeasGM	74
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Chaffin Reservoir (MA62035)

Location:	Pembroke.
AU Type:	FRESHWATER LAKE
AU Size:	13 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Chaffin Reservoir (MA62035) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Chartley Pond (MA62038)

Location:	Norton/Attleboro.
AU Type:	FRESHWATER LAKE
AU Size:	57 ACRES
Classification/Qualifier:	B

No usable data were available for Chartley Pond (MA62038) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Clear Pond (MA62041)

Location:	Lakeville.
AU Type:	FRESHWATER LAKE
AU Size:	18 ACRES
Classification/Qualifier:	B

No usable data were available for Clear Pond (MA62041) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Cleveland Pond (MA62042)

Location:	Abington.
AU Type:	FRESHWATER LAKE
AU Size:	98 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Aquatic Plants (Macrophytes)*)	--	Added
5	5	(Fanwort*)	--	Unchanged
5	5	Mercury in Fish Tissue	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Aquatic Plants (Macrophytes)*)	Source Unknown (N)	--	--	X	X	X
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Mercury in Fish Tissue	Atmospheric Deposition (N)	--	X	--	--	--
Mercury in Fish Tissue	Source Unknown (N)	--	X	--	--	--

Recommendations

2024/26 Recommendations
2024/26IR [Harmful Algal Blooms, Low] Additional samples should be collected and analyzed for cyanobacteria cell counts, also C-HABs blooms should continue to be tracked in Cleveland Pond (MA62042), in case conditions worsen and an impairment for CHABs becomes appropriate. Stations {W2778} Index-deep hole and {W2779} shoreline station could be revisited. An Alert was identified for Harmful Algal Blooms on the Primary Recreation Use, because the cyanobacteria cell count exceeded 70,000 cells/ml for a single sample in July 2018 (out of a total of 6 samples collected). This is a low priority;

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No

2024/26 Use Attainment Summary
The Fish Consumption Use for Cleveland Pond (MA62042) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Cleveland Pond (MA62042) at station F0451 in 2018 as part of the probabilistic lake surveys (MAP2). MDPH included a site-specific advisory for Cleveland Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Fish Consumption Advisories

Summary of Fish Toxics Sampling and Resulting Fish Consumption Advisories (MA DPH 2025) (MassDEP Undated 7)

Summary Statement
Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Cleveland Pond (MA62042) at station F0451 in 2018 as part of the probabilistic lake surveys (MAP2). MDPH retained the existing site-specific fish consumption advisories for Mercury associated with Cleveland Pond in their 2025 Freshwater Fish Consumption Advisory List. The site-specific DPH advisories are indicative of a Fish Consumption Use impairment for Mercury in Fish Tissue for Cleveland Pond (MA62042).

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Cleveland Pond (MA62042) is assessed as Not Supporting, with an Aquatic Plants (Macrophytes) impairment being added, based on observations made by MassDEP staff during a macrophyte mapping survey in August 2018. Aesthetic observations were made by MassDEP field sampling crews as part of the MAP2 lake monitoring project, during the summer of 2018 at two stations in Abington near the Ames Pond Dam (NAT ID: MA00347) for this Cleveland Pond AU; at the deep hole in the southern lobe W2778/MAP2L-263 (n=3) and in the western edge of southern lobe W2779/MAP2L-263S (n=5). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded at either location. However, during the MAP2 littoral survey (n=1), duckweed was noted at 1 of the 10 shoreline plots and during the MAP2 macrophyte mapping survey (n=1) in August 2018, greater than 25% (73.4%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%. Additionally, during the MAP2 macrophyte survey field staff noted excessive algal growth and odor on one occasion. The observations from the MAP2 survey are indicative of an Aesthetics Use impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2778	MassDEP	Water Quality	Cleveland Pond	[index site, in southern lobe near the Ames Pond Dam (NAT ID: MA00347), Abington]	42.114546	-70.979101
W2779	MassDEP	Water Quality	Cleveland Pond	[western edge of southern lobe, west of Ames Pond Dam (NAT ID: MA00347), Abington]	42.114295	-70.979812

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2778	2018	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2778 (MAP2L-263) on Cleveland Pond (MA62042) during 3 site visits between Jun 2018 and Aug 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. During the MAP2 macrophyte mapping survey (n=1) in Aug 2018, greater than 25% (73.4%) of the waterbody was determined to have an aquatic macrophyte biovolume >50% and the survey also noted an aesthetics impairment flag due to excessive algal growth, taste and odor, and aquatic plants (macrophytes). The observations from the MAP2 survey are indicative of an Aesthetics Use impairment.
W2779	2018	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2779 (MAP2L-263S) on Cleveland Pond (MA62042) during 5 site visits between May 2018 and Sep 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. During the MAP2 littoral survey (n=1), duckweed was noted at 1 of the 10 shoreline plots.

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2778	Cleveland Pond	2018	Aesthetics Impaired?	No	3	3
W2778	Cleveland Pond	2018	Aquatic Plant Density, Overall	None	3	3
W2778	Cleveland Pond	2018	Color	Brownish	1	3
W2778	Cleveland Pond	2018	Color	Light Yellow/Tan	2	3
W2778	Cleveland Pond	2018	Objectionable Deposits	No	3	3
W2778	Cleveland Pond	2018	Odor	None	3	3
W2778	Cleveland Pond	2018	Scum	No	3	3
W2778	Cleveland Pond	2018	Turbidity	None	2	3
W2778	Cleveland Pond	2018	Turbidity	Slightly Turbid	1	3
W2779	Cleveland Pond	2018	Aesthetics Impaired?	No	5	5
W2779	Cleveland Pond	2018	Color	Dark Tan	1	5
W2779	Cleveland Pond	2018	Color	Light Yellow/Tan	3	5
W2779	Cleveland Pond	2018	Color	Reddish	1	5
W2779	Cleveland Pond	2018	Objectionable Deposits	No	4	5
W2779	Cleveland Pond	2018	Objectionable Deposits	NR	1	5
W2779	Cleveland Pond	2018	Odor	None	5	5
W2779	Cleveland Pond	2018	Scum	No	2	5
W2779	Cleveland Pond	2018	Scum	Yes	3	5
W2779	Cleveland Pond	2018	Turbidity	None	5	5

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	YES
2024/26 Use Attainment Summary	

The Primary Contact Recreation Use for Cleveland Pond (MA62042) is assessed as Not Supporting, with an Aquatic Plants (Macrophytes) impairment being added (from the Aesthetics Use). An Alert is being identified for Harmful Algal Blooms based on cyanobacteria cell count data and additional sampling is recommended for this AU. MassDEP staff collected *E. coli* bacteria samples in Cleveland Pond at W2779/MAP2L-263S [Shoreline station at the western edge of southern lobe, West of Ames Pond Dam (T ID: MA00347), Abington] from May-Sep 2018 (n=5). Analysis of this single year limited frequency *E. coli* dataset indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 4 CFU/100ml, which is indicative of good water quality conditions. MassDEP also collected Secchi depth and cyanobacteria cell count data in 2018 at W2778/MAP2L-263 [Index-deep hole], and cyanobacteria cell count and cyanotoxins data in 2018 at the shoreline station W2779. Secchi depth data at index station W2778 (station depth=2.9 m) indicated water clarity generally meeting the 1.2m (4ft) threshold (n=3, 1.05-1.65m), though 1 measurement taken on Jun 07, 2018 was less than the threshold. The cyanobacteria cell count exceeded 70,000 cells/ml for a single sample on July 19 (out of a total of 6 samples collected), which is indicative of a Harmful Algal Blooms Alert. However, analysis of microcystins and cylindrospermopsin samples from W2779 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2778	MassDEP	Water Quality	Cleveland Pond	[index site, in southern lobe near the Ames Pond Dam (NAT ID: MA00347), Abington]	42.114546	-70.979101
W2779	MassDEP	Water Quality	Cleveland Pond	[western edge of southern lobe, west of Ames Pond Dam (NAT ID: MA00347), Abington]	42.114295	-70.979812

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

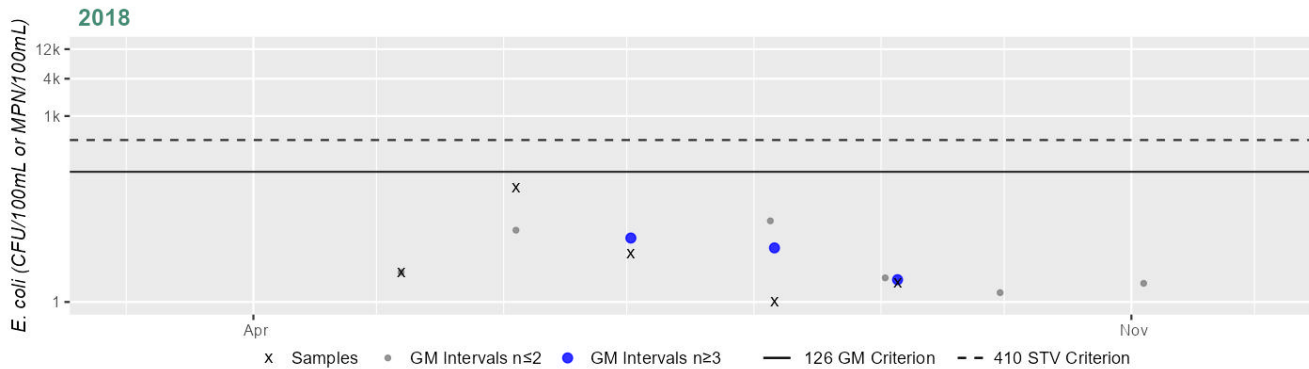
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2779	MassDEP	E. coli	05/07/18	09/05/18	5	1	69	4

Station MASSDEP_W2779 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	4
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data

(MassDEP Undated 9) (MassDEP Undated 5)

Data Year(s)	Summary
2018	In Cleveland Pond (MA62042) in 2018, MassDEP collected Secchi and cyanobacteria cell count data at W2778 [MAP2L-263, Index-deep hole] and cyanobacteria cell count and cyanotoxin data at W2779 [MAP2L-263S, Shoreline]. At the index station W2778 (station depth=2.9 m) the Secchi depth measurements ranged from 1.05-1.65 m (n=3) with 1 measurement taken on Jun 07, 2018 that was less than the 1.2 m (4 ft) threshold. The cyanobacteria cell count exceeded 70,000 cells/ml for a single sample on Jul 19, 2018 in 2018 (n=6). The elevated cyanobacteria cell count measurement is indicative of a Harmful Algal Blooms Alert. Analysis of microcystins and cylindrospermopsin samples from the shoreline station W2779 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L.

MassDEP Cyanobacteria Cell Count Data Collected at Lakes and Impoundments (2016-2018) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Waterbody	Station Type	Data Year	Sample Count	Count >70,000 cells/mL	Exceedance Date(s)
W2778	Cleveland Pond	Index	2018	3	1	7/19/2018
W2779	Cleveland Pond	Shoreline	2018	3	0	NA

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	YES

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for Cleveland Pond (MA62042) is assessed as Not Supporting, with an Aquatic Plants (Macrophytes) impairment being added (from the Aesthetics Use). An Alert is being identified for Harmful Algal Blooms based on cyanobacteria cell count data and additional sampling is recommended for this AU. MassDEP staff collected <i>E. coli</i> bacteria samples in Cleveland Pond at W2779/MAP2L-263S [Shoreline station at western edge of southern lobe, West of Ames Pond Dam (T ID: MA00347), Abington] from May-Sep 2018 (n=5). Analysis of this single year limited frequency <i>E. coli</i> dataset indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 4 CFU/100ml, which is indicative of good water quality conditions. MassDEP also collected cyanobacteria cell count data in 2018 at W2778/MAP2L-263 [Index-deep hole] and cyanobacteria cell count and cyanotoxins data in 2018 at the shoreline station W2779. The cyanobacteria cell count exceeded 70,000 cells/ml for a single sample on July 19 (out of a total of 6 samples collected), which is indicative of a Harmful Algal Bloom Alert. However, analysis of microcystins and cylindrospermopsin samples from the shoreline station W2779 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2779	MassDEP	Water Quality	Cleveland Pond	[western edge of southern lobe, west of Ames Pond Dam (NAT ID: MA00347), Abington]	42.114295	-70.979812

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

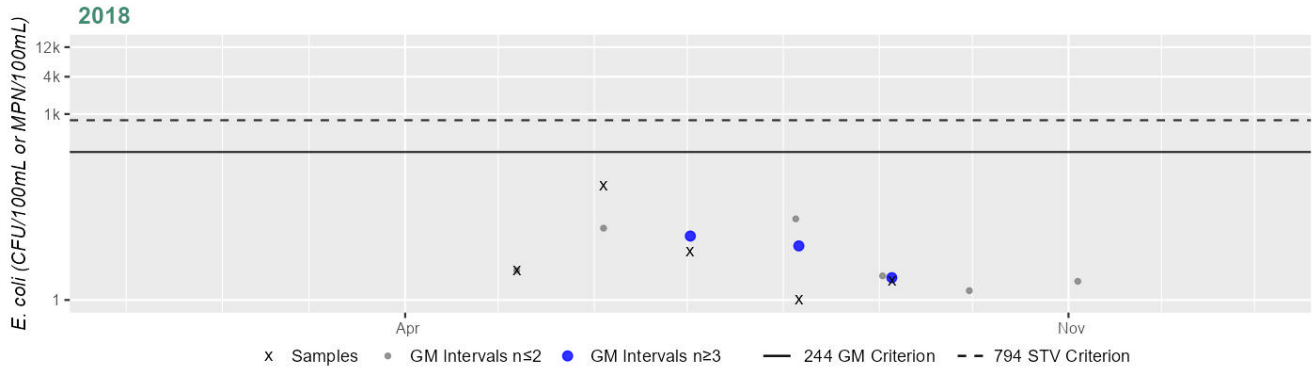
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2779	MassDEP	E. coli	05/07/18	09/05/18	5	1	69	4

Station MASSDEP_W2779 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	4
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Cobb Brook (MA62-43)

Location:	Headwaters south of Dunbar Street (in Crapo Bog), Taunton to mouth at confluence with the Taunton River, Taunton (approximately 0.1 mile culverted at mouth).
AU Type:	RIVER
AU Size:	3.5 MILES
Classification/Qualifier:	B

Cobb Brook (MA62-43)

Watershed Area: 2.47 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	2.47	2.47	0.71	0.71
Agriculture	0%	0%	0%	0%
Developed	45.6%	45.6%	37.2%	37.2%
Natural	39.3%	39.3%	38.2%	38.2%
Wetland	15.1%	15.1%	24.6%	24.6%
Impervious	24.6%	24.6%	19.5%	19.5%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Recommendations

2024/26 Recommendations
2024/26IR [Bacteria, Low] Considering the amount of Bacteria Source Tracking work that was conducted in Cobb Brook (MA62-43) in 2011-2015 by MassDEP staff and the removal of Human Sources of bacteria by the City of Taunton, it is recommended that additional sampling and analysis for bacteria be conducted at the downstream end of the brook {W2353}, at a frequency that makes it possible to assess the Primary and Secondary Recreation Uses. This is a low priority.

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Cobb Brook (MA62-43) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
Too limited data were available to evaluate the Aesthetics Use for Cobb Brook (MA62-43) so it is assessed as having Insufficient Information. MassDEP staff recorded aesthetics observations at two stations close to the downstream end of Cobb Brook in Taunton, during the summers of 2012 and 2015 as part of the MassDEP Bacteria Source Tracking project. The site descriptions from upstream to downstream are as follows: Somerset Avenue (Rt. 138) (W2351) and several hundred feet upstream of the confluence with the Taunton River at the culvert entrance (headwall) ~30ft west of West Water Street (W2353). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded during surveys at either station (n=2/station/yr).

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2351	MassDEP	Water Quality	Cobb Brook	[Somerset Avenue (Route 138), Taunton]	41.881394	-71.096811
W2353	MassDEP	Water Quality	Cobb Brook	[at culvert entrance (headwall) approximately 30 feet west of West Water Street, Taunton (headwall not visible on USGS 1987 Taunton quadrangle)]	41.881504	-71.092943

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2351	2012	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2351 on Cobb Brook (MA62-43) during 2 site visits between Jun 2012 and Jul 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2351	2015	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2351 on Cobb Brook (MA62-43) during 2 site visits between Sep 2015 and Oct 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2353	2012	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2353 on Cobb Brook (MA62-43) during 2 site visits between Jun 2012 and Jul 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2353	2015	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2353 on Cobb Brook (MA62-43) during 2 site visits between Sep 2015 and Oct 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2351	2012	2	2	0
W2351	2015	2	2	0
W2353	2012	2	2	0
W2353	2015	2	0	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2351	Cobb Brook	2012	Aquatic Plant Density, Overall	None	2	2
W2351	Cobb Brook	2012	Color	None	2	2
W2351	Cobb Brook	2012	Odor	None	2	2
W2351	Cobb Brook	2012	Periphyton Density, Filamentous	None	2	2
W2351	Cobb Brook	2012	Periphyton Density, Film	None	1	2
W2351	Cobb Brook	2012	Periphyton Density, Film	Sparse	1	2
W2351	Cobb Brook	2012	Turbidity	Moderately Turbid	1	2
W2351	Cobb Brook	2012	Turbidity	Slightly Turbid	1	2
W2351	Cobb Brook	2015	Aquatic Plant Density, Overall	None	2	2
W2351	Cobb Brook	2015	Color	None	2	2

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2351	Cobb Brook	2015	Odor	None	2	2
W2351	Cobb Brook	2015	Periphyton Density, Filamentous	None	2	2
W2351	Cobb Brook	2015	Periphyton Density, Film	None	1	2
W2351	Cobb Brook	2015	Periphyton Density, Film	Sparse	1	2
W2351	Cobb Brook	2015	Turbidity	Moderately Turbid	2	2
W2353	Cobb Brook	2012	Aquatic Plant Density, Overall	None	2	2
W2353	Cobb Brook	2012	Color	None	2	2
W2353	Cobb Brook	2012	Odor	None	2	2
W2353	Cobb Brook	2012	Periphyton Density, Filamentous	Sparse	2	2
W2353	Cobb Brook	2012	Periphyton Density, Film	None	1	2
W2353	Cobb Brook	2012	Periphyton Density, Film	Sparse	1	2
W2353	Cobb Brook	2012	Turbidity	Moderately Turbid	1	2
W2353	Cobb Brook	2012	Turbidity	Slightly Turbid	1	2
W2353	Cobb Brook	2015	Aquatic Plant Density, Overall	Unobservable	2	2
W2353	Cobb Brook	2015	Color	None	2	2
W2353	Cobb Brook	2015	Odor	None	2	2
W2353	Cobb Brook	2015	Periphyton Density, Filamentous	Unobservable	2	2
W2353	Cobb Brook	2015	Periphyton Density, Film	Unobservable	2	2
W2353	Cobb Brook	2015	Turbidity	Moderately Turbid	2	2

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

Too limited bacteria data are available to assess the Primary Contact Recreation Use for Cobb Brook (MA62-43) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected *E. coli* bacteria samples in Cobb Brook in 2012 and 2015 at two stations close to the downstream end of the AU. Samples were collected from the following stations/sample years from upstream to downstream: W2351 [Somerset Avenue (Rt. 138), Taunton] in 2012 and 2015 (n=1-2/yr) and W2353 [at culvert entrance (headwall) ~30 ft west of West Water St, Taunton (headwall not visible on USGS 1987 Taunton quadrangle)] in 2012 and 2015 (n=1-2/yr). The available *E. coli* data at both W2351 and W2353 are both too limited to assess the Primary Contact Recreation Use according to the 2024 CALM. Although it should be noted that 1 sample exceeded the 410 CFU/100ml STV in 2012 at both stations (586 CFU & 1,280 CFU/100ml respectively). However, considering that a human source of bacteria was not found and removed until 2014 (see BST notes that follow), the fact that there were no exceedances of the STV threshold in 2015 is a more relevant note.

Prior to 2011 source tracking work was conducted on Cobb Brook as part of the MassDEP Bacteria Source Tracking (BST) project, with a maximum dry weather *E. coli* concentration of 2,419.6 MPN reported. The City of Taunton had made infrastructure corrections in the Godfrey Street and Knight Street areas in 2010, successfully removing a human source. Some additional limited BST work was conducted in 2011-2012 & 2014-2015 at 7 sites along Cobb Brook. In 2011 a maximum dry weather *E. coli* concentration of >2,419.6 MPN was recorded at West Water Street. In 2014 an illicit connection was identified by the City (an infrequently used bathroom was connected to a manhole inside the building located directly over the brook). After the removal of the human source in 2015, *E. coli* concentrations in the brook were found to range 105 – 365 MPN, which was a significant improvement from the concentrations observed at the same locations in 2012.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2351	MassDEP	Water Quality	Cobb Brook	[Somerset Avenue (Route 138), Taunton]	41.881394	-71.096811
W2353	MassDEP	Water Quality	Cobb Brook	[at culvert entrance (headwall) approximately 30 feet west of West Water Street, Taunton (headwall not visible on USGS 1987 Taunton quadrangle)]	41.881504	-71.092943

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (MassDEP Undated 9) (MassDEP Undated 5)

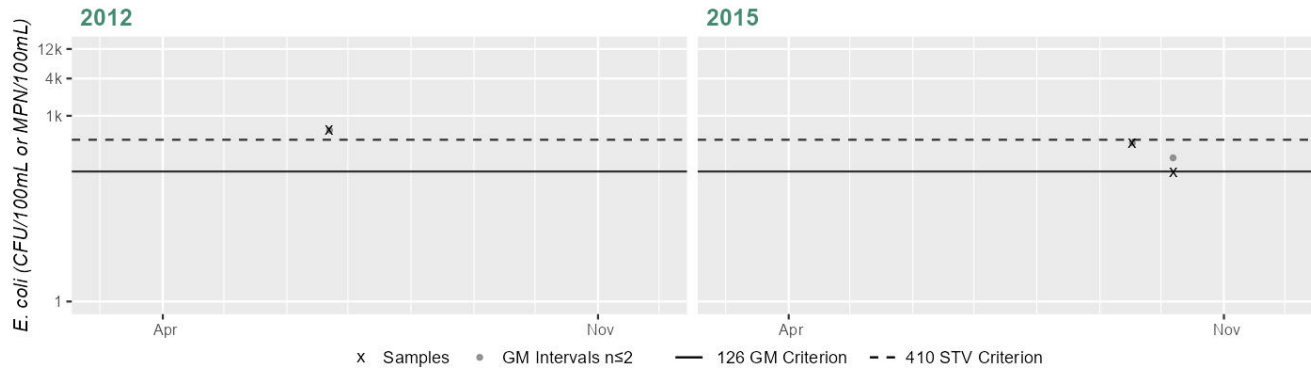
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2351	MassDEP	E. coli	06/21/12	06/21/12	1	586	586	585

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2351	MassDEP	E. coli	09/17/15	10/07/15	2	120	365	209
W2353	MassDEP	E. coli	06/21/12	06/21/12	1	1280	1280	1280
W2353	MassDEP	E. coli	09/17/15	10/07/15	2	105	248	161

Station MASSDEP_W2351 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	586
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	100%

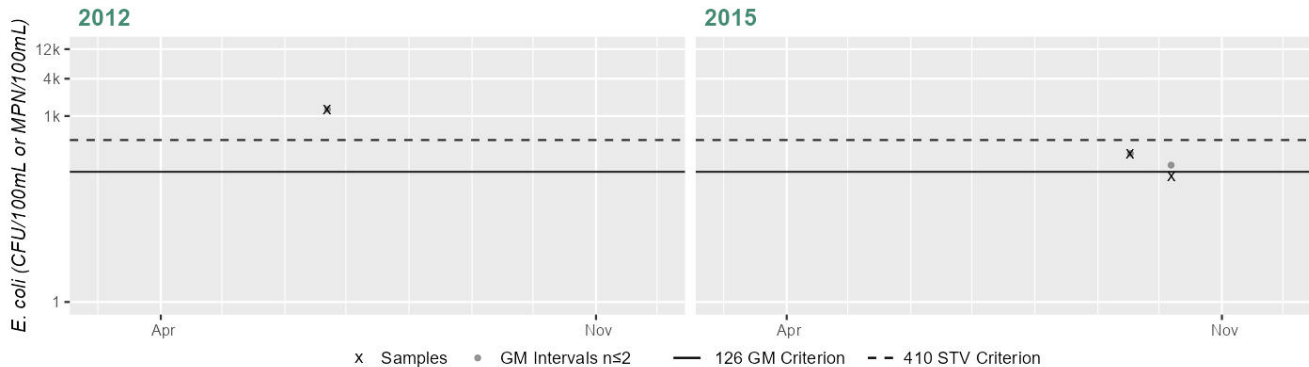
Variable*	Result
Samples	2
SeasGM	209
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2353 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	1280
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	100%

Variable*	Result
Samples	2
SeasGM	161
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Summary Statement for 2011-2019 MassDEP Bacteria Source Tracking (BST) Data (MassDEP Undated 1)

Summary

Prior to 2011, BST work was conducted on the Cobb Brook AU (MA62-43), with a max dry weather *E. coli* concentration of 2,419.6MPN. The City of Taunton made infrastructure corrections in the Godfrey Street and Knight Street areas in 2010, successfully removing a human source. Additional BST work was conducted in 2011-2012 & 2014-2015 at 7 sites along Cobb Brook. In 2011 a max dry weather *E. coli* concentration of >2,419.6MPN was recorded at West Water Street. In 2014 an illicit connection was identified by the City (an infrequently used bathroom was connected to a manhole inside the building located directly over the brook). After the removal of the human source in 2015, *E. coli* concentrations ranged 105 - 365MPN, which was a significant improvement from the concentrations observed at the same locations in 2012.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

Too limited bacteria data are available to assess the Secondary Contact Recreation Use for Cobb Brook (MA62-43) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected *E. coli* bacteria samples in Cobb Brook from 2012 and 2015 at two stations close to the downstream end of the AU. Samples were collected from the following stations/sample years from upstream to downstream: W2351 [Somerset Avenue (Rt. 138), Taunton] in 2012 and 2015 (n=1-2/yr) and W2353 [at culvert entrance (headwall) ~30 ft west of West Water St, Taunton (headwall not visible on USGS 1987 Taunton quadrangle)] in 2012 and 2015 (n=1-2/yr). The available *E. coli* data at both W2351 and W2353 are both too limited to assess the Secondary Contact Recreation Use according to the 2024 CALM.

Although 1 sample exceeded the 794 CFU/100ml STV in 2012 at W2353 (1,280 CFU/100ml), considering a human source of bacteria was not found and removed until 2014 (see BST notes that follow), the fact that there were no exceedances of the 794 CFU/100ml STV in 2015 is a more relevant note. Prior to 2011 source tracking work was conducted on Cobb Brook as part of the MassDEP Bacteria Source Tracking (BST) project, with a maximum dry weather *E. coli* concentration of 2,419.6 MPN reported. The City of Taunton had made infrastructure corrections in the Godfrey Street and Knight Street areas in 2010, successfully removing a human source. Some additional limited BST work was conducted in 2011-2012 & 2014-2015 at 7 sites along Cobb Brook. In 2011 a maximum dry weather *E. coli* concentration of >2,419.6 MPN was recorded at West Water Street. In 2014 an illicit connection was identified by the City (an infrequently used bathroom was connected to a manhole inside the building located directly over the brook). After the removal of the human source in 2015, *E. coli* concentrations in the brook were found to range 105 – 365 MPN, which was a significant improvement from the concentrations observed at the same locations in 2012.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2351	MassDEP	Water Quality	Cobb Brook	[Somerset Avenue (Route 138), Taunton]	41.881394	-71.096811
W2353	MassDEP	Water Quality	Cobb Brook	[at culvert entrance (headwall) approximately 30 feet west of West Water Street, Taunton (headwall not visible on USGS 1987 Taunton quadrangle)]	41.881504	-71.092943

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

(MassDEP Undated 9) (MassDEP Undated 4)

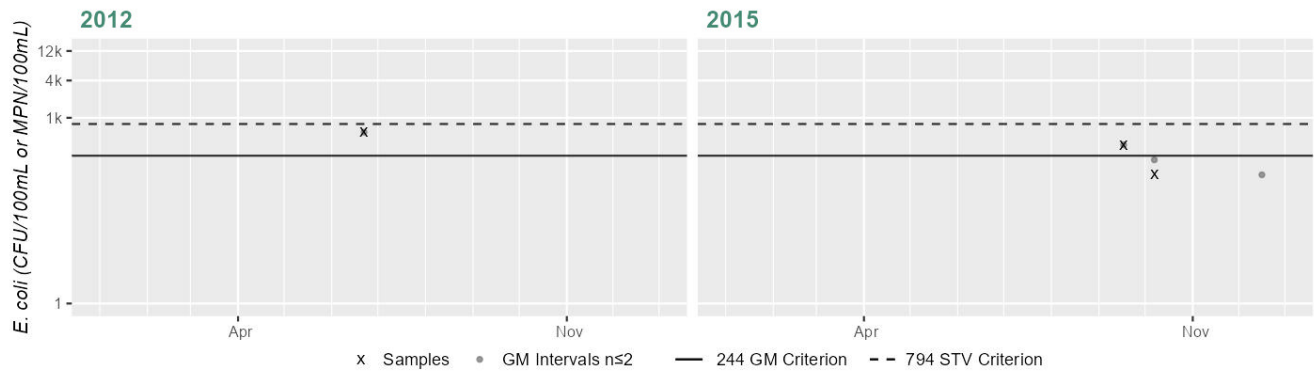
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2351	MassDEP	E. coli	06/21/12	06/21/12	1	586	586	585
W2351	MassDEP	E. coli	09/17/15	10/07/15	2	120	365	209
W2353	MassDEP	E. coli	06/21/12	06/21/12	1	1280	1280	1280

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2353	MassDEP	E. coli	09/17/15	10/07/15	2	105	248	161

Station MASSDEP_W2351 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	586
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	2
SeasGM	209
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

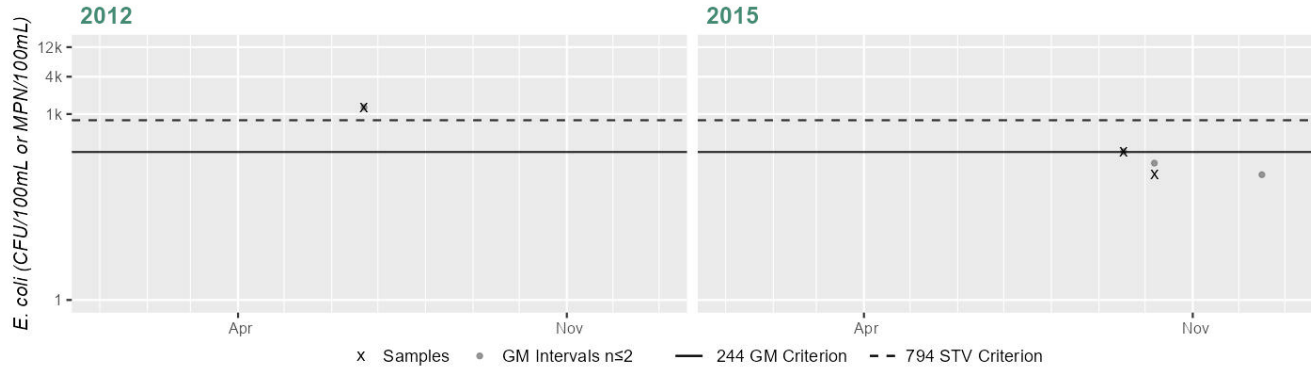
Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2353 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	1280
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	100%

Variable*	Result
Samples	2
SeasGM	161
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Cocasset Lake (MA62043)

Location:	Foxborough.
AU Type:	FRESHWATER LAKE
AU Size:	32 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Cocasset Lake (MA62043) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Cooper Pond (MA62046)

Location:	Carver.
AU Type:	FRESHWATER LAKE
AU Size:	22 ACRES
Classification/Qualifier:	B

No usable data were available for Cooper Pond (MA62046) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

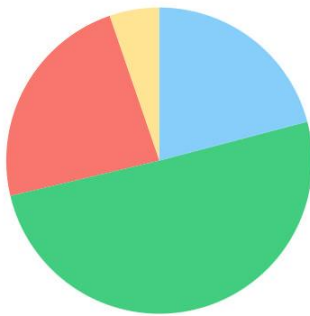
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Cotley River (MA62-41)

Location:	From outlet of cranberry bog south of Seekell Street, Taunton to mouth at confluence with the Taunton River, Taunton.
AU Type:	RIVER
AU Size:	5.7 MILES
Classification/Qualifier:	B

Cotley River (MA62-41)

Watershed Area: 7.56 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	7.56	5.54	1.58	1.33
Agriculture	5.3%	2.9%	6.3%	4.9%
Developed	23.4%	25.8%	18%	19.1%
Natural	50.4%	52.5%	40.6%	41.3%
Wetland	20.9%	18.8%	35.2%	34.7%
Impervious	10.8%	12.6%	8.8%	9.9%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Enterococcus	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Enterococcus	Source Unknown (N)	--	--	--	X	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
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Not Assessed	No
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2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Cotley River (MA62-41) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Cotley River (MA62-41) is Not Assessed.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary	
<p>The Primary Contact Recreation Use for the Cotley River (MA62-41) continues to be assessed as Not Supporting. The prior <i>Enterococcus</i> impairment is being carried forward based on bacteria data exceeding thresholds at one station in 2019. Taunton River Watershed Alliance (TRWA) staff/volunteers collected <i>Enterococcus</i> bacteria samples at the downstream end of Cotley River at TRWA_COT-01 [Middleboro Ave, Taunton] from Apr-Oct 2019 (n=7). Analysis of the single year moderate frequency data from this station indicated 100% of intervals had GMs >35 CFU/100ml and 6 samples exceeded the 130 CFU/100ml STV (maximum 1,890 CFU). The bacteria data from TRWA_COT-01 are indicative of an <i>Enterococcus</i> impairment.</p>	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
TRWA_COT-01	Taunton River Watershed Alliance	Water Quality	Cotley River	Cotley R., Middleboro Ave, Taunton	41.882600	-71.047937

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

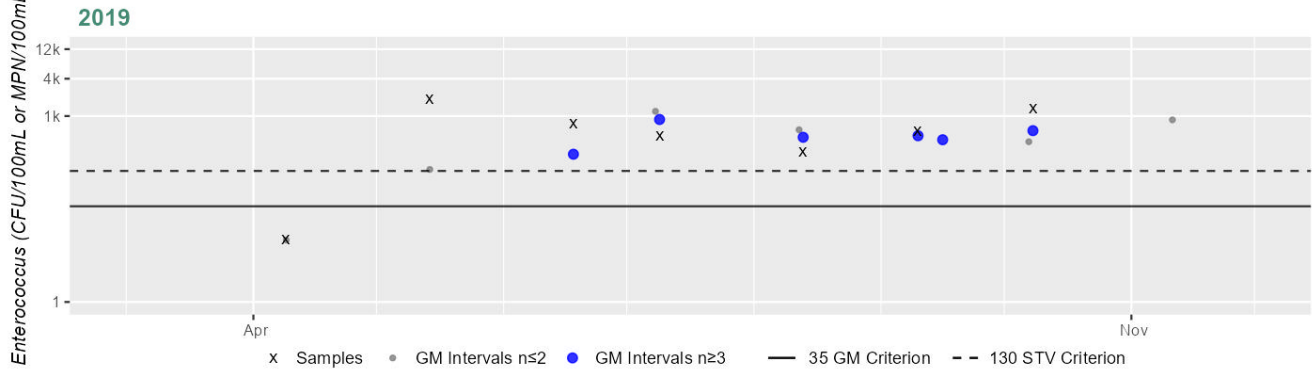
(TRWA 2020) (MassDEP Undated 3)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
TRWA_COT-01	Taunton River Watershed Association	Enterococci	04/09/19	10/08/19	7	10	1890	388

Station TRWA_COT-01 - Enterococcus

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	7
SeasGM	388
#GMI	6
#GMI Ex	6
%GMI Ex	100%
n>STV	6
%n>STV	85%

Cumulative %GMI Exceedance
 Current (2011-2022)
 100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No <i>E. coli</i> bacteria or other indicator data for the Cotley River (MA62-41) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Coweaset Brook (MA62-22)

Location:	Headwaters, perennial portion, southwest of Route24/Route 123 interchange (north of Mill Street), Brockton to mouth at confluence with Hockomock River, West Bridgewater.
AU Type:	RIVER
AU Size:	3.9 MILES
Classification/Qualifier:	B

No usable data were available for Coweaset Brook (MA62-22) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Crocker Pond (MA62051)

Location:	Wrentham.
AU Type:	FRESHWATER LAKE
AU Size:	17 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Crocker Pond (MA62051) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Curly-leaf Pondweed*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Curly-leaf Pondweed*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Cross Pond (MA62052)

Location:	Brockton.
AU Type:	FRESHWATER LAKE
AU Size:	2 ACRES
Classification/Qualifier:	B

No usable data were available for Cross Pond (MA62052) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Cross Street Pond (MA62053)

Location:	Bridgewater.
AU Type:	FRESHWATER LAKE
AU Size:	27 ACRES
Classification/Qualifier:	B

No usable data were available for Cross Street Pond (MA62053) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Cushing Pond (MA62056)

Location:	Abington.
AU Type:	FRESHWATER LAKE
AU Size:	6 ACRES
Classification/Qualifier:	B

No usable data were available for Cushing Pond (MA62056) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fanwort*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Elm Street Pond (MA62066)

Location:	Halifax/Hanson.
AU Type:	FRESHWATER LAKE
AU Size:	19 ACRES
Classification/Qualifier:	B

No usable data were available for Elm Street Pond (MA62066) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Fall Brook (MA62-72)

Location:	Headwaters, outlet Tispaquin Pond, Middleborough to mouth at confluence with Nemasket River, Lakeville.
AU Type:	RIVER
AU Size:	3.8 MILES
Classification/Qualifier:	B

No usable data were available for Fall Brook (MA62-72) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fish Passage Barrier*)	--	Unchanged

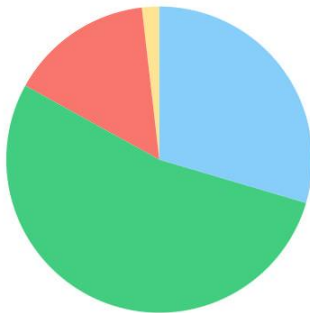
Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--

Fall Brook (MA62-81)

Location:	Headwaters north of Chipaway Road, Freetown to mouth at inlet of Long Pond, Freetown (through former 2018/20 segment: East Freetown Pond MA62063).
AU Type:	RIVER
AU Size:	5.3 MILES
Classification/Qualifier:	A: PWS, ORW (Tributary)

Fall Brook (MA62-81)

Watershed Area: 13.90 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	13.90	10.30	7.01	5.79
Agriculture	1.8%	2.4%	2.4%	2.9%
Developed	15.1%	14.4%	10.7%	10.4%
Natural	53.5%	51.7%	46%	46.5%
Wetland	29.6%	31.5%	40.9%	40.2%
Impervious	6.6%	5.9%	4.8%	4.4%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Non-Native Aquatic Plants*)	--	Unchanged
5	5	Benthic Macroinvertebrates	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Fall Brook (MA62-81) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Fall Brook (MA62-81) is assessed as Fully Supporting based on the general lack of objectionable conditions observed during summer 2013. MassDEP staff recorded aesthetics observations at one station in the upstream half of Fall Brook, ~5220ft upstream/south from Chace Road in Freetown (W2382), during the summer of 2013 as part of the MAP2 wadeable streams monitoring project (n=8). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded during the surveys. Though dense aquatic plants were noted on four occasions in 2013, these plants were mostly rooted emergent typical of marshy areas and are not of concern with regards to the Aesthetic Use.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2382	MassDEP	Water Quality	Fall Brook	[approximately 5220 feet upstream/south from Chace Road, Freetown]	41.755702	-70.983125

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2382	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2382 on Fall Brook (MA62-81) during 8 site visits between May 2013 and Sep 2013. There were some objectionable conditions recorded, including dense/very dense aquatic plants (n=4). Field staff also noted an aesthetics impairment flag (n=1). These conditions are indicative of an Alert status.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2382	2013	8	1	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2382	Fall Brook	2013	Aesthetics Impaired?	No	6	8
W2382	Fall Brook	2013	Aesthetics Impaired?	NR	1	8
W2382	Fall Brook	2013	Aesthetics Impaired?	Yes	1	8
W2382	Fall Brook	2013	Aquatic Plant Density, Overall	Dense	4	8
W2382	Fall Brook	2013	Aquatic Plant Density, Overall	Moderate	1	8
W2382	Fall Brook	2013	Aquatic Plant Density, Overall	NR	1	8
W2382	Fall Brook	2013	Aquatic Plant Density, Overall	Sparse	1	8
W2382	Fall Brook	2013	Aquatic Plant Density, Overall	Unobservable	1	8
W2382	Fall Brook	2013	Color	Brownish	2	8
W2382	Fall Brook	2013	Color	Light Yellow/Tan	2	8
W2382	Fall Brook	2013	Color	Reddish	4	8
W2382	Fall Brook	2013	Objectionable Deposits	No	6	8
W2382	Fall Brook	2013	Objectionable Deposits	NR	1	8
W2382	Fall Brook	2013	Objectionable Deposits	Unobservable	1	8
W2382	Fall Brook	2013	Odor	None	8	8
W2382	Fall Brook	2013	Periphyton Density, Filamentous	None	1	8
W2382	Fall Brook	2013	Periphyton Density, Filamentous	NR	1	8
W2382	Fall Brook	2013	Periphyton Density, Filamentous	Unobservable	6	8
W2382	Fall Brook	2013	Periphyton Density, Film	None	1	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2382	Fall Brook	2013	Periphyton Density, Film	NR	1	8
W2382	Fall Brook	2013	Periphyton Density, Film	Unobservable	6	8
W2382	Fall Brook	2013	Scum	No	6	8
W2382	Fall Brook	2013	Scum	Unobservable	1	8
W2382	Fall Brook	2013	Scum	Yes	1	8
W2382	Fall Brook	2013	Turbidity	Moderately Turbid	2	8
W2382	Fall Brook	2013	Turbidity	None	3	8
W2382	Fall Brook	2013	Turbidity	Slightly Turbid	3	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
<p>Too limited bacteria data are available to assess the Primary Contact Recreation Use for Fall Brook (MA62-81) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected <i>E. coli</i> bacteria samples in the upstream half of Fall Brook at W2382 [~5220 ft upstream/south from Chace Rd, Freetown] from May-Sep 2013 (n=5). Analysis of the single year limited frequency <i>E. coli</i> dataset at this location indicated 25% of intervals had GMs >126 CFU/100ml, 1 sample exceeded the 410 CFU/100ml STV (414 CFU), and the seasonal GM was 60 CFU/100ml. Since <i>E. coli</i> data from W2382 are single year, limited frequency and analysis of the data resulted in a GM below the threshold but also an exceedance of the STV threshold, the data are too limited to assess the Secondary Contact Recreation Use.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2382	MassDEP	Water Quality	Fall Brook	[approximately 5220 feet upstream/south from Chace Road, Freetown]	41.755702	-70.983125

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

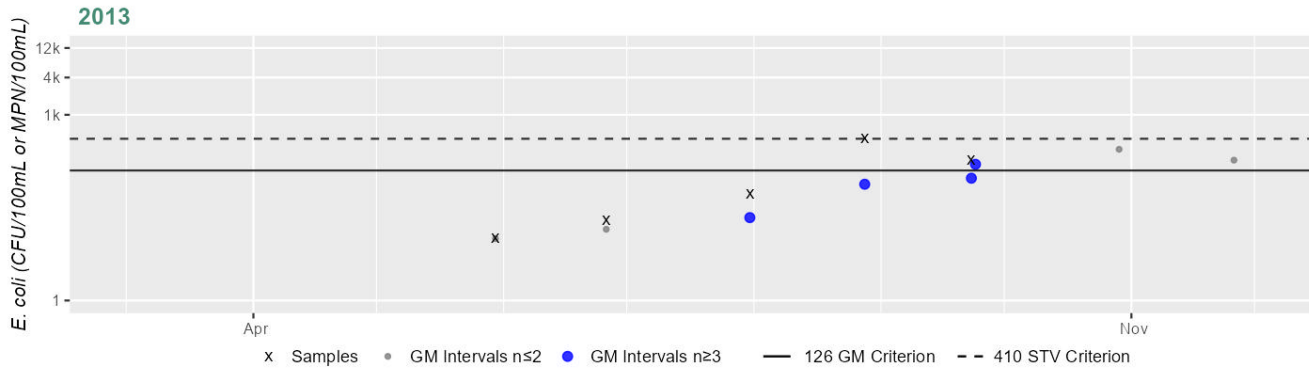
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2382	MassDEP	E. coli	05/30/13	09/23/13	5	10	414	60

Station MASSDEP_W2382 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	60
#GMI	4
#GMI Ex	1
%GMI Ex	25%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance
Current (2011-2022)
25%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Fall Brook (MA62-81) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data from 1 station in 2013. MassDEP staff collected *E. coli* bacteria samples in the upstream half of Fall Brook at W2382 [~5220 ft upstream/S from Chace Rd, Freetown] from May-Sep 2013 (n=5). Analysis of the single year limited frequency *E. coli* dataset at this location indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 60 CFU/100ml. *E. coli* data from W2382 were indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2382	MassDEP	Water Quality	Fall Brook	[approximately 5220 feet upstream/south from Chace Road, Freetown]	41.755702	-70.983125

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

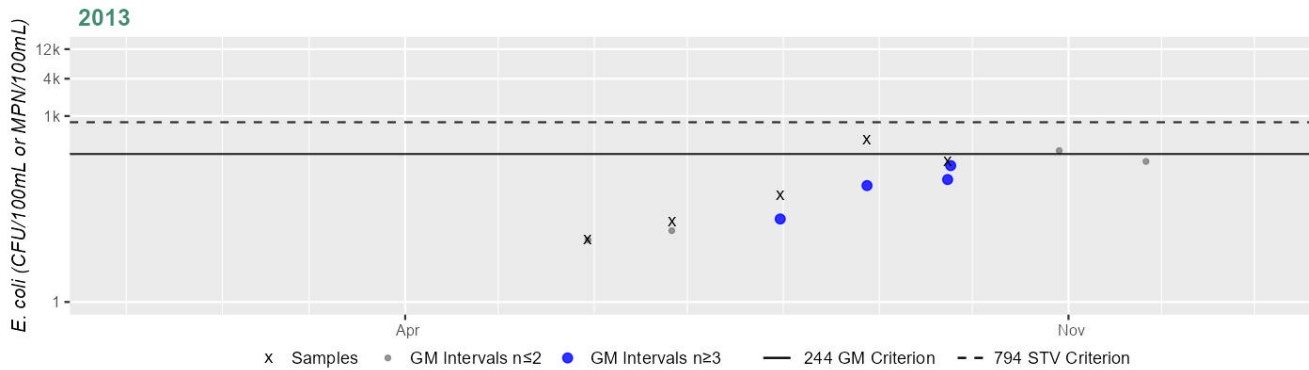
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2382	MassDEP	E. coli	05/30/13	09/23/13	5	10	414	60

Station MASSDEP_W2382 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	60
#GMI	4
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)
0%

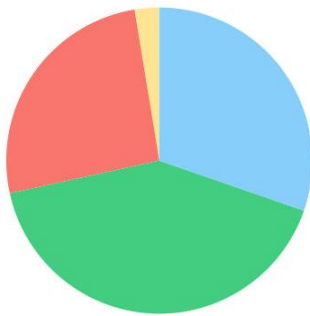
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Forge River (MA62-37)

Location:	Headwaters, outlet Kings Pond, Raynham to mouth at confluence with the Taunton River, Raynham.
AU Type:	RIVER
AU Size:	2.5 MILES
Classification/Qualifier:	B

Forge River (MA62-37)

Watershed Area: 9.28 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	9.28	5.75	2.28	1.59
Agriculture	2.6%	3.9%	1.3%	1.2%
Developed	25.8%	27.3%	17.4%	18%
Natural	41.3%	42.4%	47.9%	49.2%
Wetland	30.3%	26.3%	33.4%	31.6%
Impervious	11.5%	11.5%	7.6%	7.1%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Fish Passage Barrier*)	--	Unchanged
5	5	Enterococcus	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--
Enterococcus	Source Unknown (N)	--	--	--	X	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Forge River (MA62-37) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Forge River (MA62-37) is Not Assessed.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	
<p>The Primary Contact Recreation Use for the Forge River (MA62-37) continues to be assessed as Not Supporting. The prior <i>Enterococcus</i> impairment is being carried forward based on bacteria data exceeding thresholds at one station in 2019. Taunton River Watershed Alliance (TRWA) staff/volunteers collected <i>Enterococcus</i> bacteria samples close to the downstream end of Forge River at TRWA_FORGE [Rt 44, Raynham] from Apr-Oct 2019 (n=7). Analysis of the single year moderate frequency dataset from this station indicated 100% of intervals had GMs >35 CFU/100ml and 6 samples exceeded the 130 CFU/100ml STV (maximum 700 CFU). The bacteria data from TRWA_FORGE are indicative of an <i>Enterococcus</i> impairment.</p>	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
TRWA_FORGE	Taunton River Watershed Alliance	Water Quality	Forge River	Forge R. Br, Rt 44, Raynham	41.905042	-71.059510

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

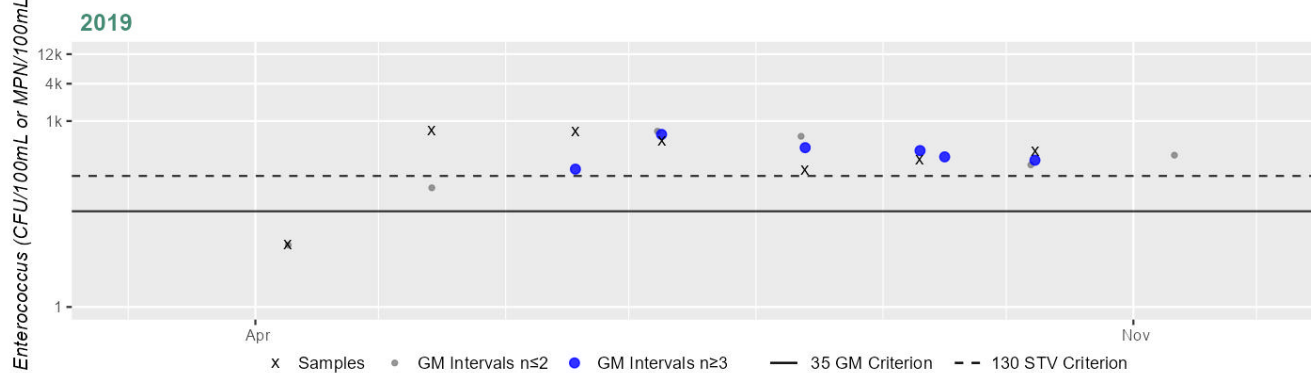
(TRWA 2020) (MassDEP Undated 3)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
TRWA_FORGE	Taunton River Watershed Association	Enterococci	04/09/19	10/08/19	7	10	700	224

Station TRWA_FORGE - Enterococcus

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	7
SeasGM	224
#GMI	6
#GMI Ex	6
%GMI Ex	100%
n>STV	6
%n>STV	85%

Cumulative %GMI Exceedance Current (2011-2022)

100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
Recent 5 Years may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No <i>E. coli</i> bacteria or other indicator data for the Forge River (MA62-37) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Fuller Street Pond (MA62234)

Location:	Middleborough/Carver (formerly reported as 2004 segment: Fuller Street Pond MA95058).
AU Type:	FRESHWATER LAKE
AU Size:	20 ACRES
Classification/Qualifier:	B

No usable data were available for Fuller Street Pond (MA62234) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged

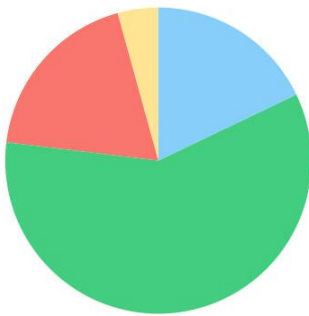
Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Furnace Brook (MA62-73)

Location:	Headwaters outlet Lake Rico, Taunton to mouth at confluence with the Taunton River, Raynham.
AU Type:	RIVER
AU Size:	1.1 MILES
Classification/Qualifier:	B

Furnace Brook (MA62-73)

Watershed Area: 4.14 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	4.14	3.99	1.87	1.83
Agriculture	4.3%	3.8%	4.9%	4.4%
Developed	18.8%	18.7%	9%	8.8%
Natural	59%	59.7%	65.2%	65.9%
Wetland	17.9%	17.8%	20.9%	20.9%
Impervious	5.9%	5.8%	2.9%	2.8%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Fish Passage Barrier*)	--	Unchanged
5	5	Enterococcus	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (N)	X	--	--	--	--
Enterococcus	Source Unknown (N)	--	--	--	X	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Furnace Brook (MA62-73) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Furnace Brook (MA62-73) is Not Assessed.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	
<p>The Primary Contact Recreation Use for Furnace Brook (MA62-73) continues to be assessed as Not Supporting. The prior <i>Enterococcus</i> impairment is being carried forward based on bacteria data exceeding thresholds at one station in 2019. Taunton River Watershed Alliance (TRWA) staff/volunteers collected <i>Enterococcus</i> bacteria samples at the downstream end of Furnace Brook at TRWA_FBR-01 [River St., E. Taunton] from Apr-Oct 2019 (n=7). Analysis of the single year moderate frequency dataset from this station indicated 100% of intervals had GMs >35 CFU/100ml and 4 samples exceeded the 130 CFU/100ml STV (maximum 450 CFU). The bacteria data from TRWA_FBR-01 are indicative of an <i>Enterococcus</i> impairment.</p>	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
TRWA_FBR-01	Taunton River Watershed Alliance	Water Quality	Furnace River	Furnace Brk., River St., E. Taunton	41.893088	-71.001270

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

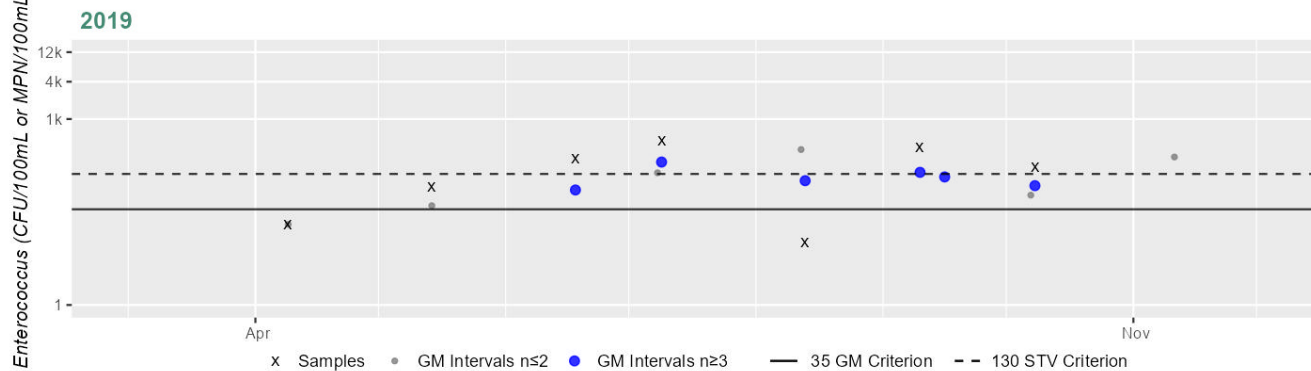
(TRWA 2020) (MassDEP Undated 3)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
TRWA_FBR-01	Taunton River Watershed Association	Enterococci	04/09/19	10/08/19	7	10	450	99

Station TRWA_FBR-01 - Enterococcus

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	7
SeasGM	99
#GMI	6
#GMI Ex	6
%GMI Ex	100%
n>STV	4
%n>STV	57%

Cumulative %GMI Exceedance Current (2011-2022)

100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
Recent 5 Years may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No <i>E. coli</i> bacteria or other indicator data for Furnace Brook (MA62-73) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Furnace Lake (MA62076)

Location:	Foxborough.
AU Type:	FRESHWATER LAKE
AU Size:	15 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Furnace Lake (MA62076) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Gavins Pond (MA62077)

Location:	Sharon/Foxborough.
AU Type:	FRESHWATER LAKE
AU Size:	18 ACRES
Classification/Qualifier:	B

No usable data were available for Gavins Pond (MA62077) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Glue Factory Pond (MA62078)

Location:	Foxborough (formerly part of 2014 segment: Rumford River MA62-39).
AU Type:	FRESHWATER LAKE
AU Size:	7 ACRES
Classification/Qualifier:	B

No usable data were available for Glue Factory Pond (MA62078) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Great Quittacas Pond (MA62083)

Location:	Lakeville/Middleborough/Rochester.
AU Type:	FRESHWATER LAKE
AU Size:	1125 ACRES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for Great Quittacas Pond (MA62083) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Gushee Pond (MA62084)

Location:	Raynham.
AU Type:	FRESHWATER LAKE
AU Size:	27 ACRES
Classification/Qualifier:	B

No usable data were available for Gushee Pond (MA62084) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fanwort*)	--	Unchanged
4c	4c	(Fish Passage Barrier*)	--	Unchanged
4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Hartwell School Pond (MA62086)

Location:	Mansfield (formerly part of 2014 segment: Canoe River MA62-27).
AU Type:	FRESHWATER LAKE
AU Size:	8 ACRES
Classification/Qualifier:	B

No usable data were available for Hartwell School Pond (MA62086) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

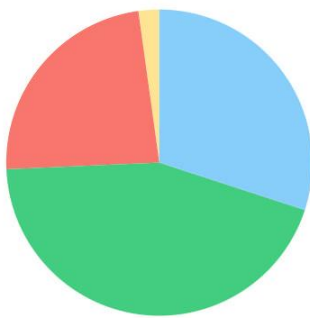
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Hockomock River (MA62-35)

Location:	Headwaters, perennial portion, west of Route 24, West Bridgewater to mouth at confluence with Town River, Bridgewater.
AU Type:	RIVER
AU Size:	4.3 MILES
Classification/Qualifier:	B

Hockomock River (MA62-35)

Watershed Area: 34.49 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	34.49	8.67	9.94	2.19
Agriculture	2.2%	2.5%	3%	3.9%
Developed	23.5%	14.6%	17.9%	8.7%
Natural	44.3%	21.6%	42.8%	18.7%
Wetland	30%	61.4%	36.3%	68.8%
Impervious	12.3%	8.6%	9.2%	5.5%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Benthic Macroinvertebrates	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Hockomock River (MA62-35) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO
2024/26 Use Attainment Summary	
<p>The Aesthetics Use for Hockomock River (MA62-35) is assessed as Fully Supporting based on the general lack of objectionable conditions noted by MassDEP staff during the summers of 2013 and 2019. MassDEP staff recorded aesthetics observations at three stations throughout this Hockomock River AU, as part of the MAP2 wadeable streams monitoring project during the summer of 2013 and for selected monitoring during the summer of 2019, from upstream to downstream as follows; close to the upstream end of the AU ~770ft downstream/west from Manley Street in West Bridgewater (W2384) during summer 2013 (n=8), then close to the downstream end of the AU at Maple Street, West Bridgewater (W2829) during summer 2019 (n=8) and at the West Bridgewater/Bridgewater border ~600ft from the confluence with Town River (W2381) during summer 2013 (n=8). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded at any of these stations, though minor trash was observed at W2384 on two occasions in 2013.</p>	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2381	MassDEP	Water Quality	Hockomock River	[at the West Bridgewater/Bridgewater border approximately 600 feet from the confluence with Town River]	41.988368	-71.035453
W2384	MassDEP	Water Quality	Hockomock River	[approximately 770 feet downstream/west from Manley Street, West Bridgewater]	42.015585	-71.052662
W2829	MassDEP	Water Quality	Hockomock River	[Maple Street, West Bridgewater]	41.992308	-71.042774

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2381	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2381 on Hockomock River (MA62-35) during 8 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2384	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2384 on Hockomock River (MA62-35) during 8 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted objectionable deposits (n=2).
W2829	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2829 on Hockomock River (MA62-35) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2381	2013	8	4	1
W2384	2013	8	8	0
W2829	2019	8	7	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2381	Hockomock River	2013	Aesthetics Impaired?	No	6	8
W2381	Hockomock River	2013	Aesthetics Impaired?	NR	2	8
W2381	Hockomock River	2013	Aquatic Plant Density, Overall	Dense	1	8
W2381	Hockomock River	2013	Aquatic Plant Density, Overall	Moderate	4	8
W2381	Hockomock River	2013	Aquatic Plant Density, Overall	NR	1	8
W2381	Hockomock River	2013	Aquatic Plant Density, Overall	Sparse	2	8
W2381	Hockomock River	2013	Color	Light Yellow/Tan	6	8
W2381	Hockomock River	2013	Color	None	1	8
W2381	Hockomock River	2013	Color	Unobservable	1	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2381	Hockomock River	2013	Objectionable Deposits	No	7	8
W2381	Hockomock River	2013	Objectionable Deposits	Unobservable	1	8
W2381	Hockomock River	2013	Odor	None	7	8
W2381	Hockomock River	2013	Odor	NR	1	8
W2381	Hockomock River	2013	Periphyton Density, Filamentous	Dense	1	8
W2381	Hockomock River	2013	Periphyton Density, Filamentous	NR	1	8
W2381	Hockomock River	2013	Periphyton Density, Filamentous	Sparse	3	8
W2381	Hockomock River	2013	Periphyton Density, Filamentous	Unobservable	3	8
W2381	Hockomock River	2013	Periphyton Density, Film	None	4	8
W2381	Hockomock River	2013	Periphyton Density, Film	NR	1	8
W2381	Hockomock River	2013	Periphyton Density, Film	Unobservable	3	8
W2381	Hockomock River	2013	Scum	No	6	8
W2381	Hockomock River	2013	Scum	Unobservable	1	8
W2381	Hockomock River	2013	Scum	Yes	1	8
W2381	Hockomock River	2013	Turbidity	None	6	8
W2381	Hockomock River	2013	Turbidity	Slightly Turbid	1	8
W2381	Hockomock River	2013	Turbidity	Unobservable	1	8
W2384	Hockomock River	2013	Aesthetics Impaired?	No	5	8
W2384	Hockomock River	2013	Aesthetics Impaired?	NR	3	8
W2384	Hockomock River	2013	Aquatic Plant Density, Overall	None	4	8
W2384	Hockomock River	2013	Aquatic Plant Density, Overall	Sparse	4	8
W2384	Hockomock River	2013	Color	Light Yellow/Tan	6	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2384	Hockomock River	2013	Color	None	2	8
W2384	Hockomock River	2013	Objectionable Deposits	No	6	8
W2384	Hockomock River	2013	Objectionable Deposits	Yes	2	8
W2384	Hockomock River	2013	Odor	None	8	8
W2384	Hockomock River	2013	Periphyton Density, Filamentous	Moderate	1	8
W2384	Hockomock River	2013	Periphyton Density, Filamentous	None	7	8
W2384	Hockomock River	2013	Periphyton Density, Film	None	7	8
W2384	Hockomock River	2013	Periphyton Density, Film	Sparse	1	8
W2384	Hockomock River	2013	Scum	No	8	8
W2384	Hockomock River	2013	Turbidity	None	7	8
W2384	Hockomock River	2013	Turbidity	Slightly Turbid	1	8
W2829	Hockomock River	2019	Aesthetics Impaired?	No	8	8
W2829	Hockomock River	2019	Aquatic Plant Density, Overall	Moderate	1	8
W2829	Hockomock River	2019	Aquatic Plant Density, Overall	None	1	8
W2829	Hockomock River	2019	Aquatic Plant Density, Overall	Sparse	4	8
W2829	Hockomock River	2019	Aquatic Plant Density, Overall	Unobservable	1	8
W2829	Hockomock River	2019	Aquatic Plant Density, Overall	Very Dense	1	8
W2829	Hockomock River	2019	Color	Light Yellow/Tan	6	8
W2829	Hockomock River	2019	Color	None	2	8
W2829	Hockomock River	2019	Objectionable Deposits	No	7	8
W2829	Hockomock River	2019	Objectionable Deposits	Unobservable	1	8
W2829	Hockomock River	2019	Odor	None	8	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2829	Hockomock River	2019	Periphyton Density, Filamentous	None	4	8
W2829	Hockomock River	2019	Periphyton Density, Filamentous	Sparse	3	8
W2829	Hockomock River	2019	Periphyton Density, Filamentous	Unobservable	1	8
W2829	Hockomock River	2019	Periphyton Density, Film	None	6	8
W2829	Hockomock River	2019	Periphyton Density, Film	Sparse	1	8
W2829	Hockomock River	2019	Periphyton Density, Film	Unobservable	1	8
W2829	Hockomock River	2019	Scum	No	7	8
W2829	Hockomock River	2019	Scum	Yes	1	8
W2829	Hockomock River	2019	Turbidity	None	7	8
W2829	Hockomock River	2019	Turbidity	Slightly Turbid	1	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for the Hockomock River (MA62-35) continues to be assessed as Fully Supporting. MassDEP staff collected <i>E. coli</i> bacteria samples in the Hockomock River from 2013-2019 at three stations. Samples were collected from the following stations/sample years from upstream to downstream: about a quarter of the way down the AU at W2384 [~770 ft downstream/west from Manley St, West Bridgewater] from May-Sep 2013 (n=5), then close to the downstream end of the AU at W2829 [Maple St, West Bridgewater] from Jun-Aug 2019 (n=6) and W2381 [at the West Bridgewater/Bridgewater border ~600 ft from the confluence with Town River] from May-Sep 2013 (n=4). Analysis of the single year limited frequency <i>E. coli</i> datasets from all three stations indicated that while between 0 and 66% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM ranged from only 41 to 113 CFU/100ml. <i>E. coli</i> data from the sample stations on Hockomock River were indicative of good water quality conditions.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2381	MassDEP	Water Quality	Hockomock River	[at the West Bridgewater/Bridgewater border approximately 600 feet from the confluence with Town River]	41.988368	-71.035453
W2384	MassDEP	Water Quality	Hockomock River	[approximately 770 feet downstream/west from Manley Street, West Bridgewater]	42.015585	-71.052662
W2829	MassDEP	Water Quality	Hockomock River	[Maple Street, West Bridgewater]	41.992308	-71.042774

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

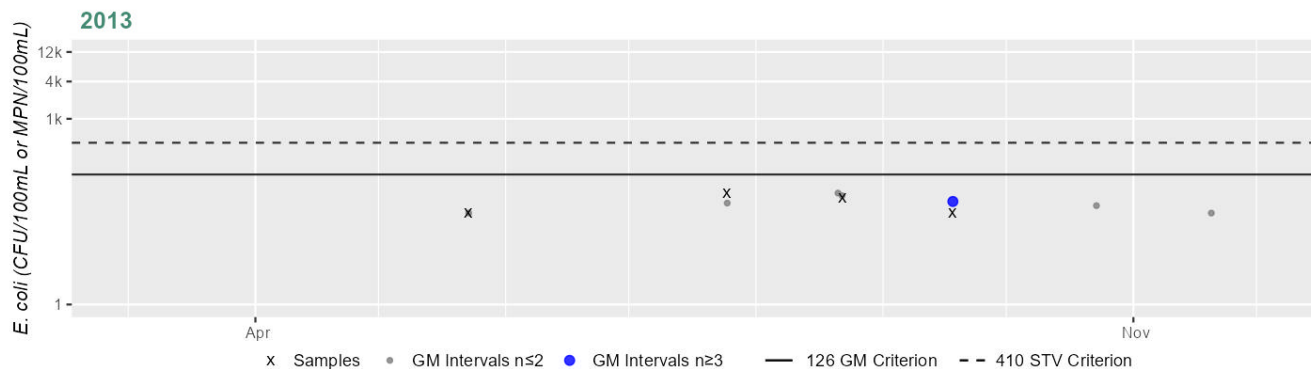
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2381	MassDEP	E. coli	05/23/13	09/18/13	4	30	63	41
W2384	MassDEP	E. coli	05/23/13	09/18/13	5	63	193	110
W2829	MassDEP	E. coli	06/06/19	08/22/19	6	36	326	113

Station MASSDEP_W2381 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	41
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

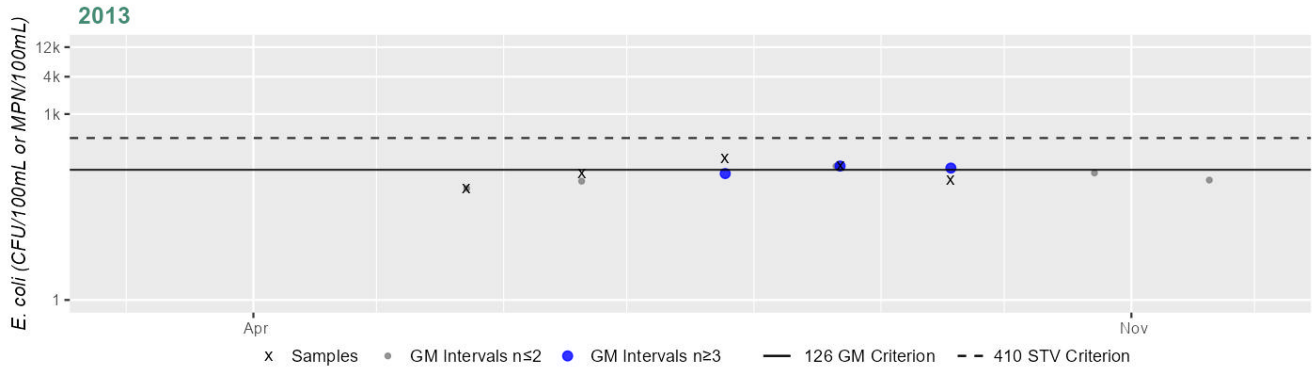
Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2384 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



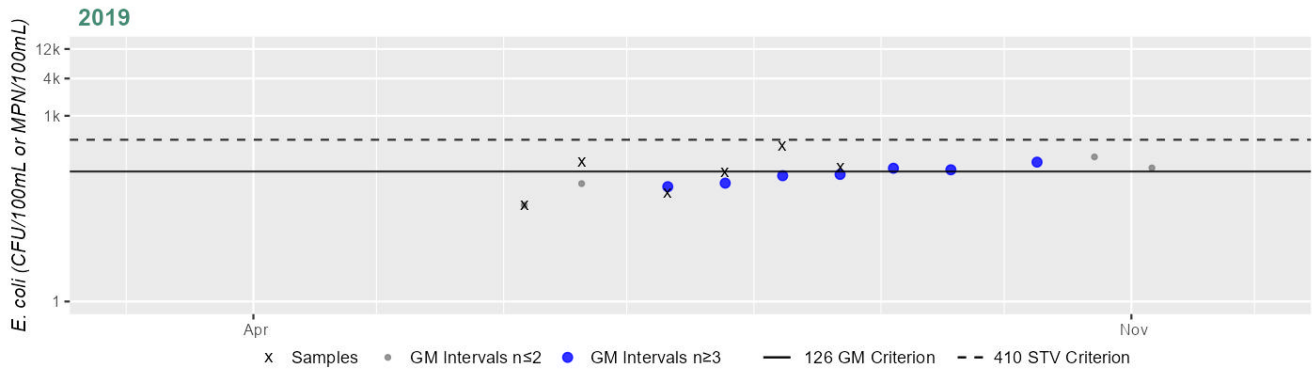
Variable*	Result
Samples	5
SeasGM	110
#GMI	3
#GMI Ex	2
%GMI Ex	66%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 66%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2829 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	113
#GMI	7
#GMI Ex	3
%GMI Ex	42%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 42%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for the Hockomock River (MA62-35) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data from 3 stations in 2013 & 2019. MassDEP staff collected *E. coli* bacteria samples in the Hockomock River from 2013-2019 at three stations. Samples were collected from the following stations/sample years from upstream to downstream: about a quarter of the way down the AU at W2384 [~770 ft downstream/west from Manley St, West Bridgewater] from May-Sep 2013 (n=5), then close to the downstream end of the AU at W2829 [Maple St, West Bridgewater] from Jun-Aug 2019 (n=6) and W2381 [at the West Bridgewater/Bridgewater border ~600 ft from the confluence with Town River] from May-Sep 2013 (n=4). Analysis of the single year limited frequency *E. coli* dataset from all three stations indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM ranged from only 41 to 113 CFU/100ml. *E. coli* data from these three sample stations on Hockomock River were indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2381	MassDEP	Water Quality	Hockomock River	[at the West Bridgewater/Bridgewater border approximately 600 feet from the confluence with Town River]	41.988368	-71.035453
W2384	MassDEP	Water Quality	Hockomock River	[approximately 770 feet downstream/west from Manley Street, West Bridgewater]	42.015585	-71.052662
W2829	MassDEP	Water Quality	Hockomock River	[Maple Street, West Bridgewater]	41.992308	-71.042774

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

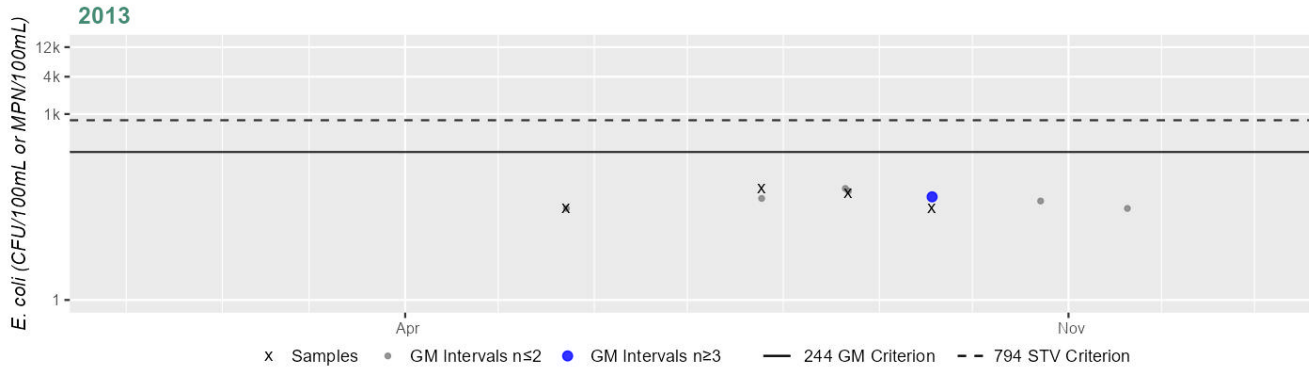
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2381	MassDEP	E. coli	05/23/13	09/18/13	4	30	63	41
W2384	MassDEP	E. coli	05/23/13	09/18/13	5	63	193	110
W2829	MassDEP	E. coli	06/06/19	08/22/19	6	36	326	113

Station MASSDEP_W2381 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



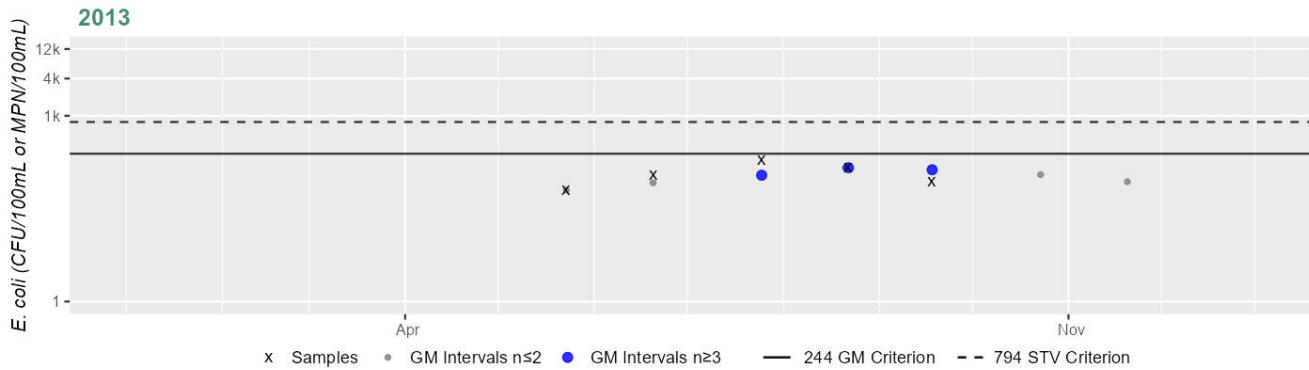
Variable*	Result
Samples	4
SeasGM	41
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2384 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



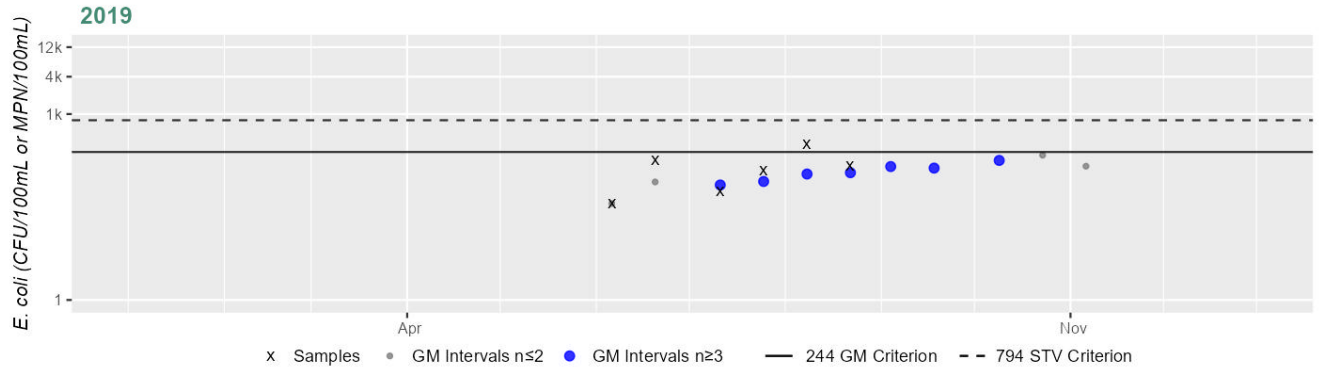
Variable*	Result
Samples	5
SeasGM	110
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2829 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	113
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Island Grove Pond (MA62094)

Location:	Abington.
AU Type:	FRESHWATER LAKE
AU Size:	31 ACRES
Classification/Qualifier:	B

No usable data were available for Island Grove Pond (MA62094) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Fanwort*)	--	Unchanged
5	5	Algae	--	Unchanged
5	5	Turbidity	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Algae	Source Unknown (N)	X	--	X	X	X
Turbidity	Source Unknown (N)	--	--	X	X	X

Johns Pond (MA62096)

Location:	Carver.
AU Type:	FRESHWATER LAKE
AU Size:	21 ACRES
Classification/Qualifier:	B

No usable data were available for Johns Pond (MA62096) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Kings Pond (MA62101)

Location:	Raynham.
AU Type:	FRESHWATER LAKE
AU Size:	13 ACRES
Classification/Qualifier:	B

No usable data were available for Kings Pond (MA62101) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fish Passage Barrier*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--

Lake Mirimichi (MA62118)

Location:	Plainville/Foxborough.
AU Type:	FRESHWATER LAKE
AU Size:	175 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	5	(Fanwort*)	--	Unchanged
4c	5	PFAS in Fish Tissue	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
PFAS in Fish Tissue	Source Unknown (N)	--	X	--	--	--

Recommendations

2024/26 Recommendations
2024/26IR [Aesthetics, Low] Additional monitoring should be conducted for Lake Mirimichi (MA62118) to determine if there is evidence of a Nutrient/Eutrophication Biological Indicators impairment, including the presence of <i>Wolfia</i> and <i>Lemna</i> . An Alert was originally identified for Nutrient/Eutrophication Biological Indicators due to the presence of <i>Wolfia</i> and <i>Lemna</i> observed during a 1996 synoptic survey. This is a low priority;

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No

2024/26 Use Attainment Summary
The Fish Consumption Use for Lake Mirimichi (MA62118) is assessed as Not Supporting with a new impairment being added for PFAS in Fish Tissue. Fish toxics sampling was conducted in Lake Mirimichi (MA62118) at station F0005 (PFAS Study ID 18) on 09/28/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. MDPH issued a site-specific advisory for PFAS in Lake Mirimichi (referred to by MDPH as "Mirimichi, Lake") in their May 2024 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations. No source of PFAS has been identified at this time.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
F0005	MassDEP	Fish Toxics	Lake Mirimichi	[Plainville/Foxborough (impounded by Mirimichi Pond Spillway, NAT ID: MA00168)]	42.024179	-71.288083

Fish Tissue Data

Summary of Fish Tissue Data and Resulting Fish Consumption Advisories (MA DPH 2025) (MassDEP 2023) (MassDEP Undated 7)

Summary
Fish toxics sampling was conducted in Lake Mirimichi (MA62118) at station F0005 (PFAS Study ID 18) on 09/28/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. Because of elevated PFAS measured in fish filets, MDPH issued site-specific fish consumption advisories for Lake Mirimichi (referred to by MDPH as Mirimichi, Lake) in their May 2024 Freshwater Fish Consumption Advisory List. The site-specific DPH advisories are indicative of a Fish Consumption Use impairment for PFAS in Fish Tissue for Lake Mirimichi (MA62118).

MassDEP 2022 PFAS in Fish Tissue Data for Massachusetts Surface Waters (MassDEP 2023) (MassDEP Undated 7) (MA DPH 2023c)

[ng/g = ppb. All PFBA, PFBS, and HFPO-DA (Genx) concentrations <MDL. ND indicates that the PFAS analyte was not detected in any of the composite samples (i.e., it was <MDL). Means weighted by the number of fish in the contributing composites were calculated for any PFAS analyte – waterbody – species combination where an analyte was detected in at least one sample; if a sample did not have the analyte detected, the concentration for that sample was set to ½*MDL for the purposes of calculating a mean. Data are highlighted red per the fish consumption advisory thresholds summarized in Table 4.2 of MDPH's 2023 Technical Support Document for the evaluation of PFAS in recreational waterbodies.]

[Species List: B = bluegill, LMB = largemouth bass, YP = yellow perch]

Station Code	PFAS Study ID	Sample Date	Species	Mean PFHxS ng/g	Mean PFNA ng/g	Mean PFOA ng/g	Mean PFOS ng/g	Analytes with ≥ 1 Sample Qualified
F0005	18	09/28/2022	B	ND	ND	ND	68.50	All Analytes
F0005	18	09/28/2022	LMB	ND	ND	ND	125.00	All Analytes
F0005	18	09/28/2022	YP	ND	ND	ND	52.89	All Analytes

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	YES

2024/26 Use Attainment Summary
There are no data available to assess the status of the Aesthetics Use for this Lake Mirimichi AU (MA62118), so it is Not Assessed. The prior Alert identified for Nutrient/Eutrophication Biological Indicators due to the presence of <i>Wolfia</i> and <i>Lemna</i> observed during a 1996 synoptic survey (MassDEP 1996) is being carried forward. A recommendation will be made for additional sampling to determine if there is evidence of a Nutrient/Eutrophication Biological Indicators impairment for Lake Mirimichi.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
There is insufficient information available to assess the Primary Contact Recreation Use for Lake Mirimichi (MA62118). The prior Alert identified for Nutrient/Eutrophication Biological Indicators (due to the presence of <i>Wolfia</i> and <i>Lemna</i> observed during a 1996 synoptic survey) is being removed from the Recreational Uses but continues to be maintained under the Aesthetics Use. Surface water sampling was conducted in this Lake Mirimichi AU at station W3280 (PFAS Study ID 18) on 09/28/2022 as part of a 2022 MassDEP funded project with ERG evaluating 40 PFAS analytes in selected fresh waters. The concentrations of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS, HFPO-DA/GenX) were all less than the 90 ng/L (ppt) recreational screening value. There are no other data available to assess the status of the Primary Contact Recreation Use for Lake Mirimichi.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W3280	MassDEP	Water Quality	Lake Mirimichi	[the default location representing co-located water/fish PFAS sampling, Plainville/Foxborough]	42.024179	-71.288083

Other Indicators

Summary Statement(s) for MassDEP 2022 PFAS in Water Column Data (MassDEP 2023) (MassDEP Undated 5)

Summary
Surface water sampling was conducted in Lake Mirimichi (MA62118) at station W3280 (PFAS Study ID 18) on 09/28/2022 as part of a 2022 MassDEP funded project with ERG evaluating 40 PFAS analytes in selected fresh waters. The concentrations of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS, HFPO-DA/GenX) were all less than the 90 ng/L (ppt) recreational screening value.

MassDEP 2022 PFAS in Water Column Data for Massachusetts Surface Waters (MassDEP 2023) (MassDEP Undated 5)

[HFPO-DA is also known as GenX; the Σ PFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here); * indicates the Σ PFAS6 concentration was qualified since data for one or more individual PFAS6 analytes were qualified; b = blank contamination qualifier, d = qualifier indicating precision of field duplicates did not meet project data quality objectives; j = 'estimated' value qualifier; ## = censored data.]

Station Code	PFAS Study ID	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	HFPO-DA ng/L	Σ PFAS6 ng/L
W3280	18	09/28/2022	12	23	1.1j	2.7	6j	4.3	<2.1	42.7*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Lake Mirimichi (MA62118) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. The prior Alert identified for Nutrient/Eutrophication Biological Indicators (due to the presence of Wolfia and Lemna observed during a 1996 synoptic survey) is being removed from the Recreational Uses but continues to be maintained under the Aesthetics Use.

Lake Nippenicket (MA62131)

Location:	Bridgewater/Raynham.
AU Type:	FRESHWATER LAKE
AU Size:	375 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	(Fanwort*)	--	Unchanged
4a	4a	Mercury in Fish Tissue	33880	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Mercury in Fish Tissue	Atmospheric Deposition (Y)	--	X	--	--	--
Mercury in Fish Tissue	Source Unknown (N)	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No
2024/26 Use Attainment Summary	

The Fish Consumption Use for Lake Nippenicket (MA62131) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. Fish toxics sampling was conducted in Lake Nippenicket (MA62131) at station F0375 in 2019 and 2022 as part of the MassDEP Office of Research and Standards Mercury Initiative. MDPH included a site-specific advisory for Lake Nippenicket (referred to by MDPH as "Nippenicket, Lake") in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Fish Consumption Advisories

Summary of Fish Toxics Sampling and Resulting Fish Consumption Advisories (MA DPH 2025) (MassDEP Undated 7)

Summary Statement
Fish toxics sampling was conducted in Lake Nippenicket (MA62131) at station F0375 in 2019 and 2022 as part of the MassDEP Office of Research and Standards Mercury Initiative. MDPH retained the existing site-specific fish consumption advisories for Mercury associated with Lake Nippenicket (referred to by MDPH as Nippenicket, Lake) in their 2025 Freshwater Fish Consumption Advisory List. The site-specific DPH advisories are indicative of a Fish Consumption Use impairment for Mercury in Fish Tissue for Lake Nippenicket (MA62131).

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Lake Nippenicket (MA62131) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Lake Nippenicket (MA62131) are available, so the Primary Contact Recreation Use is Not Assessed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Lake Nippenicket (MA62131) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Lake Rico (MA62148)

Location:	Taunton (portion formerly reported as 2000 lake segment: King Pond MA62102).
AU Type:	FRESHWATER LAKE
AU Size:	188 ACRES
Classification/Qualifier:	B

No usable data were available for Lake Rico (MA62148) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
4c	4c	(Fanwort*)	--	Unchanged
4c	4c	(Fish Passage Barrier*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Eurasian Water Milfoil, Myriophyllum Spicatum*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--

Lake Sabbatia (MA62166)

Location:	Taunton.
AU Type:	FRESHWATER LAKE
AU Size:	265 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Aquatic Plants (Macrophytes)*)	--	Added
5	5	(Fanwort*)	--	Unchanged
5	5	(Non-Native Aquatic Plants*)	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	PFAS in Fish Tissue	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Aquatic Plants (Macrophytes)*)	Source Unknown (N)	--	--	X	X	X
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
PFAS in Fish Tissue	Source Unknown (N)	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No

2024/26 Use Attainment Summary
<p>The Fish Consumption Use for Lake Sabbatia (MA62166) is assessed as Not Supporting with a new impairment being added for PFAS in Fish Tissue. Fish toxics sampling was conducted in Lake Sabbatia (MA62166) at station F0477 (PFAS Study ID 21) on 08/03/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. MDPH issued a site-specific advisory for PFAS in Lake Sabbatia (referred to by MDPH as "Sabbatia, Lake") in their May 2024 Freshwater Fish Consumption Advisory List and retained it in the 2025 list. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations. No source of PFAS has been identified at this time.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
F0477	MassDEP	Fish Toxics	Lake Sabbatia	[Taunton (impounded by Morey's Bridge Dam NAT ID: MA00923)]	41.945490	-71.110996

Fish Tissue Data

Summary of Fish Tissue Data and Resulting Fish Consumption Advisories (MA DPH 2025) (MassDEP 2023) (MassDEP Undated 7)

Summary
<p>Fish toxics sampling was conducted in Lake Sabbatia (MA62166) at station F0477 (PFAS Study ID 21) on 08/03/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. Because of elevated PFAS measured in fish filets, MDPH issued site-specific fish consumption advisories for Lake Sabbatia (referred to by MDPH as Sabbatia, Lake) in their May 2024 Freshwater Fish Consumption Advisory List and retained them in the 2025 list. The site-specific DPH advisories are indicative of a Fish Consumption Use impairment for PFAS in Fish Tissue for Lake Sabbatia (MA62166).</p>

MassDEP 2022 PFAS in Fish Tissue Data for Massachusetts Surface Waters (MassDEP 2023) (MassDEP Undated 7) (MA DPH 2023c)

[ng/g = ppb. All PFBA, PFBS, and HFPO-DA (Genx) concentrations <MDL. ND indicates that the PFAS analyte was not detected in any of the composite samples (i.e., it was <MDL). Means weighted by the number of fish in the contributing composites were calculated for any PFAS analyte – waterbody – species combination where an analyte was detected in at least one sample; if a sample did not have the analyte detected, the concentration for that sample was set to ½*MDL for the purposes of calculating a mean. Data are highlighted red per the fish consumption advisory thresholds summarized in Table 4.2 of MDPH's 2023 Technical Support Document for the evaluation of PFAS in recreational waterbodies.]

[Species List: BC = black crappie, LMB = largemouth bass, YP = yellow perch]

Station Code	PFAS Study ID	Sample Date	Species	Mean PFHxS ng/g	Mean PFNA ng/g	Mean PFOA ng/g	Mean PFOS ng/g	Analytes with ≥ 1 Sample Qualified
F0477	21	08/03/2022	BC	ND	0.64	ND	18.00	
F0477	21	08/03/2022	LMB	ND	0.12	ND	15.50	PFNA
F0477	21	08/03/2022	YP	ND	0.25	ND	9.71	PFNA

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

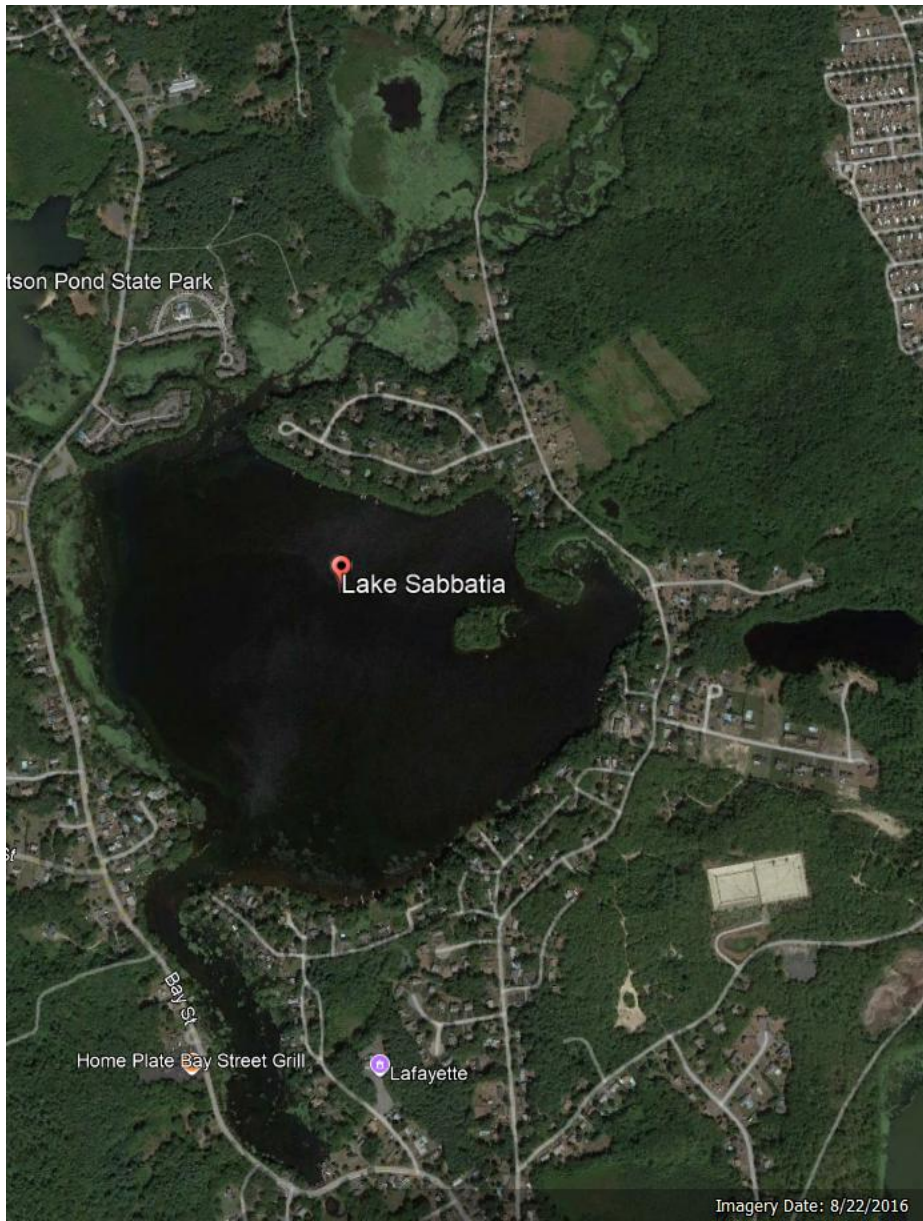
2024/26 Use Attainment Summary

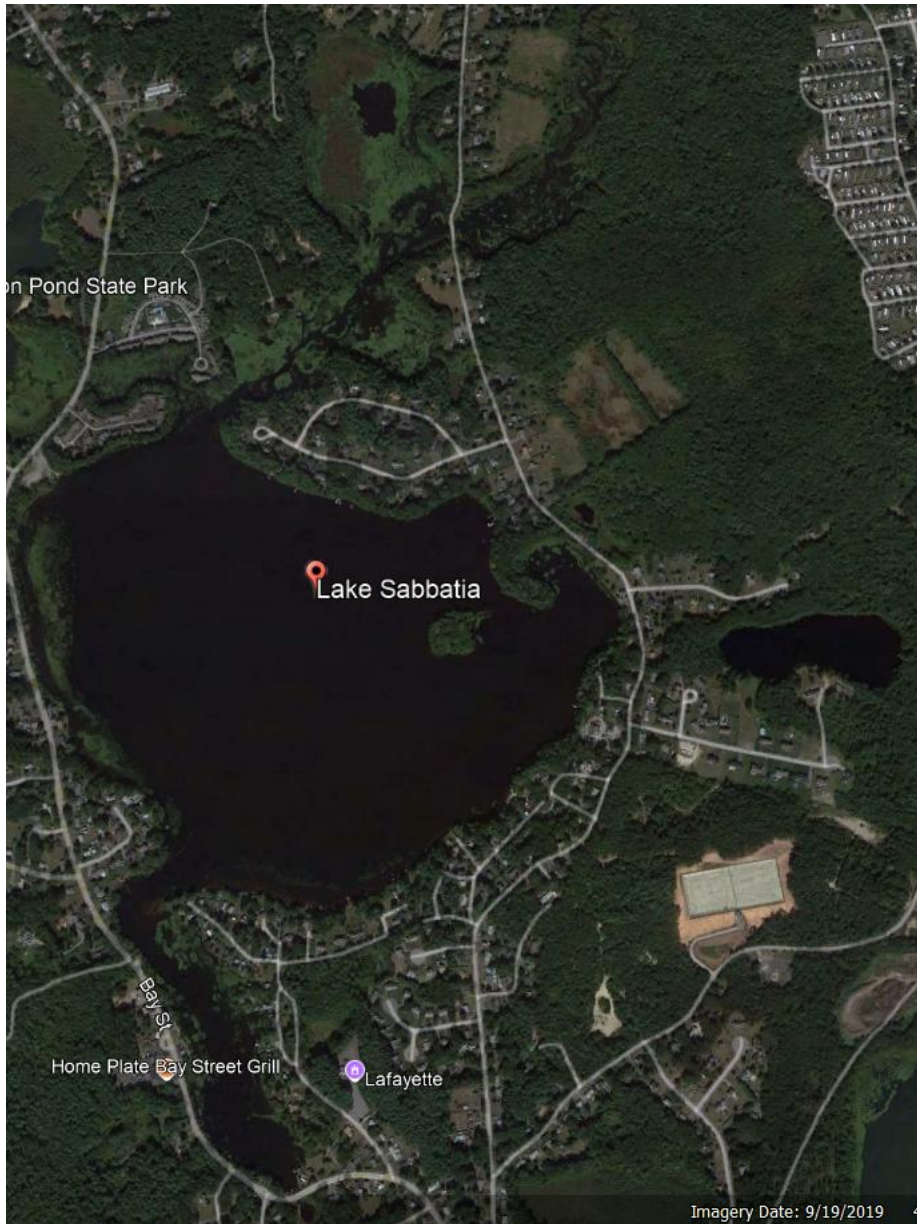
The Aesthetics Use for Lake Sabbatia (MA62166) will continue to be assessed as Not Supporting. Since the Non-Native Aquatic Plants impairment was redundantly duplicated across multiple uses for this waterbody, the Non-Native Aquatic Plants impairment is being removed from the Aesthetics Use, but will continue to be maintained under the Aquatic Life Use. Since MassDEP staff noted the presence of dense non-native macrophytes covering approximately 50% of the lake area during a 2001 survey (Mattson and Haque 2004) and Google earth confirms dense vegetation in the northern arm and also on the Western shore of the lake in August 2016, September 2019 and October 2021 (Google Earth Pro Undated), an Aquatic Plants (Macrophytes) non-pollutant impairment is being added in the place of the Non-Native Aquatic Plants impairment at this time. No new data are available to assess the status of the Aesthetic Use for this Lake Sabbatia AU.

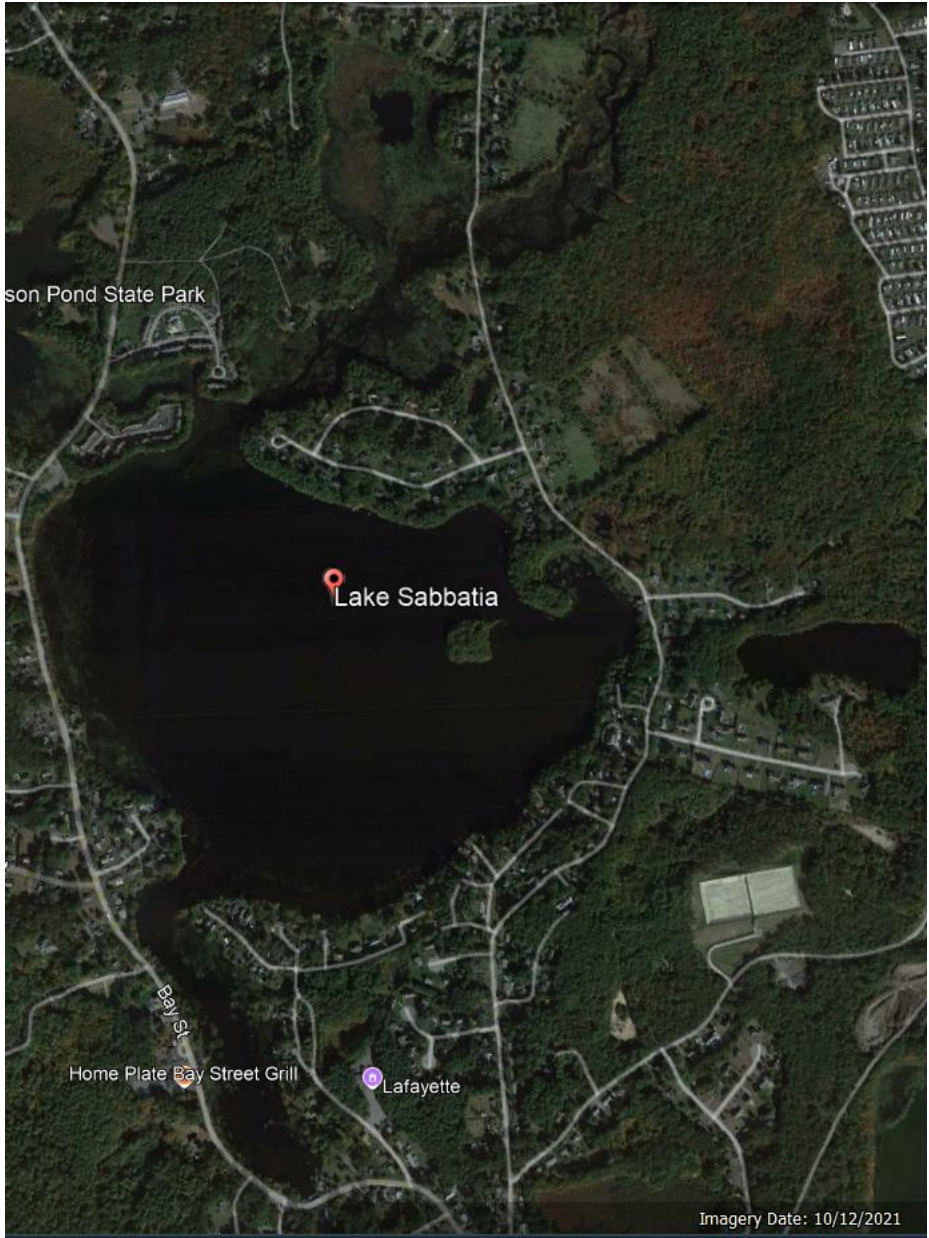
Aesthetic Observations

Lake Sabbatia (MA62166) Google Earth Imagery: Pond Outline (2000) Followed by Imagery from 2016, 2019 and 2021 Showing Dense/Very Dense Vegetation Covering >25% of the Pond's Surface (Google Earth Pro Undated)









Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Lake Sabbatia (MA62166) continues to be assessed as Not Supporting, with an Aquatic Plants (Macrophytes) impairment being added (from the Aesthetics Use). Since the Non-Native Aquatic Plants impairment is being removed from the Aesthetics Use this cycle, this impairment is also being removed from the Primary Contact Recreation Use. Surface water sampling was conducted in Lake Sabbatia at station W3283 (PFAS Study ID 21) on 08/03/2022 as part of a 2022 MassDEP funded project with ERG evaluating 40 PFAS analytes in selected fresh waters. The concentrations of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS, HFPO-DA/GenX) were all less than the 90 ng/L (ppt) recreational screening value.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W3283	MassDEP	Water Quality	Lake Sabbatia	[the default location representing co-located water/fish PFAS sampling, Taunton]	41.945490	-71.110996

Other Indicators

Summary Statement(s) for MassDEP 2022 PFAS in Water Column Data (MassDEP 2023) (MassDEP Undated 5)

Summary
Surface water sampling was conducted in Lake Sabbatia (MA62166) at station W3283 (PFAS Study ID 21) on 08/03/2022 as part of a 2022 MassDEP funded project with ERG evaluating 40 PFAS analytes in selected fresh waters. The concentrations of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS, HFPO-DA/GenX) were all less than the 90 ng/L (ppt) recreational screening value.

MassDEP 2022 PFAS in Water Column Data for Massachusetts Surface Waters (MassDEP 2023) (MassDEP Undated 5)

[HFPO-DA is also known as GenX; the Σ PFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here); * indicates the Σ PFAS6 concentration was qualified since data for one or more individual PFAS6 analytes were qualified; b = blank contamination qualifier, d = qualifier indicating precision of field duplicates did not meet project data quality objectives; j = 'estimated' value qualifier; ## = censored data.]

Station Code	PFAS Study ID	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	HFPO-DA ng/L	Σ PFAS6 ng/L
W3283	21	08/03/2022	7	<0.55	0.69j	2.5	3j	2.9	<2.2	14.7*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	

The Secondary Contact Recreation Use for Lake Sabbatia (MA62166) continues to be assessed as Not Supporting, with an Aquatic Plants (Macrophytes) impairment being added (from the Aesthetics Use). Since the Non-Native Aquatic Plants impairment is being removed from the Aesthetics Use this cycle, this impairment is also being removed from the Secondary Contact Recreation Use. No bacteria or other indicator data for Lake Sabbatia are available in the current IR window (2011-2022).

Leach Pond (MA62103)

Location:	Easton/Sharon.
AU Type:	FRESHWATER LAKE
AU Size:	111 ACRES
Classification/Qualifier:	B

No usable data were available for Leach Pond (MA62103) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Little Cedar Swamp (MA62106)

Location:	Easton.
AU Type:	FRESHWATER LAKE
AU Size:	91 ACRES
Classification/Qualifier:	B

No usable data were available for Little Cedar Swamp (MA62106) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Little Quittacas Pond (MA62107)

Location:	Lakeville/Rochester.
AU Type:	FRESHWATER LAKE
AU Size:	295 ACRES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for Little Quittacas Pond (MA62107) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Long Pond (MA62108)

Location:	Lakeville/Freetown.
AU Type:	FRESHWATER LAKE
AU Size:	1728 ACRES
Classification/Qualifier:	A: PWS, ORW

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	5	(Fanwort*)	--	Unchanged
4c	5	(Non-Native Aquatic Plants*)	--	Unchanged
4c	5	PFAS in Fish Tissue	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
PFAS in Fish Tissue	Source Unknown (N)	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No
2024/26 Use Attainment Summary	

The Fish Consumption Use for Long Pond (MA62108) is assessed as Not Supporting with a new impairment being added for PFAS in Fish Tissue. Fish toxics sampling was conducted in Long Pond (MA62108) at station F0478 (PFAS Study ID 23) on 08/18/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. MDPH issued a site-specific advisory for PFAS in Long Pond in their May 2024 Freshwater Fish Consumption Advisory List and retained it in the 2025 list. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations. No source of PFAS has been identified at this time.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
F0478	MassDEP	Fish Toxics	Long Pond	[Lakeville/Freetown]	41.802145	-70.945708

Fish Tissue Data

Summary of Fish Tissue Data and Resulting Fish Consumption Advisories (MA DPH 2025) (MassDEP 2023) (MassDEP Undated 7)

Summary
Fish toxics sampling was conducted in Long Pond (MA62108) at station F0478 (PFAS Study ID 23) on 08/18/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. Because of elevated PFAS measured in fish filets, MDPH issued site-specific fish consumption advisories for Long Pond in their May 2024 Freshwater Fish Consumption Advisory List and retained them in the 2025 list. The site-specific DPH advisories are indicative of a Fish Consumption Use impairment for PFAS in Fish Tissue for Long Pond (MA62108).

MassDEP 2022 PFAS in Fish Tissue Data for Massachusetts Surface Waters (MassDEP 2023) (MassDEP Undated 7) (MA DPH 2023c)

[ng/g = ppb. All PFBA, PFBS, and HFPO-DA (Genx) concentrations <MDL. ND indicates that the PFAS analyte was not detected in any of the composite samples (i.e., it was <MDL). Means weighted by the number of fish in the contributing composites were calculated for any PFAS analyte – waterbody – species combination where an analyte was detected in at least one sample; if a sample did not have the analyte detected, the concentration for that sample was set to ½*MDL for the purposes of calculating a mean. Data are highlighted red per the fish consumption advisory thresholds summarized in Table 4.2 of MDPH's 2023 Technical Support Document for the evaluation of PFAS in recreational waterbodies.]

[Species List: LMB = largemouth bass, P = pumpkinseed, YP = yellow perch]

Station Code	PFAS Study ID	Sample Date	Species	Mean PFHxS ng/g	Mean PFNA ng/g	Mean PFOA ng/g	Mean PFOS ng/g	Analytes with ≥ 1 Sample Qualified
F0478	23	08/18/2022	LMB	ND	ND	ND	15.50	PFOS
F0478	23	08/18/2022	P	ND	0.18	ND	12.80	PFNA & PFOS
F0478	23	08/18/2022	YP	ND	0.39	ND	8.31	PFNA & PFOS

Aesthetic

2024/26 Use Attainment	Alert
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Not Assessed	NO
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2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Long Pond (MA62108) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
There is Insufficient Information available to assess the Primary Contact Recreation Use for Long Pond (MA62108). Surface water sampling was conducted in Long Pond (Lakeville) at station W3286 (PFAS Study ID 23) on 08/18/2022 as part of a 2022 MassDEP funded project with ERG evaluating 40 PFAS analytes in selected fresh waters. The concentrations of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS, HFPO-DA/GenX) were all less than the 90 ng/L (ppt) recreational screening value. There are no other data available to assess the status of the Primary Contact Recreation Use for this Long Pond AU.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W3286	MassDEP	Water Quality	Long Pond	[the default location representing co-located water/fish PFAS sampling, Lakeville/Freetown]	41.802145	-70.945708

Other Indicators

Summary Statement(s) for MassDEP 2022 PFAS in Water Column Data (MassDEP 2023) (MassDEP Undated 5)

Summary
Surface water sampling was conducted in Long Pond (Lakeville) (MA62108) at station W3286 (PFAS Study ID 23) on 08/18/2022 as part of a 2022 MassDEP funded project with ERG evaluating 40 PFAS analytes in selected fresh waters. The concentrations of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS, HFPO-DA/GenX) were all less than the 90 ng/L (ppt) recreational screening value.

MassDEP 2022 PFAS in Water Column Data for Massachusetts Surface Waters (MassDEP 2023) (MassDEP Undated 5)

[HFPO-DA is also known as GenX; the Σ PFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here); * indicates the Σ PFAS6 concentration was qualified since data for one or more individual PFAS6 analytes were qualified; b = blank contamination qualifier, d = qualifier indicating precision of field duplicates did not meet project data quality objectives; j = 'estimated' value qualifier; ## = censored data.]

Station Code	PFAS Study ID	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	HFPO-DA ng/L	Σ PFAS6 ng/L
W3286	23	08/18/2022	3.2	4.9	1.2j	2.6	3.2j	1.3dj	<1.9	13.9*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Long Pond (MA62108) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Long Pond River (MA62-74)

Location:	Headwaters outlet Long Pond, Lakeville to mouth at inlet Assawompsett Pond, Lakeville.
AU Type:	RIVER
AU Size:	0.4 MILES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Long Pond River (MA62-74) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Longwater Pond (MA62109)

Location:	Easton.
AU Type:	FRESHWATER LAKE
AU Size:	8 ACRES
Classification/Qualifier:	B

No usable data were available for Longwater Pond (MA62109) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Lovett Brook (MA62-46)

Location:	Headwaters, perennial portion, north of Oak Street, Brockton to mouth at inlet Elis Brett Pond, Brockton.
AU Type:	RIVER
AU Size:	1.5 MILES
Classification/Qualifier:	B

No usable data were available for Lovett Brook (MA62-46) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Lower Porter Pond (MA62111)

Location:	Brockton.
AU Type:	FRESHWATER LAKE
AU Size:	8 ACRES
Classification/Qualifier:	B

No usable data were available for Lower Porter Pond (MA62111) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fanwort*)	--	Unchanged

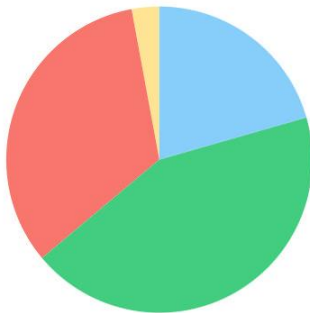
Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Matfield River (MA62-32)

Location:	Headwaters, confluence Beaver Brook and Salisbury Plain River, East Bridgewater to mouth at confluence with Town River forming headwaters Taunton River, Bridgewater.
AU Type:	RIVER
AU Size:	6.3 MILES
Classification/Qualifier:	B: WWF

Matfield River (MA62-32)

Watershed Area: 77.42 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	77.42	12.20	24.62	4.14
Agriculture	2.9%	4%	5.6%	4.5%
Developed	33.2%	24.7%	19.7%	16.1%
Natural	43.3%	45.7%	44.1%	49.9%
Wetland	20.6%	25.7%	30.6%	29.5%
Impervious	17.8%	10.4%	10.5%	6.9%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Algae	--	Unchanged
5	5	Benthic Macroinvertebrates	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	Enterococcus	40308	Changed
5	5	Escherichia Coli (E. Coli)	40308	Unchanged
5	5	Fecal Coliform	40308	Unchanged
5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
5	5	Odor	--	Unchanged
5	5	Phosphorus, Total	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Algae	Municipal Point Source Discharges (Y)	--	--	X	X	X
Benthic Macroinvertebrates	Municipal Point Source Discharges (Y)	X	--	--	--	--
Dissolved Oxygen	Municipal Point Source Discharges (Y)	X	--	--	--	--
Enterococcus	Source Unknown (N)	--	--	--	X	--
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X
Fecal Coliform	Municipal Point Source Discharges (Y)	--	--	--	X	--
Nutrient/Eutrophication Biological Indicators	Municipal Point Source Discharges (Y)	X	--	--	--	--
Odor	Municipal Point Source Discharges (Y)	--	--	X	X	X
Phosphorus, Total	Municipal Point Source Discharges (Y)	X	--	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Enterococcus	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Final Pathogen TMDL for the Taunton River Watershed (Report CN 256.0, approved 6/16/2011, ATTAINS Action ID: 40308)

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary

Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Matfield River (MA62-32) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics use for Matfield River (MA62-32) continues to be assessed as Not Supporting with the Algae and Odor impairments being carried forward, based on observations of dense film algae and effluent odors by MassDEP staff during the summers of 2015 and 2019. The Alert for Total Phosphorus is being removed from the Aesthetics Use, but will continue to be maintained under the Aquatic Life Use (as an impairment). MassDEP staff recorded aesthetics observations at four stations along Matfield River during the summer of 2015 as part of the Bacteria Source Tracking (BST) project) and at one station during the summer of 2019 for selected monitoring. The site descriptions from upstream to downstream are as follows: close to the upstream end of the AU at North Central Street, East Bridgewater (W2575, n=2 in 2015), a little further downstream at West Union Street, East Bridgewater (W1500, n=2 in 2015), still in the upstream half of the AU at Spring Street, East Bridgewater (W2573, n=3 in 2015), halfway down at Rt. 106, East Bridgewater (W2571, n=3 in 2015) and close to the downstream end of the AU at High Street bridge, Bridgewater (W1501, n=8 in 2019). While there were generally no persistent objectionable deposits or turbidity recorded at any of the stations, MassDEP staff noted observations of dense film algae once at West Union St. (W1500) and once at North Central St. (W2575) and also effluent odors on numerous occasions at most stations (W2575 n=2, W1500 n=2, W2573 n=2, W1501, n=5).

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1500	MassDEP	Water Quality	Matfield River	[West Union Street, East Bridgewater]	42.031089	-70.970658
W1501	MassDEP	Water Quality	Matfield River	[High Street bridge, Bridgewater]	41.999373	-70.937685
W2571	MassDEP	Water Quality	Matfield River	[Route 106, East Bridgewater]	42.015516	-70.961165
W2573	MassDEP	Water Quality	Matfield River	[Spring Street, East Bridgewater]	42.026371	-70.967307
W2575	MassDEP	Water Quality	Matfield River	[North Central Street, East Bridgewater]	42.033504	-70.972553

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W1500	2015	2	Aesthetic observations were made by MassDEP field sampling crews at Station W1500 on Matfield River (MA62-32) during 2 site visits between Aug 2015 and Sep 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted effluent odor (n=2). However, aesthetic observations are limited (n<3).
W1501	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W1501 on Matfield River (MA62-32) during 8 site visits between May 2019 and Sep 2019. There were some objectionable conditions recorded, including effluent odor (n=5). Field staff also noted objectionable deposits (n=4). These conditions are indicative of an Alert status.
W2571	2015	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2571 on Matfield River (MA62-32) during 3 site visits between Jul 2015 and Sep 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2573	2015	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2573 on Matfield River (MA62-32) during 3 site visits between Jul 2015 and Sep 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted effluent odor (n=2).
W2575	2015	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2575 on Matfield River (MA62-32) during 2 site visits between Aug 2015 and Sep 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted effluent odor (n=2). However, aesthetic observations are limited (n<3).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W1500	2015	2	2	1
W1501	2019	8	6	0
W2571	2015	3	3	0
W2573	2015	3	3	0
W2575	2015	2	2	1

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1500	Matfield River	2015	Aquatic Plant Density, Overall	Sparse	2	2
W1500	Matfield River	2015	Color	None	2	2
W1500	Matfield River	2015	Odor	Effluent (Treated)	2	2

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1500	Matfield River	2015	Periphyton Density, Filamentous	Sparse	2	2
W1500	Matfield River	2015	Periphyton Density, Film	Moderate	1	2
W1500	Matfield River	2015	Periphyton Density, Film	Very Dense	1	2
W1500	Matfield River	2015	Turbidity	None	1	2
W1500	Matfield River	2015	Turbidity	Slightly Turbid	1	2
W1501	Matfield River	2019	Aesthetics Impaired?	No	8	8
W1501	Matfield River	2019	Aquatic Plant Density, Overall	None	6	8
W1501	Matfield River	2019	Aquatic Plant Density, Overall	Unobservable	2	8
W1501	Matfield River	2019	Color	Light Yellow/Tan	6	8
W1501	Matfield River	2019	Color	None	1	8
W1501	Matfield River	2019	Color	Reddish	1	8
W1501	Matfield River	2019	Objectionable Deposits	No	4	8
W1501	Matfield River	2019	Objectionable Deposits	Yes	4	8
W1501	Matfield River	2019	Odor	Effluent (Treated)	5	8
W1501	Matfield River	2019	Odor	None	3	8
W1501	Matfield River	2019	Periphyton Density, Filamentous	None	6	8
W1501	Matfield River	2019	Periphyton Density, Filamentous	Unobservable	2	8
W1501	Matfield River	2019	Periphyton Density, Film	None	6	8
W1501	Matfield River	2019	Periphyton Density, Film	Unobservable	2	8
W1501	Matfield River	2019	Scum	No	6	8
W1501	Matfield River	2019	Scum	Yes	2	8
W1501	Matfield River	2019	Turbidity	None	4	8
W1501	Matfield River	2019	Turbidity	Slightly Turbid	4	8
W2571	Matfield River	2015	Aquatic Plant Density, Overall	Moderate	1	3
W2571	Matfield River	2015	Aquatic Plant Density, Overall	Sparse	2	3
W2571	Matfield River	2015	Color	None	3	3
W2571	Matfield River	2015	Odor	None	3	3
W2571	Matfield River	2015	Periphyton Density, Filamentous	None	2	3
W2571	Matfield River	2015	Periphyton Density, Filamentous	Sparse	1	3
W2571	Matfield River	2015	Periphyton Density, Film	Sparse	3	3
W2571	Matfield River	2015	Turbidity	Moderately Turbid	1	3
W2571	Matfield River	2015	Turbidity	Slightly Turbid	2	3
W2573	Matfield River	2015	Aquatic Plant Density, Overall	Sparse	3	3
W2573	Matfield River	2015	Color	None	3	3

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2573	Matfield River	2015	Odor	Effluent (Treated)	2	3
W2573	Matfield River	2015	Odor	None	1	3
W2573	Matfield River	2015	Periphyton Density, Filamentous	None	3	3
W2573	Matfield River	2015	Periphyton Density, Film	Moderate	1	3
W2573	Matfield River	2015	Periphyton Density, Film	Sparse	2	3
W2573	Matfield River	2015	Turbidity	Moderately Turbid	2	3
W2573	Matfield River	2015	Turbidity	Slightly Turbid	1	3
W2575	Matfield River	2015	Aquatic Plant Density, Overall	Moderate	2	2
W2575	Matfield River	2015	Color	None	2	2
W2575	Matfield River	2015	Odor	Effluent (Treated)	2	2
W2575	Matfield River	2015	Periphyton Density, Filamentous	Sparse	2	2
W2575	Matfield River	2015	Periphyton Density, Film	Moderate	1	2
W2575	Matfield River	2015	Periphyton Density, Film	Very Dense	1	2
W2575	Matfield River	2015	Turbidity	Moderately Turbid	1	2
W2575	Matfield River	2015	Turbidity	Slightly Turbid	1	2

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	

The Primary Contact Recreation Use for the Matfield River (MA62-32) continues to be assessed as Not Supporting. The prior *Enterococcus* impairment is being carried forward based on bacteria data exceeding thresholds at one station in 2019, and the *Escherichia coli* (*E. coli*) impairment is being carried forward based on bacteria data exceeding thresholds at two stations in 2015 and one station in 2019. The prior Fecal Coliform impairment is also being carried forward and the prior Algae and Odor impairments (from the Aesthetics Use) are being carried forward. Since the Total Phosphorus Alert was removed from the Aesthetics Use, it is also being removed from the Primary Contact Recreation Use. MassDEP and Taunton River Watershed Alliance (TRWA) staff/volunteers collected *E. coli* (EC) and *Enterococcus* (Ent) bacteria samples in the Matfield River in 2015 & 2019 at six stations. Samples were collected from the following stations/sample years from upstream to downstream: close to the upstream end at W2575 [N Central St, E Bridgewater] in 2015 (EC n=2), a little further downstream at W1500 [West Union St, East Bridgewater] in 2015 (EC n=2), still in the upstream half of the AU at W2573 [Spring St, East Bridgewater] in 2015 (EC n=3), halfway down the AU at W2571 [Rt. 106, East Bridgewater] in 2015 (EC n=3), then finally close to the downstream end of the AU at W1501 [High St bridge, Bridgewater] in 2019 (EC n=6) and TRWA_MAT-01 [High St., Bridgewater] in 2019 (EC n=6). For the two stations at the upstream end of the AU (W2575 & W1500) the available *E. coli* data are too limited to assess the Primary Contact Recreation Use according to the 2024 CALM. Analysis of the single year limited frequency *E. coli* dataset from the remaining three MassDEP stations indicated 100% of intervals had GMs >126 CFU/100ml in every case and the seasonal GM's ranged from 155-345 CFU/100ml. Analysis of the single year limited frequency *Enterococcus* dataset from TRWA_MAT-01 indicated 100% of intervals had GMs >35 CFU/100ml, 2 samples exceeded the 130 CFU/100ml STV (with a maximum of 1,540 CFU), and the seasonal GM was 143 CFU/100ml. The *E. coli* data from W2573, W2571, and W1501 and *Enterococcus* data from TRWA_MAT-01 are indicative of *E. coli* and *Enterococcus* impairments.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1500	MassDEP	Water Quality	Matfield River	[West Union Street, East Bridgewater]	42.031089	-70.970658
W1501	MassDEP	Water Quality	Matfield River	[High Street bridge, Bridgewater]	41.999373	-70.937685
W2571	MassDEP	Water Quality	Matfield River	[Route 106, East Bridgewater]	42.015516	-70.961165
W2573	MassDEP	Water Quality	Matfield River	[Spring Street, East Bridgewater]	42.026371	-70.967307
W2575	MassDEP	Water Quality	Matfield River	[North Central Street, East Bridgewater]	42.033504	-70.972553
TRWA_MAT-01	Taunton River Watershed Alliance	Water Quality	Matfield River	Matfield R., Br, High St., Bridgewater	41.999439	-70.937804

Bacteria Data

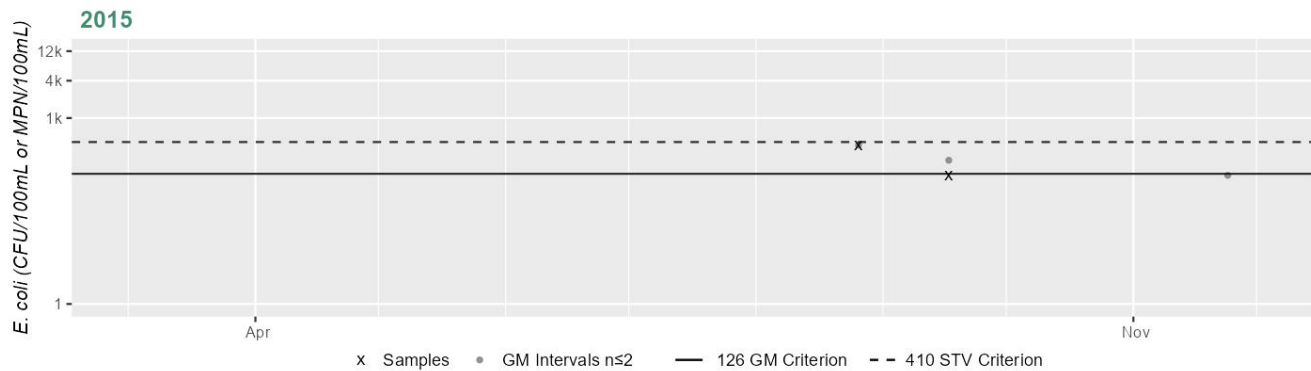
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (MassDEP Undated 9) (MassDEP Undated 5) (TRWA 2020) (MassDEP Undated 3)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1500	MassDEP	E. coli	08/26/15	09/17/15	2	119	365	208
W1501	MassDEP	E. coli	06/06/19	08/22/19	6	93	770	288
W2571	MassDEP	E. coli	07/22/15	09/17/15	3	86	435	155
W2573	MassDEP	E. coli	07/22/15	09/17/15	3	126	1200	345
W2575	MassDEP	E. coli	08/26/15	09/17/15	2	199	345	262
TRWA_MAT-01	Taunton River Watershed Association	Enterococci	05/14/19	10/08/19	6	50	1540	143

Station MASSDEP_W1500 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	208
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

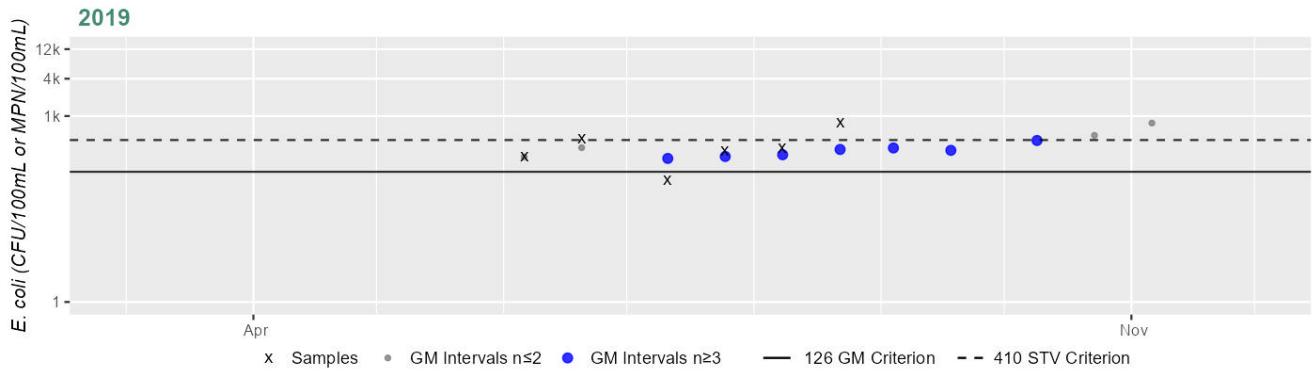
Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1501 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



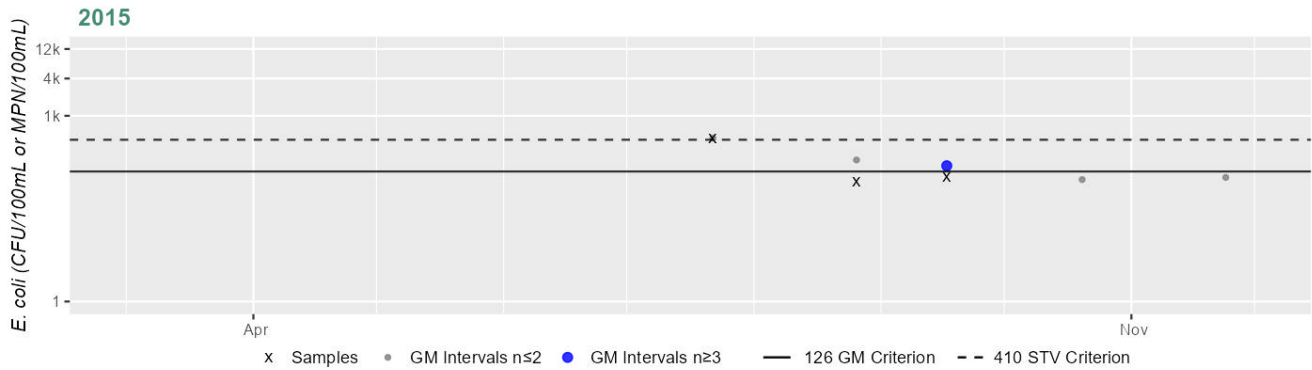
Variable*	Result
Samples	6
SeasGM	288
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	2
%n>STV	33%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2571 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



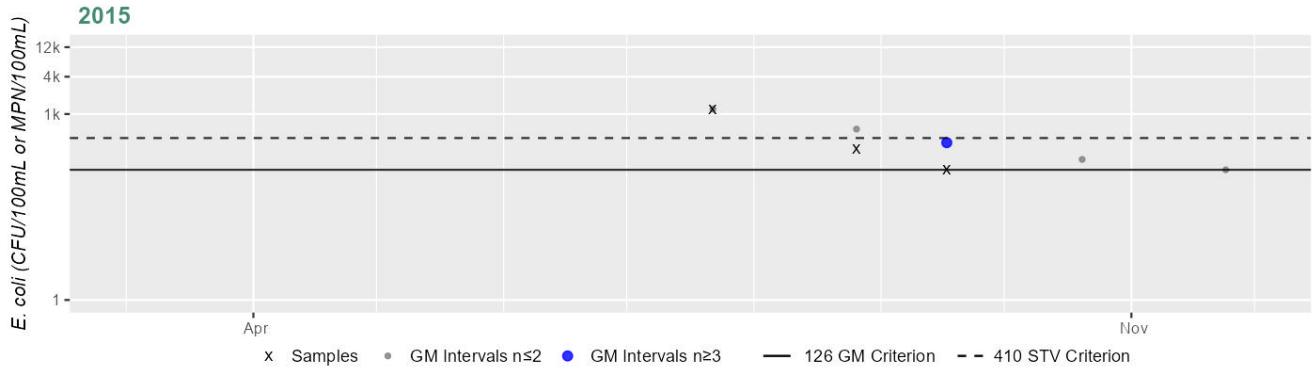
Variable*	Result
Samples	3
SeasGM	155
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	1
%n>STV	33%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2573 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



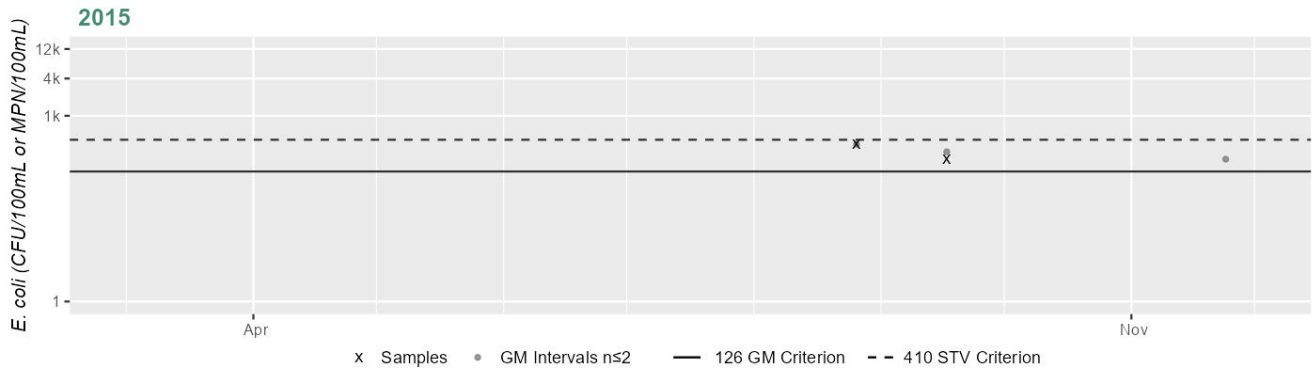
Variable*	Result
Samples	3
SeasGM	345
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	1
%n>STV	33%

Cumulative %GMI Exceedance
Current (2011-2022)
 100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2575 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



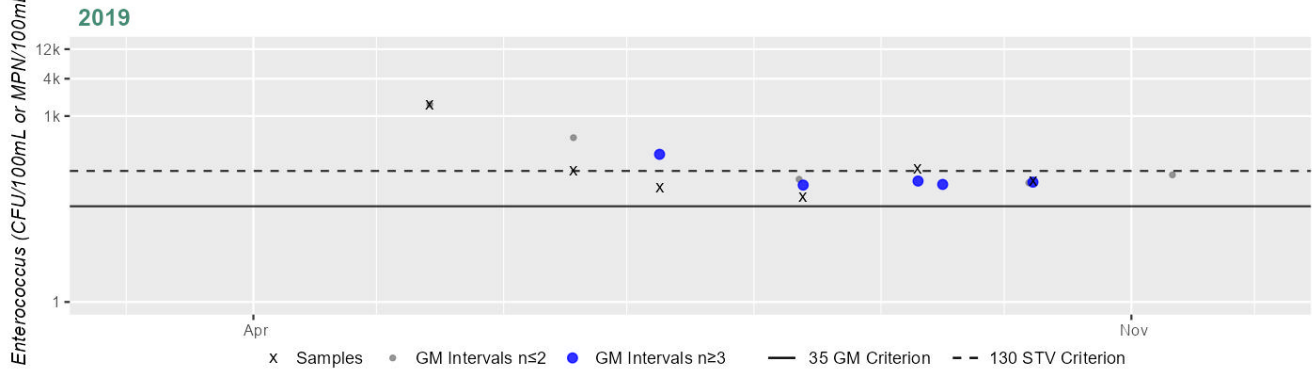
Variable*	Result
Samples	2
SeasGM	262
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station TRWA_MAT-01 - Enterococcus

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	143
#GMI	5
#GMI Ex	5
%GMI Ex	100%
n>STV	2
%n>STV	33%

Cumulative %GMI Exceedance

Current (2011-2022)

100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	

The Secondary Contact Recreation Use for the Matfield River (MA62-32) continues to be assessed as Not Supporting. The prior Algae and Odor impairments (from the Aesthetics Use) are being carried forward. An *Escherichia coli* (*E. coli*) impairment is being added based on a re-evaluation of bacteria data exceeding thresholds at station W2573. Since the Total Phosphorus Alert was removed from the Aesthetics Use, it is also being removed from the Secondary Contact Recreation Use. MassDEP staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the Matfield River from 2006-2019 at five stations. Samples were collected from the following stations/sample years from upstream to downstream: close to the upstream end at W2575 [North Central St, East Bridgewater] from Aug-Sep 2015 (n=2), a little further downstream at W1500 [West Union St, East Bridgewater] from May-Oct 2006 (historic n=4) and Aug-Sep 2015 (current n=2), still in the upstream half of the AU at W2573 [Spring St, East Bridgewater] from Jul-Sep 2015 (n=3), halfway down the AU at W2571 [Rt. 106, East Bridgewater] from Jul-Sep 2015 (n=3), and close to the downstream end of the AU at W1501 [High St bridge, Bridgewater] from May-Oct 2006 (historic n=4) and Jun-Aug 2019 (current n=6). For the two stations at the upstream end of the AU (W2575 & W1500) the available *E. coli* data are too limited to assess the Secondary Contact Recreation Use according to the 2024 CALM; however, the available data at the rest of the stations are sufficient. Analysis of the single year limited frequency *E. coli* dataset from W2573 indicated 100% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV (maximum 1,200 CFU), and the overall GM was 345 CFU/100ml. Analysis of the single year limited frequency *E. coli* dataset from W2571 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 155 CFU/100ml; and while analysis of the single year limited frequency *E. coli* dataset from W1501 indicated 57% of intervals had GMs >244 CFU/100ml and the overall GM was 288 CFU/100ml, no samples exceeded the STV threshold. While *E. coli* data from W2571 and W1501 were indicative of generally good water quality conditions, the bacteria data from W2573 are indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1500	MassDEP	Water Quality	Matfield River	[West Union Street, East Bridgewater]	42.031089	-70.970658
W1501	MassDEP	Water Quality	Matfield River	[High Street bridge, Bridgewater]	41.999373	-70.937685
W2571	MassDEP	Water Quality	Matfield River	[Route 106, East Bridgewater]	42.015516	-70.961165
W2573	MassDEP	Water Quality	Matfield River	[Spring Street, East Bridgewater]	42.026371	-70.967307
W2575	MassDEP	Water Quality	Matfield River	[North Central Street, East Bridgewater]	42.033504	-70.972553

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

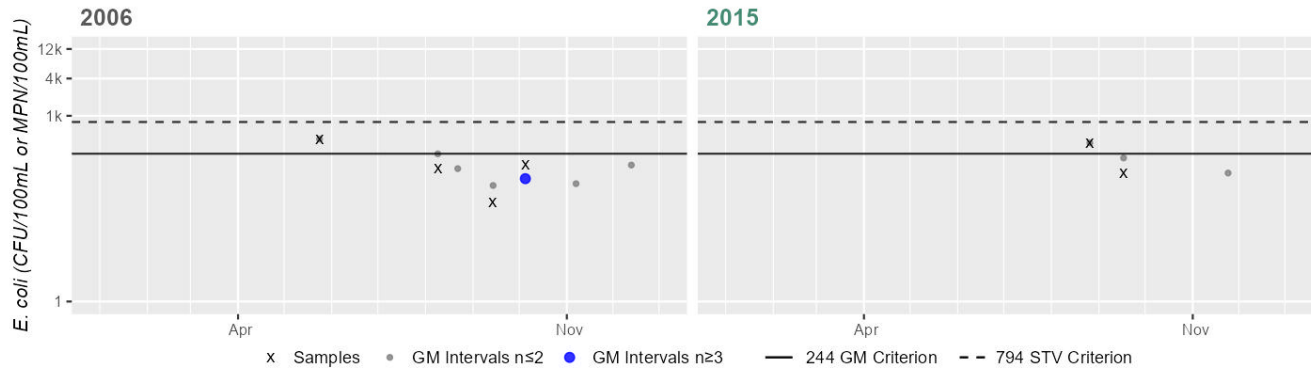
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1500	MassDEP	E. coli	05/24/06	10/05/06	4	40	420	139
W1500	MassDEP	E. coli	08/26/15	09/17/15	2	119	365	208
W1501	MassDEP	E. coli	05/24/06	10/05/06	4	25	640	157
W1501	MassDEP	E. coli	06/06/19	08/22/19	6	93	770	288
W2571	MassDEP	E. coli	07/22/15	09/17/15	3	86	435	155
W2573	MassDEP	E. coli	07/22/15	09/17/15	3	126	1200	345
W2575	MassDEP	E. coli	08/26/15	09/17/15	2	199	345	262

Station MASSDEP_W1500 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	139
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

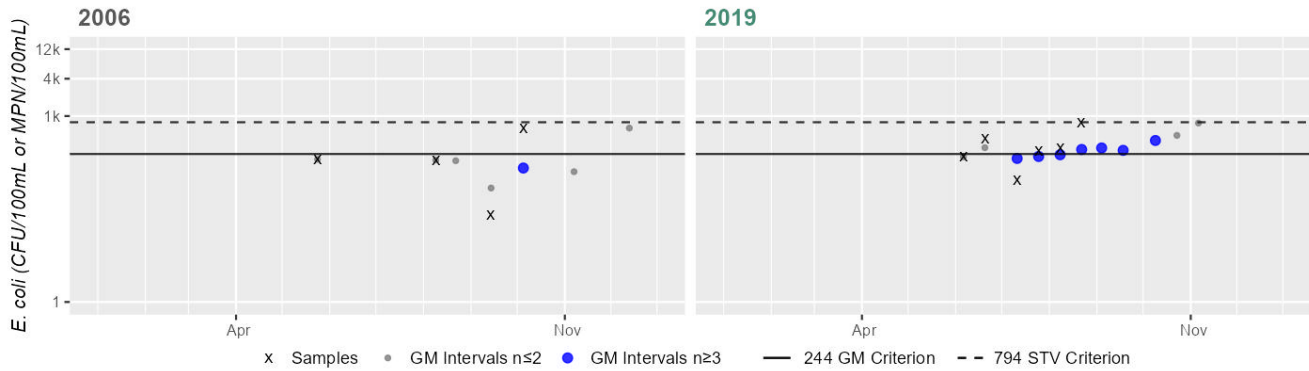
Variable*	Result
Samples	2
SeasGM	208
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
Recent 5 Years may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1501 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	157
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	288
#GMI	7
#GMI Ex	4
%GMI Ex	57%
n>STV	0
%n>STV	0%

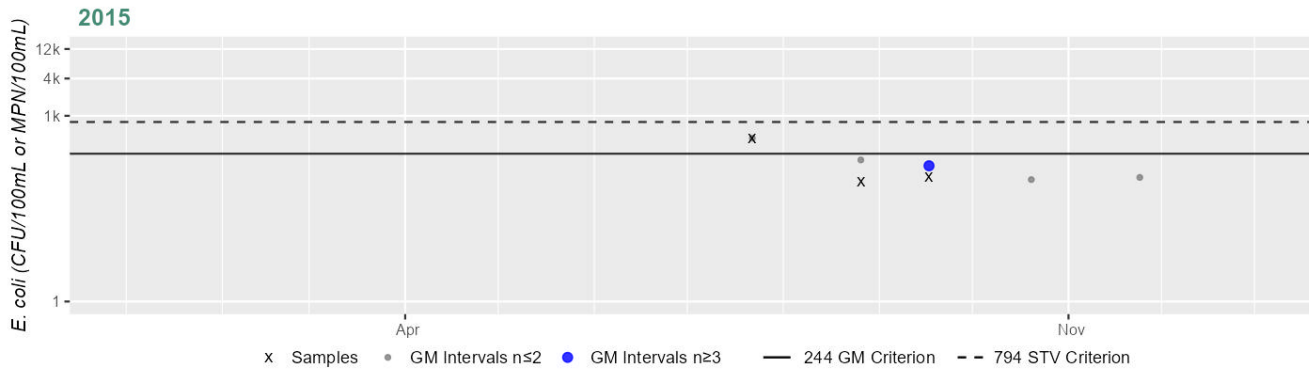
Cumulative %GMI Exceedance
Historic (1997-2010)
0%

Cumulative %GMI Exceedance
Current (2011-2022)
57%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2571 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



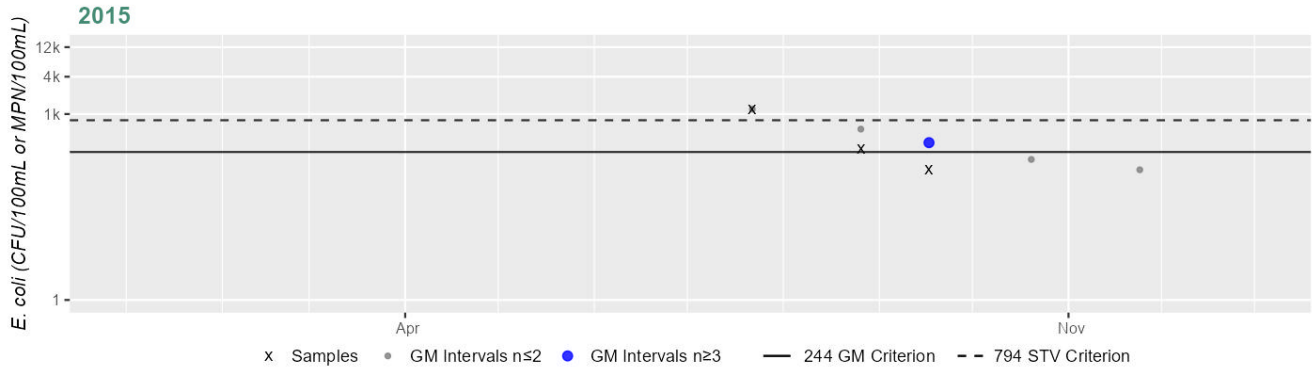
Variable*	Result
Samples	3
SeasGM	155
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2573 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



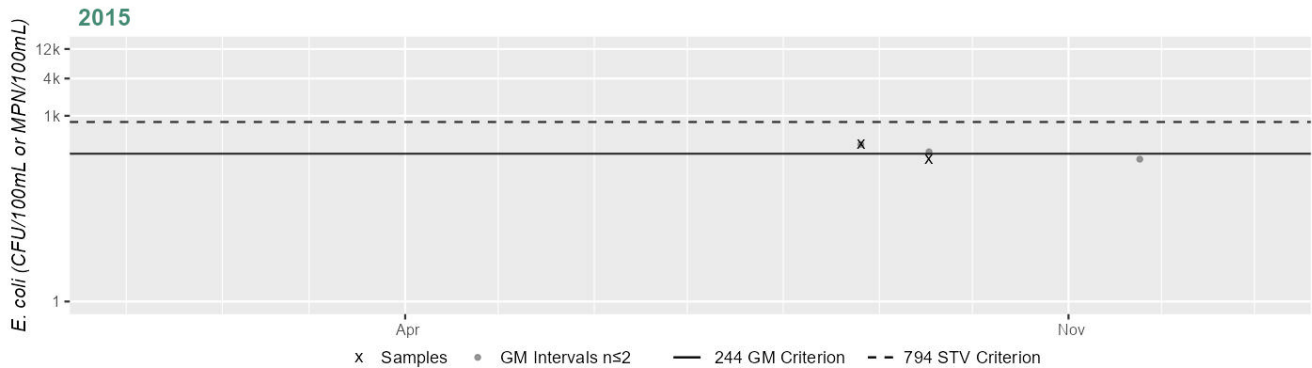
Variable*	Result
Samples	3
SeasGM	345
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	1
%n>STV	33%

Cumulative %GMI Exceedance
Current (2011-2022)
 100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2575 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	262
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

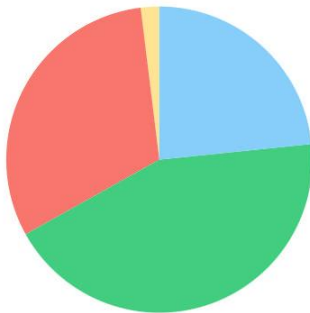
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Meadow Brook (MA62-38)

Location:	Headwaters north of Pine Street, Whitman (through Forge Pond, East Bridgewater) to the confluence with the Matfield River, East Bridgewater.
AU Type:	RIVER
AU Size:	6 MILES
Classification/Qualifier:	B

Meadow Brook (MA62-38)

Watershed Area: 7.53 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	7.53	4.49	2.29	1.27
Agriculture	1.9%	3.1%	1.1%	1.8%
Developed	31.2%	25.3%	21.1%	17.3%
Natural	43.5%	46.5%	36%	38%
Wetland	23.4%	25.1%	41.8%	42.9%
Impervious	15.6%	11.4%	10.7%	8.5%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	(Fish Passage Barrier*)	--	Unchanged
4a	4a	Escherichia Coli (E. Coli)	40308	Unchanged
4a	4a	Fecal Coliform	40308	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--
Escherichia Coli (E. Coli)	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	--
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	--
Fecal Coliform	Source Unknown (N)	--	--	--	X	--

Recommendations

2024/26 Recommendations

2024/26 [Bacteria, Medium] Conduct high frequency additional bacteria sampling/analysis on Meadow Brook (MA62-38) including at station {W1498} to better evaluate the extent of the impairment for *E. coli*. An Alert was identified on the Secondary Contact Recreation Use for *E. coli* based on the data collected at {W1498} in 2006 & 2019. This is a medium priority;

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary

Fish toxics sampling has not been conducted, so the Fish Consumption Use for Meadow Brook (MA62-38) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for this Meadow Brook AU (MA62-38) is assessed as Fully Supporting based on the general lack of objectionable conditions noted by MassDEP staff during the summer of 2019. MassDEP staff recorded aesthetics observations at one station close to the downstream end of this Meadow Brook AU at West Union Street bridge, East Bridgewater (W1498) for selected monitoring during the summer of 2019 (n=8). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted light trash on two occasions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1498	MassDEP	Water Quality	Meadow Brook	[West Union Street bridge, East Bridgewater]	42.031489	-70.966562

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W1498	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W1498 on Meadow Brook (MA62-38) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted objectionable deposits (n=2).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W1498	2019	8	8	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1498	Meadow Brook	2019	Aesthetics Impaired?	No	8	8
W1498	Meadow Brook	2019	Aquatic Plant Density, Overall	None	4	8
W1498	Meadow Brook	2019	Aquatic Plant Density, Overall	Sparse	4	8
W1498	Meadow Brook	2019	Color	Brownish	1	8
W1498	Meadow Brook	2019	Color	Light Yellow/Tan	6	8
W1498	Meadow Brook	2019	Color	None	1	8
W1498	Meadow Brook	2019	Objectionable Deposits	No	6	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1498	Meadow Brook	2019	Objectionable Deposits	Yes	2	8
W1498	Meadow Brook	2019	Odor	Effluent (Treated)	1	8
W1498	Meadow Brook	2019	Odor	Musty (Basement)	1	8
W1498	Meadow Brook	2019	Odor	None	6	8
W1498	Meadow Brook	2019	Periphyton Density, Filamentous	None	6	8
W1498	Meadow Brook	2019	Periphyton Density, Filamentous	Sparse	2	8
W1498	Meadow Brook	2019	Periphyton Density, Film	None	7	8
W1498	Meadow Brook	2019	Periphyton Density, Film	Sparse	1	8
W1498	Meadow Brook	2019	Scum	No	8	8
W1498	Meadow Brook	2019	Turbidity	None	4	8
W1498	Meadow Brook	2019	Turbidity	Slightly Turbid	4	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for Meadow Brook (MA62-38) continues to be assessed as Not Supporting. The prior <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being carried forward based on bacteria data collected at the West Union Street bridge in 2019. The prior Fecal Coliform impairment is also being carried forward. MassDEP staff collected <i>E. coli</i> bacteria samples close to the downstream end of Meadow Brook at W1498 [West Union St bridge, East Bridgewater] from Jun-Aug 2019 (n=6). Analysis of the single year limited frequency <i>E. coli</i> dataset from W1498 indicated 100% of intervals had GMs >126 CFU/100ml, 2 samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 271 CFU/100ml. These data are indicative of an <i>E. coli</i> impairment. Prior to 2011 source tracking work was conducted on Meadow Brook as part of the MassDEP Bacteria Source Tracking (BST) Project; at that time a maximum dry weather <i>E. coli</i> concentration of 500 MPN was found at Harvard St. Additionally, a significant source of bacteria was identified in the form of a stormwater outfall pipe under the West Union St bridge, with a maximum <i>E. coli</i> concentration of >241,960 MPN observed in 2010. The Town of East Bridgewater had previously identified an illicitly connected cesspool (from Pearl Street) but this issue was corrected in 2008. Additional BST work conducted from 2011-2013 focused on the outfall pipe, with intermittently elevated <i>E. coli</i> concentrations still noted. The town identified another illicit cross connection to a nearby catch basin, which was corrected in 2013. Post-correction follow up samples at the pipe indicated improved bacteria concentrations (a maximum concentration of 2 MPN) and a concentration of 108 MPN was reported in the brook downstream of the West Union St bridge.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1498	MassDEP	Water Quality	Meadow Brook	[West Union Street bridge, East Bridgewater]	42.031489	-70.966562

Bacteria Data

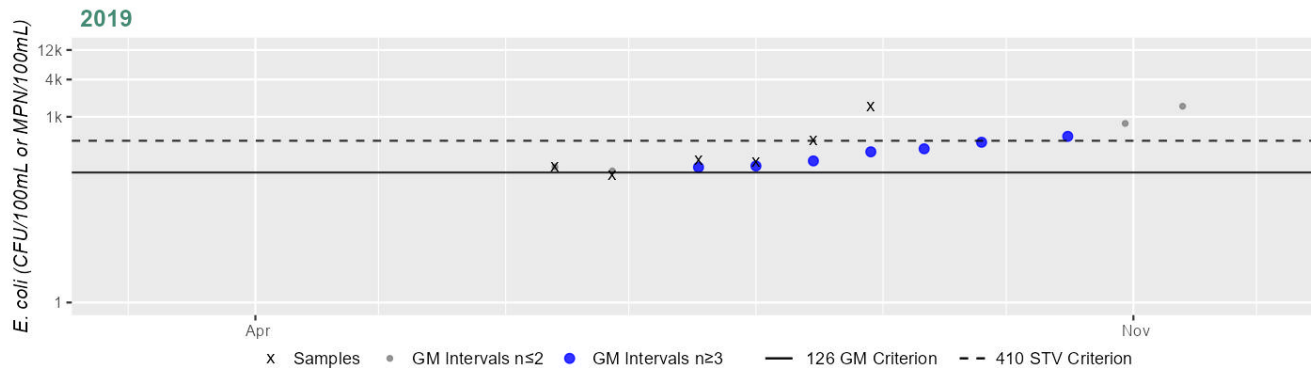
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1498	MassDEP	E. coli	06/13/19	08/29/19	6	115	1480	271

Station MASSDEP_W1498 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	271
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	2
%n>STV	33%

Cumulative %GMI Exceedance

Current (2011-2022)

100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Summary Statement for 2011-2019 MassDEP Bacteria Source Tracking (BST) Data (MassDEP Undated 1)

Summary
<p>Prior to 2011, BST work was conducted on the Meadow Brook AU (MA62-38), with a max dry weather <i>E. coli</i> concentration of 500MPN at MB02 (Harvard St). Additionally, a significant source of bacteria was identified in the form of a stormwater outfall pipe under the West Union St bridge, with a max <i>E. coli</i> concentration of >241,960MPN observed in 2010. The Town of East Bridgewater identified an illicitly connected cess pool (from Pearl Street) and the issue was corrected in 2008. Additional BST work was conducted from 2011-2013 focused on the outfall pipe, with intermittently elevated <i>E. coli</i> concentrations still noted. Eventually the town identified another illicit cross connection to a nearby catch basin, which was corrected in 2013. Post-correction follow up samples at the pipe indicated improved bacteria concentrations, with a max of 2MPN and a concentration of 108MPN in the brook downstream of the bridge.</p>

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for Meadow Brook (MA62-38) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data collected at the West Union St bridge in 2019; however, an Alert is being identified for <i>Escherichia coli</i> (<i>E. coli</i>) based on some of the data collected at this station. MassDEP staff collected <i>E. coli</i> bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) close to the downstream end of Meadow Brook at W1498 [West Union St bridge, East Bridgewater] from May-Oct 2006 (historic n=4) and Jun-Aug 2019 (current n=6). Analysis of the single year limited frequency <i>E. coli</i> dataset from this station (in the current IR window) indicated 57% of intervals had GMs >244 CFU/100ml, the overall GM was 271 CFU/100ml, but only 1 sample exceeded the 794 CFU/100ml STV (1,480 CFU). It should also be noted that 1 sample also exceeded the STV in 2006 (1,600 CFU). While the <i>E. coli</i> data collected in both the historic & the current IR window for Meadow Brook are generally not indicative of poor water quality conditions as per the 2024 CALM, an Alert is being identified for <i>E. coli</i> based on these data.</p> <p>Prior to 2011 source tracking work was conducted on Meadow Brook as part of the MassDEP Bacteria Source Tracking (BST) Project; at that time a maximum dry weather <i>E. coli</i> concentration of 500 MPN was found at Harvard St. Additionally, a significant source of bacteria was identified in the form of a stormwater outfall pipe under the West Union St bridge, with a maximum <i>E. coli</i> concentration of >241,960 MPN observed in 2010. The Town of East Bridgewater had previously identified an illicitly connected cesspool (from Pearl Street) but this issue was corrected in 2008. Additional BST work conducted from 2011-2013 focused on the outfall pipe, with intermittently elevated <i>E. coli</i> concentrations still noted. Eventually the town identified another illicit cross connection to a nearby catch basin, which was corrected in 2013. Post-correction follow up samples at the pipe indicated improved bacteria concentrations (a maximum concentration of 2 MPN) and a concentration of 108 MPN was reported in the brook downstream of the West Union St bridge.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1498	MassDEP	Water Quality	Meadow Brook	[West Union Street bridge, East Bridgewater]	42.031489	-70.966562

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

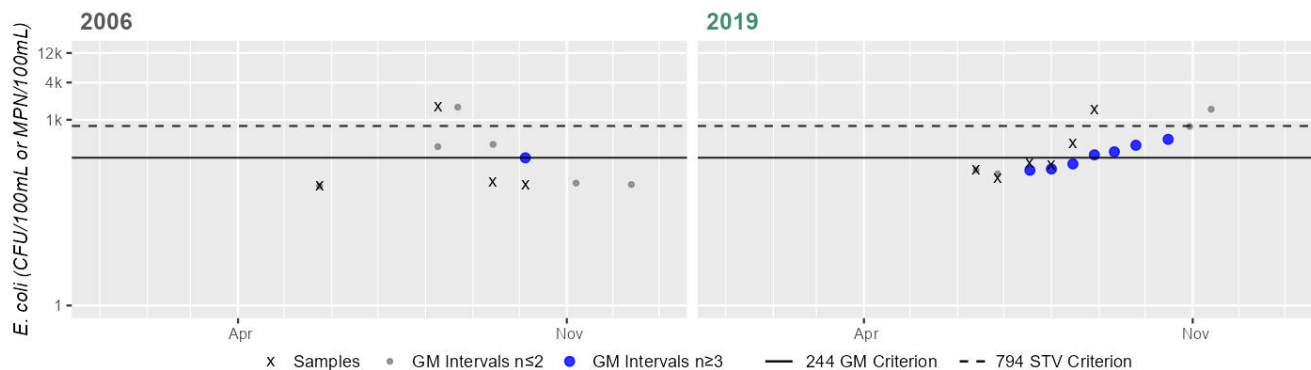
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1498	MassDEP	E. coli	05/24/06	10/05/06	4	85	1600	187
W1498	MassDEP	E. coli	06/13/19	08/29/19	6	115	1480	271

Station MASSDEP_W1498 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	187
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	25%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

Variable*	Result
Samples	6
SeasGM	271
#GMI	7
#GMI Ex	4
%GMI Ex	57%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
57%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Meadow Brook Pond (MA62113)

Location:	Norton.
AU Type:	FRESHWATER LAKE
AU Size:	13 ACRES
Classification/Qualifier:	B

No usable data were available for Meadow Brook Pond (MA62113) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Middle Pond (MA62115)

Location:	Taunton.
AU Type:	FRESHWATER LAKE
AU Size:	26 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
4c	4c	(Fanwort*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Eurasian Water Milfoil, Myriophyllum Spicatum*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for Middle Pond (MA62115) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Middle Pond (MA62115) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Middle Pond (MA62115) continues to be assessed as Fully Supporting. Middle Pond (MA62115) has a beach with MDPH Beach Closure data: Campers / Middle Pond (DCR) [Beach ID: 4906] beach in Taunton. This beach was rarely, if at all, posted for swimming from 2018-2022.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
4906	Campers Beach / Middle Pond (DCR)/ Taunton	41.86950, -70.98870	41.86878, -70.98810	0%	0%	0%	0%	0%	2%	0%	0%	0%	0

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

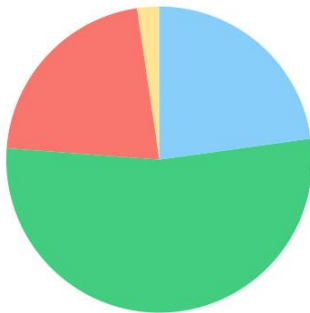
2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Middle Pond (MA62115) continues to be assessed as Fully Supporting. Middle Pond (MA62115) has a beach with MDPH Beach Closure data: Campers / Middle Pond (DCR) [Beach ID: 4906] beach in Taunton. This beach was rarely, if at all, posted for swimming from 2018-2022.

Mill River (MA62-29)

Location:	Headwaters, outlet Lake Sabbatia, Taunton to mouth at confluence with the Taunton River, Taunton (through former 2014 segment: Whittenton Impoundment MA62228).
AU Type:	RIVER
AU Size:	4.2 MILES
Classification/Qualifier:	B: WWF

Mill River (MA62-29)

Watershed Area: 43.66 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	43.66	3.01	15.61	0.70
Agriculture	2.3%	2.1%	2.8%	0.6%
Developed	21.5%	54.7%	14.2%	40.4%
Natural	53.4%	32.3%	52.2%	40.8%
Wetland	22.8%	10.9%	30.9%	18.2%
Impervious	10.5%	34%	6.7%	26.9%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Fanwort*)	--	Unchanged
5	5	Benthic Macroinvertebrates	--	Unchanged
5	5	Enterococcus	--	Unchanged
5	5	Escherichia Coli (E. Coli)	--	Unchanged
5	5	Temperature	--	Unchanged
5	5	Trash	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--
Enterococcus	Illicit Connections/Hook-ups to Storm Sewers (N)	--	--	--	X	--
Enterococcus	Source Unknown (N)	--	--	--	X	--
Escherichia Coli (E. Coli)	Illicit Connections/Hook-ups to Storm Sewers (N)	--	--	--	X	X
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X
Temperature	Dam or Impoundment (Y)	X	--	--	--	--
Temperature	Removal Of Riparian Vegetation (Y)	X	--	--	--	--
Trash	Source Unknown (N)	--	--	X	X	X

Recommendations

2024/26 Recommendations
<p>2024/26IR [Bacteria, Low] Additional high frequency sampling for bacteria should be conducted for Mill River (MA62-29) to capture improvements in water quality as the City of Taunton continues with their corrective actions. The MassDEP Bacteria Source Tracking project reported that during 2013-2018 the City of Taunton identified a number of illicit connections (i.e. a sanitary sewer for a building on Warren St, a storm drain pipe behind Hopewell Park & illicit connections to numerous storm drain pipes under the Weir St bridge). The City made extensive corrections (in 2011 & 2012) to sewer & drain lines all the way up Broadway & Washington St & investigated/made extensive corrections to the Weir St bridge sources. Overall, <i>E. coli</i> at the downstream end of the AU (Ingell Street Station) improved from a max of >2,419.6 MPN in 2008 to 512 MPN in 2018. Additional samples should be collected at Weir Street {W2578} and Ingell Street {W2914}. This is of low priority.</p>

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert

Not Assessed	No
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2024/26 Use Attainment Summary

Fish toxics sampling has not been conducted, so the Fish Consumption Use for Mill River (MA62-29) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Mill River (MA62-29) is assessed as Not Supporting based on the objectionable deposits of trash observed just downstream of Rt.44 (Winthrop St.) Taunton (W2372), in 2013 and 2019. An impairment for Trash is being added. MassDEP staff recorded aesthetics observations at 14 stations throughout this Mill River AU in Taunton, during the summer of 2013 as part of the MAP2 Probabilistic Wadable Streams monitoring project, during summers of 2014-2016, 2018 as part of the as part of the MassDEP Bacteria Source Tracking project, and during the summer of 2019 for selected monitoring. The site descriptions from upstream to downstream are as follows: about a quarter of the way down the AU at Whittenton St (W2481, n=3 in 2014), ~ 925ft downstream (south) of Whittenton St at the old railroad grade crossing (W2484, n=2 in 2014), at the eastern most crossing on West Britannia St (W2480, n=2 in 2014 and 2018), Danforth St. (W2476, n=4 in 2014, n=2 in 2016 and 2018), halfway down the AU west of Hamilton St. at the back of Hopewell Park (tennis court and pool) (W2475, n=3 in 2014), ~2800 ft upstream/north of Rt. 140 (Washington St.) (W2389, n=8 in 2013), ~1400 ft upstream (north) of the Rt. 140 crossing (at the site of the abandoned West Adams St crossing) (W2478, n=2 in 2014), Rt. 140 (Washington St.) (W2477, n=2 in 2014), ~220 ft downstream/southeast from Rt. 44 (Winthrop St) (W2372, n=8 in 2013 and n=8 in 2019), on the western most crossing at West Britannia St. (W2479, n=3 in 2014), Weir St. (Rt. 138) upstream of the bridge and raised sewer manhole structure (W2576, n=2 in 2015), ~90 ft downstream of Weir St. (Rt. 138) (W2578, n=2 in 2015, n=3 in 2018), Spring St. (W2915, n=3 in 2018), and the downstream end of the AU at Ingell St. (W2914, n=2 in 2018). There were generally no persistent odors, growths, or turbidity observed by MassDEP field sampling crews at any station during any of the surveys, though various amounts of trash (ranging from minor to abundant) was observed on a regular basis at station W2372 (~220 ft downstream from Winthrop St) in 2013 and 2019. MassDEP field staff raising an aesthetics flag on seven occasions in the summer of 2013 and twice in the summer of 2019 at this station (W2372) due to trash.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2372	MassDEP	Water Quality	Mill River	[approximately 220 feet downstream/southeast from Route 44 (Winthrop Street), Taunton]	41.900378	-71.093999

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2389	MassDEP	Water Quality	Mill River	[approximately 2800 feet upstream/north of Route 140 (Washington Street), Taunton]	41.909381	-71.098124
W2475	MassDEP	Water Quality	Mill River	[west of Hamilton Street at back of Hopewell Park (tennis court and pool), Taunton]	41.912373	-71.096167
W2476	MassDEP	Water Quality	Mill River	[Danforth Street, Taunton]	41.916773	-71.100772
W2477	MassDEP	Water Quality	Mill River	[Route 140 (Washington Street), Taunton]	41.903434	-71.097721
W2478	MassDEP	Water Quality	Mill River	[approximately 1400 feet upstream (north) of Route 140 crossing (at the site of the abandoned West Adams Street crossing), Taunton]	41.906631	-71.099730
W2479	MassDEP	Water Quality	Mill River	[the western most crossing at West Britannia Street, Taunton]	41.918798	-71.101752
W2480	MassDEP	Water Quality	Mill River	[the eastern most crossing at West Britannia Street, Taunton]	41.918803	-71.101059
W2481	MassDEP	Water Quality	Mill River	[Whittenton Street, Taunton]	41.923433	-71.106183
W2484	MassDEP	Water Quality	Mill River	[approximately 925 feet downstream (south) of Whittenton Street, at old railroad grade crossing, Taunton]	41.921806	-71.104869
W2576	MassDEP	Water Quality	Mill River	[Weir Street (Route 138), upstream of bridge and raised sewer manhole structure, Taunton]	41.900027	-71.092411
W2578	MassDEP	Water Quality	Mill River	[approximately 90 feet downstream of Weir Street (Route 138), Taunton]	41.900097	-71.091916
W2914	MassDEP	Water Quality	Mill River	[Ingell Street, Taunton]	41.896067	-71.082109
W2915	MassDEP	Water Quality	Mill River	[Spring Street, Taunton]	41.899632	-71.089864

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2372	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2372 on Mill River (MA62-29) during 8 site visits between May 2013 and Sep 2013. Field staff recorded the following objectionable conditions: an aesthetics impairment flag (n=7). Field staff also noted high turbidity (n=1) and objectionable deposits (n=8). These observations are indicative of an Aesthetics Use impairment.
W2372	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2372 on Mill River (MA62-29) during 8 site visits between May 2019 and Sep 2019. There were some objectionable conditions recorded, including an aesthetics impairment flag (n=2). Field staff also noted objectionable deposits (n=8) and abundant trash (n=1). These conditions are indicative of an Alert status.

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2389	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2389 on Mill River (MA62-29) during 8 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted objectionable deposits (n=5).
W2475	2014	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2475 on Mill River (MA62-29) during 3 site visits between Jul 2014 and Sep 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2476	2014	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2476 on Mill River (MA62-29) during 4 site visits between Aug 2014 and Sep 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2476	2016	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2476 on Mill River (MA62-29) during 2 site visits between Jun 2016 and Jul 2016. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2476	2018	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2476 on Mill River (MA62-29) during 2 site visits between Jul 2018 and Aug 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2477	2014	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2477 on Mill River (MA62-29) during 2 site visits between Jul 2014 and Aug 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2478	2014	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2478 on Mill River (MA62-29) during 2 site visits between Jul 2014 and Aug 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2479	2014	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2479 on Mill River (MA62-29) during 3 site visits in Sep 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2480	2014	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2480 on Mill River (MA62-29) during 2 site visits in Sep 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2480	2018	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2480 on Mill River (MA62-29) during 2 site visits between Jul 2018 and Aug 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2481	2014	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2481 on Mill River (MA62-29) during 3 site visits between Sep 2014 and Oct 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2484	2014	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2484 on Mill River (MA62-29) during 2 site visits between Sep 2014 and Oct 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2576	2015	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2576 on Mill River (MA62-29) during 2 site visits between Jul 2015 and Oct 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2578	2015	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2578 on Mill River (MA62-29) during 2 site visits between Jul 2015 and Oct 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2578	2018	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2578 on Mill River (MA62-29) during 3 site visits between Jul 2018 and Oct 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2914	2018	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2914 on Mill River (MA62-29) during 2 site visits between Jul 2018 and Oct 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2915	2018	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2915 on Mill River (MA62-29) during 3 site visits between Jul 2018 and Oct 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2372	2013	8	6	0
W2372	2019	8	7	1
W2389	2013	8	4	0
W2475	2014	3	3	0
W2476	2014	4	4	0
W2476	2016	2	1	0
W2476	2018	2	2	0
W2477	2014	2	2	0
W2478	2014	2	2	0
W2479	2014	3	3	0
W2480	2014	2	2	0
W2480	2018	2	2	0
W2481	2014	3	3	0
W2484	2014	2	2	0
W2576	2015	2	2	0

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2578	2015	2	2	0
W2578	2018	3	2	0
W2914	2018	2	1	0
W2915	2018	3	1	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2372	Mill River	2013	Aesthetics Impaired?	No	1	8
W2372	Mill River	2013	Aesthetics Impaired?	Yes	7	8
W2372	Mill River	2013	Aquatic Plant Density, Overall	None	7	8
W2372	Mill River	2013	Aquatic Plant Density, Overall	Unobservable	1	8
W2372	Mill River	2013	Color	Light Yellow/Tan	5	8
W2372	Mill River	2013	Color	Reddish	2	8
W2372	Mill River	2013	Color	Unobservable	1	8
W2372	Mill River	2013	Objectionable Deposits	Yes	8	8
W2372	Mill River	2013	Odor	None	7	8
W2372	Mill River	2013	Odor	Raw sewage	1	8
W2372	Mill River	2013	Periphyton Density, Filamentous	None	4	8
W2372	Mill River	2013	Periphyton Density, Filamentous	Sparse	2	8
W2372	Mill River	2013	Periphyton Density, Filamentous	Unobservable	2	8
W2372	Mill River	2013	Periphyton Density, Film	None	5	8
W2372	Mill River	2013	Periphyton Density, Film	Sparse	1	8
W2372	Mill River	2013	Periphyton Density, Film	Unobservable	2	8
W2372	Mill River	2013	Scum	No	7	8
W2372	Mill River	2013	Scum	Yes	1	8
W2372	Mill River	2013	Turbidity	Highly Turbid	1	8
W2372	Mill River	2013	Turbidity	None	4	8
W2372	Mill River	2013	Turbidity	Slightly Turbid	3	8
W2372	Mill River	2019	Aesthetics Impaired?	No	6	8
W2372	Mill River	2019	Aesthetics Impaired?	Yes	2	8
W2372	Mill River	2019	Aquatic Plant Density, Overall	None	6	8
W2372	Mill River	2019	Aquatic Plant Density, Overall	Sparse	1	8
W2372	Mill River	2019	Aquatic Plant Density, Overall	Unobservable	1	8
W2372	Mill River	2019	Color	Brownish	1	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2372	Mill River	2019	Color	Light Yellow/Tan	6	8
W2372	Mill River	2019	Color	None	1	8
W2372	Mill River	2019	Objectionable Deposits	Yes	8	8
W2372	Mill River	2019	Odor	Musty (Basement)	1	8
W2372	Mill River	2019	Odor	None	7	8
W2372	Mill River	2019	Periphyton Density, Filamentous	Dense	1	8
W2372	Mill River	2019	Periphyton Density, Filamentous	None	3	8
W2372	Mill River	2019	Periphyton Density, Filamentous	Sparse	2	8
W2372	Mill River	2019	Periphyton Density, Filamentous	Unobservable	2	8
W2372	Mill River	2019	Periphyton Density, Film	None	2	8
W2372	Mill River	2019	Periphyton Density, Film	Sparse	5	8
W2372	Mill River	2019	Periphyton Density, Film	Unobservable	1	8
W2372	Mill River	2019	Scum	No	8	8
W2372	Mill River	2019	Turbidity	None	5	8
W2372	Mill River	2019	Turbidity	Slightly Turbid	3	8
W2389	Mill River	2013	Aesthetics Impaired?	No	5	8
W2389	Mill River	2013	Aesthetics Impaired?	NR	3	8
W2389	Mill River	2013	Aquatic Plant Density, Overall	None	4	8
W2389	Mill River	2013	Aquatic Plant Density, Overall	Sparse	1	8
W2389	Mill River	2013	Aquatic Plant Density, Overall	Unobservable	3	8
W2389	Mill River	2013	Color	Light Yellow/Tan	7	8
W2389	Mill River	2013	Color	NR	1	8
W2389	Mill River	2013	Objectionable Deposits	No	2	8
W2389	Mill River	2013	Objectionable Deposits	Unobservable	1	8
W2389	Mill River	2013	Objectionable Deposits	Yes	5	8
W2389	Mill River	2013	Odor	None	8	8
W2389	Mill River	2013	Periphyton Density, Filamentous	None	3	8
W2389	Mill River	2013	Periphyton Density, Filamentous	NR	1	8
W2389	Mill River	2013	Periphyton Density, Filamentous	Sparse	1	8
W2389	Mill River	2013	Periphyton Density, Filamentous	Unobservable	3	8
W2389	Mill River	2013	Periphyton Density, Film	None	3	8
W2389	Mill River	2013	Periphyton Density, Film	NR	1	8
W2389	Mill River	2013	Periphyton Density, Film	Sparse	1	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2389	Mill River	2013	Periphyton Density, Film	Unobservable	3	8
W2389	Mill River	2013	Scum	No	7	8
W2389	Mill River	2013	Scum	Unobservable	1	8
W2389	Mill River	2013	Turbidity	Moderately Turbid	1	8
W2389	Mill River	2013	Turbidity	None	5	8
W2389	Mill River	2013	Turbidity	Slightly Turbid	2	8
W2475	Mill River	2014	Aquatic Plant Density, Overall	None	2	3
W2475	Mill River	2014	Aquatic Plant Density, Overall	Sparse	1	3
W2475	Mill River	2014	Color	None	3	3
W2475	Mill River	2014	Odor	None	3	3
W2475	Mill River	2014	Periphyton Density, Filamentous	None	3	3
W2475	Mill River	2014	Periphyton Density, Film	Moderate	1	3
W2475	Mill River	2014	Periphyton Density, Film	Sparse	2	3
W2475	Mill River	2014	Turbidity	Slightly Turbid	3	3
W2476	Mill River	2014	Aquatic Plant Density, Overall	None	2	4
W2476	Mill River	2014	Aquatic Plant Density, Overall	Sparse	2	4
W2476	Mill River	2014	Color	None	4	4
W2476	Mill River	2014	Odor	None	4	4
W2476	Mill River	2014	Periphyton Density, Filamentous	None	4	4
W2476	Mill River	2014	Periphyton Density, Film	Moderate	2	4
W2476	Mill River	2014	Periphyton Density, Film	Sparse	2	4
W2476	Mill River	2014	Turbidity	Moderately Turbid	1	4
W2476	Mill River	2014	Turbidity	Slightly Turbid	3	4
W2476	Mill River	2016	Aquatic Plant Density, Overall	Sparse	1	2
W2476	Mill River	2016	Aquatic Plant Density, Overall	Unobservable	1	2
W2476	Mill River	2016	Color	None	2	2
W2476	Mill River	2016	Odor	None	2	2
W2476	Mill River	2016	Periphyton Density, Filamentous	None	1	2
W2476	Mill River	2016	Periphyton Density, Filamentous	Unobservable	1	2
W2476	Mill River	2016	Periphyton Density, Film	Sparse	1	2
W2476	Mill River	2016	Periphyton Density, Film	Unobservable	1	2
W2476	Mill River	2016	Turbidity	Moderately Turbid	2	2
W2476	Mill River	2018	Aquatic Plant Density, Overall	None	2	2

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2476	Mill River	2018	Color	Light Yellow/Tan	1	2
W2476	Mill River	2018	Color	None	1	2
W2476	Mill River	2018	Odor	None	2	2
W2476	Mill River	2018	Periphyton Density, Filamentous	None	2	2
W2476	Mill River	2018	Periphyton Density, Film	Sparse	2	2
W2476	Mill River	2018	Turbidity	Slightly Turbid	2	2
W2477	Mill River	2014	Aquatic Plant Density, Overall	None	1	2
W2477	Mill River	2014	Aquatic Plant Density, Overall	Sparse	1	2
W2477	Mill River	2014	Color	None	2	2
W2477	Mill River	2014	Odor	None	2	2
W2477	Mill River	2014	Periphyton Density, Filamentous	None	2	2
W2477	Mill River	2014	Periphyton Density, Film	Moderate	1	2
W2477	Mill River	2014	Periphyton Density, Film	Sparse	1	2
W2477	Mill River	2014	Turbidity	Moderately Turbid	2	2
W2478	Mill River	2014	Aquatic Plant Density, Overall	None	1	2
W2478	Mill River	2014	Aquatic Plant Density, Overall	Sparse	1	2
W2478	Mill River	2014	Color	None	2	2
W2478	Mill River	2014	Odor	None	2	2
W2478	Mill River	2014	Periphyton Density, Filamentous	None	2	2
W2478	Mill River	2014	Periphyton Density, Film	Sparse	2	2
W2478	Mill River	2014	Turbidity	Moderately Turbid	1	2
W2478	Mill River	2014	Turbidity	Slightly Turbid	1	2
W2479	Mill River	2014	Aquatic Plant Density, Overall	Moderate	1	3
W2479	Mill River	2014	Aquatic Plant Density, Overall	Sparse	2	3
W2479	Mill River	2014	Color	None	3	3
W2479	Mill River	2014	Odor	None	3	3
W2479	Mill River	2014	Periphyton Density, Filamentous	None	2	3
W2479	Mill River	2014	Periphyton Density, Filamentous	Sparse	1	3
W2479	Mill River	2014	Periphyton Density, Film	Moderate	2	3
W2479	Mill River	2014	Periphyton Density, Film	Sparse	1	3
W2479	Mill River	2014	Turbidity	Moderately Turbid	2	3
W2479	Mill River	2014	Turbidity	Slightly Turbid	1	3

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2480	Mill River	2014	Aquatic Plant Density, Overall	Moderate	1	2
W2480	Mill River	2014	Aquatic Plant Density, Overall	Sparse	1	2
W2480	Mill River	2014	Color	None	2	2
W2480	Mill River	2014	Odor	None	2	2
W2480	Mill River	2014	Periphyton Density, Filamentous	None	1	2
W2480	Mill River	2014	Periphyton Density, Filamentous	Sparse	1	2
W2480	Mill River	2014	Periphyton Density, Film	Moderate	2	2
W2480	Mill River	2014	Turbidity	Slightly Turbid	2	2
W2480	Mill River	2018	Aquatic Plant Density, Overall	None	2	2
W2480	Mill River	2018	Color	Light Yellow/Tan	1	2
W2480	Mill River	2018	Color	None	1	2
W2480	Mill River	2018	Odor	None	2	2
W2480	Mill River	2018	Periphyton Density, Filamentous	None	2	2
W2480	Mill River	2018	Periphyton Density, Film	Sparse	2	2
W2480	Mill River	2018	Turbidity	Slightly Turbid	2	2
W2481	Mill River	2014	Aquatic Plant Density, Overall	Moderate	1	3
W2481	Mill River	2014	Aquatic Plant Density, Overall	Sparse	2	3
W2481	Mill River	2014	Color	None	3	3
W2481	Mill River	2014	Odor	None	3	3
W2481	Mill River	2014	Periphyton Density, Filamentous	Moderate	1	3
W2481	Mill River	2014	Periphyton Density, Filamentous	None	2	3
W2481	Mill River	2014	Periphyton Density, Film	Moderate	1	3
W2481	Mill River	2014	Periphyton Density, Film	Sparse	2	3
W2481	Mill River	2014	Turbidity	Slightly Turbid	3	3
W2484	Mill River	2014	Aquatic Plant Density, Overall	Sparse	2	2
W2484	Mill River	2014	Color	None	2	2
W2484	Mill River	2014	Odor	None	2	2
W2484	Mill River	2014	Periphyton Density, Filamentous	None	2	2
W2484	Mill River	2014	Periphyton Density, Film	Moderate	1	2
W2484	Mill River	2014	Periphyton Density, Film	Sparse	1	2
W2484	Mill River	2014	Turbidity	Moderately Turbid	1	2
W2484	Mill River	2014	Turbidity	Slightly Turbid	1	2

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2576	Mill River	2015	Aquatic Plant Density, Overall	Sparse	2	2
W2576	Mill River	2015	Color	None	2	2
W2576	Mill River	2015	Odor	None	2	2
W2576	Mill River	2015	Periphyton Density, Filamentous	None	2	2
W2576	Mill River	2015	Periphyton Density, Film	Sparse	2	2
W2576	Mill River	2015	Turbidity	Slightly Turbid	2	2
W2578	Mill River	2015	Aquatic Plant Density, Overall	Sparse	2	2
W2578	Mill River	2015	Color	None	2	2
W2578	Mill River	2015	Odor	None	2	2
W2578	Mill River	2015	Periphyton Density, Filamentous	None	2	2
W2578	Mill River	2015	Periphyton Density, Film	Sparse	2	2
W2578	Mill River	2015	Turbidity	None	1	2
W2578	Mill River	2015	Turbidity	Slightly Turbid	1	2
W2578	Mill River	2018	Aquatic Plant Density, Overall	None	1	3
W2578	Mill River	2018	Aquatic Plant Density, Overall	Sparse	1	3
W2578	Mill River	2018	Aquatic Plant Density, Overall	Unobservable	1	3
W2578	Mill River	2018	Color	Brownish	1	3
W2578	Mill River	2018	Color	Light Yellow/Tan	1	3
W2578	Mill River	2018	Color	None	1	3
W2578	Mill River	2018	Odor	Musty (Basement)	1	3
W2578	Mill River	2018	Odor	None	2	3
W2578	Mill River	2018	Periphyton Density, Filamentous	None	2	3
W2578	Mill River	2018	Periphyton Density, Filamentous	Unobservable	1	3
W2578	Mill River	2018	Periphyton Density, Film	Sparse	2	3
W2578	Mill River	2018	Periphyton Density, Film	Unobservable	1	3
W2578	Mill River	2018	Turbidity	Moderately Turbid	1	3
W2578	Mill River	2018	Turbidity	Slightly Turbid	2	3
W2914	Mill River	2018	Aquatic Plant Density, Overall	Sparse	1	2
W2914	Mill River	2018	Aquatic Plant Density, Overall	Unobservable	1	2
W2914	Mill River	2018	Color	Brownish	1	2
W2914	Mill River	2018	Color	None	1	2
W2914	Mill River	2018	Odor	None	2	2

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2914	Mill River	2018	Periphyton Density, Filamentous	None	1	2
W2914	Mill River	2018	Periphyton Density, Filamentous	Unobservable	1	2
W2914	Mill River	2018	Periphyton Density, Film	Sparse	1	2
W2914	Mill River	2018	Periphyton Density, Film	Unobservable	1	2
W2914	Mill River	2018	Turbidity	Moderately Turbid	1	2
W2914	Mill River	2018	Turbidity	Slightly Turbid	1	2
W2915	Mill River	2018	Aquatic Plant Density, Overall	Sparse	2	3
W2915	Mill River	2018	Aquatic Plant Density, Overall	Unobservable	1	3
W2915	Mill River	2018	Color	Brownish	1	3
W2915	Mill River	2018	Color	Light Yellow/Tan	1	3
W2915	Mill River	2018	Color	None	1	3
W2915	Mill River	2018	Odor	None	3	3
W2915	Mill River	2018	Periphyton Density, Filamentous	Sparse	1	3
W2915	Mill River	2018	Periphyton Density, Filamentous	Unobservable	2	3
W2915	Mill River	2018	Periphyton Density, Film	Moderate	1	3
W2915	Mill River	2018	Periphyton Density, Film	Unobservable	2	3
W2915	Mill River	2018	Turbidity	Moderately Turbid	2	3
W2915	Mill River	2018	Turbidity	Slightly Turbid	1	3

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Mill River (MA62-29) continues to be assessed as Not Supporting. The prior *Enterococcus* & *Escherichia coli* (*E. coli*) impairments are carried forward, based on bacteria data exceeding thresholds at 3 stations in 2019 & 8 stations over the period 2013-2021. Since a new impairment for Trash was added to the Aesthetics Use this impairment is also being added to the Recreational Uses. MassDEP, Taunton River Watershed Alliance (TRWA), & USGS staff/volunteers collected *E. coli* (EC) & *Enterococcus* (Ent) samples from 2013-2021 at 18 stations in Taunton; from the following stations/sample years from up to downstream as follows: W2481 [Whittenton St] in 2014 (EC n=3), TRWA_MIL-03 [Whittenton St] in 2019 (Ent n=6), W2484 [~925 ft S of Whittenton St] in 2014 (EC n=2), W2479 [west crossing at West Britannia St] in 2014 (EC n=3), W2480 [east crossing at West Britannia St] in 2014 & 2018 (EC n=2/yr), W2476 [Danforth St] in 2014, 2016 & 2018 (EC n=2-4/yr), halfway down at W2475 [W of Hamilton St at back of Hopewell Park] in 2014 (EC n=3), W2389 [~2800 ft north of Washington St] in 2013 (EC n=5), W2478 [~1400 ft N of Rt. 140 (at the abandoned West Adams St crossing)] in 2014 (EC n=2), W2477 [Washington St] in 2014 (EC n=2), TRWA_MIL-02 [Washington St] in 2019 (Ent n=6), W2372 [~220 ft SE from Winthrop St] in 2013 & 2019 (EC n=5-6/yr), W2576 [Weir St] in 2015 (EC n=2), W2578 [~90 ft downstream of Weir St] in 2015 & 2018 (EC n=2-3/yr), W2915 [Spring St (within mixing zone of drain outfall on N shore)] in 2018 (EC n=3), USGS-01108410 [Spring St] in 2019-2021 (EC n=6-7/yr), downstream end at W2914 [Ingell St] in 2018 (EC n=2), TRWA_MIL-01 [Ingell St] in 2019 (Ent n=6). While *E. coli* data from 6 stations are too limited to assess the Use, bacteria data from the remaining 12 stations are sufficient for assessment. Data from the most upstream station (W2481) was indicative of good water quality conditions; however, the remaining analysis is indicative of poor conditions as follows: Analysis of single yr limited frequency *E. coli* data from W2479, W2476, W2475, W2389 W2578 & W2915 = 100% of intervals had GMs >126 CFU/100ml, 2-4 samples exceeded 410 CFU/100ml STV & the seasonal GMs ranged 499-1924 CFU/100ml. Analysis of multi-yr limited frequency *E. coli* data from W2372 & USGS-01108410 = all of the sufficient data yrs had intervals where 100% of GMs were >126 CFU/100ml & at USGS-01108410 all 3 yrs had ≥ 2 samples exceed 410 CFU/100ml STV (max 2,400 CFU). Analysis of single yr limited frequency *Enterococcus* data from TRWA_MIL-01, 02 & 03 = 100% of intervals had GMs >35 CFU/100ml, 3-4 samples exceeded 130 CFU/100ml STV (max 1,980 CFU) & seasonal GMs ranged 108-256 CFU/100ml. The bacteria data from these MassDEP and USGS stations are indicative of an *E. coli* impairment. The bacteria data from the TRWA stations are indicative of an *Enterococcus* impairment. The MassDEP Bacteria Source Tracking (BST) project reported that during 2013-2018 the City of Taunton identified a number of illicit connections (i.e. a sanitary sewer for a building on Warren St, a storm drain pipe behind Hopewell Park & illicit connections to numerous storm drain pipes under the Weir St bridge). The city made extensive corrections (in 2011 & 2012) to sewer & drain lines all the way up Broadway & Washington St & investigated/made extensive corrections to the Weir St bridge sources. Overall, *E. coli* at the downstream end of the AU improved from a max of >2,419.6 MPN in 2008 to 512 MPN in 2018. Additional sampling will be recommended to continue to capture improvements in water quality as the city continues with their corrective actions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2372	MassDEP	Water Quality	Mill River	[approximately 220 feet downstream/southeast from Route 44 (Winthrop Street), Taunton]	41.900378	-71.093999
W2389	MassDEP	Water Quality	Mill River	[approximately 2800 feet upstream/north of Route 140 (Washington Street), Taunton]	41.909381	-71.098124
W2475	MassDEP	Water Quality	Mill River	[west of Hamilton Street at back of Hopewell Park (tennis court and pool), Taunton]	41.912373	-71.096167
W2476	MassDEP	Water Quality	Mill River	[Danforth Street, Taunton]	41.916773	-71.100772
W2477	MassDEP	Water Quality	Mill River	[Route 140 (Washington Street), Taunton]	41.903434	-71.097721
W2478	MassDEP	Water Quality	Mill River	[approximately 1400 feet upstream (north) of Route 140 crossing (at the site of the abandoned West Adams Street crossing), Taunton]	41.906631	-71.099730
W2479	MassDEP	Water Quality	Mill River	[the western most crossing at West Britannia Street, Taunton]	41.918798	-71.101752
W2480	MassDEP	Water Quality	Mill River	[the eastern most crossing at West Britannia Street, Taunton]	41.918803	-71.101059
W2481	MassDEP	Water Quality	Mill River	[Whittenton Street, Taunton]	41.923433	-71.106183
W2484	MassDEP	Water Quality	Mill River	[approximately 925 feet downstream (south) of Whittenton Street, at old railroad grade crossing, Taunton]	41.921806	-71.104869
W2576	MassDEP	Water Quality	Mill River	[Weir Street (Route 138), upstream of bridge and raised sewer manhole structure, Taunton]	41.900027	-71.092411
W2578	MassDEP	Water Quality	Mill River	[approximately 90 feet downstream of Weir Street (Route 138), Taunton]	41.900097	-71.091916
W2914	MassDEP	Water Quality	Mill River	[Ingell Street, Taunton]	41.896067	-71.082109
W2915	MassDEP	Water Quality	Mill River	[Spring Street, Taunton]	41.899632	-71.089864
TRWA_MIL-01	Taunton River Watershed Alliance	Water Quality	Mill River	Mill R., Ingell St., Taunton	41.896101	-71.082054
TRWA_MIL-02	Taunton River Watershed Alliance	Water Quality	Mill River	Mill R., Washington St., Taunton	41.903250	-71.097500
TRWA_MIL-03	Taunton River Watershed Alliance	Water Quality	Mill River	Mill R., Whittendon St., Taunton	41.923333	-71.105972
USGS-01108410	USGS Massachusetts Water Science Center	Water Quality	Mill River	Mill River At Spring Street At Taunton, MA	41.899823	-71.089490

Bacteria Data

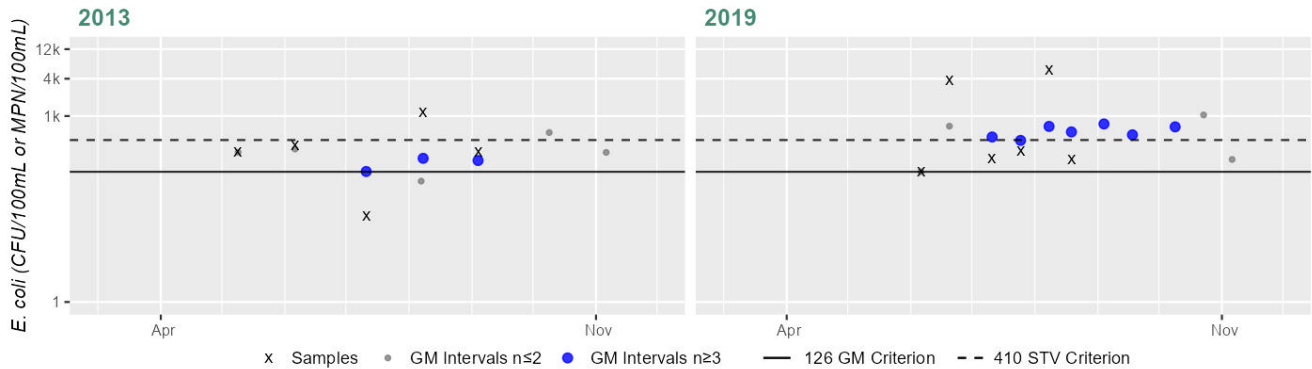
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (MassDEP Undated 9) (MassDEP Undated 5) (TRWA 2020) (MassDEP Undated 3) (USGS 2024) (MassDEP Undated 3)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2372	MassDEP	E. coli	05/09/13	09/04/13	5	24	1130	227
W2372	MassDEP	E. coli	06/06/19	08/19/19	6	126	5440	553
W2389	MassDEP	E. coli	05/09/13	09/04/13	5	243	15530	825
W2475	MassDEP	E. coli	07/10/14	09/16/14	3	248	921	571
W2476	MassDEP	E. coli	08/12/14	09/24/14	4	1300	2419	1924
W2476	MassDEP	E. coli	06/13/16	07/11/16	2	248	727	424
W2476	MassDEP	E. coli	07/12/18	08/02/18	2	124	249	175
W2477	MassDEP	E. coli	07/10/14	08/12/14	2	365	1730	794
W2478	MassDEP	E. coli	07/10/14	08/12/14	2	517	2420	1118
W2479	MassDEP	E. coli	09/04/14	09/24/14	3	548	4610	1283
W2480	MassDEP	E. coli	09/16/14	09/24/14	2	910	1990	1345
W2480	MassDEP	E. coli	07/12/18	08/02/18	2	179	201	189
W2481	MassDEP	E. coli	09/04/14	10/15/14	3	25	185	56
W2484	MassDEP	E. coli	09/24/14	10/15/14	2	133	2080	525
W2576	MassDEP	E. coli	07/21/15	10/07/15	2	130	687	298
W2578	MassDEP	E. coli	07/21/15	10/07/15	2	866	1990	1312
W2578	MassDEP	E. coli	07/12/18	10/01/18	3	411	613	499
W2914	MassDEP	E. coli	07/12/18	10/01/18	2	387	512	445
W2915	MassDEP	E. coli	07/12/18	10/01/18	3	461	770	572
TRWA_MIL-01	Taunton River Watershed Association	Enterococci	04/09/19	10/08/19	6	10	1980	170
TRWA_MIL-02	Taunton River Watershed Association	Enterococci	04/09/19	10/08/19	6	20	1530	256
TRWA_MIL-03	Taunton River Watershed Association	Enterococci	04/09/19	10/08/19	6	20	850	108
USGS-01108410	USGS Massachusetts Water Science Center	E. coli	04/15/19	10/16/19	7	68	690	312
USGS-01108410	USGS Massachusetts Water Science Center	E. coli	05/12/20	10/20/20	6	16	1600	269
USGS-01108410	USGS Massachusetts Water Science Center	E. coli	04/22/21	12/13/21	7	23	2400	292

Station MASSDEP_W2372 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	227
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	1
%n>STV	20%

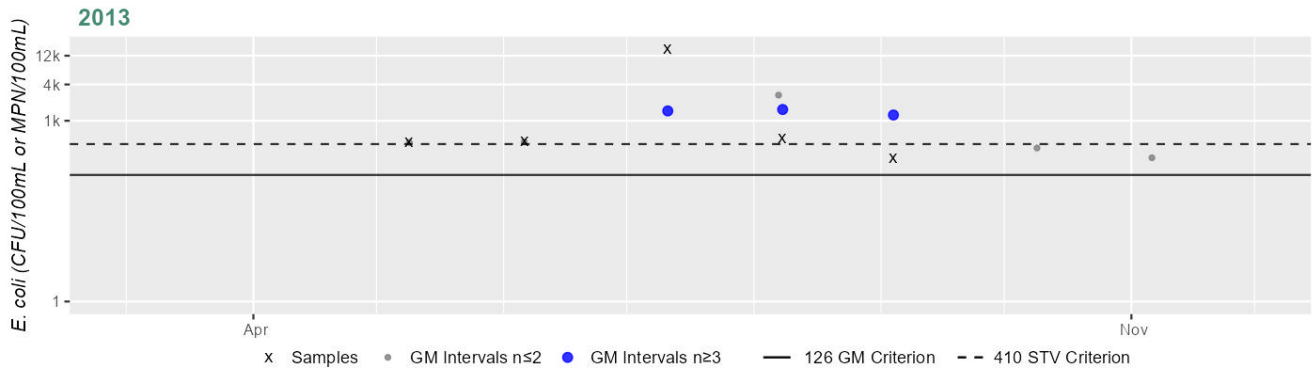
Variable*	Result
Samples	6
SeasGM	553
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	2
%n>STV	33%

Cumulative %GMI Exceedance
 Current (2011-2022)
 100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2389 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



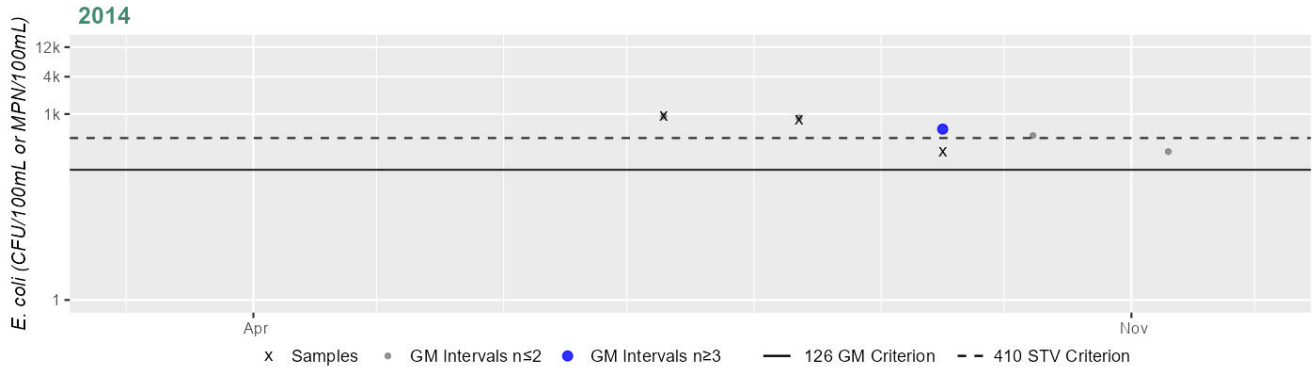
Variable*	Result
Samples	5
SeasGM	825
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	4
%n>STV	80%

Cumulative %GMI Exceedance
 Current (2011-2022)
 100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2475 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



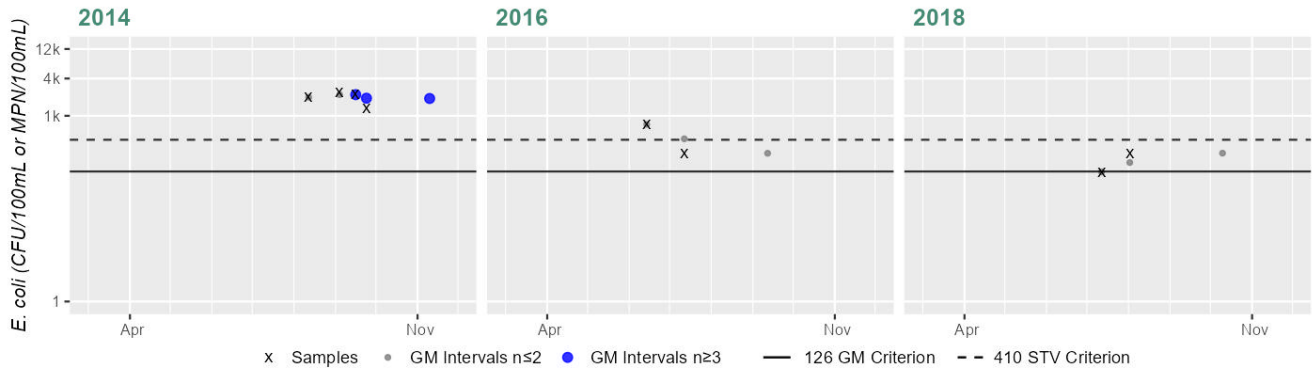
Variable*	Result
Samples	3
SeasGM	571
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	2
%n>STV	66%

Cumulative %GMI Exceedance
Current (2011-2022)
 100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2476 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	1924
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	4
%n>STV	100%

Variable*	Result
Samples	2
SeasGM	424
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	50%

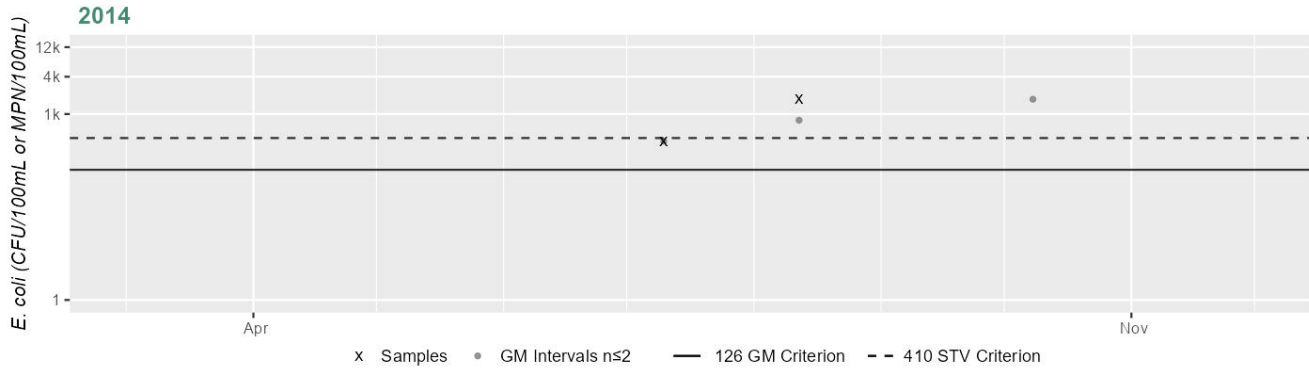
Variable*	Result
Samples	2
SeasGM	175
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2477 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



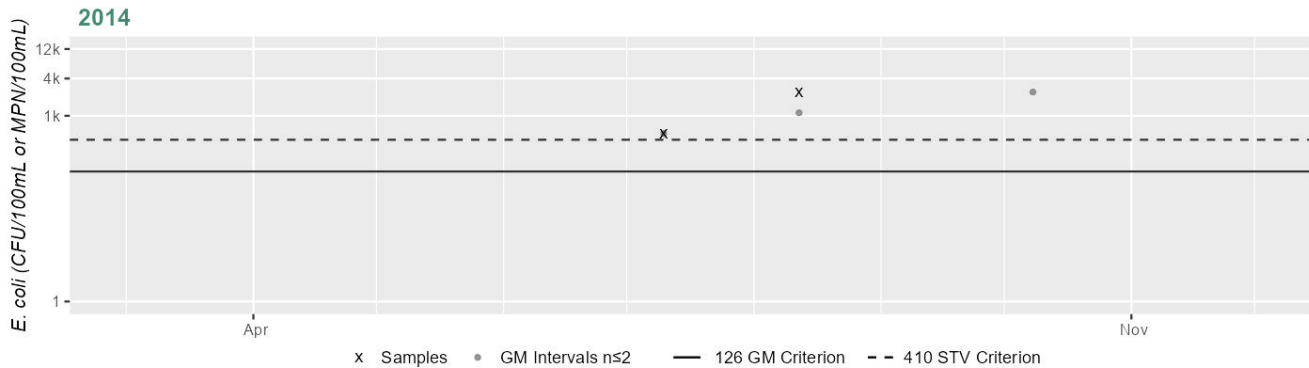
Variable*	Result
Samples	2
SeasGM	794
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2478 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



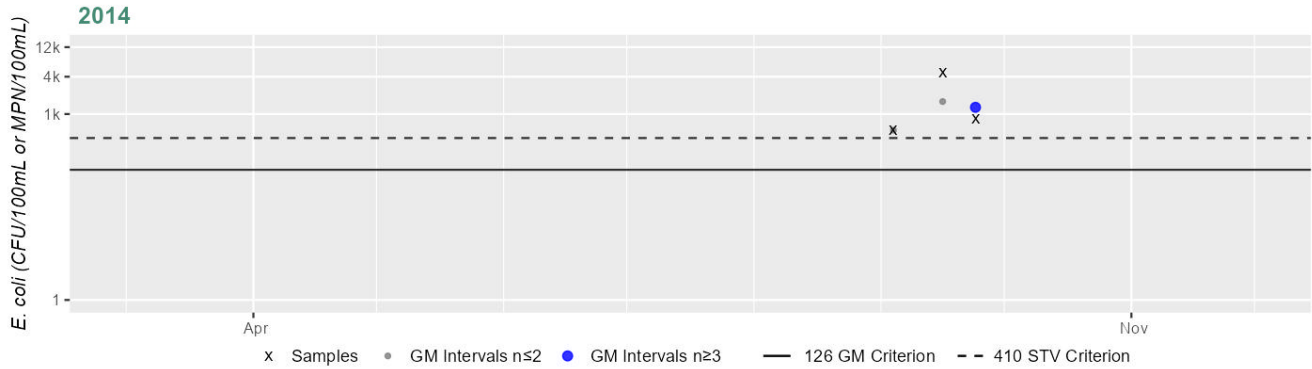
Variable*	Result
Samples	2
SeasGM	1118
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2479 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



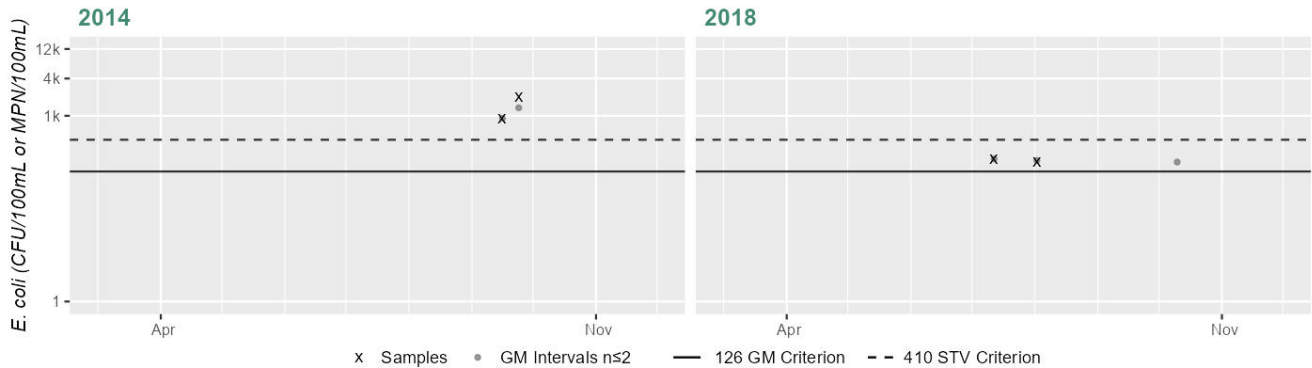
Variable*	Result
Samples	3
SeasGM	1283
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	3
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2480 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	1345
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

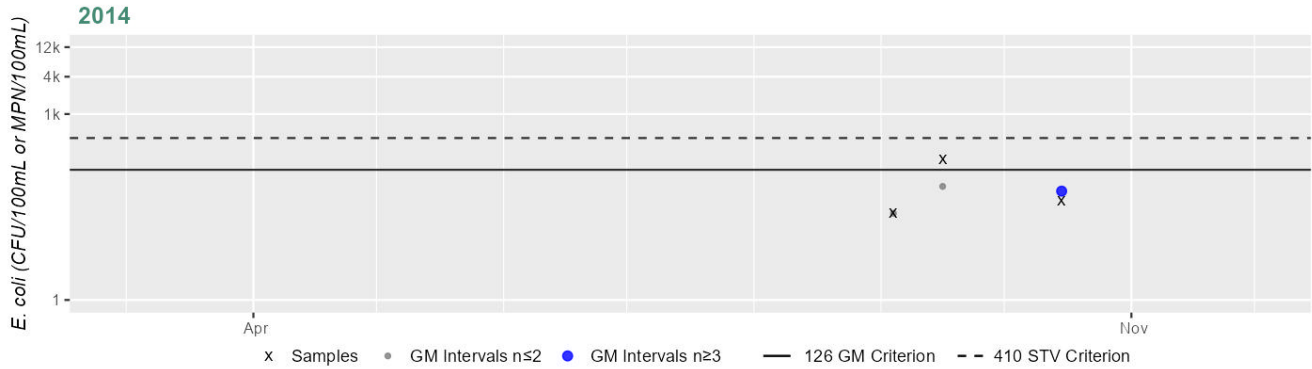
Variable*	Result
Samples	2
SeasGM	189
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2481 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



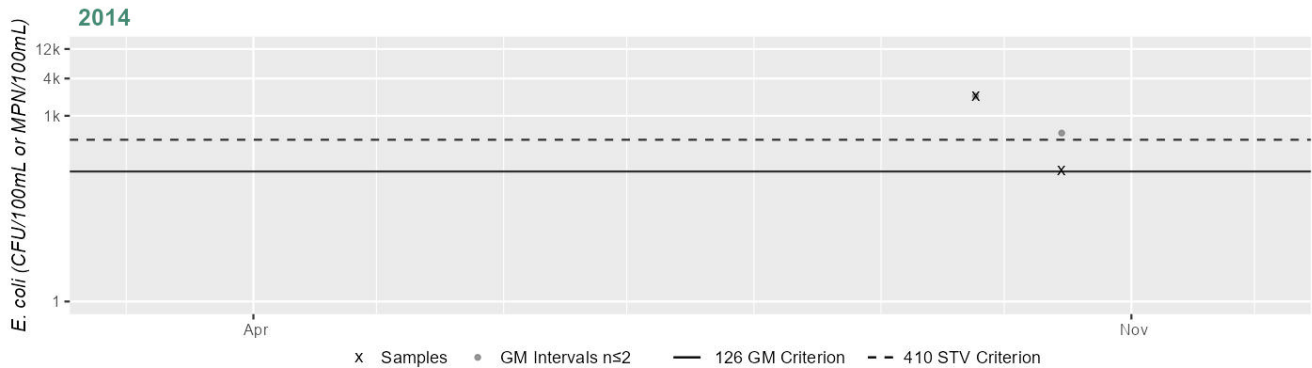
Variable*	Result
Samples	3
SeasGM	56
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2484 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



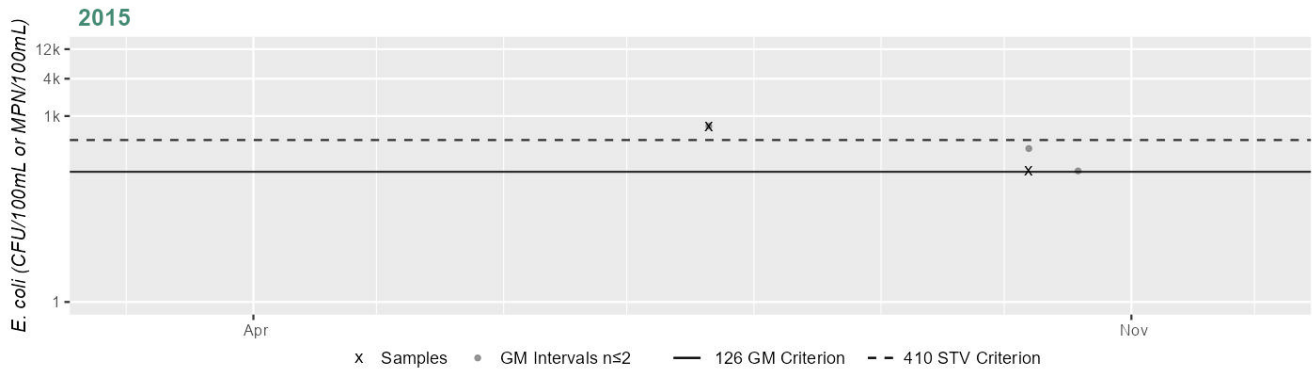
Variable*	Result
Samples	2
SeasGM	525
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2576 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



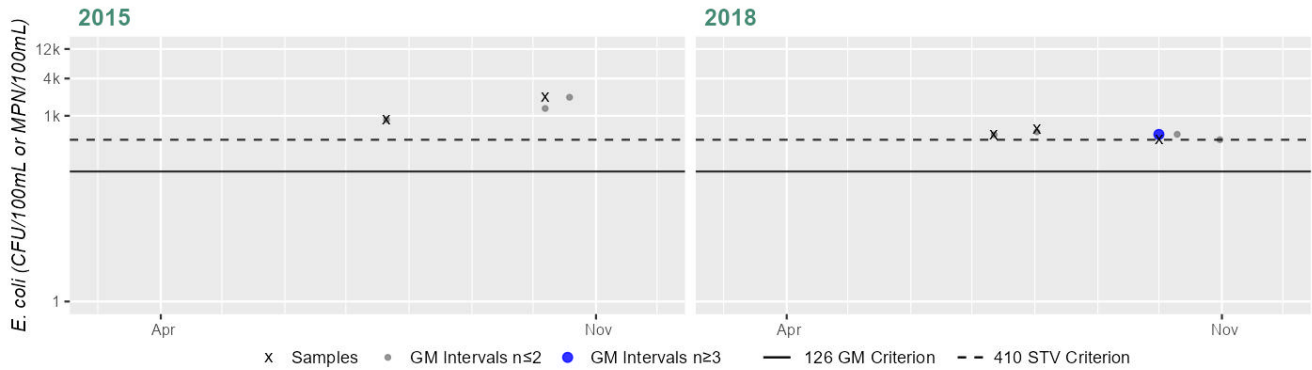
Variable*	Result
Samples	2
SeasGM	298
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2578 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	1312
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

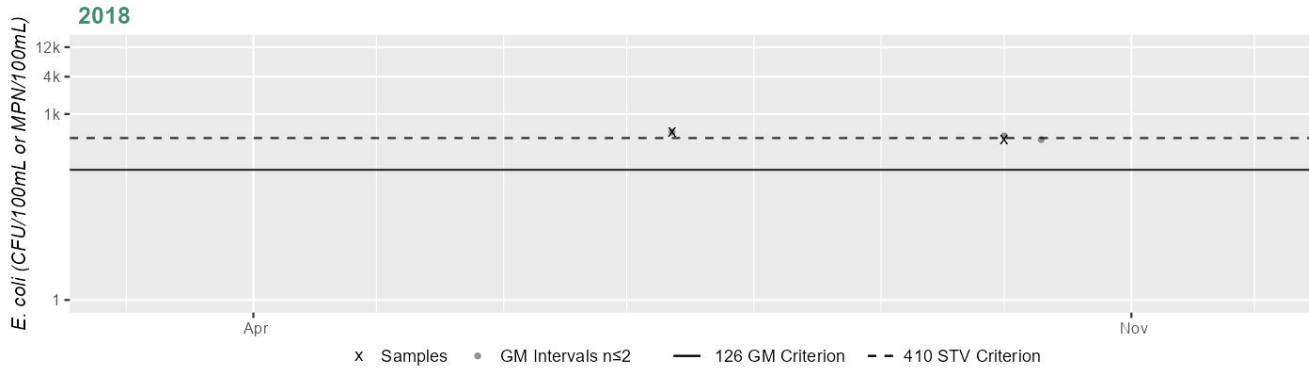
Variable*	Result
Samples	3
SeasGM	499
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	3
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2914 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



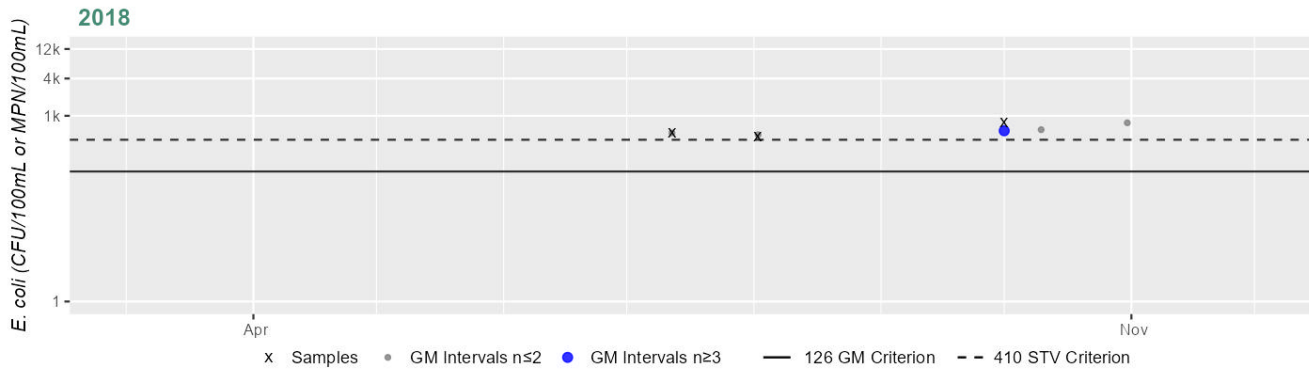
Variable*	Result
Samples	2
SeasGM	445
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2915 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



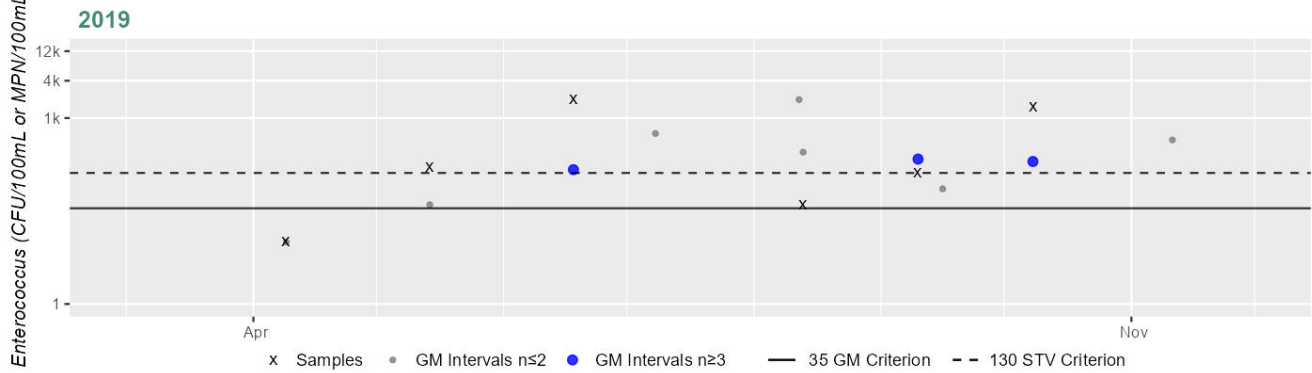
Variable*	Result
Samples	3
SeasGM	572
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	3
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station TRWA_MIL-01 - Enterococcus

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	170
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	3
%n>STV	50%

Cumulative %GMI Exceedance

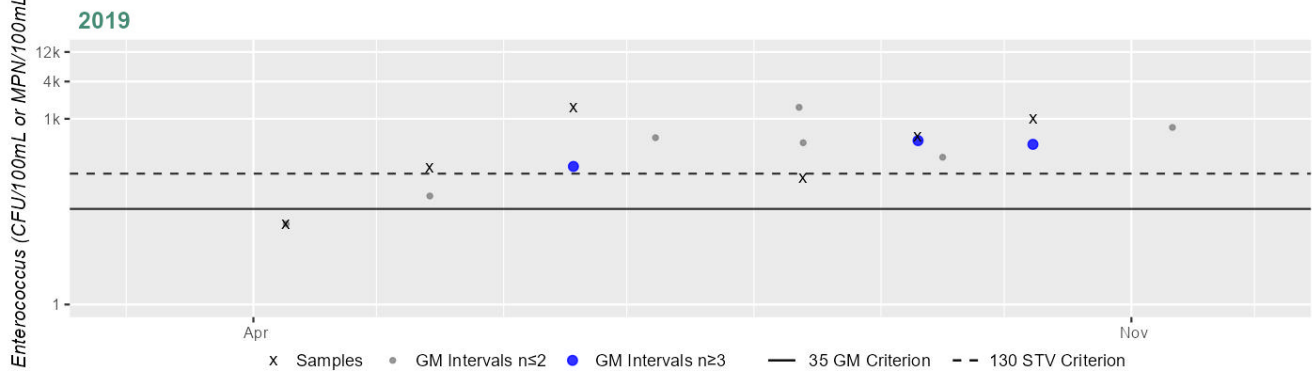
Current (2011-2022)

100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station TRWA_MIL-02 - Enterococcus

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	256
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	4
%n>STV	66%

Cumulative %GMI Exceedance

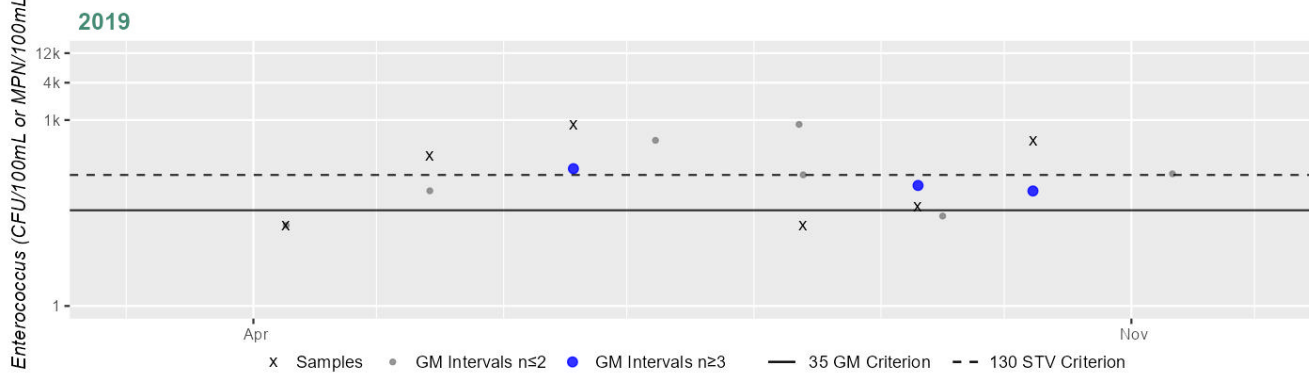
Current (2011-2022)

100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station TRWA_MIL-03 - Enterococcus

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



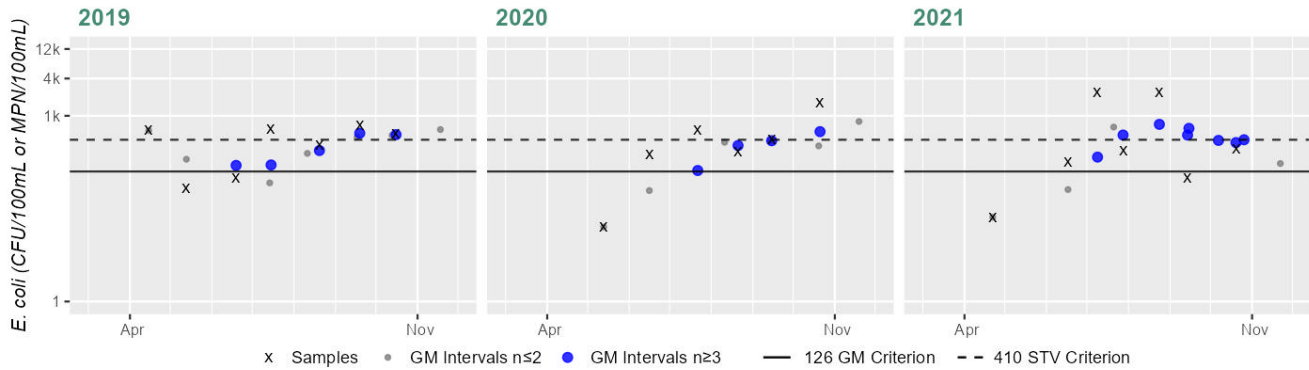
Variable*	Result
Samples	6
SeasGM	108
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	3
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station USGS-01108410 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	7
SeasGM	312
#GMI	5
#GMI Ex	5
%GMI Ex	100%
n>STV	4
%n>STV	57%

Variable*	Result
Samples	6
SeasGM	269
#GMI	4
#GMI Ex	4
%GMI Ex	100%
n>STV	2
%n>STV	33%

Variable*	Result
Samples	7
SeasGM	292
#GMI	8
#GMI Ex	8
%GMI Ex	100%
n>STV	2
%n>STV	28%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Summary Statement for 2011-2019 MassDEP Bacteria Source Tracking (BST) Data (MassDEP Undated 1)

Summary

Prior to 2011, BST work was conducted on the Mill River AU (MA62-29), with a max dry weather *E. coli* concentration of >24,196MPN at both Spring St & Weir St. Additional BST work was conducted in 2013-2018 at 17 sites along the Mill River AU (MA62-29), with *E. coli* concentrations ranging 50 to 4,611MPN. Four hotspot areas were identified: 1) In 2014 at the upstream end of the AU a source of bacteria was discovered on an unnamed tributary, with a max dry weather *E. coli* concentration of 8,664MPN at Warren St. The City identified an illicit connection from a sanitary sewer for a building on Warren St into the tributary. Post-correction follow up samples in the tributary indicated improved bacteria concentrations, with a max of <1000MPN. 2) Behind Hopewell Park; location of a human source narrowed down to a storm drain outfall pipe behind the park. The City of Taunton made extensive corrections (in 2011 & 2012) to sewer & drain lines all the way up Broadway and Washington St (a 1.5 mile stretch). Post-correction follow up samples indicated improved bacteria concentrations, with a max of 213MPN at the pipe vs >241,960MPN prior. However, the max *E. coli* concentration in river behind the park post correction (in 2014) was 920MPN. 3) The Weir St bridge (numerous illicit connections to numerous storm drain outfall pipes under the bridge). The city investigated and made extensive corrections. Post correction follow up samples downstream of the bridge indicated improved bacteria concentrations, with a max of 613MPN in 2018 vs 1,986MPN in 2015. 4) The Spring Street bridge; elevated bacteria concentrations were observed at an outfall just upstream of the bridge, with a max of 5,475MPN & human marker analysis in 2015/2016 indicated “strong evidence” of a human source. City investigation narrowed down hotspots within the drainage infrastructure, but no correctable source was ever found. Overall, the *E. coli* concentrations at the Spring St bridge improved to a max of 770MPN by 2018. The *E. coli* concentrations at the downstream end of the AU improved from a max of >2,419.6MPN in 2008 to 512MPN in 2018.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for the Mill River (MA62-29) continues to be assessed as Not Supporting. The prior *Escherichia coli* (*E. coli*) impairment is carried forward, based on a re-evaluation of bacteria data exceeding thresholds at 7 stations over the period 2013-2021. Since a new impairment for Trash was added to the Aesthetics Use this impairment is also being added to the Recreational Uses. MassDEP & USGS staff collected *E. coli* samples from 2013-2021 at 15 stations in Taunton; from the following stations/sample years from up to downstream as follows: W2481 [Whittenton St] in 2014 (n=3), W2484 [~925 ft S of Whittenton St] in 2014 (n=2), W2479 [west crossing at West Britannia St] in 2014 (n=3), W2480 [East crossing at West Britannia St] in 2014 & 2018 (n=2/yr), W2476 [Danforth St] in 2014, 2016 & 2018 (n=2-4/yr), halfway down at W2475 [west of Hamilton St at back of Hopewell Park] in 2014 (n=3), W2389 [~2800 ft north of Washington St] in 2013 (n=5), W2478 [~1400 ft N of Rt. 140 (at the abandoned West Adams St crossing)] in 2014 (n=2), W2477 [Washington St] in 2014 (n=2), W2372 [~220 ft SE from Winthrop St] in 2013 & 2019 (n=5-6/yr), W2576 [Weir St] in 2015 (n=2), W2578 [~90 ft downstream of Weir St] in 2015 & 2018 (n=2-3/yr), W2915 [Spring St (within mixing zone of drain outfall on N shore)] in 2018 (n=3), USGS-01108410 [Spring St] in 2019-2021 (n=6-7/yr), downstream end at W2914 [Ingell St] in 2018 (n=2). While *E. coli* data from 6 stations are too limited to assess the Use, bacteria data from the remaining 9 stations are sufficient. Data from stations W2481 & W2372 were indicative of good water quality conditions; however, the remaining analysis is indicative of poor conditions as follows: Analysis of single yr limited frequency *E. coli* data from stations W2479, W2476, W2475, W2389, W2578 & W2915 indicated 100% of intervals had GMs >244 CFU/100ml & the seasonal GMs ranged 499-1,924 CFU/100ml. Analysis of multi-yr limited frequency *E. coli* data from USGS-01108410 indicated 3 out of 3 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml (2019-2021, 36-87%), 1 yr had ≥2 samples exceed the 794 CFU/100ml STV (2021, n=2, max 2,400 CFU) and cumulatively across years 57% of intervals had GMs >244 CFU/100ml. The bacteria data from these MassDEP and USGS stations are indicative of an *E. coli* impairment. The MassDEP Bacteria Source Tracking (BST) project reported that during 2013-2018 the City of Taunton identified a number of illicit connections i.e. a sanitary sewer for a building on Warren St, a storm drain pipe behind Hopewell Park & illicit connections to numerous storm drain pipes under the Weir St bridge. The city made extensive corrections (in 2011 & 2012) to sewer & drain lines all the way up Broadway & Washington St & investigated/made extensive corrections to the Weir St bridge sources. Overall, *E. coli* at the downstream end of the AU improved from a max of >2,419.6 MPN in 2008 to 512 MPN in 2018. Additional sampling will be recommended to continue to capture improvements in water quality as the city continues with their corrective actions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2372	MassDEP	Water Quality	Mill River	[approximately 220 feet downstream/southeast from Route 44 (Winthrop Street), Taunton]	41.900378	-71.093999
W2389	MassDEP	Water Quality	Mill River	[approximately 2800 feet upstream/north of Route 140 (Washington Street), Taunton]	41.909381	-71.098124

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2475	MassDEP	Water Quality	Mill River	[west of Hamilton Street at back of Hopewell Park (tennis court and pool), Taunton]	41.912373	-71.096167
W2476	MassDEP	Water Quality	Mill River	[Danforth Street, Taunton]	41.916773	-71.100772
W2477	MassDEP	Water Quality	Mill River	[Route 140 (Washington Street), Taunton]	41.903434	-71.097721
W2478	MassDEP	Water Quality	Mill River	[approximately 1400 feet upstream (north) of Route 140 crossing (at the site of the abandoned West Adams Street crossing), Taunton]	41.906631	-71.099730
W2479	MassDEP	Water Quality	Mill River	[the western most crossing at West Britannia Street, Taunton]	41.918798	-71.101752
W2480	MassDEP	Water Quality	Mill River	[the eastern most crossing at West Britannia Street, Taunton]	41.918803	-71.101059
W2481	MassDEP	Water Quality	Mill River	[Whittenton Street, Taunton]	41.923433	-71.106183
W2484	MassDEP	Water Quality	Mill River	[approximately 925 feet downstream (south) of Whittenton Street, at old railroad grade crossing, Taunton]	41.921806	-71.104869
W2576	MassDEP	Water Quality	Mill River	[Weir Street (Route 138), upstream of bridge and raised sewer manhole structure, Taunton]	41.900027	-71.092411
W2578	MassDEP	Water Quality	Mill River	[approximately 90 feet downstream of Weir Street (Route 138), Taunton]	41.900097	-71.091916
W2914	MassDEP	Water Quality	Mill River	[Ingell Street, Taunton]	41.896067	-71.082109
W2915	MassDEP	Water Quality	Mill River	[Spring Street, Taunton]	41.899632	-71.089864
USGS-01108410	USGS Massachusetts Water Science Center	Water Quality	Mill River	Mill River At Spring Street At Taunton, MA	41.899823	-71.089490

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

(MassDEP Undated 9) (MassDEP Undated 4) (USGS 2024) (MassDEP Undated 2)

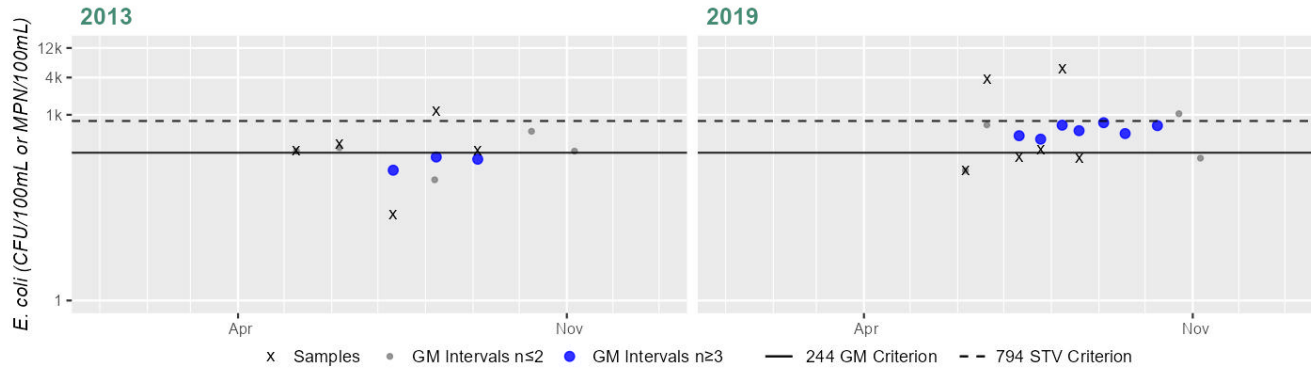
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2372	MassDEP	E. coli	05/09/13	09/04/13	5	24	1130	227
W2372	MassDEP	E. coli	06/06/19	08/19/19	6	126	5440	553
W2389	MassDEP	E. coli	05/09/13	09/04/13	5	243	15530	825
W2475	MassDEP	E. coli	07/10/14	09/16/14	3	248	921	571
W2476	MassDEP	E. coli	08/12/14	09/24/14	4	1300	2419	1924
W2476	MassDEP	E. coli	06/13/16	07/11/16	2	248	727	424
W2476	MassDEP	E. coli	07/12/18	08/02/18	2	124	249	175
W2477	MassDEP	E. coli	07/10/14	08/12/14	2	365	1730	794
W2478	MassDEP	E. coli	07/10/14	08/12/14	2	517	2420	1118
W2479	MassDEP	E. coli	09/04/14	09/24/14	3	548	4610	1283
W2480	MassDEP	E. coli	09/16/14	09/24/14	2	910	1990	1345
W2480	MassDEP	E. coli	07/12/18	08/02/18	2	179	201	189
W2481	MassDEP	E. coli	09/04/14	10/15/14	3	25	185	56

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2484	MassDEP	E. coli	09/24/14	10/15/14	2	133	2080	525
W2576	MassDEP	E. coli	07/21/15	10/07/15	2	130	687	298
W2578	MassDEP	E. coli	07/21/15	10/07/15	2	866	1990	1312
W2578	MassDEP	E. coli	07/12/18	10/01/18	3	411	613	499
W2914	MassDEP	E. coli	07/12/18	10/01/18	2	387	512	445
W2915	MassDEP	E. coli	07/12/18	10/01/18	3	461	770	572
USGS-01108410	USGS Massachusetts Water Science Center	E. coli	01/30/19	12/10/19	11	18	690	163
USGS-01108410	USGS Massachusetts Water Science Center	E. coli	01/13/20	12/07/20	10	16	1600	165
USGS-01108410	USGS Massachusetts Water Science Center	E. coli	01/27/21	12/13/21	12	17	2400	196

Station MASSDEP_W2372 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	227
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	20%

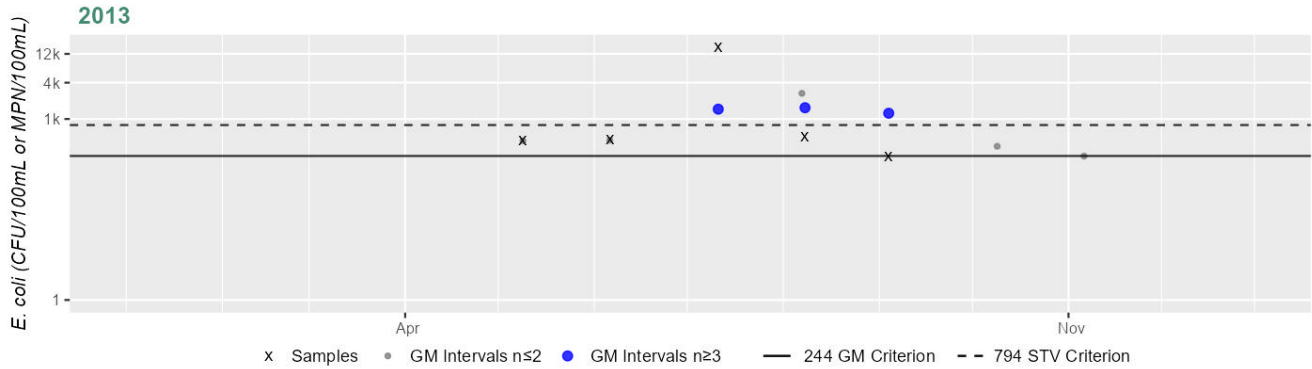
Variable*	Result
Samples	6
SeasGM	553
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	2
%n>STV	33%

Cumulative %GMI Exceedance
Current (2011-2022)
70%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2389 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



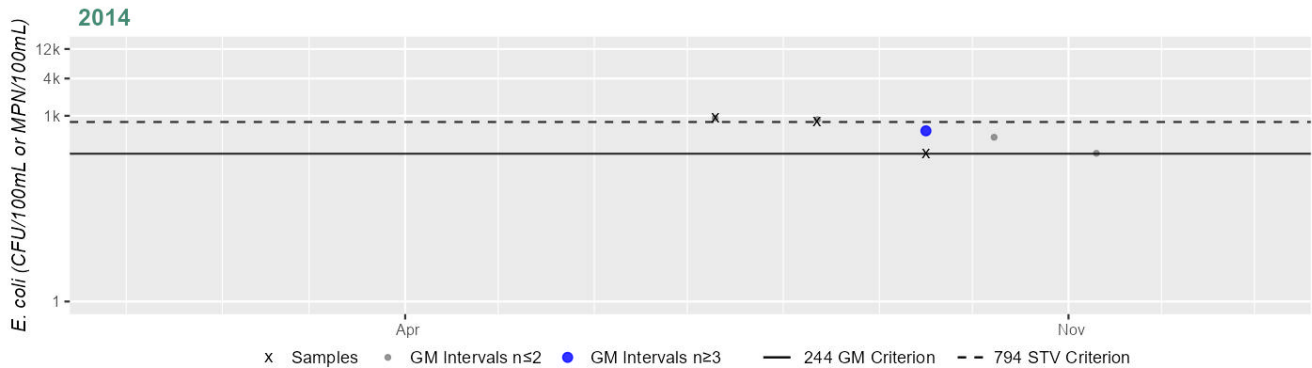
Variable*	Result
Samples	5
SeasGM	825
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2475 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



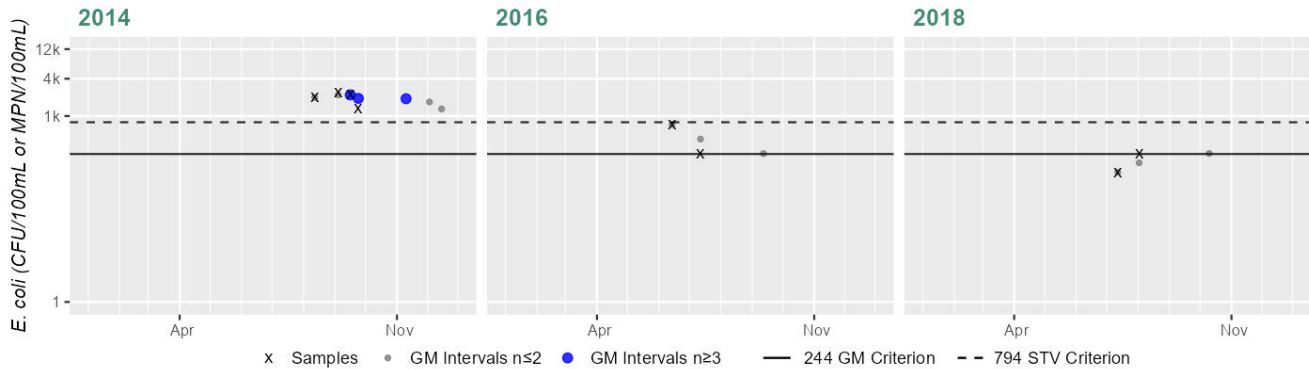
Variable*	Result
Samples	3
SeasGM	571
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	2
%n>STV	66%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2476 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	1924
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	4
%n>STV	100%

Variable*	Result
Samples	2
SeasGM	424
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

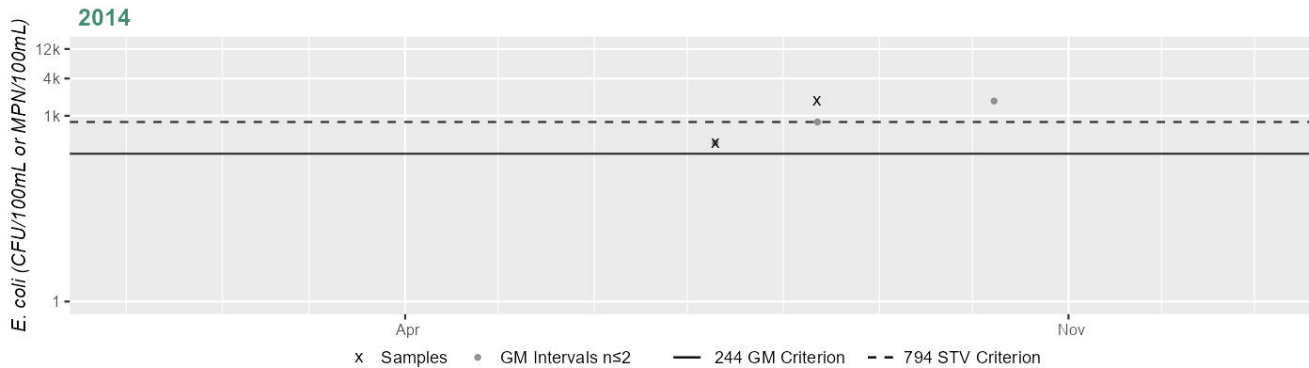
Variable*	Result
Samples	2
SeasGM	175
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2477 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



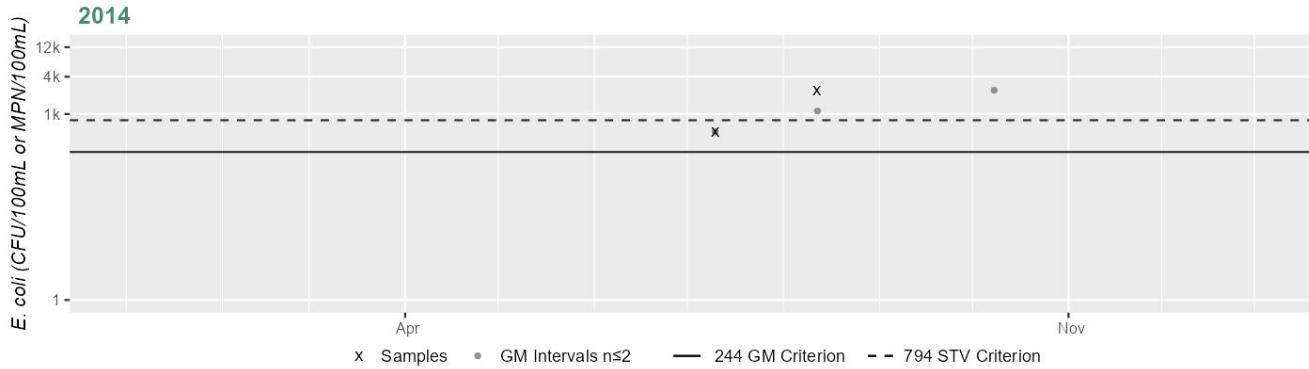
Variable*	Result
Samples	2
SeasGM	794
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2478 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



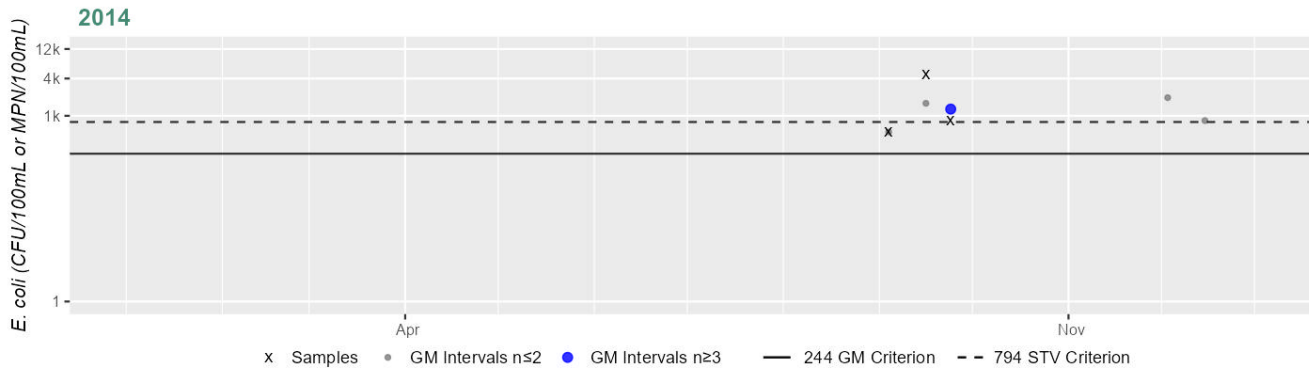
Variable*	Result
Samples	2
SeasGM	1118
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2479 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



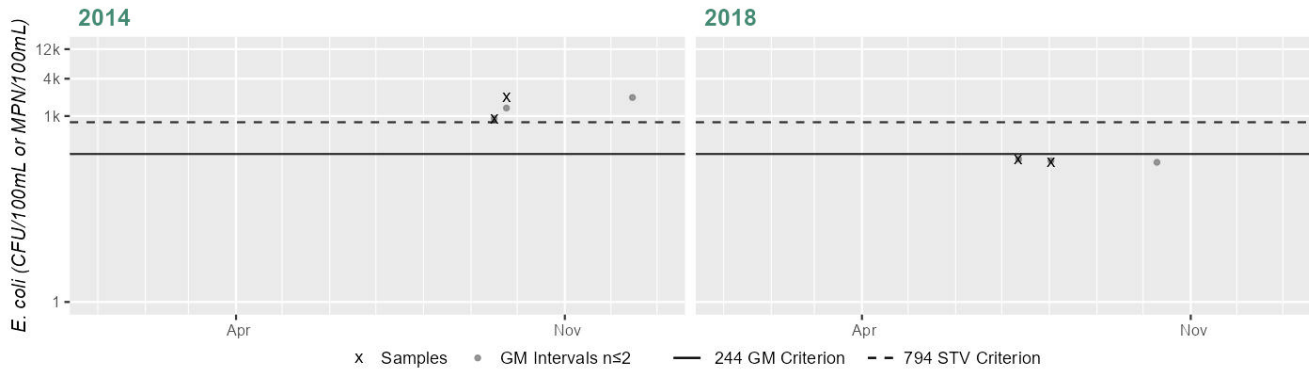
Variable*	Result
Samples	3
SeasGM	1283
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	2
%n>STV	66%

Cumulative %GMI Exceedance
Current (2011-2022)
 100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2480 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	1345
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

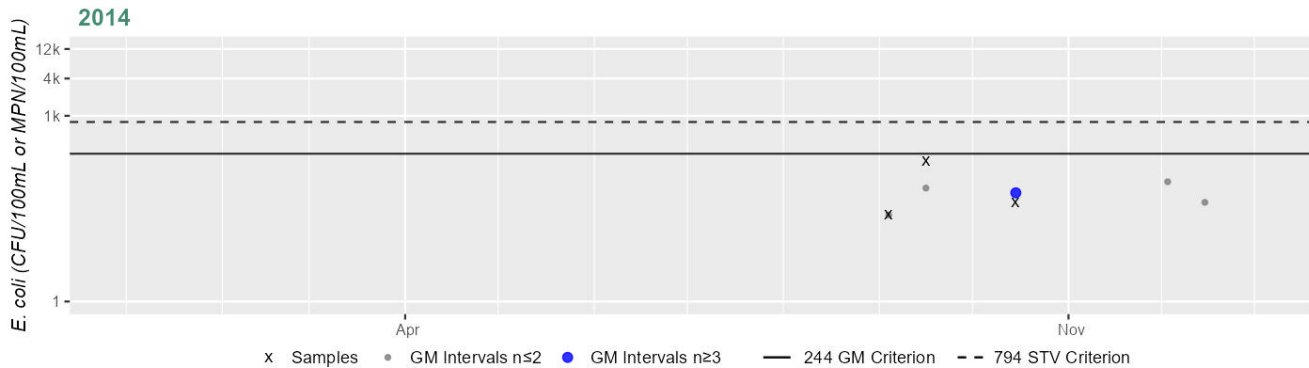
Variable*	Result
Samples	2
SeasGM	189
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2481 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



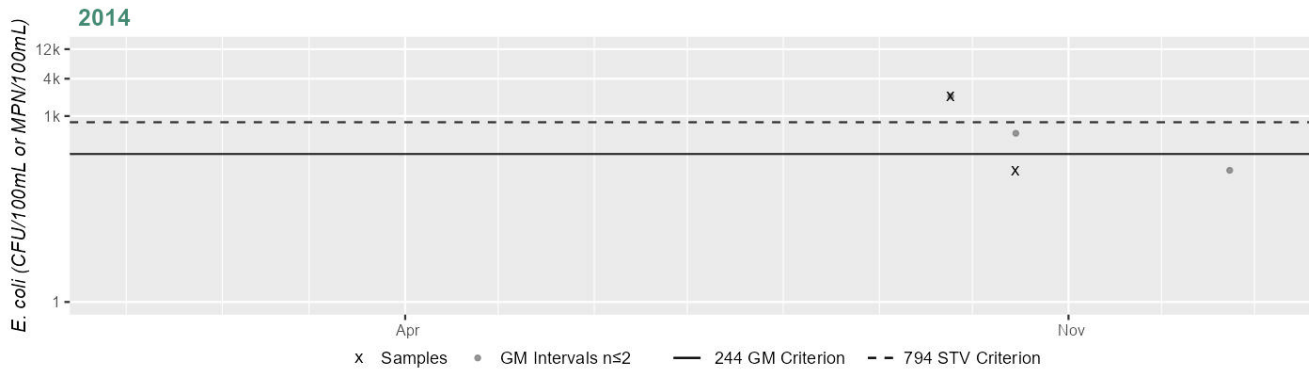
Variable*	Result
Samples	3
SeasGM	56
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2484 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



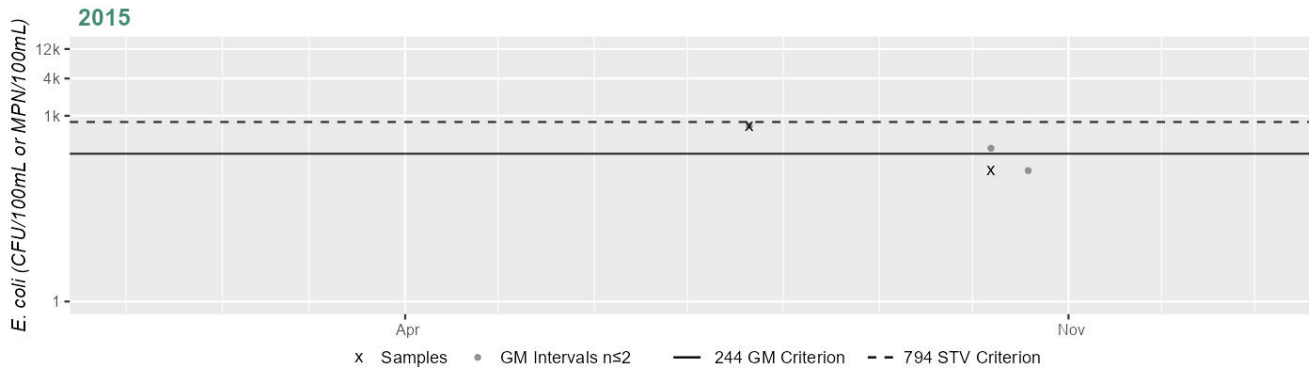
Variable*	Result
Samples	2
SeasGM	525
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2576 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



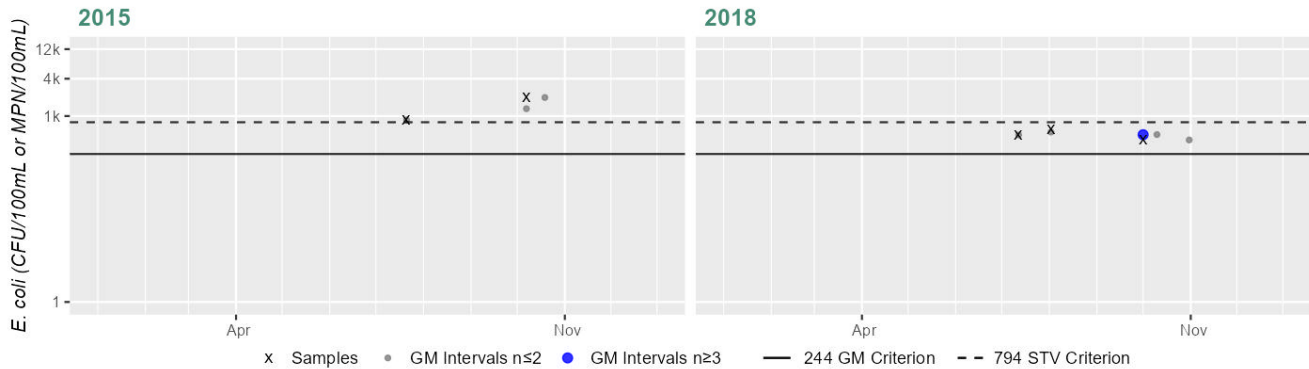
Variable*	Result
Samples	2
SeasGM	298
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2578 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	1312
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

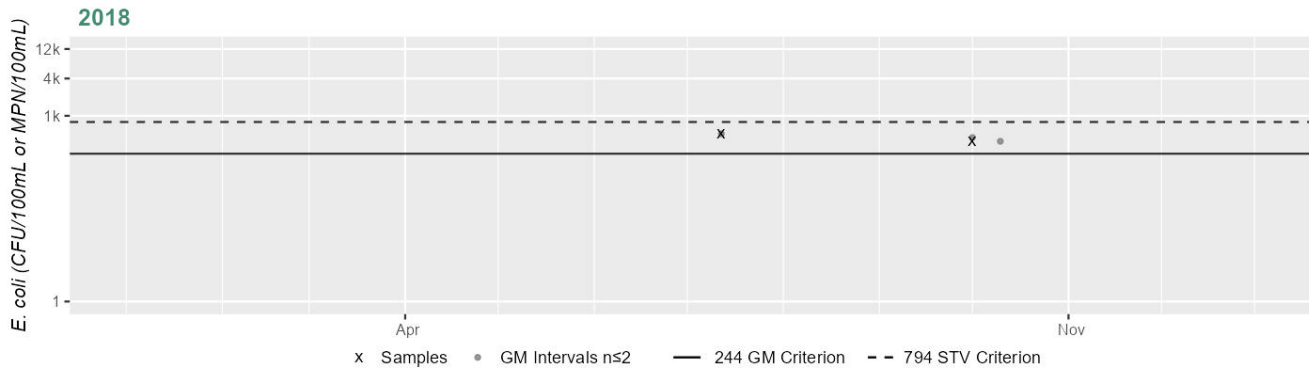
Variable*	Result
Samples	3
SeasGM	499
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2914 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



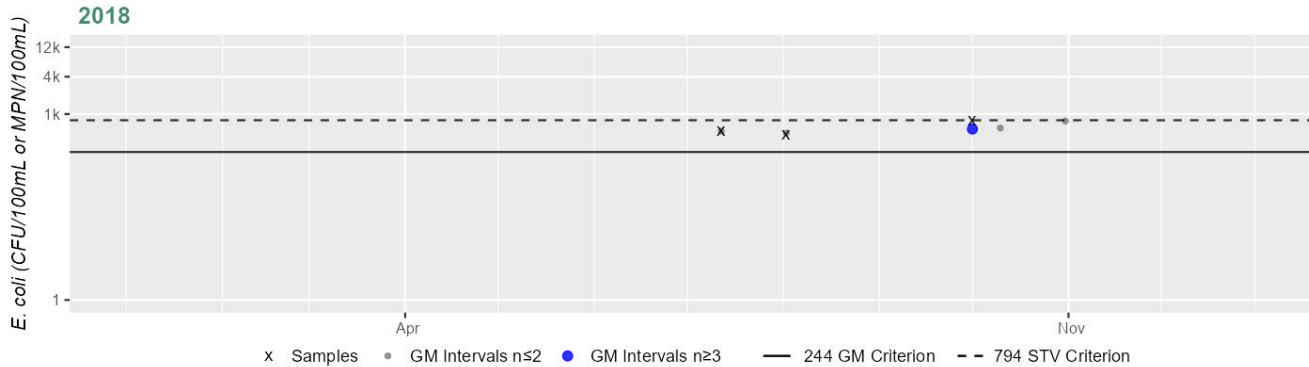
Variable*	Result
Samples	2
SeasGM	445
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2915 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



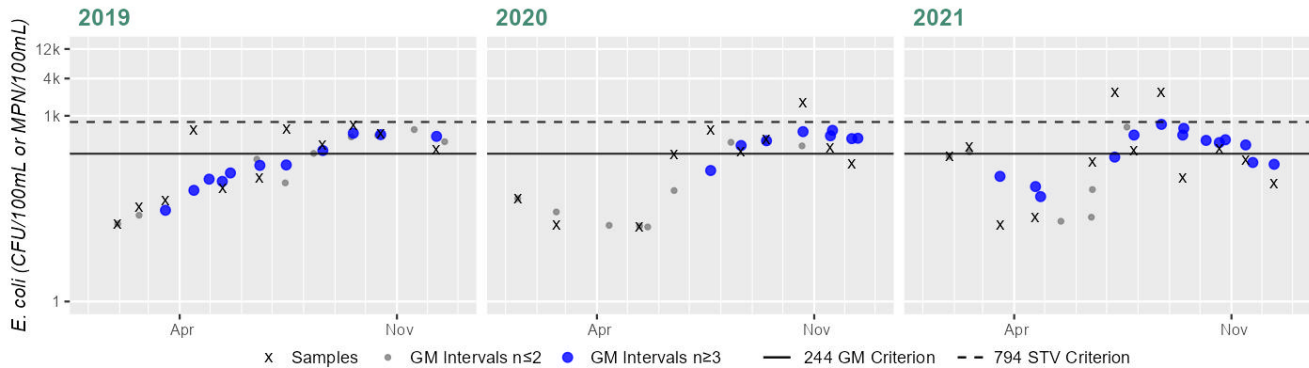
Variable*	Result
Samples	3
SeasGM	572
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station USGS-01108410 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	11
SeasGM	163
#GMI	11
#GMI Ex	4
%GMI Ex	36%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	10
SeasGM	165
#GMI	8
#GMI Ex	7
%GMI Ex	87%
n>STV	1
%n>STV	10%

Variable*	Result
Samples	12
SeasGM	196
#GMI	14
#GMI Ex	8
%GMI Ex	57%
n>STV	2
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
 57%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Monponsett Pond, East Basin (MA62218)

Location:	[East Basin] Halifax.
AU Type:	FRESHWATER LAKE
AU Size:	247 ACRES
Classification/Qualifier:	A: PWS, ORW

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	(Curly-leaf Pondweed*)	--	Unchanged
4a	4a	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
4a	4a	(Fanwort*)	--	Unchanged
4a	4a	(Non-Native Aquatic Plants*)	--	Unchanged
4a	4a	Chlorophyll-a	R1_MA_2022_01	Unchanged
4a	4a	Harmful Algal Blooms	R1_MA_2022_01	Unchanged
4a	4a	Mercury in Fish Tissue	33880	Unchanged
4a	4a	Phosphorus, Total	R1_MA_2022_01	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Curly-leaf Pondweed*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Eurasian Water Milfoil, Myriophyllum Spicatum*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Chlorophyll-a	Agriculture (Y)	X	--	--	--	--
Chlorophyll-a	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--
Chlorophyll-a	Internal Nutrient Recycling (Y)	X	--	--	--	--
Chlorophyll-a	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--
Harmful Algal Blooms	Agriculture (Y)	X	--	X	X	X
Harmful Algal Blooms	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	X	X	X
Harmful Algal Blooms	Internal Nutrient Recycling (Y)	X	--	X	X	X
Harmful Algal Blooms	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	X	X	X
Mercury in Fish Tissue	Atmospheric Deposition (Y)	--	X	--	--	--
Mercury in Fish Tissue	Source Unknown (N)	--	X	--	--	--
Phosphorus, Total	Agriculture (Y)	X	--	--	--	--
Phosphorus, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--
Phosphorus, Total	Internal Nutrient Recycling (Y)	X	--	--	--	--
Phosphorus, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No

2024/26 Use Attainment Summary
The Fish Consumption Use for Monponsett Pond, East Basin (MA62218) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. MDPH included a site-specific advisory for Monponsett Pond, East Basin (referred to by MDPH as "East Monponsett Pond") in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics use for Monponsett Pond, East Basin (MA62218) continues to be assessed as Not Supporting with the Harmful Algal Blooms impairment being carried forward based on extended C-HAB postings reported to MDPH in 2018. Since the Chlorophyll-a impairment was redundantly duplicated across multiple uses for this waterbody, the Chlorophyll-a impairment is being removed from the Aesthetics Use but will continue to be maintained under the Aquatic Life Use. Since the prior Alert identified for low Secchi disk transparency was redundantly duplicated across multiple uses for this waterbody, this Alert is being removed from the Aesthetics Use but will continue to be maintained as an impairment under the Primary Contact Recreation Use. MassDEP staff recorded aesthetics observations at two stations in Halifax for Monponsett Pond, East Basin; at the deep hole, center of southern portion of east basin (W0930) during the summer's of 2011-2019 for the WPP Lakes Baseline project (n=2-5/yr) and ~15 feet from shore at boat ramp west off Rt. 36 (W2450) during the summer's of 2013 & 2016 for the WPP Lakes Baseline project and the summer of 2017 for the WPP Cyanobacteria Monitoring project (n=1/yr). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded for any of these surveys, though field staff noted green water color sporadically over the years at W0930, which is reflective of the existing impairment for this AU. On one occasion at W2450 in 2017 an impairment flag was raised by field staff due to high turbidity. Additionally, at W0930 very dense algae (75-100% coverage) was observed on one occasion in 2011 and dense algae (50-75% coverage) was observed on one occasion in 2014. During the period 2015 through 2022, C-HAB postings for Monponsett Pond, East Basin (MDPH name East Monponsett Pond) were reported to MDPH based on visual observations for 14 days in 2017 and 48 days in 2018, and no blooms were reported in other years. Since extended blooms (>20 days in length) were reported in a recent year(s), this is reflective of the existing Harmful Algal Blooms impairment for Monponsett Pond, East Basin.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0930	MassDEP	Water Quality	Monponsett Pond	[deep hole, center of southern portion of east basin, Halifax]	42.001467	-70.836781
W2450	MassDEP	Water Quality	Monponsett Pond	[East Basin, approximately 15 feet from shore at boat ramp west off Route 36, Halifax]	41.999206	-70.830471

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W0930	2011	3	Aesthetic observations were made by MassDEP field sampling crews at Station W0930 on Monponsett Pond, East Basin (MA62218) during 3 site visits between Jun 2011 and Aug 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted green water color (n=1).

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W0930	2012	4	Aesthetic observations were made by MassDEP field sampling crews at Station W0930 on Monponsett Pond, East Basin (MA62218) during 4 site visits between Jun 2012 and Sep 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted green water color (n=2).
W0930	2013	3	Aesthetic observations were made by MassDEP field sampling crews at Station W0930 on Monponsett Pond, East Basin (MA62218) during 3 site visits between Jun 2013 and Aug 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W0930	2014	4	Aesthetic observations were made by MassDEP field sampling crews at Station W0930 on Monponsett Pond, East Basin (MA62218) during 4 site visits between Jun 2014 and Sep 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted green water color (n=1).
W0930	2015	5	Aesthetic observations were made by MassDEP field sampling crews at Station W0930 on Monponsett Pond, East Basin (MA62218) during 5 site visits between May 2015 and Sep 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W0930	2016	2	Aesthetic observations were made by MassDEP field sampling crews at Station W0930 on Monponsett Pond, East Basin (MA62218) during 2 site visits between Jun 2016 and Aug 2016. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W0930	2017	4	Aesthetic observations were made by MassDEP field sampling crews at Station W0930 on Monponsett Pond, East Basin (MA62218) during 4 site visits between Jun 2017 and Sep 2017. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted green water color (n=2).
W0930	2018	4	Aesthetic observations were made by MassDEP field sampling crews at Station W0930 on Monponsett Pond, East Basin (MA62218) during 4 site visits between Jun 2018 and Sep 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W0930	2019	4	Aesthetic observations were made by MassDEP field sampling crews at Station W0930 on Monponsett Pond, East Basin (MA62218) during 4 site visits between Jun 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2450	2013	1	Aesthetic observations were made by MassDEP field sampling crews at Station W2450 on Monponsett Pond, East Basin (MA62218) during 1 site visit on Nov 14, 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2450	2016	1	Aesthetic observations were made by MassDEP field sampling crews at Station W2450 on Monponsett Pond, East Basin (MA62218) during 1 site visit on Jul 14, 2016. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2450	2017	1	Aesthetic observations were made by MassDEP field sampling crews at Station W2450 on Monponsett Pond, East Basin (MA62218) during 1 site visit on Sep 05, 2017. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted an aesthetics impairment flag (n=1) and high turbidity (n=1). However, aesthetic observations are limited (n<3).

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0930	Monponsett Pond, East Basin	2011	Aquatic Plant Density, Overall	None	3	3
W0930	Monponsett Pond, East Basin	2011	Aquatic Plant Density, Whole Lake	Moderate	1	3
W0930	Monponsett Pond, East Basin	2011	Aquatic Plant Density, Whole Lake	Sparse	1	3
W0930	Monponsett Pond, East Basin	2011	Aquatic Plant Density, Whole Lake	Unobservable	1	3
W0930	Monponsett Pond, East Basin	2011	Color	Brownish	1	3
W0930	Monponsett Pond, East Basin	2011	Color	Greenish	1	3
W0930	Monponsett Pond, East Basin	2011	Color	NR	1	3
W0930	Monponsett Pond, East Basin	2011	Duckweed Density, Whole Lake	NR	1	3
W0930	Monponsett Pond, East Basin	2011	Duckweed Density, Whole Lake	Sparse	2	3
W0930	Monponsett Pond, East Basin	2011	Objectionable Deposits	No	3	3
W0930	Monponsett Pond, East Basin	2011	Odor	None	3	3
W0930	Monponsett Pond, East Basin	2011	Scum	No	2	3
W0930	Monponsett Pond, East Basin	2011	Scum	Yes	1	3
W0930	Monponsett Pond, East Basin	2011	Turbidity	Moderately Turbid	1	3
W0930	Monponsett Pond, East Basin	2011	Turbidity	NR	1	3
W0930	Monponsett Pond, East Basin	2011	Turbidity	Slightly Turbid	1	3
W0930	Monponsett Pond, East Basin	2012	Aquatic Plant Density, Overall	None	1	4
W0930	Monponsett Pond, East Basin	2012	Aquatic Plant Density, Overall	NR	3	4
W0930	Monponsett Pond, East Basin	2012	Aquatic Plant Density, Whole Lake	Sparse	4	4
W0930	Monponsett Pond, East Basin	2012	Color	Greenish	2	4
W0930	Monponsett Pond, East Basin	2012	Color	Light Yellow/Tan	2	4

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0930	Monponsett Pond, East Basin	2012	Duckweed Density, Whole Lake	Sparse	4	4
W0930	Monponsett Pond, East Basin	2012	Objectionable Deposits	No	4	4
W0930	Monponsett Pond, East Basin	2012	Odor	None	4	4
W0930	Monponsett Pond, East Basin	2012	Scum	No	3	4
W0930	Monponsett Pond, East Basin	2012	Scum	Yes	1	4
W0930	Monponsett Pond, East Basin	2012	Turbidity	Moderately Turbid	1	4
W0930	Monponsett Pond, East Basin	2012	Turbidity	Slightly Turbid	3	4
W0930	Monponsett Pond, East Basin	2013	Aesthetics Impaired?	No	3	3
W0930	Monponsett Pond, East Basin	2013	Aquatic Plant Density, Overall	None	2	3
W0930	Monponsett Pond, East Basin	2013	Aquatic Plant Density, Overall	NR	1	3
W0930	Monponsett Pond, East Basin	2013	Aquatic Plant Density, Whole Lake	Sparse	3	3
W0930	Monponsett Pond, East Basin	2013	Color	Dark Tan	1	3
W0930	Monponsett Pond, East Basin	2013	Color	Light Yellow/Tan	1	3
W0930	Monponsett Pond, East Basin	2013	Color	NR	1	3
W0930	Monponsett Pond, East Basin	2013	Duckweed Density, Whole Lake	None	2	3
W0930	Monponsett Pond, East Basin	2013	Duckweed Density, Whole Lake	Sparse	1	3
W0930	Monponsett Pond, East Basin	2013	Objectionable Deposits	No	3	3
W0930	Monponsett Pond, East Basin	2013	Odor	None	3	3
W0930	Monponsett Pond, East Basin	2013	Scum	No	3	3
W0930	Monponsett Pond, East Basin	2013	Turbidity	Moderately Turbid	1	3
W0930	Monponsett Pond, East Basin	2013	Turbidity	NR	1	3
W0930	Monponsett Pond, East Basin	2013	Turbidity	Slightly Turbid	1	3

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0930	Monponsett Pond, East Basin	2014	Aesthetics Impaired?	No	3	4
W0930	Monponsett Pond, East Basin	2014	Aesthetics Impaired?	NR	1	4
W0930	Monponsett Pond, East Basin	2014	Aquatic Plant Density, Overall	None	4	4
W0930	Monponsett Pond, East Basin	2014	Aquatic Plant Density, Whole Lake	Sparse	3	3
W0930	Monponsett Pond, East Basin	2014	Color	Brownish	3	4
W0930	Monponsett Pond, East Basin	2014	Color	Greenish	1	4
W0930	Monponsett Pond, East Basin	2014	Duckweed Density, Whole Lake	NR	2	3
W0930	Monponsett Pond, East Basin	2014	Duckweed Density, Whole Lake	Sparse	1	3
W0930	Monponsett Pond, East Basin	2014	Objectionable Deposits	No	4	4
W0930	Monponsett Pond, East Basin	2014	Odor	None	4	4
W0930	Monponsett Pond, East Basin	2014	Scum	No	4	4
W0930	Monponsett Pond, East Basin	2014	Turbidity	Moderately Turbid	1	4
W0930	Monponsett Pond, East Basin	2014	Turbidity	Slightly Turbid	3	4
W0930	Monponsett Pond, East Basin	2015	Aesthetics Impaired?	No	5	5
W0930	Monponsett Pond, East Basin	2015	Aquatic Plant Density, Overall	None	5	5
W0930	Monponsett Pond, East Basin	2015	Aquatic Plant Density, Whole Lake	Moderate	1	5
W0930	Monponsett Pond, East Basin	2015	Aquatic Plant Density, Whole Lake	NR	1	5
W0930	Monponsett Pond, East Basin	2015	Aquatic Plant Density, Whole Lake	Sparse	3	5
W0930	Monponsett Pond, East Basin	2015	Color	Light Yellow/Tan	5	5
W0930	Monponsett Pond, East Basin	2015	Duckweed Density, Whole Lake	None	4	5
W0930	Monponsett Pond, East Basin	2015	Duckweed Density, Whole Lake	Sparse	1	5
W0930	Monponsett Pond, East Basin	2015	Objectionable Deposits	No	5	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0930	Monponsett Pond, East Basin	2015	Odor	None	5	5
W0930	Monponsett Pond, East Basin	2015	Scum	No	4	5
W0930	Monponsett Pond, East Basin	2015	Scum	NR	1	5
W0930	Monponsett Pond, East Basin	2015	Turbidity	None	4	5
W0930	Monponsett Pond, East Basin	2015	Turbidity	Slightly Turbid	1	5
W0930	Monponsett Pond, East Basin	2016	Aesthetics Impaired?	No	2	2
W0930	Monponsett Pond, East Basin	2016	Aquatic Plant Density, Overall	None	1	2
W0930	Monponsett Pond, East Basin	2016	Aquatic Plant Density, Overall	NR	1	2
W0930	Monponsett Pond, East Basin	2016	Color	Light Yellow/Tan	2	2
W0930	Monponsett Pond, East Basin	2016	Objectionable Deposits	No	2	2
W0930	Monponsett Pond, East Basin	2016	Odor	None	2	2
W0930	Monponsett Pond, East Basin	2016	Scum	No	2	2
W0930	Monponsett Pond, East Basin	2016	Turbidity	Slightly Turbid	2	2
W0930	Monponsett Pond, East Basin	2017	Aesthetics Impaired?	No	4	4
W0930	Monponsett Pond, East Basin	2017	Aquatic Plant Density, Overall	NR	4	4
W0930	Monponsett Pond, East Basin	2017	Color	Greenish	2	4
W0930	Monponsett Pond, East Basin	2017	Color	Light Yellow/Tan	2	4
W0930	Monponsett Pond, East Basin	2017	Objectionable Deposits	No	4	4
W0930	Monponsett Pond, East Basin	2017	Odor	None	4	4
W0930	Monponsett Pond, East Basin	2017	Scum	No	4	4
W0930	Monponsett Pond, East Basin	2017	Turbidity	Moderately Turbid	2	4
W0930	Monponsett Pond, East Basin	2017	Turbidity	Slightly Turbid	2	4

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0930	Monponsett Pond, East Basin	2018	Aesthetics Impaired?	No	4	4
W0930	Monponsett Pond, East Basin	2018	Aquatic Plant Density, Overall	None	2	4
W0930	Monponsett Pond, East Basin	2018	Aquatic Plant Density, Overall	Unobservable	2	4
W0930	Monponsett Pond, East Basin	2018	Aquatic Plant Density, Whole Lake	None	1	1
W0930	Monponsett Pond, East Basin	2018	Color	Light Yellow/Tan	4	4
W0930	Monponsett Pond, East Basin	2018	Duckweed Density, Whole Lake	None	1	1
W0930	Monponsett Pond, East Basin	2018	Objectionable Deposits	No	4	4
W0930	Monponsett Pond, East Basin	2018	Odor	None	4	4
W0930	Monponsett Pond, East Basin	2018	Scum	No	4	4
W0930	Monponsett Pond, East Basin	2018	Turbidity	Slightly Turbid	4	4
W0930	Monponsett Pond, East Basin	2019	Aesthetics Impaired?	No	4	4
W0930	Monponsett Pond, East Basin	2019	Aquatic Plant Density, Overall	NR	3	4
W0930	Monponsett Pond, East Basin	2019	Aquatic Plant Density, Overall	Unobservable	1	4
W0930	Monponsett Pond, East Basin	2019	Color	Brownish	3	4
W0930	Monponsett Pond, East Basin	2019	Color	Dark Tan	1	4
W0930	Monponsett Pond, East Basin	2019	Objectionable Deposits	No	4	4
W0930	Monponsett Pond, East Basin	2019	Odor	None	4	4
W0930	Monponsett Pond, East Basin	2019	Scum	No	3	4
W0930	Monponsett Pond, East Basin	2019	Scum	Yes	1	4
W0930	Monponsett Pond, East Basin	2019	Turbidity	Moderately Turbid	2	4
W0930	Monponsett Pond, East Basin	2019	Turbidity	Slightly Turbid	2	4
W2450	Monponsett Pond, East Basin	2013	Aesthetics Impaired?	No	1	1

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2450	Monponsett Pond, East Basin	2013	Aquatic Plant Density, Overall	None	1	1
W2450	Monponsett Pond, East Basin	2013	Aquatic Plant Density, Whole Lake	Unobservable	1	1
W2450	Monponsett Pond, East Basin	2013	Color	Light Yellow/Tan	1	1
W2450	Monponsett Pond, East Basin	2013	Duckweed Density, Whole Lake	NR	1	1
W2450	Monponsett Pond, East Basin	2013	Objectionable Deposits	No	1	1
W2450	Monponsett Pond, East Basin	2013	Odor	None	1	1
W2450	Monponsett Pond, East Basin	2013	Scum	No	1	1
W2450	Monponsett Pond, East Basin	2013	Turbidity	None	1	1
W2450	Monponsett Pond, East Basin	2016	Aesthetics Impaired?	No	1	1
W2450	Monponsett Pond, East Basin	2016	Aquatic Plant Density, Overall	NR	1	1
W2450	Monponsett Pond, East Basin	2016	Color	None	1	1
W2450	Monponsett Pond, East Basin	2016	Objectionable Deposits	No	1	1
W2450	Monponsett Pond, East Basin	2016	Odor	None	1	1
W2450	Monponsett Pond, East Basin	2016	Scum	No	1	1
W2450	Monponsett Pond, East Basin	2016	Turbidity	Slightly Turbid	1	1
W2450	Monponsett Pond, East Basin	2017	Aesthetics Impaired?	Yes	1	1
W2450	Monponsett Pond, East Basin	2017	Color	Yellowish	1	1
W2450	Monponsett Pond, East Basin	2017	Objectionable Deposits	No	1	1
W2450	Monponsett Pond, East Basin	2017	Odor	None	1	1
W2450	Monponsett Pond, East Basin	2017	Scum	No	1	1
W2450	Monponsett Pond, East Basin	2017	Turbidity	Highly Turbid	1	1

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Monponsett Pond, East Basin (MDPH name East Monponsett Pond) (MA62218) were reported to MDPH based on visual observations for 14 days in 2017 and 48 days in 2018. No blooms were reported in other years. Since blooms were reported in recent years, a prior Harmful Algal Bloom impairment is being carried forward and the Aesthetics Use and Primary/Secondary Contact Recreational Uses continue to be assessed as Not Supporting.

Cyanobacteria Harmful Algal Bloom (C-HAB) Data (2015-2022) Provided by MDPH (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

Waterbody	Town	Posting Days 2015	Posting Days 2016	Posting Days 2017	Posting Days 2018	Posting Days 2019	Posting Days 2020	Posting Days 2021	Posting Days 2022
East Monponsett Pond				14	48				

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	

The Primary Contact Recreation Use for Monponsett Pond, East Basin (MA62218) continues to be assessed as Not Supporting. The prior Harmful Algal Blooms impairment is being carried forward based on extended C-HAB postings reported to MDPH in 2018. Since the Chlorophyll-a impairment is being removed from the Aesthetics Use this cycle, this impairment is also being removed from the Primary Contact Recreation Use. The prior Alert identified for low Secchi depth transparency is being removed based on water clarity measurements meeting the 1.2m (4ft) threshold at two stations in 2016-2019 & 2022. Central Plymouth County Water District Commission (CPCWDC) staff/volunteers collected *E. coli* bacteria samples in Monponsett Pond, East Basin at CPCWDC_EPD [Near Silver Lake Diversion, Halifax] from May-Oct 2022 (n=2). The available *E. coli* data at CPCWDC_EPD are too limited to assess the Primary Contact Recreation Use according to the 2024 CALM. During the period 2015 through 2022, C-HAB postings for Monponsett Pond, East Basin (MDPH name East Monponsett Pond) were reported to MDPH based on visual observations for 14 days in 2017 and 48 days in 2018, and no blooms were reported in other years. Since extended blooms (>20 days in duration) were reported in a recent year(s), this is reflective of the existing Harmful Algal Blooms impairment for this AU. CPCWDC also collected Secchi depth and cyanotoxins data in 2022 at CPCWDC_EPD and MassDEP collected Secchi depth data in 2011-2019 at W0930 [deep hole, center of southern portion of east basin, Halifax] and cyanotoxins data in 2017 at W2450 [East Basin, ~15 feet from shore at boat ramp west off Rt 36, Halifax]. The most recent five years of data with ≥ 2 Secchi depth measurements were used for assessment. Secchi depth data at CPCWDC_EPD in 2022 (station depth=1.8 m) indicated water clarity generally meeting the 1.2m (4ft) threshold (n=2, 1-1.75 m), with the exception being 1 measurement taken on May 23, 2022 (1.0 m). In addition, water clarity generally met the threshold at W0930 (station depth ranging 3-4 m) in 2016 (n=2, 2.2-3 m), 2017 (n=4, 1.2-2.4 m), 2018 (n=4, 1.4-2.5 m), and 2019 (n=4, 1.1-1.74 m), with the exception being 1 measurement at W0930 on Aug 14, 2019 (1.1 m). It should be noted that the C-HAB postings covered the following time frames among others: (8/17- 8/31/2017 and 8/22-10/9/2018) and during or close to these time frames (i.e. 8/23/17, 8/15/18 and 9/12/18). In general Secchi depth measurements met the 1.2m (4ft) threshold during these time frames, which clarifies the decision to remove the Alert for Secchi depth transparency for Monponsett Pond, East Basin. Analysis of microcystins samples from CPCWDC_EPD in 2022 (n=3) and the DEP shoreline station W2450 in 2017 (n=1) indicated that the concentrations did not exceed the threshold of 8 $\mu\text{g/L}$.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CPCWDC_EPD	Central Plymouth County Water District Commission	Water Quality	East Monponsett Pond	East Monponsett Pond Near Silver Lake Diversion - Halifax	41.999400	-70.830500

Bacteria Data

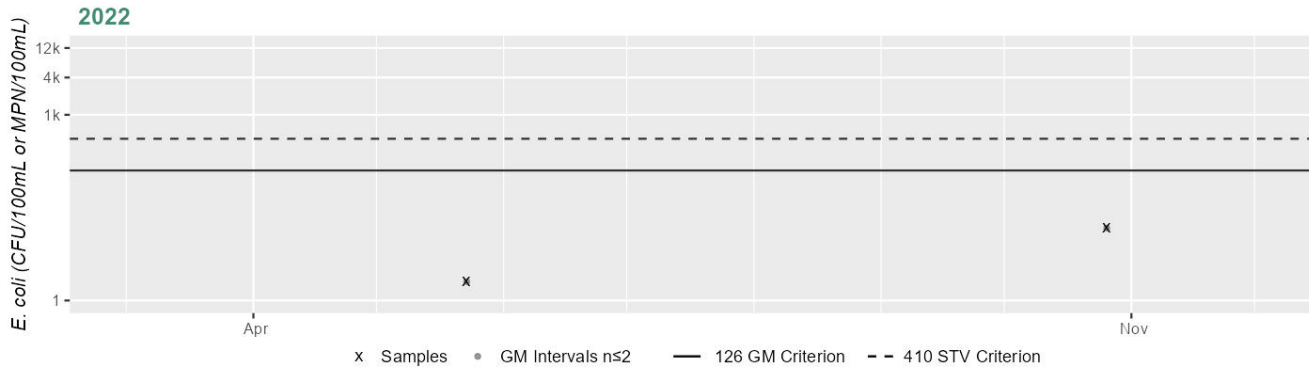
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
 (CPCWDC 2023) (MassDEP Undated 3)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
CPCWDC_EPD	Central Plymouth County Water District Commission	E. coli	05/23/22	10/26/22	2	2	14	5

Station CPCWDC_EPD - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	5
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data
 (MassDEP Undated 9) (MassDEP Undated 5) (MassDEP Undated 3)

Data Year(s)	Summary
2011-2019, 2022	<p>In Monponsett Pond, East Basin (MA62218), CPCWDC collected Secchi data and cyanotoxin data in 2022 at CPCWDC_EPD [41.9994, -70.8305, East Monponsett Pond Near Silver Lake Diversion - Halifax]. MassDEP collected Secchi data at W0930 [42.001467, -70.836781, deep hole, center of southern portion of east basin, Halifax] from 2011 through 2019, and cyanotoxin data at W2450 [41.999206, -70.830471, [East Basin, approximately 15 feet from shore at boat ramp west off Route 36, Halifax]] in 2017. The most recent five years of data with >2 Secchi measurements were used for assessment. In 2022 at station CPCWDC_EPD (station depth=1.8 m) the Secchi depth measurements ranged from 1-1.75 m (n=2) with 1 measurement taken on May 23, 2022 that was less than the 1.2 m (4 ft) threshold. In 2016 at station W0930 (station depth=3 m) the Secchi depth measurements ranged from 2.2-3 m (n=2) indicating water clarity meeting the 1.2 m (4 ft) threshold. In 2017 at station W0930 (station depth=4 m) the Secchi depth measurements ranged from 1.2-2.4 m (n=4) indicating water clarity meeting the 1.2 m (4 ft) threshold. In 2018 at station W0930 (station depth=3.5 m) the Secchi depth measurements ranged from 1.4-2.5 m (n=4) indicating water clarity meeting the 1.2 m (4 ft) threshold. In 2019 at station W0930 (station depth=3.6 m) the Secchi depth measurements ranged from 1.1-1.74 m (n=4) with 1 measurement taken on Aug 14, 2019 that was less than the 1.2 m (4 ft) threshold. Analysis of microcystins samples from EPD in 2022 (n=3) and the DEP shoreline station W2450 in 2017 (n=1) indicated that the concentrations did not exceed the threshold of 8 µg/L.</p>

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for Monponsett Pond, East Basin (MA62218) continues to be assessed as Not Supporting. The prior Harmful Algal Blooms impairment is being carried forward based on extended C-HAB postings reported to MDPH in 2018. Since the Chlorophyll-a impairment is being removed from the Aesthetics Use this cycle, this impairment is also being removed from the Secondary Contact Recreation Use. Since the prior Alert identified for low Secchi depth transparency was removed from Primary Contact Recreation this Alert is being removed from the Secondary Contact Recreation Use. Central Plymouth County Water District Commission (CPCWDC) staff/volunteers collected <i>E. coli</i> bacteria samples in Monponsett Pond, East Basin at CPCWDC_EPD [Near Silver Lake Diversion Halifax] from Mar-Oct 2022 (n=3). The available <i>E. coli</i> data at CPCWDC_EPD too limited to assess the Secondary Contact Recreation Use according to the 2024 CALM. During the period 2015 through 2022, C-HAB postings for Monponsett Pond, East Basin (MDPH name East Monponsett Pond) were reported to MDPH based on visual observations for 14 days in 2017 and 48 days in 2018, and no blooms were reported in other years. Since extended blooms (>20 days in duration) were reported in a recent year(s), this is reflective of the existing Harmful Algal Blooms impairment for this AU. CPCWDC also collected cyanotoxins data in 2022 at CPCWDC_EPD and MassDEP collected cyanotoxins data in 2017 at W2450 [~15 feet from shore at boat ramp west off Route 36, Halifax]. Analysis of microcystins samples from CPCWDC_EPD in 2022 (n=3) and the DEP shoreline station W2450 in 2017 (n=1) indicated that the concentrations did not exceed the threshold of 8 µg/L.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
CPCWDC_EPD	Central Plymouth County Water District Commission	Water Quality	East Monponsett Pond	East Monponsett Pond Near Silver Lake Diversion - Halifax	41.999400	-70.830500

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

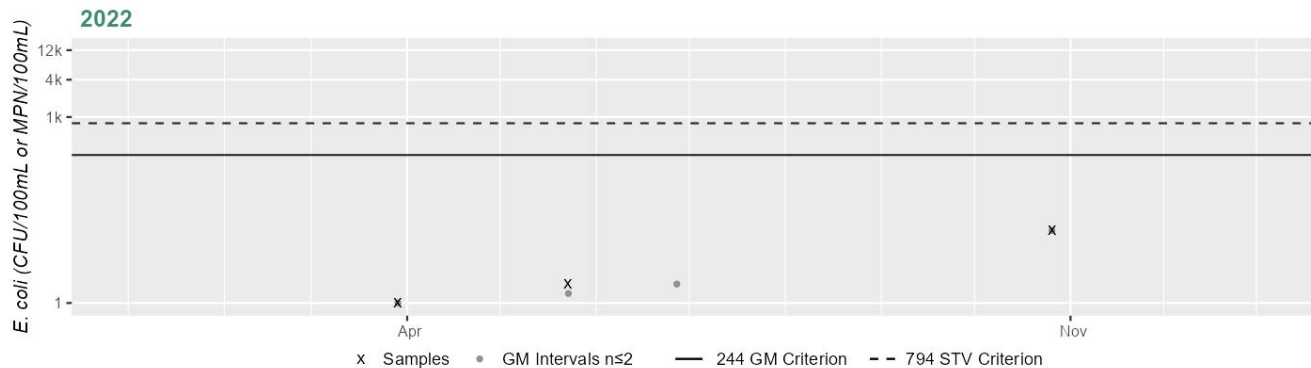
(CPCWDC 2023) (MassDEP Undated 2)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
CPCWDC_EPD	Central Plymouth County Water District Commission	E. coli	03/29/22	10/26/22	3	1	14	3

Station CPCWDC_EPD - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	3
SeasGM	3
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 Recent 5 Years may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Monponsett Pond, West Basin (MA62119)

Location:	[West Basin] Halifax/Hanson.
AU Type:	FRESHWATER LAKE
AU Size:	283 ACRES
Classification/Qualifier:	A: PWS, ORW

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	4a	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
5	4a	(Fanwort*)	--	Unchanged
5	4a	Chlorophyll-a	R1_MA_2022_01	Unchanged
5	4a	Harmful Algal Blooms	R1_MA_2022_01	Unchanged
5	4a	Mercury in Fish Tissue	33880	Changed
5	4a	Phosphorus, Total	R1_MA_2022_01	Unchanged
5	4a	Transparency / Clarity	R1_MA_2022_01	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Eurasian Water Milfoil, Myriophyllum Spicatum*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Chlorophyll-a	Agriculture (Y)	X	--	--	--	--
Chlorophyll-a	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--
Chlorophyll-a	Internal Nutrient Recycling (Y)	X	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Chlorophyll-a	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--
Harmful Algal Blooms	Agriculture (Y)	X	--	X	X	X
Harmful Algal Blooms	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	X	X	X
Harmful Algal Blooms	Internal Nutrient Recycling (Y)	X	--	X	X	X
Harmful Algal Blooms	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	X	X	X
Mercury in Fish Tissue	Atmospheric Deposition (Y)	--	X	--	--	--
Mercury in Fish Tissue	Source Unknown (N)	--	X	--	--	--
Phosphorus, Total	Agriculture (Y)	X	--	--	--	--
Phosphorus, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--
Phosphorus, Total	Internal Nutrient Recycling (Y)	X	--	--	--	--
Phosphorus, Total	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	--	--
Transparency / Clarity	Agriculture (Y)	X	--	--	X	--
Transparency / Clarity	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	X	--
Transparency / Clarity	Internal Nutrient Recycling (Y)	X	--	--	X	--
Transparency / Clarity	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	X	--	--	X	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Mercury in Fish Tissue	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Northeast Regional Mercury Total Maximum Daily Load (Report CN 376.0, approved 12/20/2007, ATTAINS Action ID: 33880)

Recommendations

2024/26 Recommendations
<p>2024/26 IR [Aesthetics, Medium] Since aesthetics conditions appeared to have been improving in 2018 and 2019 and minimal or no C-HABs were reported in 2018-2022 blooms should continue to be tracked in this Monponsett Pond, West Basin waterbody (MA62119) in case this impairment can be removed at a later date. Previously visited stations were: deep hole {W0926} and 2 shoreline stations {W2451} and {W2771}. This recommendation also applies to the Recreational Uses. In light of the Alert for “Algae” due to observations of dense and very dense algae, determinations of percent Algae coverage should also be prioritized for this AU at the deep hole station. This is a medium priority;</p> <p>2024/26 IR [Secchi, Medium] While the Secchi disk measurements in 2015 & 2016 for this Monponsett Pond, West Basin waterbody (MA62119) are indicative of a Transparency / Clarity impairment, water clarity conditions appeared to have been improving in 2017, 2018 and 2019, so it is recommended Secchi depth continue to be measured in this waterbody in case this impairment can be removed at a later date. This is a medium priority;</p>

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No

2024/26 Use Attainment Summary
<p>The Fish Consumption Use for Monponsett Pond, West Basin (MA62119) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. MDPH included a site-specific advisory for Monponsett Pond, West Basin (referred to by MDPH as "West Monponsett Pond") in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.</p>

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	YES

2024/26 Use Attainment Summary
<p>The Aesthetics Use for Monponsett Pond, West Basin (MA62119) will continue to be assessed as Not Supporting with the Harmful Algal Blooms impairment being carried forward since C-HAB postings were reported to MDPH in 2015, 2016 & 2017. Since the Transparency/Clarity impairment was redundantly duplicated across multiple uses for this waterbody, the Transparency/Clarity impairment is being removed from the Aesthetics Use but will continue to be maintained under the Primary Contact Recreation Use. Since the Chlorophyll-a impairment was redundantly duplicated across multiple uses for this waterbody, the Chlorophyll-a impairment is being removed from the Aesthetics Use but will continue to be maintained under the Aquatic Life Use. An Alert is being identified for Algae since dense and very dense Algae coverage was noted on eleven occasions between 2011 and 2016 by MassDEP field staff. Aesthetic observations were made by MassDEP field sampling crews in 2011-2019 at three stations in Halifax for this Monponsett Pond, West Basin AU as follows; at the deep hole, center of southern portion of west basin of pond (W0926 in 2011-2019, n=2-5/yr); ~15 feet from shore at boat ramp west off Rt. 58 (W2451 in 2013, 2016 & 2017 n=1/yr) and at Fourth Avenue beach (W2771 in 2017, n=1). At all three stations objectionable conditions were recorded on a regular basis during surveys completed in 2011-2017, including algal scum, green water color and moderately-high turbidity all of which are reflective of the existing impairments for this AU, with staff raising an aesthetics impairment flag twice in 2014 for this waterbody. Additionally, at W0926 dense algae (50-75% coverage) was observed on eight occasions and very dense algae (75-100% coverage) was observed on three occasions (over a time span between 2011 and 2016), which is indicative of an Alert status (though also may be reflective of the existing impairment). During the period 2015 through 2022, C-HAB postings for Monponsett Pond, West Basin (MDPH name West Monponsett Pond) were reported to MDPH based on cell count data for 160 days in 2015, 167 days in 2016, 74 days in 2017, 13 days in 2020 and no blooms were reported in other years. Since extended blooms (>20 days in duration) based on cell count data were reported for three years, this reflects the existing Harmful Algal Blooms impairment for Monponsett Pond, West Basin. However, since aesthetics conditions appeared to have been improving in 2018 and 2019 and minimal or no C-HABs were reported in 2018-2022 a recommendation will be made to continue to be track blooms in this waterbody in case this impairment can be removed at a later date.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0926	MassDEP	Water Quality	Monponsett Pond	[deep hole, center of southern portion of west basin of pond, Halifax]	42.004596	-70.845254
W2451	MassDEP	Water Quality	Monponsett Pond	[West Basin, approximately 15 feet from shore at boat ramp west off Route 58, Halifax]	42.006156	-70.841602

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2771	MassDEP	Water Quality	Monponsett Pond	[West Basin, Fourth Avenue beach, Halifax]	42.000404	-70.847846

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W0926	2011	3	Aesthetic observations were made by MassDEP field sampling crews at Station W0926 on Monponsett Pond, West Basin (MA62119) during 3 site visits between Jun 2011 and Aug 2011. There were some objectionable conditions recorded, including algal scum (n=2). Field staff also noted green water color (n=1) and high turbidity (n=1). These conditions are indicative of an Alert status.
W0926	2012	4	Aesthetic observations were made by MassDEP field sampling crews at Station W0926 on Monponsett Pond, West Basin (MA62119) during 4 site visits between Jun 2012 and Sep 2012. There were some objectionable conditions recorded, including green water color (n=4). Field staff also noted moderate turbidity (n=3). These conditions are indicative of an Alert status.
W0926	2013	3	Aesthetic observations were made by MassDEP field sampling crews at Station W0926 on Monponsett Pond, West Basin (MA62119) during 3 site visits between Jun 2013 and Aug 2013. There were some objectionable conditions recorded, including algal scum (n=2). Field staff also noted green water color (n=1) and moderate turbidity (n=3). These conditions are indicative of an Alert status.
W0926	2014	4	Aesthetic observations were made by MassDEP field sampling crews at Station W0926 on Monponsett Pond, West Basin (MA62119) during 4 site visits between Jun 2014 and Sep 2014. Field staff recorded the following objectionable conditions: high turbidity (n=3). Other objectionable conditions included an aesthetics impairment flag (n=2) and algal scum (n=2). Field staff also noted green water color (n=2). These observations are indicative of an Aesthetics Use impairment.
W0926	2015	5	Aesthetic observations were made by MassDEP field sampling crews at Station W0926 on Monponsett Pond, West Basin (MA62119) during 5 site visits between May 2015 and Sep 2015. There were some objectionable conditions recorded, including green water color (n=3). Field staff also noted moderate turbidity (n=3). These conditions are indicative of an Alert status.
W0926	2016	2	Aesthetic observations were made by MassDEP field sampling crews at Station W0926 on Monponsett Pond, West Basin (MA62119) during 2 site visits between Jun 2016 and Aug 2016. There were some objectionable conditions recorded, including high turbidity (n=2). Field staff also noted green water color (n=1). These conditions are indicative of an Alert status. However, aesthetic observations are limited (n<3).
W0926	2017	4	Aesthetic observations were made by MassDEP field sampling crews at Station W0926 on Monponsett Pond, West Basin (MA62119) during 4 site visits between Jun 2017 and Sep 2017. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted green water color (n=2) and moderate turbidity (n=4).

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W0926	2018	4	Aesthetic observations were made by MassDEP field sampling crews at Station W0926 on Monponsett Pond, West Basin (MA62119) during 4 site visits between Jun 2018 and Sep 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W0926	2019	4	Aesthetic observations were made by MassDEP field sampling crews at Station W0926 on Monponsett Pond, West Basin (MA62119) during 4 site visits between Jun 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2451	2013	1	Aesthetic observations were made by MassDEP field sampling crews at Station W2451 on Monponsett Pond, West Basin (MA62119) during 1 site visit on Nov 14, 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted green water color (n=1). However, aesthetic observations are limited (n<3).
W2451	2016	1	Aesthetic observations were made by MassDEP field sampling crews at Station W2451 on Monponsett Pond, West Basin (MA62119) during 1 site visit on Jul 14, 2016. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted high turbidity (n=1). However, aesthetic observations are limited (n<3).
W2451	2017	1	Aesthetic observations were made by MassDEP field sampling crews at Station W2451 on Monponsett Pond, West Basin (MA62119) during 1 site visit on Sep 05, 2017. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted an aesthetics impairment flag (n=1). However, aesthetic observations are limited (n<3).
W2771	2017	1	Aesthetic observations were made by MassDEP field sampling crews at Station W2771 on Monponsett Pond, West Basin (MA62119) during 1 site visit on Sep 05, 2017. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted an aesthetics impairment flag (n=1) and high turbidity (n=1). However, aesthetic observations are limited (n<3).

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0926	Monponsett Pond, West Basin	2011	Aquatic Plant Density, Overall	None	2	3
W0926	Monponsett Pond, West Basin	2011	Aquatic Plant Density, Overall	NR	1	3
W0926	Monponsett Pond, West Basin	2011	Aquatic Plant Density, Whole Lake	NR	1	3
W0926	Monponsett Pond, West Basin	2011	Aquatic Plant Density, Whole Lake	Sparse	1	3
W0926	Monponsett Pond, West Basin	2011	Aquatic Plant Density, Whole Lake	Unobservable	1	3

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0926	Monponsett Pond, West Basin	2011	Color	Brownish	1	3
W0926	Monponsett Pond, West Basin	2011	Color	Greenish	1	3
W0926	Monponsett Pond, West Basin	2011	Color	NR	1	3
W0926	Monponsett Pond, West Basin	2011	Duckweed Density, Whole Lake	None	1	3
W0926	Monponsett Pond, West Basin	2011	Duckweed Density, Whole Lake	NR	1	3
W0926	Monponsett Pond, West Basin	2011	Duckweed Density, Whole Lake	Sparse	1	3
W0926	Monponsett Pond, West Basin	2011	Objectionable Deposits	No	2	3
W0926	Monponsett Pond, West Basin	2011	Objectionable Deposits	Yes	1	3
W0926	Monponsett Pond, West Basin	2011	Odor	None	2	3
W0926	Monponsett Pond, West Basin	2011	Odor	NR	1	3
W0926	Monponsett Pond, West Basin	2011	Scum	No	1	3
W0926	Monponsett Pond, West Basin	2011	Scum	Yes	2	3
W0926	Monponsett Pond, West Basin	2011	Turbidity	Highly Turbid	1	3
W0926	Monponsett Pond, West Basin	2011	Turbidity	Moderately Turbid	1	3
W0926	Monponsett Pond, West Basin	2011	Turbidity	NR	1	3
W0926	Monponsett Pond, West Basin	2012	Aquatic Plant Density, Overall	None	2	4
W0926	Monponsett Pond, West Basin	2012	Aquatic Plant Density, Overall	NR	2	4
W0926	Monponsett Pond, West Basin	2012	Aquatic Plant Density, Whole Lake	Sparse	4	4
W0926	Monponsett Pond, West Basin	2012	Color	Greenish	4	4
W0926	Monponsett Pond, West Basin	2012	Duckweed Density, Whole Lake	None	3	4
W0926	Monponsett Pond, West Basin	2012	Duckweed Density, Whole Lake	Sparse	1	4
W0926	Monponsett Pond, West Basin	2012	Objectionable Deposits	No	4	4

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0926	Monponsett Pond, West Basin	2012	Odor	None	4	4
W0926	Monponsett Pond, West Basin	2012	Scum	No	2	4
W0926	Monponsett Pond, West Basin	2012	Scum	Yes	2	4
W0926	Monponsett Pond, West Basin	2012	Turbidity	Moderately Turbid	3	4
W0926	Monponsett Pond, West Basin	2012	Turbidity	Slightly Turbid	1	4
W0926	Monponsett Pond, West Basin	2013	Aesthetics Impaired?	No	3	3
W0926	Monponsett Pond, West Basin	2013	Aquatic Plant Density, Overall	None	3	3
W0926	Monponsett Pond, West Basin	2013	Aquatic Plant Density, Whole Lake	Sparse	3	3
W0926	Monponsett Pond, West Basin	2013	Color	Brownish	2	3
W0926	Monponsett Pond, West Basin	2013	Color	Greenish	1	3
W0926	Monponsett Pond, West Basin	2013	Duckweed Density, Whole Lake	None	1	3
W0926	Monponsett Pond, West Basin	2013	Duckweed Density, Whole Lake	Sparse	2	3
W0926	Monponsett Pond, West Basin	2013	Objectionable Deposits	No	3	3
W0926	Monponsett Pond, West Basin	2013	Odor	None	3	3
W0926	Monponsett Pond, West Basin	2013	Scum	No	1	3
W0926	Monponsett Pond, West Basin	2013	Scum	Yes	2	3
W0926	Monponsett Pond, West Basin	2013	Turbidity	Moderately Turbid	3	3
W0926	Monponsett Pond, West Basin	2014	Aesthetics Impaired?	No	1	4
W0926	Monponsett Pond, West Basin	2014	Aesthetics Impaired?	NR	1	4
W0926	Monponsett Pond, West Basin	2014	Aesthetics Impaired?	Yes	2	4
W0926	Monponsett Pond, West Basin	2014	Aquatic Plant Density, Overall	None	4	4
W0926	Monponsett Pond, West Basin	2014	Aquatic Plant Density, Whole Lake	Sparse	4	4

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0926	Monponsett Pond, West Basin	2014	Color	Brownish	2	4
W0926	Monponsett Pond, West Basin	2014	Color	Greenish	2	4
W0926	Monponsett Pond, West Basin	2014	Duckweed Density, Whole Lake	None	4	4
W0926	Monponsett Pond, West Basin	2014	Objectionable Deposits	No	4	4
W0926	Monponsett Pond, West Basin	2014	Odor	None	4	4
W0926	Monponsett Pond, West Basin	2014	Scum	No	1	4
W0926	Monponsett Pond, West Basin	2014	Scum	Yes	3	4
W0926	Monponsett Pond, West Basin	2014	Turbidity	Highly Turbid	3	4
W0926	Monponsett Pond, West Basin	2014	Turbidity	Moderately Turbid	1	4
W0926	Monponsett Pond, West Basin	2015	Aesthetics Impaired?	No	5	5
W0926	Monponsett Pond, West Basin	2015	Aquatic Plant Density, Overall	None	4	5
W0926	Monponsett Pond, West Basin	2015	Aquatic Plant Density, Overall	NR	1	5
W0926	Monponsett Pond, West Basin	2015	Aquatic Plant Density, Whole Lake	NR	1	5
W0926	Monponsett Pond, West Basin	2015	Aquatic Plant Density, Whole Lake	Sparse	4	5
W0926	Monponsett Pond, West Basin	2015	Color	Greenish	3	5
W0926	Monponsett Pond, West Basin	2015	Color	Light Yellow/Tan	2	5
W0926	Monponsett Pond, West Basin	2015	Duckweed Density, Whole Lake	None	4	5
W0926	Monponsett Pond, West Basin	2015	Duckweed Density, Whole Lake	NR	1	5
W0926	Monponsett Pond, West Basin	2015	Objectionable Deposits	No	5	5
W0926	Monponsett Pond, West Basin	2015	Odor	None	4	5
W0926	Monponsett Pond, West Basin	2015	Odor	Other (Algae)	1	5
W0926	Monponsett Pond, West Basin	2015	Scum	No	5	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0926	Monponsett Pond, West Basin	2015	Turbidity	Moderately Turbid	3	5
W0926	Monponsett Pond, West Basin	2015	Turbidity	None	1	5
W0926	Monponsett Pond, West Basin	2015	Turbidity	Slightly Turbid	1	5
W0926	Monponsett Pond, West Basin	2016	Aesthetics Impaired?	No	2	2
W0926	Monponsett Pond, West Basin	2016	Aquatic Plant Density, Overall	None	1	2
W0926	Monponsett Pond, West Basin	2016	Aquatic Plant Density, Overall	NR	1	2
W0926	Monponsett Pond, West Basin	2016	Color	Greenish	1	2
W0926	Monponsett Pond, West Basin	2016	Color	Light Yellow/Tan	1	2
W0926	Monponsett Pond, West Basin	2016	Objectionable Deposits	No	2	2
W0926	Monponsett Pond, West Basin	2016	Odor	None	2	2
W0926	Monponsett Pond, West Basin	2016	Scum	No	1	2
W0926	Monponsett Pond, West Basin	2016	Scum	Yes	1	2
W0926	Monponsett Pond, West Basin	2016	Turbidity	Highly Turbid	2	2
W0926	Monponsett Pond, West Basin	2017	Aesthetics Impaired?	No	4	4
W0926	Monponsett Pond, West Basin	2017	Aquatic Plant Density, Overall	NR	4	4
W0926	Monponsett Pond, West Basin	2017	Color	Greenish	2	4
W0926	Monponsett Pond, West Basin	2017	Color	Light Yellow/Tan	2	4
W0926	Monponsett Pond, West Basin	2017	Objectionable Deposits	No	4	4
W0926	Monponsett Pond, West Basin	2017	Odor	None	4	4
W0926	Monponsett Pond, West Basin	2017	Scum	No	4	4
W0926	Monponsett Pond, West Basin	2017	Turbidity	Moderately Turbid	4	4
W0926	Monponsett Pond, West Basin	2018	Aesthetics Impaired?	No	4	4

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0926	Monponsett Pond, West Basin	2018	Aquatic Plant Density, Overall	None	2	4
W0926	Monponsett Pond, West Basin	2018	Aquatic Plant Density, Overall	Unobservable	2	4
W0926	Monponsett Pond, West Basin	2018	Aquatic Plant Density, Whole Lake	None	1	1
W0926	Monponsett Pond, West Basin	2018	Color	Light Yellow/Tan	4	4
W0926	Monponsett Pond, West Basin	2018	Duckweed Density, Whole Lake	None	1	1
W0926	Monponsett Pond, West Basin	2018	Objectionable Deposits	No	4	4
W0926	Monponsett Pond, West Basin	2018	Odor	None	4	4
W0926	Monponsett Pond, West Basin	2018	Scum	No	3	4
W0926	Monponsett Pond, West Basin	2018	Scum	Yes	1	4
W0926	Monponsett Pond, West Basin	2018	Turbidity	Moderately Turbid	1	4
W0926	Monponsett Pond, West Basin	2018	Turbidity	Slightly Turbid	3	4
W0926	Monponsett Pond, West Basin	2019	Aesthetics Impaired?	No	4	4
W0926	Monponsett Pond, West Basin	2019	Aquatic Plant Density, Overall	NR	3	4
W0926	Monponsett Pond, West Basin	2019	Aquatic Plant Density, Overall	Unobservable	1	4
W0926	Monponsett Pond, West Basin	2019	Color	Brownish	1	4
W0926	Monponsett Pond, West Basin	2019	Color	Light Yellow/Tan	3	4
W0926	Monponsett Pond, West Basin	2019	Objectionable Deposits	No	3	4
W0926	Monponsett Pond, West Basin	2019	Objectionable Deposits	Yes	1	4
W0926	Monponsett Pond, West Basin	2019	Odor	None	4	4
W0926	Monponsett Pond, West Basin	2019	Scum	No	2	4
W0926	Monponsett Pond, West Basin	2019	Scum	Yes	2	4
W0926	Monponsett Pond, West Basin	2019	Turbidity	Slightly Turbid	4	4

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2451	Monponsett Pond, West Basin	2013	Aesthetics Impaired?	No	1	1
W2451	Monponsett Pond, West Basin	2013	Aquatic Plant Density, Overall	None	1	1
W2451	Monponsett Pond, West Basin	2013	Aquatic Plant Density, Whole Lake	Unobservable	1	1
W2451	Monponsett Pond, West Basin	2013	Color	Greenish	1	1
W2451	Monponsett Pond, West Basin	2013	Duckweed Density, Whole Lake	NR	1	1
W2451	Monponsett Pond, West Basin	2013	Objectionable Deposits	Yes	1	1
W2451	Monponsett Pond, West Basin	2013	Odor	None	1	1
W2451	Monponsett Pond, West Basin	2013	Scum	No	1	1
W2451	Monponsett Pond, West Basin	2013	Turbidity	Moderately Turbid	1	1
W2451	Monponsett Pond, West Basin	2016	Aesthetics Impaired?	No	1	1
W2451	Monponsett Pond, West Basin	2016	Aquatic Plant Density, Overall	NR	1	1
W2451	Monponsett Pond, West Basin	2016	Color	Light Yellow/Tan	1	1
W2451	Monponsett Pond, West Basin	2016	Objectionable Deposits	No	1	1
W2451	Monponsett Pond, West Basin	2016	Odor	None	1	1
W2451	Monponsett Pond, West Basin	2016	Scum	No	1	1
W2451	Monponsett Pond, West Basin	2016	Turbidity	Highly Turbid	1	1
W2451	Monponsett Pond, West Basin	2017	Aesthetics Impaired?	Yes	1	1
W2451	Monponsett Pond, West Basin	2017	Color	Yellowish	1	1
W2451	Monponsett Pond, West Basin	2017	Objectionable Deposits	No	1	1
W2451	Monponsett Pond, West Basin	2017	Odor	None	1	1
W2451	Monponsett Pond, West Basin	2017	Scum	No	1	1
W2451	Monponsett Pond, West Basin	2017	Turbidity	Moderately Turbid	1	1

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2771	Monponsett Pond, West Basin	2017	Aesthetics Impaired?	Yes	1	1
W2771	Monponsett Pond, West Basin	2017	Color	Yellowish	1	1
W2771	Monponsett Pond, West Basin	2017	Objectionable Deposits	No	1	1
W2771	Monponsett Pond, West Basin	2017	Odor	None	1	1
W2771	Monponsett Pond, West Basin	2017	Scum	No	1	1
W2771	Monponsett Pond, West Basin	2017	Turbidity	Highly Turbid	1	1

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Monponsett Pond, West Basin (MDPH name West Monponsett Pond) (MA62119) were reported to MDPH based on cell count data for 160 days in 2015, 167 days in 2016, 74 days in 2017, and 13 days in 2020. No blooms were reported in other years. Since extended blooms (>20 days in duration) based on cell count data were reported in recent years, the Aesthetics Use and Primary/Secondary Contact Recreational Uses continue to be assessed as Not Supporting.

Cyanobacteria Harmful Algal Bloom (C-HAB) Data (2015-2022) Provided by MDPH (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

Waterbody	Town	Bloom Days, 2015	Bloom Days, 2016	Bloom Days, 2017	Bloom Days, 2018	Bloom Days, 2019	Bloom Days, 2020	Bloom Days, 2021	Bloom Days, 2022
West Monponsett Pond	Halifax, Hanson	160	167	74			13		

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Monponsett Pond, West Basin (MA62119) continues to be assessed as Not Supporting. The prior Harmful Algal Blooms impairment is being carried forward based on extended C-HAB postings reported to MDPH in 2015, 2016 & 2017, and the Transparency / Clarity impairment is being carried forward based on Secchi depth data not meeting the threshold at 1 station in 2015 & 2016. Since the Chlorophyll-a impairment is being removed from the Aesthetics Use this cycle, this impairment is also being removed from the Primary Contact Recreation Use. During the period 2015 through 2022, C-HAB postings for Monponsett Pond, West Basin (MDPH name West Monponsett Pond) were reported to MDPH based on cell count data for 160 days in 2015, 167 days in 2016, 74 days in 2017, and 13 days in 2020, and no blooms were reported in other years. Since extended blooms (>20 days in duration) based on cell count data were reported during three years, this is reflective of the existing Harmful Algal Blooms impairment for the AU. However, since minimal or no C-HABs were reported in 2018-2022 a recommendation will be made to continue to track blooms in this waterbody in case this impairment can be removed at a later date. MassDEP also collected Secchi depth data in 2011-2019 at W0926 [deep hole, center of southern portion of west basin of pond, Halifax] as well as in 2016 at W2451 [~15 feet from shore at boat ramp west off Route 58, Halifax] and cyanotoxins data in 2017 at W2451 and W2771 [Fourth Avenue beach, Halifax]. The most recent five years of data with ≥ 2 Secchi depth measurements were used for assessment as follows: In 2015 at the deep hole station W0926 (station depth=4.1 m) the Secchi depth ranged from 0.7-1.75 m (n=5) with 2 measurements in Aug and Sep that were less than the 1.2 m (4 ft) threshold. Then in 2016 at station W0926 (station depth=4 m) the Secchi depth ranged from 0.5-0.8 m (n=2) with 2 measurements in Jun and Aug that were less than the 1.2 m (4 ft) threshold. In 2016 at the Rt 58 boat ramp station W2451, Secchi depth data were too limited (n < 3) to evaluate water clarity (n=1, 0.5m). Then in later years, Secchi depth data at station W0926 (station depth range= 3.7-3.8 m) indicated water clarity meeting the 1.2m (4ft) threshold in 2017 (n=4, 1.3-2.1m), 2018 (n=4, 1.6-3.6m), and 2019 (n=4, 2.3-3.4m). Overall, while the Secchi depth measurements in 2015 & 2016 are indicative of a Transparency / Clarity impairment due to conditions at station W0926 in 2015 & 2016, the data indicates that water clarity conditions appeared to have been improving in 2017, 2018 and 2019. A recommendation will be made to continue to measure Secchi depth in this waterbody in case this impairment can be removed at a later date. Analysis of microcystins samples from W2451 and the Fourth Avenue beach station W2771 in 2017 (n=2) indicated that the concentrations did not exceed the threshold of 8 $\mu\text{g/L}$.

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data
(MassDEP Undated 9) (MassDEP Undated 5) (MassDEP Undated 3)

Data Year(s)	Summary
2011-2019	<p>In Monponsett Pond, West Basin (MA62119), MassDEP collected Secchi data at W0926 [42.004596, -70.845254, deep hole, center of southern portion of west basin of pond, Halifax] from 2011 through 2019 and at W2451 [42.006156, -70.841602, West Basin, approximately 15 feet from shore at boat ramp west off Route 58, Halifax] in 2016. In 2017, DEP staff collected cyanotoxin data at W2451 and at W2771 [42.006156, -70.841602, West Basin, approximately 15 feet from shore at boat ramp west off Route 58, Halifax]. The most recent five years of data with ≥ 2 Secchi measurements were used for assessment. In 2015 at station W0926 (station depth=4.1 m) the Secchi depth measurements ranged from 0.7-1.75 m (n=5) with 2 measurements in Aug and Sep that were less than the 1.2 m (4 ft) threshold. In 2016 at station W0926 (station depth=4 m) the Secchi depth measurements ranged from 0.5-0.8 m (n=2) with 2 measurements in Jun and Aug that were less than the 1.2 m (4 ft) threshold. In 2017 at station W0926 (station depth=3.8 m) the Secchi depth measurements ranged from 1.3-2.1 m (n=4) indicating water clarity meeting the 1.2 m (4 ft) threshold. In 2018 at station W0926 (station depth=3.7 m) the Secchi depth measurements ranged from 1.6-3.6 m (n=4) indicating water clarity meeting the 1.2 m (4 ft) threshold. In 2019 at station W0926 (station depth=3.7 m) the Secchi depth measurements ranged from 2.3-3.4 m (n=4) indicating water clarity meeting the 1.2 m (4 ft) threshold. In 2016 at the Rt 58 boat ramp station W2451 (station depth=not recorded) the Secchi depth (n=1) was measured to be 0.5 m on Jul 14, 2016. There was insufficient information to assess water clarity without a recorded station depth. The Secchi depth measurements are indicative of a Transparency / Clarity impairment due to conditions at W0926. Analysis of microcystins samples from W2451 and and the Fourth Avenue beach station W2771 in 2017 (n=2) indicated that the concentrations did not exceed the threshold of 8 $\mu\text{g/L}$.</p>

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	

The Secondary Contact Recreation Use for Monponsett Pond, West Basin (MA62119) continues to be assessed as Not Supporting. The prior Harmful Algal Blooms impairment is being carried forward based on extended C-HAB postings reported to MDPH in 2015, 2016 & 2017. Since the Chlorophyll-a impairment is being removed from the Aesthetics Use this cycle, this impairment is also being removed from the Secondary Contact Recreation Use. Since the Transparency/Clarity impairment was redundantly duplicated across multiple uses for this waterbody, the Transparency/Clarity impairment is being removed from the Secondary Contact Recreation Use but will continue to be maintained under the Primary Contact Recreation Use. During the period 2015 through 2022, C-HAB postings for Monponsett Pond, West Basin (MDPH name West Monponsett Pond) were reported to MDPH based on cell count data for 160 days in 2015, 167 days in 2016, 74 days in 2017, and 13 days in 2020, and no blooms were reported in other years. Since extended blooms (>20 days in duration) based on cell count data were reported during three years, this is reflective of the existing Harmful Algal Blooms impairment for the AU. However, since minimal or no C-HABs were reported in 2018-2022 a recommendation will be made to continue to track blooms in this waterbody in case this impairment can be removed at a later date. MassDEP also collected cyanotoxins data in 2017 at W2451 [~15 feet from shore at boat ramp west off Rt 58, Halifax] and W2771 [Fourth Avenue beach, Halifax]. Analysis of microcystins samples from W2451 and W2771 in 2017 (n=2) indicated that the concentrations did not exceed the threshold of 8 µg/L.

Mount Hope Mill Pond (MA62122)

Location:	Taunton/Dighton (formerly part of 2014 segment: Three Mile River MA62-56 [MA62-16 (2004)]) (portion formerly reported as 2004 lake segment: Three Mile River Impoundment MA62231).
AU Type:	FRESHWATER LAKE
AU Size:	45 ACRES
Classification/Qualifier:	B: WWF

No usable data were available for Mount Hope Mill Pond (MA62122) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fanwort*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Muddy Cove Brook (MA62-51)

Location:	From the outlet of the small impoundment behind 333 Main Street (Zeneca Inc.), Dighton to mouth at confluence with the Taunton River, Dighton (formerly part of 2004 segment: Muddy Cove Brook MA62-23).
AU Type:	ESTUARY
AU Size:	0.01 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	(Fish Passage Barrier*)	--	Unchanged
4a	4a	Fecal Coliform	40309	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--	--
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--

Recommendations

2024/26 Recommendations
2022IR [Bacteria, Low] Conduct sufficient <i>Enterococci</i> sampling to evaluate the status of the Primary and Secondary Contact Recreation Uses for Muddy Cove Brook (MA62-51). The SERO BST project in 2011-2013 reported intermittently elevated <i>E. coli</i> concentrations at Country Street, Dighton {W2305}. This is of low priority;

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
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Not Assessed	No
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2024/26 Use Attainment Summary

Fish toxics sampling has not been conducted, so the Fish Consumption Use for Muddy Cove Brook (MA62-51) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

Muddy Cove Brook (MA62-51): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0056 sq mi (70%). The approved shellfish growing area represents 0 sq mi (0%). The prohibited shellfish growing area represents 0.0056 sq mi (70%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as either entirely prohibited or a combination of approved and prohibited. There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use is evaluated as Not Supporting.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
MHB2.1	Taunton River	Prohibited	0.00555	69.7%

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Muddy Cove Brook (MA62-51) is assessed as Fully Supporting based on the general lack of objectionable conditions noted by MassDEP staff during the summers of 2011 to 2013. MassDEP staff recorded aesthetics observations at one station halfway down this Muddy Cove Brook AU at County Street (Rt. 138) in Dighton (W2305) during the summers of 2011, 2012, and 2013 as part of the MassDEP Bacteria Source Tracking (BST) project (n=6 total). There were generally no notable objectionable conditions (odors, deposits, growths, or turbidity) recorded by field sampling crews during any of the surveys.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2305	MassDEP	Water Quality	Muddy Cove Brook	[County Street (Route 138), Dighton]	41.811828	-71.121696

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2305	2011	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2305 on Muddy Cove Brook (MA62-51) during 2 site visits between Jul 2011 and Aug 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2305	2012	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2305 on Muddy Cove Brook (MA62-51) during 2 site visits between Jul 2012 and Sep 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2305	2013	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2305 on Muddy Cove Brook (MA62-51) during 2 site visits between Jul 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2305	2011	2	2	0
W2305	2012	2	2	0
W2305	2013	2	2	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2305	Muddy Cove Brook	2011	Aquatic Plant Density, Overall	None	1	2
W2305	Muddy Cove Brook	2011	Aquatic Plant Density, Overall	Sparse	1	2
W2305	Muddy Cove Brook	2011	Color	None	2	2
W2305	Muddy Cove Brook	2011	Odor	None	1	2

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2305	Muddy Cove Brook	2011	Odor	Other (Wetland/Marsh)	1	2
W2305	Muddy Cove Brook	2011	Periphyton Density, Filamentous	None	2	2
W2305	Muddy Cove Brook	2011	Periphyton Density, Film	Moderate	2	2
W2305	Muddy Cove Brook	2011	Turbidity	Moderately Turbid	1	2
W2305	Muddy Cove Brook	2011	Turbidity	Slightly Turbid	1	2
W2305	Muddy Cove Brook	2012	Aquatic Plant Density, Overall	None	2	2
W2305	Muddy Cove Brook	2012	Color	Brownish	1	2
W2305	Muddy Cove Brook	2012	Color	None	1	2
W2305	Muddy Cove Brook	2012	Odor	None	2	2
W2305	Muddy Cove Brook	2012	Periphyton Density, Filamentous	None	2	2
W2305	Muddy Cove Brook	2012	Periphyton Density, Film	Moderate	1	2
W2305	Muddy Cove Brook	2012	Periphyton Density, Film	Sparse	1	2
W2305	Muddy Cove Brook	2012	Turbidity	Moderately Turbid	1	2
W2305	Muddy Cove Brook	2012	Turbidity	Slightly Turbid	1	2
W2305	Muddy Cove Brook	2013	Aquatic Plant Density, Overall	None	1	2
W2305	Muddy Cove Brook	2013	Aquatic Plant Density, Overall	Sparse	1	2
W2305	Muddy Cove Brook	2013	Color	Light Yellow/Tan	1	2
W2305	Muddy Cove Brook	2013	Color	None	1	2
W2305	Muddy Cove Brook	2013	Odor	None	2	2
W2305	Muddy Cove Brook	2013	Periphyton Density, Filamentous	None	2	2
W2305	Muddy Cove Brook	2013	Periphyton Density, Film	Moderate	1	2
W2305	Muddy Cove Brook	2013	Periphyton Density, Film	Sparse	1	2

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2305	Muddy Cove Brook	2013	Turbidity	Moderately Turbid	1	2
W2305	Muddy Cove Brook	2013	Turbidity	Slightly Turbid	1	2

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
<p>No <i>Enterococcus</i> data are available to assess the Primary Contact Recreation Use for Muddy Cove Brook (MA62-51) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. The Alert previously identified for <i>E. coli</i> bacteria is being removed, since <i>Enterococcus</i> is the bacteria indicator for this estuarine AU and no <i>Enterococcus</i> data was available. However, a recommendation for additional monitoring is being made due to high <i>E. coli</i> concentrations documented in the brook between 2011 and 2013. The shellfish growing areas (0.0055 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), so these data was too limited to assess the Primary Contact Recreation Use based on shellfish classification data. Limited MassDEP Bacteria Source Tracking (BST) work was conducted on this Muddy Cove Brook AU between 2011 and 2013. The maximum dry weather <i>E. coli</i> concentration was reported to be 1,733 MPN/100mL at the County St sampling location, though other intermittently elevated concentrations were also documented at this location (i.e. >2,419.6 MPN/100mL in 2012). Despite the incidence of intermittently elevated bacteria concentrations, detergent concentrations at County St were low and no correctable source of bacteria was ever found. It should also be noted that the abandoned "Zeneca" property (located between County St and Elm St) was ruled out as source of bacteria to the brook. Additional sampling for <i>Enterococcus</i> is recommended based on the elevated <i>E. coli</i> bacteria levels observed during the BST project.</p>

Bacteria Data

Summary Statement for 2011-2019 MassDEP Bacteria Source Tracking (BST) Data (MassDEP Undated 1)

Summary
<p>BST work was conducted in 2011-2013 on the Muddy Cove Brook AU (MA62-51), with a max dry weather <i>E. coli</i> concentration of 1,733MPN at County St., though other intermittently elevated concentrations were also documented at this location (i.e. >2,419.6 MPN/100mL in 2012). Despite the incidence of intermittently elevated bacteria concentrations, detergent concentrations at County St were low and no correctable source was ever found. It should be noted that the abandoned "Zeneca" property (located between County Street and Elm Street) was ruled out as source of bacteria to the brook.</p>

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Muddy Cove Brook (MA62-51): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0056 sq mi (70%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No <i>Enterococcus</i> data are available to assess the Secondary Contact Recreation Use for Muddy Cove Brook (MA62-51), and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. The Alert previously identified for <i>E. coli</i> bacteria is being removed, since <i>Enterococcus</i> is the bacteria indicator for this estuarine AU and no <i>Enterococcus</i> data was available. However, a recommendation for additional monitoring is being made due to high <i>E. coli</i> concentrations documented in the brook between 2011 and 2013. The shellfish growing areas (0.0055 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), so these data was too limited to assess the Secondary Contact Recreation Use based on shellfish classification data. Limited MassDEP Bacteria Source Tracking (BST) work was conducted on this Muddy Cove Brook AU between 2011 and 2013. The maximum dry weather <i>E. coli</i> concentration was reported to be 1,733 MPN/100mL at the County St sampling location, though other intermittently elevated concentrations were also documented at this location (i.e. >2,419.6 MPN/100mL in 2012). Despite the incidence of intermittently elevated bacteria concentrations, detergent concentrations at County St were low and no correctable source of bacteria was ever found. It should also be noted that the abandoned “Zeneca” property (located between County St and Elm St) was ruled out as source of bacteria to the brook.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

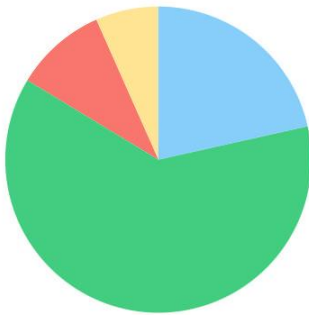
Summary
Muddy Cove Brook (MA62-51): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0056 sq mi (70%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Muddy Cove Brook (MA62-58)

Location:	Headwaters, south of Hart Street, Dighton to inlet Muddy Cove Brook Pond, Dighton (formerly part of 2014 segment: Muddy Cove Brook MA62-52 [MA62-23 (2004)]).
AU Type:	RIVER
AU Size:	1.4 MILES
Classification/Qualifier:	B

Muddy Cove Brook (MA62-58)

Watershed Area: 2.51 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	2.51	2.51	0.59	0.59
Agriculture	6.6%	6.6%	6.6%	6.6%
Developed	9.7%	9.7%	3.5%	3.5%
Natural	62.2%	62.2%	54.2%	54.2%
Wetland	21.5%	21.5%	35.7%	35.7%
Impervious	2.9%	2.9%	1.2%	1.2%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Muddy Cove Brook (MA62-58) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

There is insufficient information to assess the Aesthetics Use for Muddy Cove Brook (MA62-58). MassDEP staff recorded aesthetics observations at one station at the downstream end of this Muddy Cove Brook AU, at Main Street, Dighton (W2303), during the summer of 2011 as part of the MassDEP Bacteria Source Tracking Project (n=2). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded during the surveys, however, there are only limited data available.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2303	MassDEP	Water Quality	Muddy Cove Brook	[Main Street, Dighton]	41.816655	-71.134253

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2303	2011	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2303 on Muddy Cove Brook (MA62-58) during 2 site visits between Jul 2011 and Aug 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2303	2011	2	2	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2303	Muddy Cove Brook	2011	Aquatic Plant Density, Overall	Dense	1	2

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2303	Muddy Cove Brook	2011	Aquatic Plant Density, Overall	Moderate	1	2
W2303	Muddy Cove Brook	2011	Color	None	2	2
W2303	Muddy Cove Brook	2011	Odor	None	2	2
W2303	Muddy Cove Brook	2011	Periphyton Density, Filamentous	Moderate	1	2
W2303	Muddy Cove Brook	2011	Periphyton Density, Filamentous	None	1	2
W2303	Muddy Cove Brook	2011	Periphyton Density, Film	None	1	2
W2303	Muddy Cove Brook	2011	Periphyton Density, Film	Sparse	1	2
W2303	Muddy Cove Brook	2011	Turbidity	Slightly Turbid	2	2

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
<p>Too limited bacteria data are available to assess the Primary Contact Recreation Use for Muddy Cove Brook (MA62-58) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected <i>E. coli</i> bacteria samples at the downstream end of this Muddy Cove Brook AU, at W2303 [Main St, Dighton] from Jul-Aug 2011 (n=2) as part of the MassDEP Bacteria Source Tracking Project. Though the maximum <i>E. coli</i> concentration at this station was 512 CFU/100ml, the available data at W2303 are too limited to assess according to the 2024 CALM.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2303	MassDEP	Water Quality	Muddy Cove Brook	[Main Street, Dighton]	41.816655	-71.134253

Bacteria Data

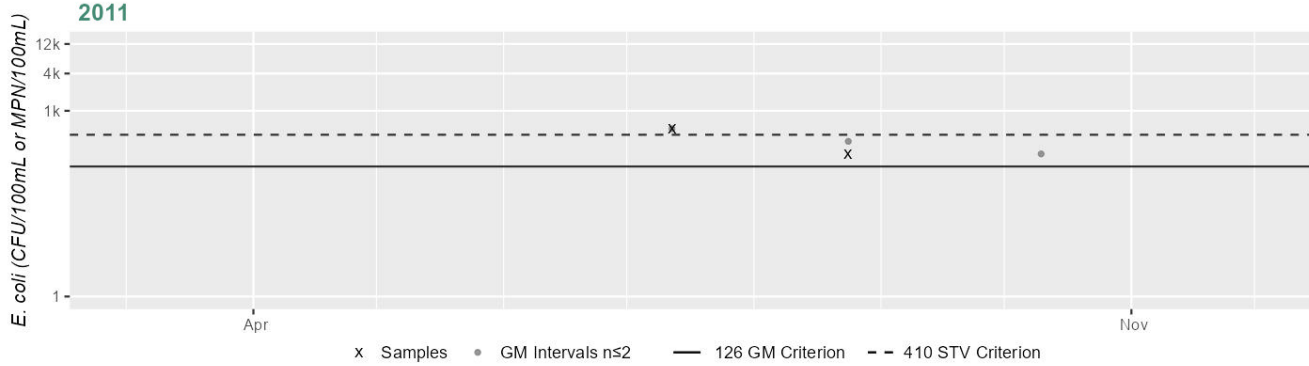
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2303	MassDEP	E. coli	07/12/11	08/24/11	2	201	512	320

Station MASSDEP_W2303 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	320
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Summary Statement for 2011-2019 MassDEP Bacteria Source Tracking (BST) Data (MassDEP Undated 1)

Summary
A small amount of BST work was conducted in 2011 (N=2) on the Muddy Cove Brook AU (MA62-58), as part of a BST sampling effort in the Muddy Cove Brook AU downstream. A max dry weather <i>E. coli</i> concentration of 512MPN was observed at Main Street, Dighton.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

Too limited bacteria data are available to assess the Secondary Contact Recreation Use for Muddy Cove Brook (MA62-58) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected *E. coli* bacteria samples at the downstream end of this Muddy Cove Brook AU at station W2303 [Main St, Dighton] from Jul-Aug 2011 (n=2). Though the maximum *E. coli* concentration at this station was 512 CFU/100ml, the available data at W2303 are too limited to assess according to the 2024 CALM.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2303	MassDEP	Water Quality	Muddy Cove Brook	[Main Street, Dighton]	41.816655	-71.134253

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

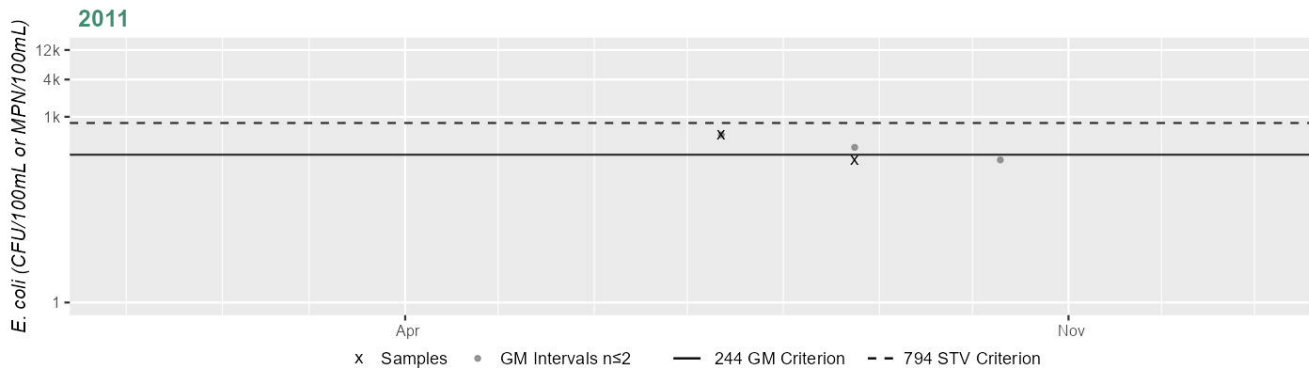
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2303	MassDEP	E. coli	07/12/11	08/24/11	2	201	512	320

Station MASSDEP_W2303 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	320
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

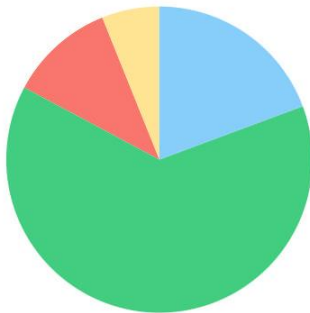
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Muddy Cove Brook (MA62-59)

Location:	From outlet Muddy Cove Brook Pond, Dighton to outlet of small impoundment behind 333 Main Street (Zeneca Inc.), Dighton (formerly part of 2014 segment: Muddy Cove Brook MA62-52 [MA62-23 (2004)]).
AU Type:	RIVER
AU Size:	0.2 MILES
Classification/Qualifier:	B

Muddy Cove Brook (MA62-59)

Watershed Area: 2.80 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	2.80	2.80	0.71	0.71
Agriculture	6.1%	6.1%	5.5%	5.5%
Developed	11.1%	11.1%	6%	6%
Natural	63.5%	63.5%	58.6%	58.6%
Wetland	19.3%	19.3%	29.9%	29.9%
Impervious	3.4%	3.4%	2.1%	2.1%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fish Passage Barrier*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Muddy Cove Brook (MA62-59) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
There is insufficient information to assess the Aesthetics Use for Muddy Cove Brook (MA62-59). MassDEP staff recorded aesthetics observations at one station halfway down this Muddy Cove Brook AU, ~680 feet downstream from Elm Street (upstream at concrete bridge), Dighton (W2304), during the summer of 2011 as part of the MassDEP Bacteria Source Tracking Project (n=2). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded during the surveys, however there are only limited data available.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2304	MassDEP	Water Quality	Muddy Cove Brook	[approximately 680 feet downstream from Elm Street (upstream at concrete bridge), Dighton]	41.813957	-71.126307

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2304	2011	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2304 on Muddy Cove Brook (MA62-59) during 2 site visits between Jul 2011 and Aug 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2304	2011	2	2	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2304	Muddy Cove Brook	2011	Aquatic Plant Density, Overall	None	1	2
W2304	Muddy Cove Brook	2011	Aquatic Plant Density, Overall	Sparse	1	2
W2304	Muddy Cove Brook	2011	Color	None	2	2
W2304	Muddy Cove Brook	2011	Odor	None	2	2
W2304	Muddy Cove Brook	2011	Periphyton Density, Filamentous	None	2	2
W2304	Muddy Cove Brook	2011	Periphyton Density, Film	Sparse	2	2
W2304	Muddy Cove Brook	2011	Turbidity	Moderately Turbid	1	2
W2304	Muddy Cove Brook	2011	Turbidity	None	1	2

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
<p>Too limited bacteria data are available to assess the Primary Contact Recreation Use for Muddy Cove Brook (MA62-59) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected <i>E. coli</i> bacteria samples halfway down Muddy Cove Brook at W2304 [~680 ft downstream from Elm St (upstream at concrete bridge), Dighton] from Jul-Aug 2011 (n=2). The available <i>E. coli</i> data at W2304 are too limited to assess according to the 2024 CALM, although it should be noted that 1 sample exceeded the 410 CFU/100ml STV (i.e. 744 CFU/100ml). Additionally, a small amount of Bacteria Source Tracking work was conducted by in 2011 & 2012 (n=3) on Muddy Cove Brook as part of the MassDEP Bacteria Source Tracking (BST) Project; this project reported a maximum dry weather <i>E. coli</i> concentration of 63 MPN at the downstream end of the abandoned "Zeneca" property. Overall, the <i>E. coli</i> data for this Muddy Cove Brook AU are too limited according to the 2024 CALM to assess the Primary Contact Recreation Use.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2304	MassDEP	Water Quality	Muddy Cove Brook	[approximately 680 feet downstream from Elm Street (upstream at concrete bridge), Dighton]	41.813957	-71.126307

Bacteria Data

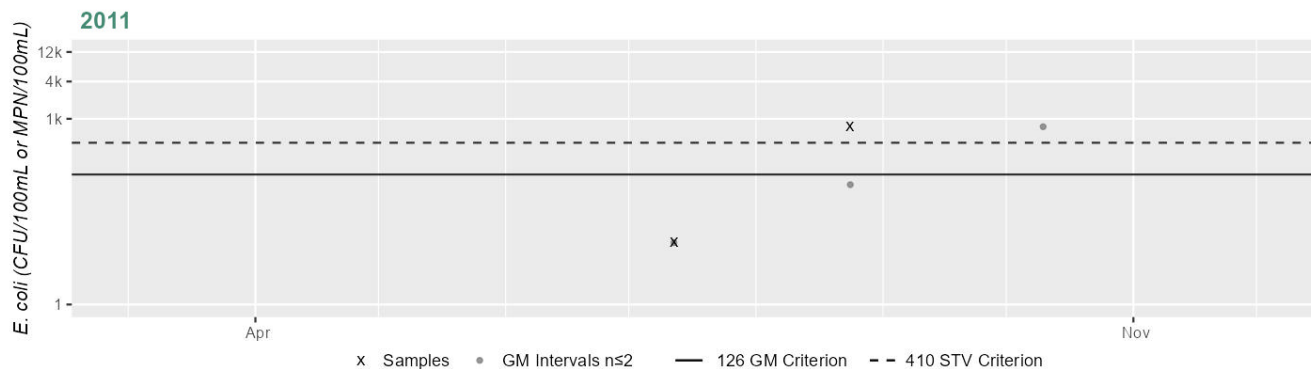
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2304	MassDEP	E. coli	07/12/11	08/24/11	2	10	744	86

Station MASSDEP_W2304 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	86
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Summary Statement for 2011-2019 MassDEP Bacteria Source Tracking (BST) Data (MassDEP Undated 1)

Summary

A small amount of BST work was conducted in 2011 & 2012 (N=3) on the Muddy Cove Brook AU (MA62-59), with a max dry weather *E. coli* concentration of 63MPN at the downstream end of the abandoned "Zeneca" property.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
<p>Too limited bacteria data are available to assess the Secondary Contact Recreation Use for Muddy Cove Brook (MA62-59) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected <i>E. coli</i> bacteria samples halfway down Muddy Cove Brook at station W2304 [~680 ft downstream from Elm St (upstream at concrete bridge), Dighton] from Jul-Aug 2011 (n=2). Though the maximum <i>E. coli</i> concentration at this station was 744 CFU/100ml, the available data at W2304 are too limited to assess according to the 2024 CALM. Additionally, a small amount of Bacteria Source Tracking work was conducted in 2011 & 2012 (n=3) on Muddy Cove Brook as part of the MassDEP Bacteria Source Tracking (BST) Project; this project reported a maximum dry weather <i>E. coli</i> concentration of 63 MPN at the downstream end of the abandoned "Zeneca" property. Overall, the <i>E. coli</i> data collected for this Muddy Cove Brook AU are too limited according to the 2024 CALM to assess the Secondary Contact Recreation Use.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2304	MassDEP	Water Quality	Muddy Cove Brook	[approximately 680 feet downstream from Elm Street (upstream at concrete bridge), Dighton]	41.813957	-71.126307

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

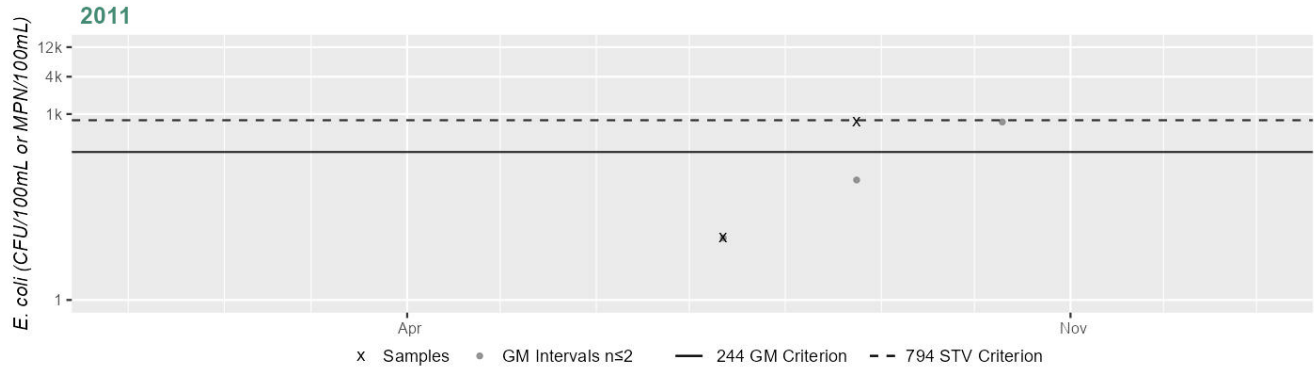
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2304	MassDEP	E. coli	07/12/11	08/24/11	2	10	744	86

Station MASSDEP_W2304 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	86
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Muddy Cove Brook Pond (MA62124)

Location:	Dighton.
AU Type:	FRESHWATER LAKE
AU Size:	23 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Fish Passage Barrier*)	--	Unchanged
5	5	Algae	--	Unchanged
5	5	Turbidity	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--
Algae	Source Unknown (N)	--	--	X	X	X
Turbidity	Source Unknown (N)	--	--	X	X	X

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Muddy Cove Brook Pond (MA62124) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

No new data are available to evaluate the Aesthetics Use for this Muddy Cove Brook Pond AU (MA62124). The Aesthetics Use will continue to be assessed as Not Supporting with the Algae and Turbidity impairments being carried forward.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

While a sample taken at the outfall from Muddy Cove Brook Pond (MA62124) in July 2011 (as part of a BST sampling effort in the downstream Muddy Cove Brook AU MA62-59) had an *E. coli* concentration of <1 MPN, no additional bacteria or other indicator data for are available for this AU, so the Primary Contact Recreation Use continues to be assessed as Not Supporting. The prior Algae and Turbidity impairments (from the Aesthetics Use) are being carried forward.

Bacteria Data

Summary Statement for 2011-2019 MassDEP Bacteria Source Tracking (BST) Data (MassDEP Undated 1)

Summary

One sample was taken at the outfall from Muddy Cove Brook Pond (MA62124) in July 2011, as part of a BST sampling effort in the Muddy Cove Brook AU downstream. *E. coli* concentrations were noted to be <1 MPN at that time

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

Secondary Contact Recreation Use continues to be assessed as Not Supporting and the prior Algae and Turbidity impairments (from the Aesthetics Use) are being carried forward. An *E. coli* sample was taken at the outfall from Muddy Cove Brook Pond (MA62124) in July 2011 (as part of a BST sampling effort in the downstream Muddy Cove Brook AU MA62-59). This sample had an *E. coli* concentration of <1 MPN. There was too limited *E. coli* data to assess MA62-59 according to the 2024 CALM.

Muddy Pond (MA62125)

Location:	Carver.
AU Type:	FRESHWATER LAKE
AU Size:	61 ACRES
Classification/Qualifier:	B

No usable data were available for Muddy Pond (MA62125) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fanwort*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Muddy Pond (MA62126)

Location:	Halifax.
AU Type:	FRESHWATER LAKE
AU Size:	13 ACRES
Classification/Qualifier:	B

No usable data were available for Muddy Pond (MA62126) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Muddy Pond (MA62233)

Location:	Kingston (formerly reported as 2004 segment: Muddy Pond MA94104).
AU Type:	FRESHWATER LAKE
AU Size:	42 ACRES
Classification/Qualifier:	B

No usable data were available for Muddy Pond (MA62233) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

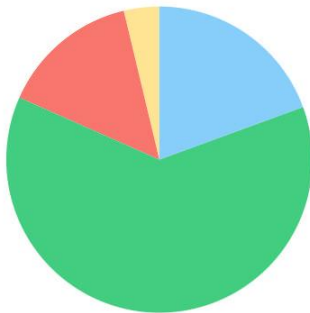
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Mulberry Meadow Brook (MA62-31)

Location:	Headwaters, outlet New Pond, Easton to mouth at inlet of Winnecunnet Pond, Norton (through former 2014 segments: Ward Pond MA62203 and Reservoir MA62158).
AU Type:	RIVER
AU Size:	4.6 MILES
Classification/Qualifier:	B

Mulberry Meadow Brook (MA62-31)

Watershed Area: 11.96 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	11.96	3.55	4.96	1.34
Agriculture	3.7%	8.3%	6.1%	16.7%
Developed	14.6%	12.4%	8.6%	7%
Natural	62.2%	62%	57.6%	55.5%
Wetland	19.4%	17.3%	27.6%	20.8%
Impervious	6.5%	4.5%	3.7%	2.3%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	5	Escherichia Coli (E. Coli)	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Mulberry Meadow Brook (MA62-31) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO
2024/26 Use Attainment Summary	
The Aesthetics Use for Mulberry Meadow Brook (MA62-31) is assessed as Fully Supporting based on the general lack of objectionable conditions noted by MassDEP staff during the summer of 2019. MassDEP staff recorded aesthetics observations at two stations for Mulberry Meadow Brook; close to the upstream end of the AU at Highland Street, Easton (W2830), during the summer of 2019 (n=8) and close to the downstream end of the AU at Plain Street, Norton (W2832) during the summer of 2019 (n=8). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2830	MassDEP	Water Quality	Mulberry Meadow Brook	[Highland Street, Easton]	42.019013	-71.125912
W2832	MassDEP	Water Quality	Mulberry Meadow Brook	[Plain Street, Norton]	41.978022	-71.134172

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2830	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2830 on Mulberry Meadow Brook (MA62-31) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2832	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2832 on Mulberry Meadow Brook (MA62-31) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2830	2019	8	8	0
W2832	2019	8	6	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2830	Mulberry Meadow Brook	2019	Aesthetics Impaired?	No	8	8
W2830	Mulberry Meadow Brook	2019	Aquatic Plant Density, Overall	None	6	8
W2830	Mulberry Meadow Brook	2019	Aquatic Plant Density, Overall	Sparse	2	8
W2830	Mulberry Meadow Brook	2019	Color	Light Yellow/Tan	7	8
W2830	Mulberry Meadow Brook	2019	Color	None	1	8
W2830	Mulberry Meadow Brook	2019	Objectionable Deposits	No	8	8
W2830	Mulberry Meadow Brook	2019	Odor	None	8	8
W2830	Mulberry Meadow Brook	2019	Periphyton Density, Filamentous	None	4	8
W2830	Mulberry Meadow Brook	2019	Periphyton Density, Filamentous	Sparse	4	8
W2830	Mulberry Meadow Brook	2019	Periphyton Density, Film	None	7	8
W2830	Mulberry Meadow Brook	2019	Periphyton Density, Film	Sparse	1	8
W2830	Mulberry Meadow Brook	2019	Scum	No	8	8
W2830	Mulberry Meadow Brook	2019	Turbidity	None	8	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2832	Mulberry Meadow Brook	2019	Aesthetics Impaired?	No	8	8
W2832	Mulberry Meadow Brook	2019	Aquatic Plant Density, Overall	Moderate	2	8
W2832	Mulberry Meadow Brook	2019	Aquatic Plant Density, Overall	Sparse	6	8
W2832	Mulberry Meadow Brook	2019	Color	Light Yellow/Tan	6	8
W2832	Mulberry Meadow Brook	2019	Color	None	2	8
W2832	Mulberry Meadow Brook	2019	Objectionable Deposits	No	8	8
W2832	Mulberry Meadow Brook	2019	Odor	None	8	8
W2832	Mulberry Meadow Brook	2019	Periphyton Density, Filamentous	None	6	8
W2832	Mulberry Meadow Brook	2019	Periphyton Density, Filamentous	Unobservable	2	8
W2832	Mulberry Meadow Brook	2019	Periphyton Density, Film	None	6	8
W2832	Mulberry Meadow Brook	2019	Periphyton Density, Film	Unobservable	2	8
W2832	Mulberry Meadow Brook	2019	Scum	No	8	8
W2832	Mulberry Meadow Brook	2019	Turbidity	None	8	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	

The Primary Contact Recreation Use for Mulberry Meadow Brook (MA62-31) is assessed as Not Supporting. An *Escherichia coli* (*E. coli*) impairment is being added due to bacteria data exceeding thresholds at two stations in 2019. MassDEP staff collected *E. coli* bacteria samples in Mulberry Meadow Brook in 2019 at two stations. Samples were collected from the following stations/sample years from upstream to downstream: close to the upstream end of the AU at W2830 [Highland St, Easton] from Jun-Aug 2019 (n=6) and close to the downstream end at W2832 [Plain St, Norton] from Jun-Aug 2019 (n=6). Analysis of the single year limited frequency datasets from W2830 and W2832 indicated 71-100% of intervals had GMs >126 CFU/100ml, 2-3 samples exceeded the 410 CFU/100ml STV, and the seasonal GM's were 214 and 425 CFU/100ml respectively. The bacteria data from both W2830 and W2832 are indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2830	MassDEP	Water Quality	Mulberry Meadow Brook	[Highland Street, Easton]	42.019013	-71.125912
W2832	MassDEP	Water Quality	Mulberry Meadow Brook	[Plain Street, Norton]	41.978022	-71.134172

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

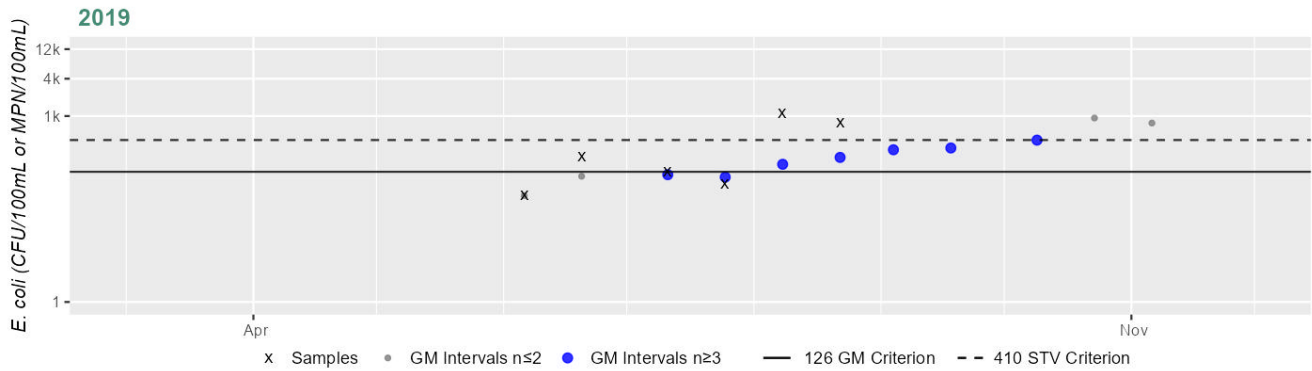
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2830	MassDEP	E. coli	06/06/19	08/22/19	6	52	1120	214
W2832	MassDEP	E. coli	06/06/19	08/22/19	6	70	1730	425

Station MASSDEP_W2830 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



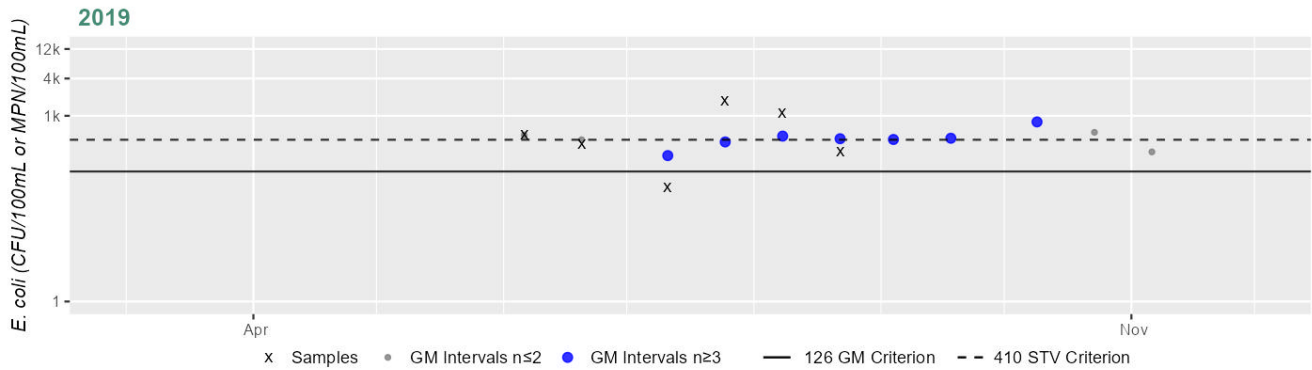
Variable*	Result
Samples	6
SeasGM	214
#GMI	7
#GMI Ex	5
%GMI Ex	71%
n>STV	2
%n>STV	33%

Cumulative %GMI Exceedance
Current (2011-2022)
71%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2832 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	425
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	3
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for Mulberry Meadow Brook (MA62-31) is assessed as Not Supporting. An <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being added based on a re-evaluation of bacteria data exceeding thresholds at one station in 2019. MassDEP staff collected <i>E. coli</i> bacteria samples in Mulberry Meadow Brook in 2019 at two stations. Samples were collected from the following stations/sample years from upstream to downstream: close to the upstream end of the AU at W2830 [Highland St, Easton] from Jun-Aug 2019 (n=6), and close to the downstream end at W2832 [Plain St, Norton] from Jun-Aug 2019 (n=6). Analysis of the single year limited frequency <i>E. coli</i> dataset from W2830 indicated 42% of intervals had GMs >244 CFU/100ml, and while 1 sample exceeded the 794 CFU/100ml STV, the overall GM was only 214 CFU/100ml. However, analysis of the single year limited frequency <i>E. coli</i> dataset from W2832 indicated 85% of intervals had GMs >244 CFU/100ml, 2 samples exceeded the 794 CFU/100ml STV, and the overall GM was 425 CFU/100ml. While <i>E. coli</i> data from W2830 were generally indicative of good water quality conditions, the data from W2832 are indicative of an <i>E. coli</i> impairment.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2830	MassDEP	Water Quality	Mulberry Meadow Brook	[Highland Street, Easton]	42.019013	-71.125912
W2832	MassDEP	Water Quality	Mulberry Meadow Brook	[Plain Street, Norton]	41.978022	-71.134172

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

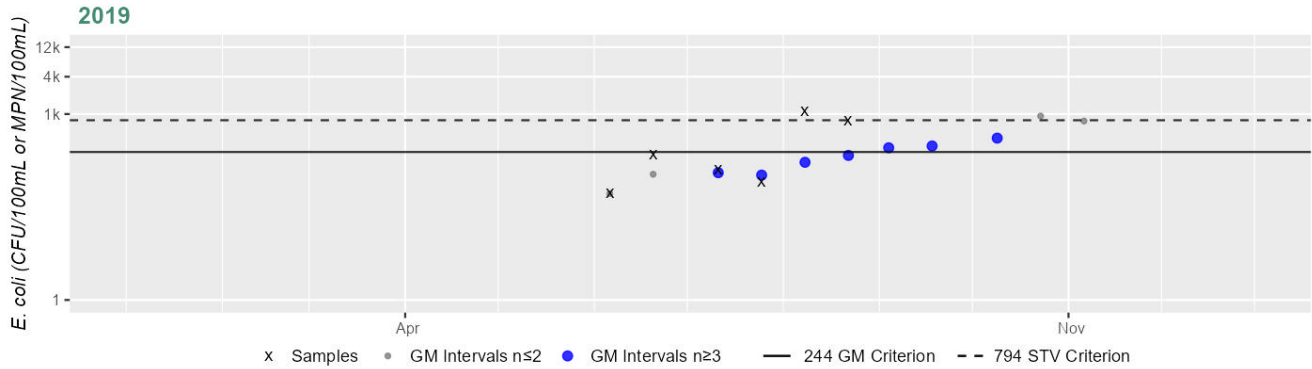
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2830	MassDEP	E. coli	06/06/19	08/22/19	6	52	1120	214
W2832	MassDEP	E. coli	06/06/19	08/22/19	6	70	1730	425

Station MASSDEP_W2830 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



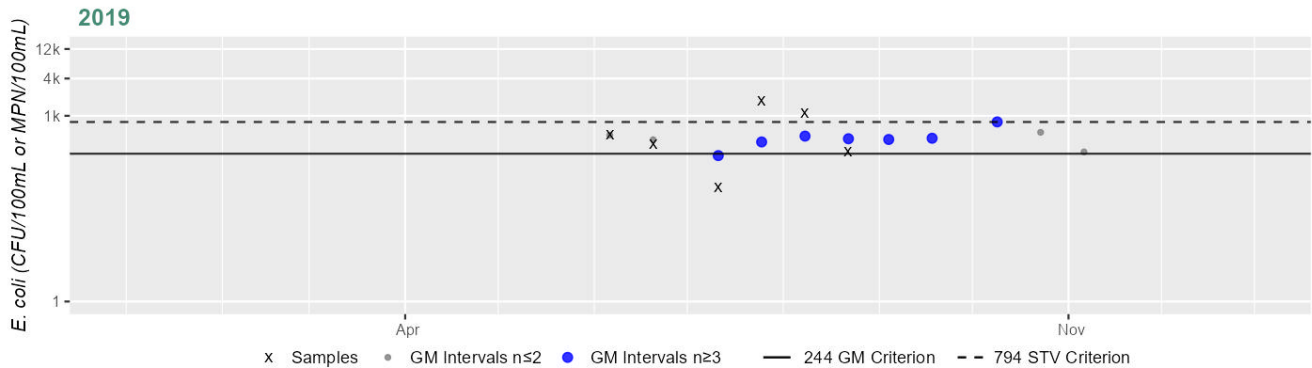
Variable*	Result
Samples	6
SeasGM	214
#GMI	7
#GMI Ex	3
%GMI Ex	42%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
 42%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2832 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	425
#GMI	7
#GMI Ex	6
%GMI Ex	85%
n>STV	2
%n>STV	33%

Cumulative %GMI Exceedance
Current (2011-2022)
 85%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Mullein Hill Chapel Pond (MA62127)

Location:	Lakeville.
AU Type:	FRESHWATER LAKE
AU Size:	23 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Mullein Hill Chapel Pond (MA62127) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

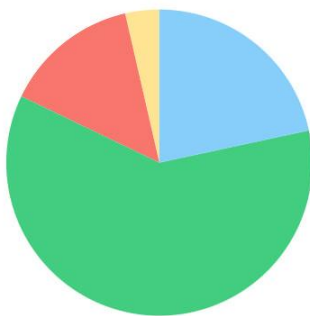
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Nemasket River (MA62-25)

Location:	Headwaters, outlet Assawompset Pond, Lakeville/Middleborough to Middleborough WWTP (NPDES: MA0101591) discharge, Middleborough.
AU Type:	RIVER
AU Size:	6.2 MILES
Classification/Qualifier:	B

Nemasket River (MA62-25)

Watershed Area: 68.51 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	68.51	10.99	34.82	2.70
Agriculture	3.6%	4.7%	3.6%	5.4%
Developed	14.3%	24.9%	8.6%	14%
Natural	60.5%	51.3%	60.7%	39.9%
Wetland	21.6%	19.1%	27.1%	40.7%
Impervious	5.8%	11.4%	3.4%	5.7%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Ambient Bioassays - Chronic Aquatic Toxicity	--	Unchanged
5	5	Benthic Macroinvertebrates	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	Temperature	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Ambient Bioassays - Chronic Aquatic Toxicity	Source Unknown (N)	X	--	--	--	--
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
Temperature	Dam or Impoundment (N)	X	--	--	--	--
Temperature	Source Unknown (N)	X	--	--	--	--

Recommendations

2024/26 Recommendations
<p>2001IR [Aesthetics, Low] Additional aesthetics observations should be collected between East Grove St. and East Main St., Middleborough to determine if enough trash is present to impair the Aesthetics Use for Nemasket River (MA62-25). This effort could include visits to existing MassDEP legacy stations {W0315} {W0369} and {W0316}. This is of low priority.;</p> <p>2024/26IR [Bacteria, Medium] Additional high frequency <i>E. coli</i> bacteria data should be collected for Nemasket River (MA62-25) especially at the downstream end station Rt. 44 bridge, Middleborough {W0317}, to determine if bacteria concentrations are high enough to impair the Primary Contact Recreation Use. This is of medium priority.</p>

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Nemasket River (MA62-25) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary

The Aesthetics Use for this Nemasket River AU (MA62-25) is assessed as Fully Supporting based on the general lack of any objectionable conditions noted by MassDEP staff during the summers of 2013 and 2019. An Alert for Trash is being added based on observations of trash between East Grove Street and East Main Street by the Nemasket River Stream Team in 2003 (Durfee 2003) (this Alert was previously erroneously associated with the downstream AU (MA62-26)). MassDEP staff recorded aesthetics observations at two stations in Middleborough for this Nemasket River AU; in the upstream half of the AU ~1500ft downstream/north of Interstate 495 (W2396), during the summer of 2013 as part of the MAP2 Probabilistic Wadeable Streams monitoring project (n=9) and close to the downstream end of the AU at the Rt. 44 bridge (~1000 feet upstream of Middleborough WWTP discharge, NPDES # MA0101591) (W0317) during the summer of 2019 for selected monitoring (n=8). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. Since these two sample stations were not located within the stretch where trash was previously observed by the Nemasket River Stream Team in 2003, the Alert for Trash cannot be removed at this time. A recommendation will be made to collect additional aesthetics observations between East Grove Street and East Main Street, Middleborough.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0317	MassDEP	Water Quality	Nemasket River	[Route 44 bridge, Middleborough (approximately 1000 feet upstream of Middleborough WWTP discharge, NPDES # MA0101591)]	41.907439	-70.914952
W2396	MassDEP	Water Quality	Nemasket River	[approximately 1500 feet downstream/north of Interstate 495, Middleborough]	41.881423	-70.909427

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W0317	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W0317 on Nemasket River (MA62-25) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2396	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2396 on Nemasket River (MA62-25) during 8 site visits between May 2013 and Sep 2013. There were some objectionable conditions recorded, including dense/very dense aquatic plants (n=4). These conditions are indicative of an Alert status.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W0317	2019	8	5	0
W2396	2013	9	2	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0317	Nemasket River	2019	Aesthetics Impaired?	No	8	8
W0317	Nemasket River	2019	Aquatic Plant Density, Overall	Moderate	3	8
W0317	Nemasket River	2019	Aquatic Plant Density, Overall	Sparse	5	8
W0317	Nemasket River	2019	Color	Light Yellow/Tan	8	8
W0317	Nemasket River	2019	Objectionable Deposits	No	8	8
W0317	Nemasket River	2019	Odor	Musty (Basement)	1	8
W0317	Nemasket River	2019	Odor	None	7	8
W0317	Nemasket River	2019	Periphyton Density, Filamentous	None	4	8
W0317	Nemasket River	2019	Periphyton Density, Filamentous	Sparse	1	8
W0317	Nemasket River	2019	Periphyton Density, Filamentous	Unobservable	3	8
W0317	Nemasket River	2019	Periphyton Density, Film	Moderate	1	8
W0317	Nemasket River	2019	Periphyton Density, Film	None	3	8
W0317	Nemasket River	2019	Periphyton Density, Film	Unobservable	4	8
W0317	Nemasket River	2019	Scum	No	6	8
W0317	Nemasket River	2019	Scum	Yes	2	8
W0317	Nemasket River	2019	Turbidity	None	4	8
W0317	Nemasket River	2019	Turbidity	Slightly Turbid	4	8
W2396	Nemasket River	2013	Aesthetics Impaired?	No	6	9
W2396	Nemasket River	2013	Aesthetics Impaired?	NR	3	9
W2396	Nemasket River	2013	Aquatic Plant Density, Overall	Dense	4	9
W2396	Nemasket River	2013	Aquatic Plant Density, Overall	NA	1	9
W2396	Nemasket River	2013	Aquatic Plant Density, Overall	Sparse	1	9
W2396	Nemasket River	2013	Aquatic Plant Density, Overall	Unobservable	3	9
W2396	Nemasket River	2013	Color	Light Yellow/Tan	8	9
W2396	Nemasket River	2013	Color	Unobservable	1	9
W2396	Nemasket River	2013	Objectionable Deposits	NA	1	9
W2396	Nemasket River	2013	Objectionable Deposits	No	7	9
W2396	Nemasket River	2013	Objectionable Deposits	Unobservable	1	9

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2396	Nemasket River	2013	Odor	None	5	9
W2396	Nemasket River	2013	Odor	NR	2	9
W2396	Nemasket River	2013	Odor	Other (Wetland/Marsh)	2	9
W2396	Nemasket River	2013	Periphyton Density, Filamentous	Moderate	1	9
W2396	Nemasket River	2013	Periphyton Density, Filamentous	NR	1	9
W2396	Nemasket River	2013	Periphyton Density, Filamentous	Sparse	1	9
W2396	Nemasket River	2013	Periphyton Density, Filamentous	Unobservable	6	9
W2396	Nemasket River	2013	Periphyton Density, Film	None	2	9
W2396	Nemasket River	2013	Periphyton Density, Film	NR	1	9
W2396	Nemasket River	2013	Periphyton Density, Film	Unobservable	6	9
W2396	Nemasket River	2013	Scum	NA	1	9
W2396	Nemasket River	2013	Scum	No	6	9
W2396	Nemasket River	2013	Scum	Yes	2	9
W2396	Nemasket River	2013	Turbidity	None	7	9
W2396	Nemasket River	2013	Turbidity	Slightly Turbid	1	9
W2396	Nemasket River	2013	Turbidity	Unobservable	1	9

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Nemasket River (MA62-25) continues to be assessed as Fully Supporting based on bacteria data collected at one station in 2013, however an Alert is being identified based on *E. coli* concentrations at the Rt. 44 bridge, Middleborough in 2019. MassDEP staff collected *E. coli* bacteria samples in this Nemasket River AU in 2013 & 2019 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: in the upstream half of the AU at W2396 [~1500 ft downstream/N of Interstate 495, Middleborough] from May-Sep 2013 (n=5) and at the downstream end of the AU at W0317 [Rt. 44 bridge, Middleborough (~1000 ft upstream of Middleborough WWTP discharge, NPDES # MA0101591)] from Jun-Aug 2019 (n=6). Analysis of the single year limited frequency *E. coli* dataset from W2396 indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was only 44 CFU/100ml. Analysis of the single year limited frequency *E. coli* dataset from W0317 indicated 57% of intervals had GMs >126 CFU/100ml, 1 sample exceeded the 410 CFU/100ml STV (3,460 CFU), and the seasonal GM was 198 CFU/100ml. While *E. coli* data from W2396 were indicative of good water quality conditions, an Alert is being identified for *E. coli* based on the data collected at station W0317 and a recommendation will made to collect additional data. Surface water sampling was conducted by the USGS upstream of the Middleborough WWTF discharge on the Nemasket River at station USGS_01107798 on three dates during September to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0317	MassDEP	Water Quality	Nemasket River	[Route 44 bridge, Middleborough (approximately 1000 feet upstream of Middleborough WWTP discharge, NPDES # MA0101591)]	41.907439	-70.914952
W2396	MassDEP	Water Quality	Nemasket River	[approximately 1500 feet downstream/north of Interstate 495, Middleborough]	41.881423	-70.909427
USGS-01107798	USGS Massachusetts Water Science Center	Water Quality	Nemasket River	NEMASKET R AT OLIVER MILL PARK, MIDDLEBOROUGH, MA; upstream of Middleborough WWTF	41.907000	-70.914000

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

(MassDEP Undated 9) (MassDEP Undated 5)

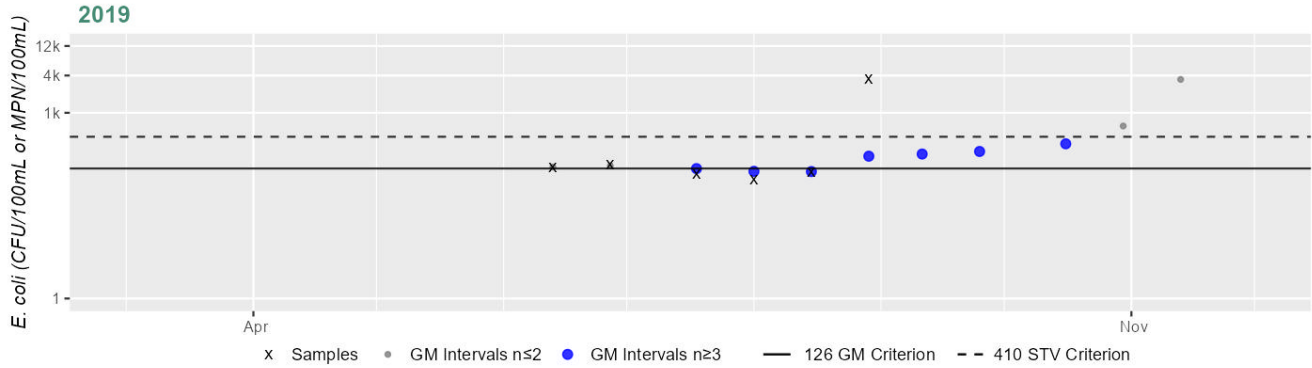
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0317	MassDEP	E. coli	06/13/19	08/29/19	6	84	3460	198

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2396	MassDEP	E. coli	05/09/13	09/04/13	5	10	86	44

Station MASSDEP_W0317 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	198
#GMI	7
#GMI Ex	4
%GMI Ex	57%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance

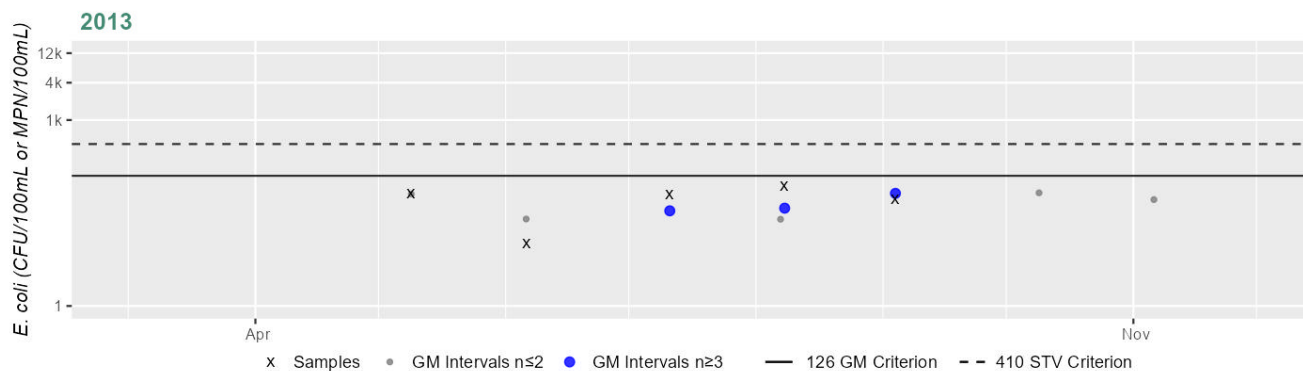
Current (2011-2022)

57%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2396 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	44
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Other Indicators

Summary Statement(s) for USGS 2020 PFAS in Water Column Data (Savoie and Argue 2023) (MassDEP Undated 3)

Summary
Surface water sampling was conducted by the USGS upstream of the Middleborough WWTF discharge on the Nemasket River (MA62-25) at station USGS_01107798 on three dates during September to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).

USGS 2020 PFAS in Water Column Data Collected Upstream and Downstream of Wastewater Treatment Facilities (Savoie and Argue 2023) (MassDEP Undated 3)

[The ΣPFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here). * indicates the ΣPFAS6 concentration is qualified since data for one or more individual PFAS6 analytes were qualified. A concentration with a "<" was less than the reporting detection limit (RDL) and the RDL was used to calculate the ΣPFAS6. E = qualifier "value is estimated"; V = qualifier "value affected by field or laboratory contamination"]

Station Code	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	ΣPFAS6 ng/L
USGS-01107798	9/1/2020	2.91	2.1	E0.568	E0.917	E1.59	E1.71	9.5*
USGS-01107798	9/25/2020	2.96	E2.13	E0.375	E1.09	E1.05	E1.75	9.8*
USGS-01107798	10/28/2020	2.08	E1.46	<1.81	E0.66	2.14	E1.36	8.8*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for the Nemasket River (MA62-25) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data collected at one station in 2013. MassDEP staff collected *E. coli* bacteria samples in the Nemasket River in 2013 & 2019 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: in the upstream half of the AU at W2396 [~1500 ft downstream/N of Interstate 495, Middleborough] from May-Sep 2013 (n=5) and at the downstream end of the AU at W0317 [Rt. 44 bridge, Middleborough (~1000 ft upstream of Middleborough WWTP discharge, NPDES # MA0101591)] from Jun-Aug 2019 (n=6). Analysis of the single year limited frequency *E. coli* dataset from W2396 indicated 0% of intervals had GMs >244 CFU/100ml, 0 samples exceeded the 794 CFU/100ml STV, and the overall GM was 44 CFU/100ml. Since *E. coli* data from station W0317 are single year, limited frequency and analysis of the data resulted in a GM below the threshold but also an exceedance of the STV threshold, the data from this station are too limited to assess the Secondary Contact Recreation Use. However, the bacteria data from station W2396 are indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0317	MassDEP	Water Quality	Nemasket River	[Route 44 bridge, Middleborough (approximately 1000 feet upstream of Middleborough WWTP discharge, NPDES # MA0101591)]	41.907439	-70.914952
W2396	MassDEP	Water Quality	Nemasket River	[approximately 1500 feet downstream/north of Interstate 495, Middleborough]	41.881423	-70.909427

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

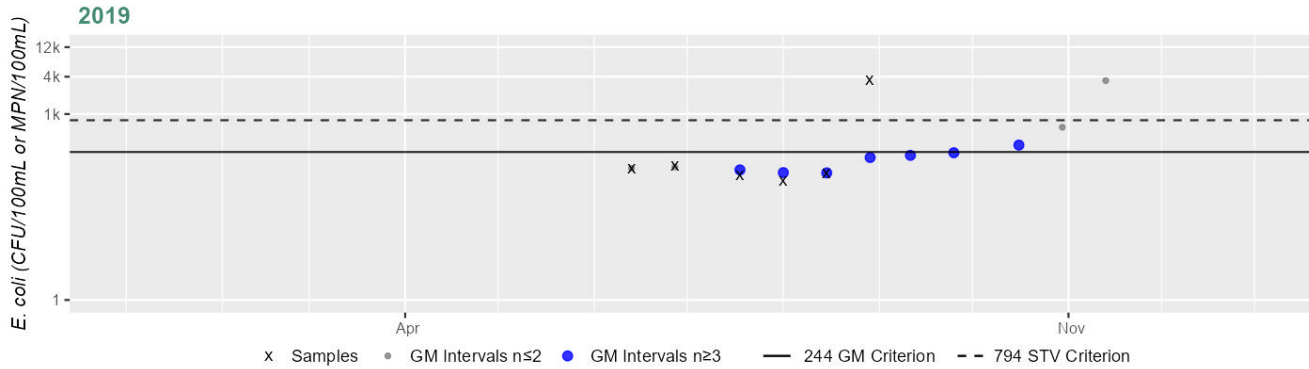
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0317	MassDEP	E. coli	06/13/19	08/29/19	6	84	3460	198
W2396	MassDEP	E. coli	05/09/13	09/04/13	5	10	86	44

Station MASSDEP_W0317 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



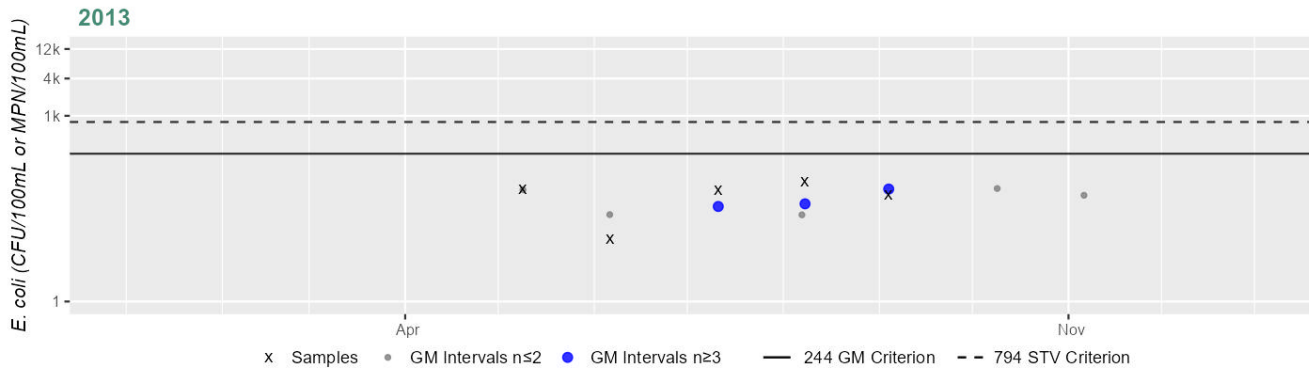
Variable*	Result
Samples	6
SeasGM	198
#GMI	7
#GMI Ex	1
%GMI Ex	14%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
14%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2396 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	44
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

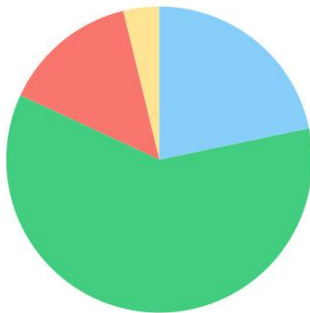
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Nemasket River (MA62-26)

Location:	From the Middleborough WWTP (NPDES: MA0101591) discharge, Middleborough to mouth at confluence with the Taunton River, Middleborough.
AU Type:	RIVER
AU Size:	5.1 MILES
Classification/Qualifier:	B: WWF

Nemasket River (MA62-26)

Watershed Area: 71.82 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	71.82	5.18	35.98	1.66
Agriculture	3.8%	7.1%	3.7%	8.2%
Developed	14.3%	14.3%	8.7%	9.7%
Natural	60.2%	53.1%	60.3%	45.5%
Wetland	21.7%	25.5%	27.3%	36.6%
Impervious	5.8%	5.6%	3.4%	3.7%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Enterococcus	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Enterococcus	Source Unknown (N)	--	--	--	X	--

Recommendations

2024/26 Recommendations
<p>2024/26IR [Bacteria, Medium] Additional high frequency <i>E. coli</i> bacteria data should be collected for Nemasket River (MA62-26) especially halfway down the AU at the Plymouth St bridge, Middleborough {W0318}, to determine if bacteria concentrations are high enough to impair the Primary Contact Recreation Use. This is of medium priority;</p> <p>2024/26IR [PFAS, Low] Follow-up sampling should be conducted at the {USGS_01107799} location downstream of the Middleborough WWTF discharge on the Nemasket River (MA62-26) to evaluate PFAS analytes in ambient water (especially PFBS), since an elevated concentration of PFBS was detected at this location in September 2020. This is of low priority.</p>

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Nemasket River (MA62-26) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO
2024/26 Use Attainment Summary	
<p>The Aesthetics Use for Nemasket River (MA62-26) is assessed as Fully Supporting based on the general lack of any objectionable conditions noted by MassDEP staff during the summer of 2019. The Alert previously identified for isolated areas of trash and debris is being removed from this AU since there was no trash or debris observed at Plymouth Street bridge, Middleborough during the summer of 2019. Also, the previous observations of trash noted by the Nemasket River Shoreline Survey Report (Durfee 2003) were erroneously associated with this AU, having actually been observed between East Grove Street and East Main Street (on assessment unit MA62-25). MassDEP staff recorded aesthetics observations at one station halfway down this Nemasket River AU at Plymouth Street bridge, Middleborough (~1.5 miles downstream of Middleborough WWTP discharge, NPDES # MA0101591) (W0318) during the summer of 2019 for selected monitoring (n=8). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted dense aquatic plants on two occasions (in August and September).</p>	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0318	MassDEP	Water Quality	Nemasket River	[Plymouth Street bridge, Middleborough (approximately 1.5 miles downstream of Middleborough WWTP discharge, NPDES # MA0101591)]	41.921749	-70.923518

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W0318	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W0318 on Nemasket River (MA62-26) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted dense/very dense aquatic plants (n=2).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W0318	2019	8	5	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0318	Nemasket River	2019	Aesthetics Impaired?	No	8	8
W0318	Nemasket River	2019	Aquatic Plant Density, Overall	Dense	2	8
W0318	Nemasket River	2019	Aquatic Plant Density, Overall	NR	1	8
W0318	Nemasket River	2019	Aquatic Plant Density, Overall	Sparse	5	8
W0318	Nemasket River	2019	Color	Light Yellow/Tan	7	8
W0318	Nemasket River	2019	Color	None	1	8
W0318	Nemasket River	2019	Objectionable Deposits	No	7	8
W0318	Nemasket River	2019	Objectionable Deposits	Yes	1	8
W0318	Nemasket River	2019	Odor	None	8	8
W0318	Nemasket River	2019	Periphyton Density, Filamentous	None	3	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0318	Nemasket River	2019	Periphyton Density, Filamentous	Sparse	2	8
W0318	Nemasket River	2019	Periphyton Density, Filamentous	Unobservable	3	8
W0318	Nemasket River	2019	Periphyton Density, Film	None	3	8
W0318	Nemasket River	2019	Periphyton Density, Film	Sparse	1	8
W0318	Nemasket River	2019	Periphyton Density, Film	Unobservable	4	8
W0318	Nemasket River	2019	Scum	No	8	8
W0318	Nemasket River	2019	Turbidity	None	6	8
W0318	Nemasket River	2019	Turbidity	Slightly Turbid	2	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	YES

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Nemasket River (MA62-26) continues to be assessed as Not Supporting. The prior *Enterococcus* impairment is being carried forward based on bacteria data exceeding thresholds at one station in 2019. An Alert is also being identified for *Escherichia coli* (*E. coli*) based on data collected at the Plymouth St bridge in 2019. An Alert is also being identified for PFAS since elevated concentrations of PFBS were detected downstream of the Middleborough WWTF discharge on one occasion in 2020. Recommendations will be made for additional bacteria and PFAS sampling/analysis for this Nemasket River AU. The prior Alert identified for Trash and Debris is being removed from the Recreational Uses but is discussed under the Aesthetics Use. MassDEP and Taunton River Watershed Alliance (TRWA) staff/volunteers collected *E. coli* (EC) and *Enterococcus* (Ent) bacteria samples respectively in the Nemasket River in 2019 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: halfway down the AU at W0318 [Plymouth St bridge, Middleborough (~1.5 miles downstream of Middleborough WWTP discharge, NPDES # MA0101591)] in 2019 (EC n=6) and about three-quarters of the way down at TRWA_NEM-01 [Murdock St., Middleboro] in 2019 (Ent n=7). Analysis of the single year limited frequency *E. coli* dataset from W0318 indicated 28% of intervals had GMs >126 CFU/100ml, 1 sample exceeded the 410 CFU/100ml STV, and the seasonal GM was 126 CFU/100ml. Analysis of the single year moderate frequency *Enterococcus* dataset from TRWA_NEM-01 indicated 100% of intervals had GMs >35 CFU/100ml and 1 sample exceeded the 130 CFU/100ml STV. Based on this bacteria data an alert is being identified for *E. coli* at W0318 and the *Enterococcus* data from TRWA_NEM-01 are indicative of an *Enterococcus* impairment. Surface water sampling was conducted by the USGS downstream of the Middleborough WWTF discharge on the Nemasket River at station USGS_01107799 on three dates during September to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS; HFPO-DA/GenX was not analyzed in this study) were generally less than the 90 ng/L (ppt) recreational screening value, with the exception of the Sept PFBS measurement (94.5 ng/L). Follow-up sampling should be conducted at this USGS_01107799 location on the Nemasket River.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0318	MassDEP	Water Quality	Nemasket River	[Plymouth Street bridge, Middleborough (approximately 1.5 miles downstream of Middleborough WWTP discharge, NPDES # MA0101591)]	41.921749	-70.923518
TRWA_NEM-01	Taunton River Watershed Alliance	Water Quality	Nemasket River	Nemasket R., Murdock St., Middleboro	41.933627	-70.923346
USGS-01107799	USGS Massachusetts Water Science Center	Water Quality	Nemasket River	NEMASKET RIVER AT PLYMOUTH ST, MIDDLEBOROUGH, MA; downstream of Middleborough WWTF	41.922000	-70.923000

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (30-day Interval Analysis)

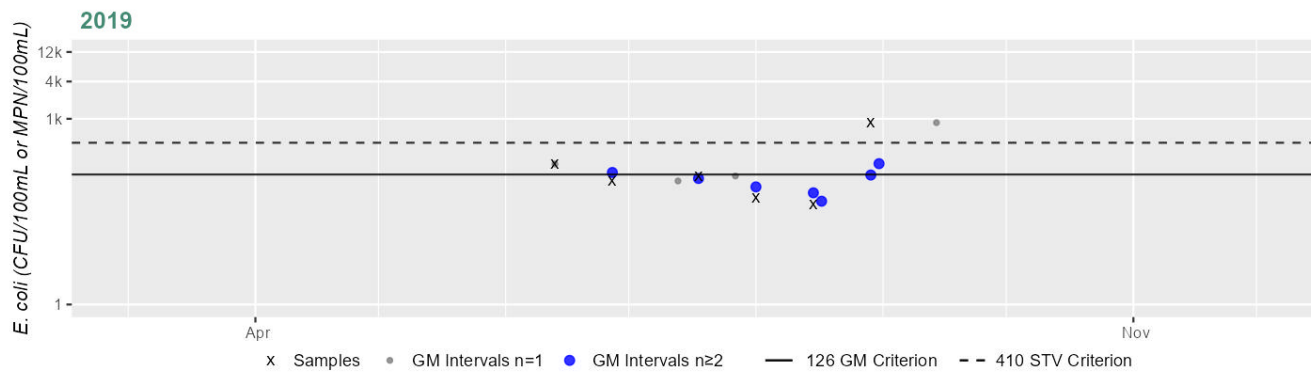
(MassDEP Undated 9) (MassDEP Undated 5) (TRWA 2020) (MassDEP Undated 3)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0318	MassDEP	E. coli	06/13/19	08/29/19	6	41	866	126
TRWA_NEM-01	Taunton River Watershed Association	Enterococcus	04/09/19	10/08/19	7	10	290	52

Station MASSDEP_W0318 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	126
#GMI	7
#GMI Ex	2
%GMI Ex	28%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance

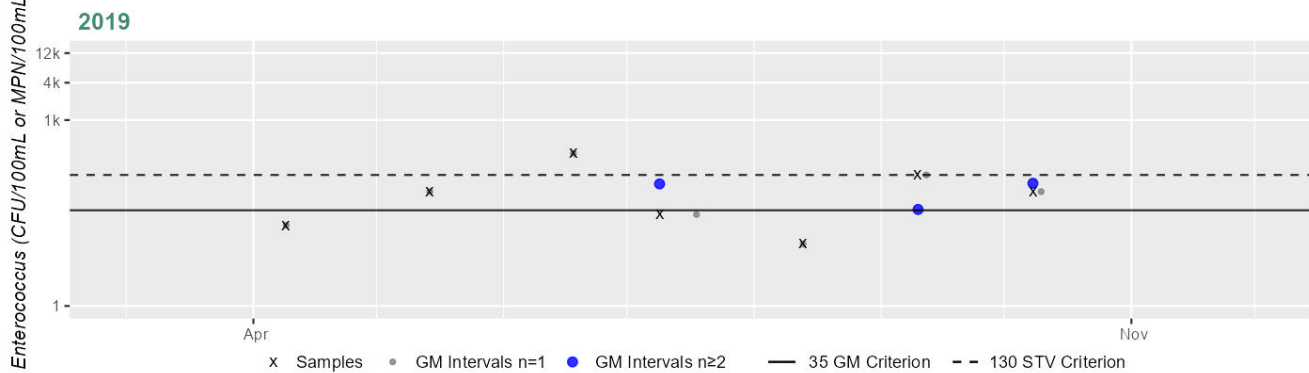
Current (2011-2022)

28%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station TRWA_NEM-01 - Enterococcus

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	7
SeasGM	52
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	1
%n>STV	14%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Other Indicators

Summary Statement(s) for USGS 2020 PFAS in Water Column Data (Savoie and Argue 2023) (MassDEP Undated 3)

Summary
Surface water sampling was conducted by the USGS downstream of the Middleborough WWTF discharge on the Nemasket River (MA62-26) at station USGS_01107799 on three dates during September to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS; HFPO-DA/GenX was not analyzed in this study) were generally less than the 90 ng/L (ppt) recreational screening value, with the exception of the Sept PFBS measurement (94.5 ng/L). Follow-up sampling should be conducted at this USGS_01107799 location on the Nemasket River (MA62-26).

USGS 2020 PFAS in Water Column Data Collected Upstream and Downstream of Wastewater Treatment Facilities (Savoie and Argue 2023) (MassDEP Undated 3)

[The ΣPFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here). * indicates the ΣPFAS6 concentration is qualified since data for one or more individual PFAS6 analytes were qualified. A concentration with a "<" was less than the reporting detection limit (RDL) and the RDL was used to calculate the ΣPFAS6. E = qualifier "value is estimated"; V = qualifier "value affected by field or laboratory contamination"]

Station Code	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	ΣPFAS6 ng/L
USGS-01107799	9/1/2020	9.85	4.87	E1	4.04	14.1	37.7	25.1*
USGS-01107799	9/25/2020	17	E6.42	E1.38	7.58	34.2	94.5	43.0*
USGS-01107799	10/28/2020	8.88	3.15	E0.652	2.95	14	36	21.4*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

Too limited bacteria data are available to assess the Secondary Contact Recreation Use for the Nemasket River (MA62-26) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. The prior Alert identified for Trash and Debris is being removed from the Recreational Uses but these issues are discussed under the Aesthetics Use. MassDEP staff collected *E. coli* bacteria samples halfway down the Nemasket River at W0318 [Plymouth St bridge, Middleborough (~1.5 miles downstream of Middleborough WWTP discharge, NPDES # MA0101591)] from Jun-Aug 2019 (n=6). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV (866 CFU), and the overall GM was 126 CFU/100ml. Since *E. coli* data from W0318 are single year, limited frequency and analysis of the data resulted in a GM below the threshold but also an exceedance of the STV threshold, the data are too limited to assess the Secondary Contact Recreation Use.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0318	MassDEP	Water Quality	Nemasket River	[Plymouth Street bridge, Middleborough (approximately 1.5 miles downstream of Middleborough WWTP discharge, NPDES # MA0101591)]	41.921749	-70.923518

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

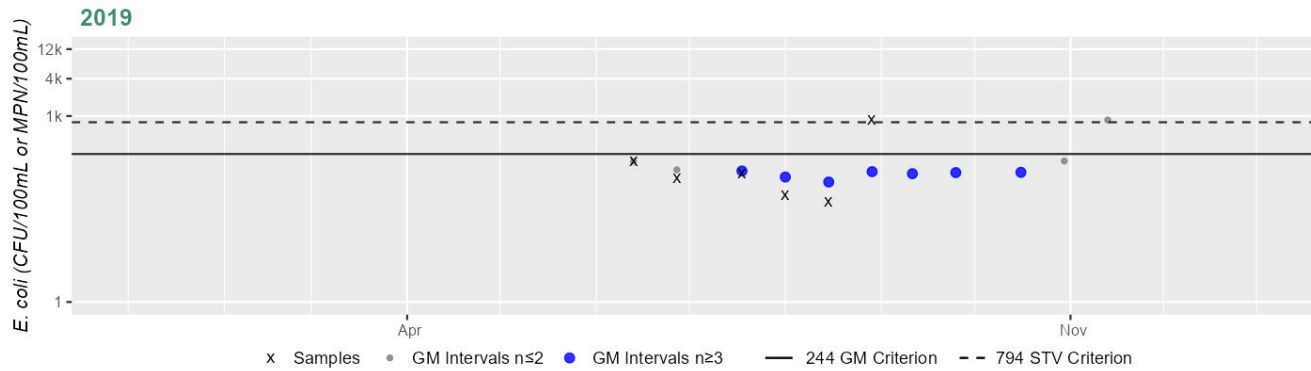
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0318	MassDEP	E. coli	06/13/19	08/29/19	6	41	866	126

Station MASSDEP_W0318 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	126
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

New Pond (MA62130)

Location:	Easton.
AU Type:	FRESHWATER LAKE
AU Size:	18 ACRES
Classification/Qualifier:	B

No usable data were available for New Pond (MA62130) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fanwort*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

North Center Street Pond (MA62132)

Location:	Carver.
AU Type:	FRESHWATER LAKE
AU Size:	12 ACRES
Classification/Qualifier:	B

No usable data were available for North Center Street Pond (MA62132) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Norton Reservoir (MA62134)

Location:	Norton/Mansfield.
AU Type:	FRESHWATER LAKE
AU Size:	557 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Fanwort*)	--	Unchanged
5	5	(Non-Native Aquatic Plants*)	--	Unchanged
5	5	Algae	--	Unchanged
5	5	Dioxin (including 2,3,7,8-TCDD)	--	Unchanged
5	5	Pentachlorophenol (PCP)	--	Unchanged
5	5	Phosphorus, Total	--	Unchanged
5	5	Turbidity	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Algae	Source Unknown (N)	--	--	X	X	X
Dioxin (including 2,3,7,8-TCDD)	CERCLA NPL (Superfund) Sites (Y)	--	X	--	--	--
Pentachlorophenol (PCP)	CERCLA NPL (Superfund) Sites (Y)	--	X	--	--	--
Phosphorus, Total	Source Unknown (N)	X	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Turbidity	Source Unknown (N)	--	--	X	X	X

Recommendations

2024/26 Recommendations
2024/26IR [Bacteria, Medium] Additional high frequency monitoring should be conducted for Norton Reservoir (MA62134) to confirm if it should be impaired for <i>Escherichia coli</i> (<i>E. coli</i>). An Alert was issued for <i>E. coli</i> due to one very elevated concentration in the southern half of the reservoir at {NARS_WQX-NLA_MA-10007} in Jul 2017.

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Fish Consumption Use for Norton Reservoir (MA62134) continues to be assessed as Not Supporting and the prior Dioxin (including 2,3,7,8-TCDD) and Pentachlorophenol (PCP) impairment is being carried forward. MDPH included a site-specific advisory for Norton Reservoir (referred to by MDPH as "Rumford River (from Glue Factory Pond Dam Fulton, Kingman, & Cabot ponds Norton reservoir)" or "Norton Reservoir") in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
No new data are available to evaluate the Aesthetics Use for this Norton Reservoir AU (MA62134). The Aesthetics Use will continue to be assessed as Not Supporting with the Algae and Turbidity impairments being carried forward.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	YES

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Norton Reservoir (MA62134) continues to be assessed as Not Supporting. The prior Algae and Turbidity impairments (from the Aesthetics Use) are being carried forward. An Alert is being identified for *Escherichia coli* (*E. coli*) based on one high concentration recorded in 2017. EPA National Aquatic Resources Survey (NARS_WQX) collected cyanobacteria cell count and cyanotoxins data in 2012 towards the north end of the reservoir at NARS_WQX-NLA12_MA-102 and cyanotoxins data in 2017 a little further south at NARS_WQX-NLA_MA-10007. The cyanobacteria cell count did not exceed 70,000 cells/ml in the single water sample in 2012 (n=1). Analysis of microcystins and cylindrospermopsin samples from NARS_WQX-NLA12_MA-102 in 2012 (n=1) and NARS_WQX-NLA_MA-10007 in 2017 (n=2) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. EPA (NARS_WQX) staff also collected one *E. coli* bacteria sample in Norton Reservoir at NARS_WQX-NLA_MA-10007 in Jul 2017. The available *E. coli* data from this station are too limited to assess according to the 2024 CALM, although it should be noted that the sample exceeded the 410 CFU/100ml STV (concentration of 2,419 MPN/100ml). Since the single *E. coli* concentration was so high, an Alert for bacteria is being identified for Norton Reservoir and additional sampling will be recommended to confirm if it should be impaired for *Escherichia coli* (*E. coli*).

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
NARS_WQX-NLA_MA-10007	EPA National Aquatic Resources Survey (NARS)	Water Quality	Norton Reservoir	Norton Reservoir	41.984740	-71.200300

Bacteria Data

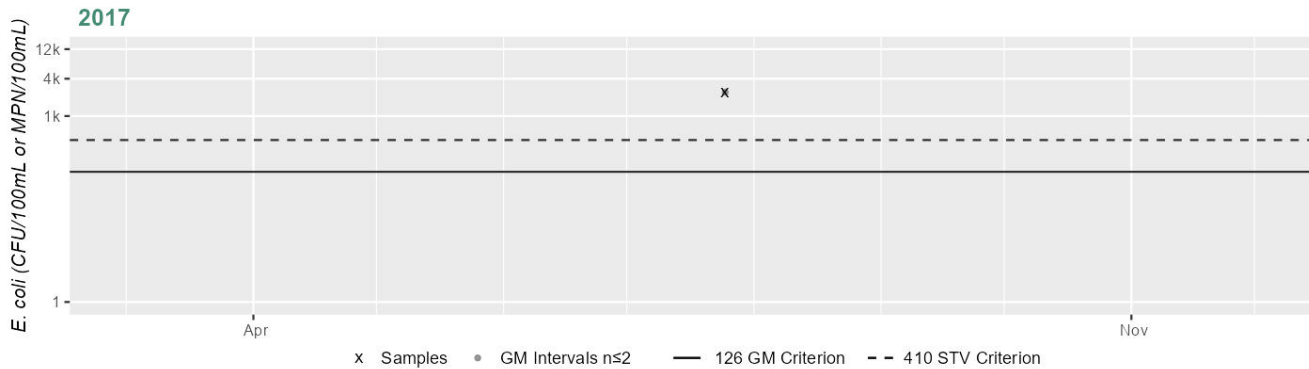
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (EPA 2024) (MassDEP Undated 3)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
NARS_WQX-NLA_MA-10007	EPA National Aquatic Resources Survey (NARS)	E. coli	07/25/17	07/25/17	1	2419	2419	2419

Station NARS_WQX-NLA_MA-10007 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	2419
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data (NWQMC 2025) (MassDEP Undated 3)

Data Year(s)	Summary
2012, 2017	In Norton Reservoir (MA62134), EPA (NARS_WQX) collected cyanobacteria cell count and cyanotoxin data at NARS_WQX-NLA12_MA-102 [41.989559, -71.205066, NLA12_MA-102] in 2012 and cyanotoxin data at NARS_WQX-NLA_MA-10007 in 2017. The cyanobacteria cell count did not exceed 70,000 cells/ml in the single water sample in 2012 (n=1). Analysis of microcystins and cylindrospermopsin samples from NARS_WQX-NLA12_MA-102 in 2012 (n=1) and NARS_WQX-NLA_MA-10007 in 2017 (n=2) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	YES
2024/26 Use Attainment Summary	

The Secondary Contact Recreation Use for Norton Reservoir (MA62134) continues to be assessed as Not Supporting. The prior Algae and Turbidity impairments (from the Aesthetics Use) are being carried forward. An Alert is being identified for *Escherichia coli* (*E. coli*) based on a high concentration recorded in 2017. EPA National Aquatic Resources Survey (NARS_WQX) collected cyanobacteria cell count and cyanotoxins data in 2012 at NARS_WQX-NLA12_MA-102 and cyanotoxins data in 2017 at NARS_WQX-NLA_MA-10007. The cyanobacteria cell count did not exceed 70,000 cells/ml in the single water sample in 2012 (n=1). Analysis of microcystins and cylindrospermopsin samples from NARS_WQX-NLA12_MA-102 in 2012 (n=1) and NARS_WQX-NLA_MA-10007 in 2017 (n=2) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. EPA (NARS_WQX) staff also collected one *E. coli* bacteria sample in Norton Reservoir at NARS_WQX-NLA_MA-10007 in Jul 2017. The available *E. coli* data from this station are too limited to assess according to the 2024 CALM, although it should be noted that the sample exceeded the 410 CFU/100ml STV (concentration of 2,419 MPN/100ml). Since the single *E. coli* concentration was so high, an Alert for bacteria is being identified for Norton Reservoir and additional sampling will be recommended to confirm if it should be impaired for *Escherichia coli* (*E. coli*).

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
NARS_WQX-NLA_MA-10007	EPA National Aquatic Resources Survey (NARS)	Water Quality	Norton Reservoir	Norton Reservoir	41.984740	-71.200300

Bacteria Data

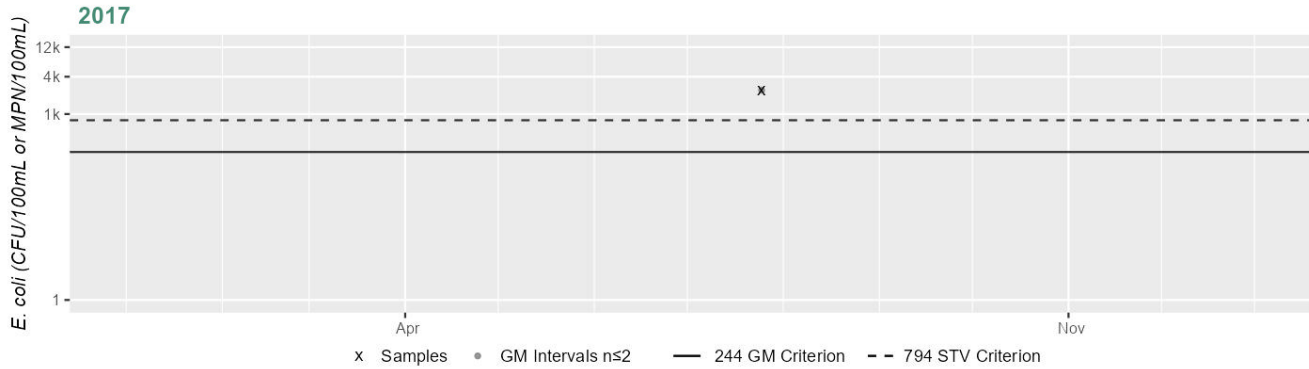
Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis) (EPA 2024) (MassDEP Undated 2)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
NARS_WQX-NLA_MA-10007	EPA National Aquatic Resources Survey (NARS)	E. coli	07/25/17	07/25/17	1	2419	2419	2419

Station NARS_WQX-NLA_MA-10007 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	2419
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	100%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Oakland Pond (MA62136)

Location:	Taunton.
AU Type:	FRESHWATER LAKE
AU Size:	38 ACRES
Classification/Qualifier:	B: WWF

No usable data were available for Oakland Pond (MA62136) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fish Passage Barrier*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--

Pine Swamp Brook (MA62-77)

Location:	Headwaters, perennial portion east of Route 138 (Broadway), Raynham to mouth at confluence with unnamed tributary to Kings Pond, east of King Philip Street, Raynham.
AU Type:	RIVER
AU Size:	1.1 MILES
Classification/Qualifier:	B

Pine Swamp Brook (MA62-77)

Watershed Area: 2.25 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	2.25	2.25	0.50	0.50
Agriculture	0%	0%	0%	0%
Developed	23.3%	23.3%	18%	18%
Natural	32.6%	32.6%	39%	39%
Wetland	44.2%	44.2%	43%	43%
Impervious	11.1%	11.1%	7.3%	7.3%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Benthic Macroinvertebrates	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	Escherichia Coli (E. Coli)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Pine Swamp Brook (MA62-77) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Pine Swamp Brook (MA62-77) is assessed as Fully Supporting based on the lack of objectionable conditions observed during summer 2013. MassDEP staff recorded aesthetics observations at one station close to the upstream end of this Pine Swamp Brook AU ~1770 ft downstream/east from Rt. 138 (Broadway) in Raynham (W2400) during the summer of 2013, as part of the MAP2 wadeable streams monitoring project (n=8). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded during the surveys.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2400	MassDEP	Water Quality	Pine Swamp Brook	[approximately 1770 feet downstream/east from Route 138 (Broadway), Raynham]	41.932518	-71.077577

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2400	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2400 on Pine Swamp Brook (MA62-77) during 8 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted high turbidity (n=1).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2400	2013	9	7	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2400	Pine Swamp Brook	2013	Aesthetics Impaired?	No	7	9
W2400	Pine Swamp Brook	2013	Aesthetics Impaired?	NR	2	9
W2400	Pine Swamp Brook	2013	Aquatic Plant Density, Overall	Moderate	1	9
W2400	Pine Swamp Brook	2013	Aquatic Plant Density, Overall	NA	1	9
W2400	Pine Swamp Brook	2013	Aquatic Plant Density, Overall	None	2	9
W2400	Pine Swamp Brook	2013	Aquatic Plant Density, Overall	Sparse	5	9
W2400	Pine Swamp Brook	2013	Color	Light Yellow/Tan	7	9
W2400	Pine Swamp Brook	2013	Color	Reddish	1	9
W2400	Pine Swamp Brook	2013	Color	Unobservable	1	9
W2400	Pine Swamp Brook	2013	Objectionable Deposits	NA	1	9
W2400	Pine Swamp Brook	2013	Objectionable Deposits	No	7	9
W2400	Pine Swamp Brook	2013	Objectionable Deposits	Unobservable	1	9
W2400	Pine Swamp Brook	2013	Odor	None	6	9
W2400	Pine Swamp Brook	2013	Odor	Rotting Vegetables	2	9
W2400	Pine Swamp Brook	2013	Odor	Sulfide (rotten egg)	1	9
W2400	Pine Swamp Brook	2013	Periphyton Density, Filamentous	None	7	9
W2400	Pine Swamp Brook	2013	Periphyton Density, Filamentous	NR	2	9
W2400	Pine Swamp Brook	2013	Periphyton Density, Film	None	7	9

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2400	Pine Swamp Brook	2013	Periphyton Density, Film	NR	2	9
W2400	Pine Swamp Brook	2013	Scum	NA	1	9
W2400	Pine Swamp Brook	2013	Scum	No	8	9
W2400	Pine Swamp Brook	2013	Turbidity	Highly Turbid	1	9
W2400	Pine Swamp Brook	2013	Turbidity	Moderately Turbid	1	9
W2400	Pine Swamp Brook	2013	Turbidity	None	4	9
W2400	Pine Swamp Brook	2013	Turbidity	Slightly Turbid	3	9

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for Pine Swamp Brook (MA62-77) continues to be assessed as Not Supporting. The prior <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being carried forward based on bacteria data exceeding thresholds at one station in 2013. MassDEP staff collected <i>E. coli</i> bacteria samples at the upstream end of Pine Swamp Brook at W2400 [~1770 ft downstream/E from Rt. 138 (Broadway), Raynham] from May-Sep 2013 (n=5). Analysis of the single year limited frequency dataset from this station indicated 100% of intervals had GMs >126 CFU/100ml, 1 sample exceeded the 410 CFU/100ml STV (maximum 19,860 CFU) and the seasonal GM was 264 CFU/100ml. The bacteria data from W2400 are indicative of an <i>E. coli</i> impairment.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2400	MassDEP	Water Quality	Pine Swamp Brook	[approximately 1770 feet downstream/east from Route 138 (Broadway), Raynham]	41.932518	-71.077577

Bacteria Data

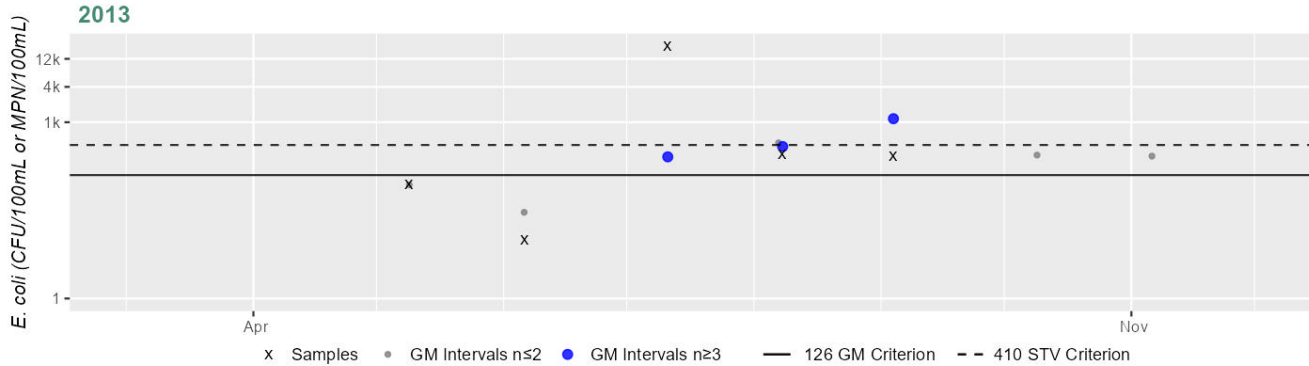
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2400	MassDEP	E. coli	05/09/13	09/04/13	5	10	19860	264

Station MASSDEP_W2400 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	264
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for Pine Swamp Brook (MA62-77) is assessed as Not Supporting. An <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being added based on a re-evaluation of bacteria data exceeding thresholds at one station in 2013. MassDEP staff collected <i>E. coli</i> bacteria samples at the upstream end of Pine Swamp Brook at W2400 [~1770 ft downstream/east from Rt. 138 (Broadway), Raynham] from May-Sep 2013 (n=5). Analysis of the single year limited frequency <i>E. coli</i> dataset from W2400 indicated 100% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV (maximum 19,860 CFU) and the overall GM was 264 CFU/100ml. The bacteria data from W2400 are indicative of an <i>E. coli</i> impairment.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2400	MassDEP	Water Quality	Pine Swamp Brook	[approximately 1770 feet downstream/east from Route 138 (Broadway), Raynham]	41.932518	-71.077577

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

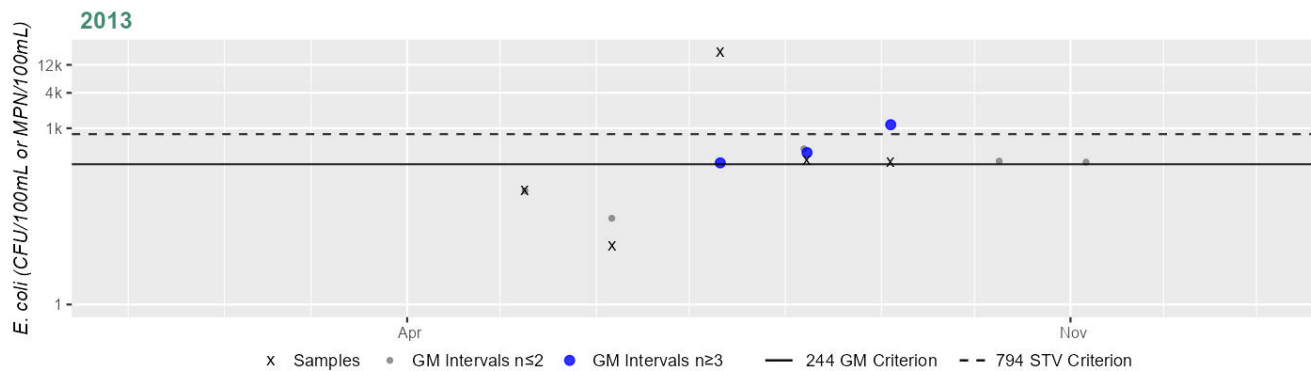
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2400	MassDEP	E. coli	05/09/13	09/04/13	5	10	19860	264

Station MASSDEP_W2400 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	264
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance

Current (2011-2022)

100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Plymouth Street Pond (MA62141)

Location:	Halifax/East Bridgewater.
AU Type:	FRESHWATER LAKE
AU Size:	165 ACRES
Classification/Qualifier:	B

No usable data were available for Plymouth Street Pond (MA62141) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fish Passage Barrier*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--

Pocksha Pond (MA62145)

Location:	Lakeville/Middleborough.
AU Type:	FRESHWATER LAKE
AU Size:	592 ACRES
Classification/Qualifier:	A: PWS, ORW

No usable data were available for Pocksha Pond (MA62145) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Poor Meadow Brook (MA62-34)

Location:	Headwaters, from wetland near County Street, Hanson to mouth at confluence with Satucket River, East Bridgewater.
AU Type:	RIVER
AU Size:	6.9 MILES
Classification/Qualifier:	B

Poor Meadow Brook (MA62-34)

Watershed Area: 16.36 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	16.36	3.83	3.64	0.71
Agriculture	0.8%	0.9%	0.7%	0.7%
Developed	30.5%	17.4%	20.3%	8.1%
Natural	42.3%	46.2%	35%	37%
Wetland	26.4%	35.5%	44%	54.1%
Impervious	14.6%	8.3%	9.4%	3.5%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Escherichia Coli (E. Coli)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
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Not Assessed	No
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2024/26 Use Attainment Summary

Fish toxics sampling has not been conducted, so the Fish Consumption Use for Poor Meadow Brook (MA62-34) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Poor Meadow Brook (MA62-34) is assessed as Fully Supporting based on the general lack of objectionable conditions noted by MassDEP staff during the summers of 2013 and 2019. MassDEP staff recorded aesthetics observations at one station halfway down Poor Meadow Brook; Main Street, Hanson (W0869) as part of the MAP2 wadeable streams monitoring project during the summer of 2013 (n=8) and for selected monitoring during the summer of 2019 (n=8). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded at this station, though minor trash was observed on five occasions in 2013.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0869	MassDEP	Water Quality	Poor Meadow Brook	[Main Street, Hanson]	42.042388	-70.898462

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W0869	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W0869 on Poor Meadow Brook (MA62-34) during 8 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted objectionable deposits (n=5).
W0869	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W0869 on Poor Meadow Brook (MA62-34) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W0869	2013	8	8	0
W0869	2019	8	7	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0869	Poor Meadow Brook	2013	Aesthetics Impaired?	No	7	8
W0869	Poor Meadow Brook	2013	Aesthetics Impaired?	NR	1	8
W0869	Poor Meadow Brook	2013	Aquatic Plant Density, Overall	None	6	8
W0869	Poor Meadow Brook	2013	Aquatic Plant Density, Overall	NR	1	8
W0869	Poor Meadow Brook	2013	Aquatic Plant Density, Overall	Sparse	1	8
W0869	Poor Meadow Brook	2013	Color	Light Yellow/Tan	7	8
W0869	Poor Meadow Brook	2013	Color	None	1	8
W0869	Poor Meadow Brook	2013	Objectionable Deposits	No	3	8
W0869	Poor Meadow Brook	2013	Objectionable Deposits	Yes	5	8
W0869	Poor Meadow Brook	2013	Odor	Musty (Basement)	1	8
W0869	Poor Meadow Brook	2013	Odor	None	7	8
W0869	Poor Meadow Brook	2013	Periphyton Density, Filamentous	None	6	8
W0869	Poor Meadow Brook	2013	Periphyton Density, Filamentous	Sparse	2	8
W0869	Poor Meadow Brook	2013	Periphyton Density, Film	None	6	8
W0869	Poor Meadow Brook	2013	Periphyton Density, Film	Sparse	2	8
W0869	Poor Meadow Brook	2013	Scum	No	8	8
W0869	Poor Meadow Brook	2013	Turbidity	None	5	8
W0869	Poor Meadow Brook	2013	Turbidity	Slightly Turbid	3	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0869	Poor Meadow Brook	2019	Aesthetics Impaired?	No	8	8
W0869	Poor Meadow Brook	2019	Aquatic Plant Density, Overall	None	7	8
W0869	Poor Meadow Brook	2019	Aquatic Plant Density, Overall	Unobservable	1	8
W0869	Poor Meadow Brook	2019	Color	Brownish	1	8
W0869	Poor Meadow Brook	2019	Color	Light Yellow/Tan	6	8
W0869	Poor Meadow Brook	2019	Color	None	1	8
W0869	Poor Meadow Brook	2019	Objectionable Deposits	No	7	8
W0869	Poor Meadow Brook	2019	Objectionable Deposits	Yes	1	8
W0869	Poor Meadow Brook	2019	Odor	None	8	8
W0869	Poor Meadow Brook	2019	Periphyton Density, Filamentous	None	5	8
W0869	Poor Meadow Brook	2019	Periphyton Density, Filamentous	Sparse	2	8
W0869	Poor Meadow Brook	2019	Periphyton Density, Filamentous	Unobservable	1	8
W0869	Poor Meadow Brook	2019	Periphyton Density, Film	None	6	8
W0869	Poor Meadow Brook	2019	Periphyton Density, Film	Sparse	1	8
W0869	Poor Meadow Brook	2019	Periphyton Density, Film	Unobservable	1	8
W0869	Poor Meadow Brook	2019	Scum	No	8	8
W0869	Poor Meadow Brook	2019	Turbidity	None	4	8
W0869	Poor Meadow Brook	2019	Turbidity	Slightly Turbid	4	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Poor Meadow Brook (MA62-34) continues to be assessed as Not Supporting. The prior *Escherichia coli* (*E. coli*) impairment is being carried forward based on bacteria data collected in 2013 and 2019 at 1 station. MassDEP staff collected *E. coli* bacteria samples halfway down Poor Meadow Brook at W0869 [Main St, Hanson] in 2013 and 2019 (n=5-6/yr). Analysis of the multi-year limited frequency dataset from this station indicated that both of these years had intervals where >20% of the GMs were >126 CFU/100ml (2013 & 2019, 100 & 28%) and cumulatively across years 50% of intervals had GMs >126 CFU/100ml. The bacteria data from W0869 are indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0869	MassDEP	Water Quality	Poor Meadow Brook	[Main Street, Hanson]	42.042388	-70.898462

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

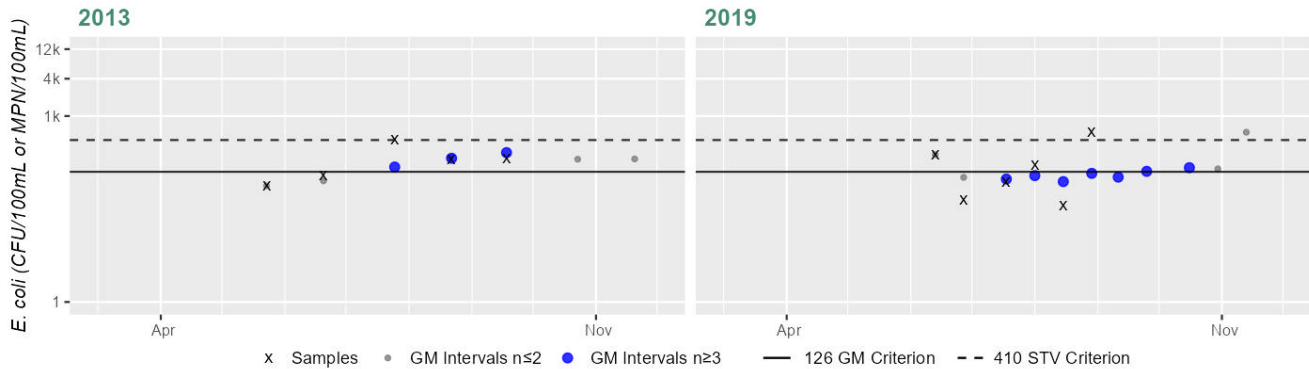
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0869	MassDEP	E. coli	05/23/13	09/18/13	5	75	420	168
W0869	MassDEP	E. coli	06/13/19	08/29/19	6	36	548	118

Station MASSDEP_W0869 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	168
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	1
%n>STV	20%

Variable*	Result
Samples	6
SeasGM	118
#GMI	7
#GMI Ex	2
%GMI Ex	28%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
50%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Poor Meadow Brook (MA62-34) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2013 & 2019 at 1 station. MassDEP staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022), halfway down Poor Meadow Brook at W0869 [Main St, Hanson] from Jul 2001 (historic n=1) and 2013 and 2019 (current n=5-6/yr). Analysis of the multi-year limited frequency current IR window dataset from this station indicated 1 out of 2 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml (2013, 33%), 0 yrs had ≥2 samples exceed the 794 CFU/100ml STV, and cumulatively across years 10% of intervals had GMs >244 CFU/100ml. While there was insufficient data in the historic IR window to assess the use, the *E. coli* data collected in the current IR window for Poor Meadow Brook is indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0869	MassDEP	Water Quality	Poor Meadow Brook	[Main Street, Hanson]	42.042388	-70.898462

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

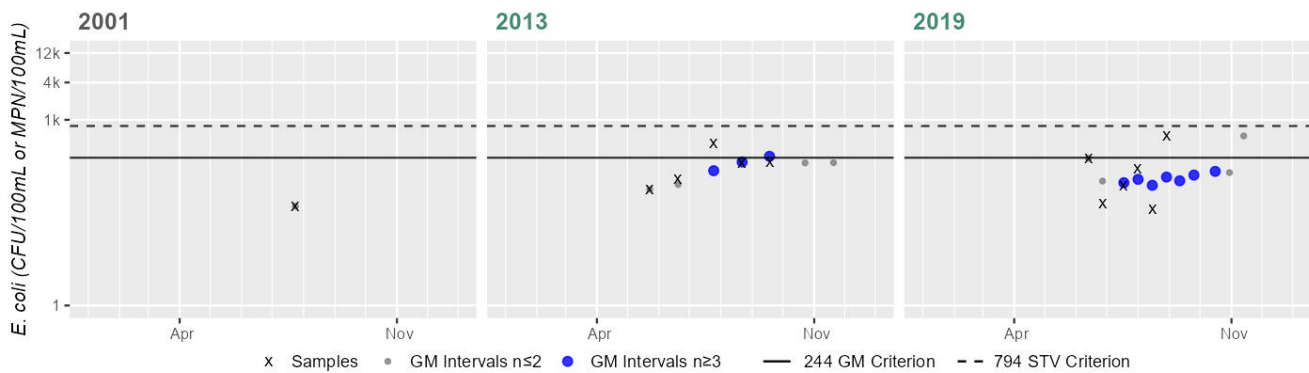
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0869	MassDEP	E. coli	07/24/01	07/24/01	1	40	40	40
W0869	MassDEP	E. coli	05/23/13	09/18/13	5	75	420	168
W0869	MassDEP	E. coli	06/13/19	08/29/19	6	36	548	118

Station MASSDEP_W0869 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	40
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	5
SeasGM	168
#GMI	3
#GMI Ex	1
%GMI Ex	33%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	118
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
 Historic (1997-2010) 0%
 Current (2011-2022) 10%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Poquoy Brook (MA62-71)

Location:	Headwaters, outlet Poquoy Brook Pond, Lakeville to mouth at confluence with the Taunton River, Taunton/Middleborough.
AU Type:	RIVER
AU Size:	2.2 MILES
Classification/Qualifier:	B

No usable data were available for Poquoy Brook (MA62-71) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fish Passage Barrier*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Agriculture (Y)	X	--	--	--	--
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--

Poquoy Brook Pond (MA62146)

Location:	Lakeville/Middleborough.
AU Type:	FRESHWATER LAKE
AU Size:	34 ACRES
Classification/Qualifier:	B

No usable data were available for Poquoy Brook Pond (MA62146) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fish Passage Barrier*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Agriculture (Y)	X	--	--	--	--
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--

Poquoy Pond (MA62147)

Location:	Lakeville.
AU Type:	FRESHWATER LAKE
AU Size:	10 ACRES
Classification/Qualifier:	B

No usable data were available for Poquoy Pond (MA62147) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Prospect Hill Pond (MA62149)

Location:	Taunton.
AU Type:	FRESHWATER LAKE
AU Size:	42 ACRES
Classification/Qualifier:	B

No usable data were available for Prospect Hill Pond (MA62149) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Puddingshear Brook (MA62-75)

Location:	Headwaters south of Old Center Street, Middleborough to mouth at confluence with Poquoy Brook, Middleborough.
AU Type:	RIVER
AU Size:	1.3 MILES
Classification/Qualifier:	B

Puddingshear Brook (MA62-75)

Watershed Area: 1.20 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	1.20	1.20	0.30	0.30
Agriculture	8.1%	8.1%	1.1%	1.1%
Developed	24.6%	24.6%	8.4%	8.4%
Natural	52%	52%	52.7%	52.7%
Wetland	15.3%	15.3%	37.8%	37.8%
Impervious	15.1%	15.1%	4.5%	4.5%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Benthic Macroinvertebrates	--	Unchanged
5	5	Escherichia Coli (E. Coli)	--	Unchanged
5	5	Temperature	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--
Temperature	Source Unknown (N)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Puddingshear Brook (MA62-75) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Puddingshear Brook (MA62-75) is assessed as Fully Supporting based on the lack of objectionable conditions observed during the summer of 2013. MassDEP staff recorded aesthetics observations at one station close to the downstream end of Puddingshear Brook, ~335 ft downstream/southwest from Clayton Road in Middleborough (W2379) during the summer of 2013, as part of the MAP2 wadeable streams monitoring project (n=9). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded during the surveys.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2379	MassDEP	Water Quality	Puddingshear Brook	[approximately 335 feet downstream/southwest from Clayton Road, Middleborough]	41.907438	-70.979916

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2379	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2379 on Puddingshear Brook (MA62-75) during 8 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2379	2013	9	7	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2379	Puddingshear Brook	2013	Aesthetics Impaired?	No	7	9
W2379	Puddingshear Brook	2013	Aesthetics Impaired?	NR	2	9
W2379	Puddingshear Brook	2013	Aquatic Plant Density, Overall	NA	1	9
W2379	Puddingshear Brook	2013	Aquatic Plant Density, Overall	None	4	9
W2379	Puddingshear Brook	2013	Aquatic Plant Density, Overall	Sparse	4	9
W2379	Puddingshear Brook	2013	Color	Light Yellow/Tan	6	9
W2379	Puddingshear Brook	2013	Color	None	2	9
W2379	Puddingshear Brook	2013	Color	Reddish	1	9
W2379	Puddingshear Brook	2013	Objectionable Deposits	NA	1	9
W2379	Puddingshear Brook	2013	Objectionable Deposits	No	8	9
W2379	Puddingshear Brook	2013	Odor	None	8	9
W2379	Puddingshear Brook	2013	Odor	NR	1	9
W2379	Puddingshear Brook	2013	Periphyton Density, Filamentous	None	7	9
W2379	Puddingshear Brook	2013	Periphyton Density, Filamentous	NR	2	9
W2379	Puddingshear Brook	2013	Periphyton Density, Film	None	7	9
W2379	Puddingshear Brook	2013	Periphyton Density, Film	NR	2	9
W2379	Puddingshear Brook	2013	Scum	NA	1	9
W2379	Puddingshear Brook	2013	Scum	No	8	9

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2379	Puddingshear Brook	2013	Turbidity	None	8	9
W2379	Puddingshear Brook	2013	Turbidity	Slightly Turbid	1	9

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for Puddingshear Brook (MA62-75) continues to be assessed as Not Supporting. The prior <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being carried forward based on bacteria data exceeding thresholds at one station in 2013. MassDEP staff collected <i>E. coli</i> bacteria samples close to the downstream end of Puddingshear Brook at W2379 [~335 ft downstream/southwest from Clayton Rd, Middleborough] from May-Sep 2013 (n=5). Analysis of the single year limited frequency <i>E. coli</i> dataset from W2379 indicated 100% of intervals had GMs >126 CFU/100ml, 3 samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 279 CFU/100ml. Bacteria data from W2379 are indicative of an <i>E. coli</i> impairment.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2379	MassDEP	Water Quality	Puddingshear Brook	[approximately 335 feet downstream/southwest from Clayton Road, Middleborough]	41.907438	-70.979916

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

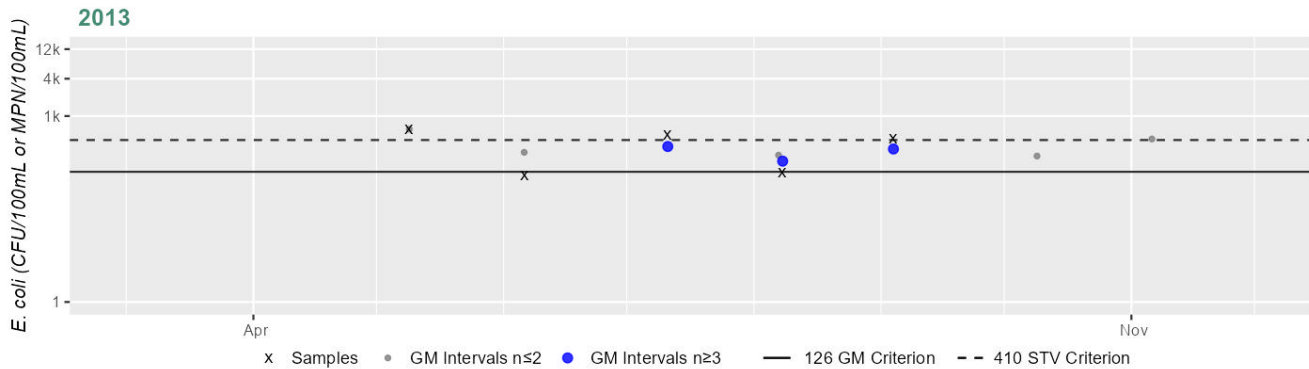
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2379	MassDEP	E. coli	05/09/13	09/04/13	5	110	613	279

Station MASSDEP_W2379 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	279
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	3
%n>STV	60%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Puddingshear Brook (MA62-75) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data collected at one station in 2013. MassDEP staff collected *E. coli* bacteria samples close to the downstream end of Puddingshear Brook at W2379 [~335 ft downstream/southwest from Clayton Rd, Middleborough] from May-Sep 2013 (n=5). Analysis of the single year limited frequency dataset from this station indicated that while 66% of intervals had GMs >244 CFU/100ml and the overall GM was 279 CFU/100ml, no samples exceeded the 794 CFU/100ml STV. *E. coli* data from W2379 were indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2379	MassDEP	Water Quality	Puddingshear Brook	[approximately 335 feet downstream/southwest from Clayton Road, Middleborough]	41.907438	-70.979916

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

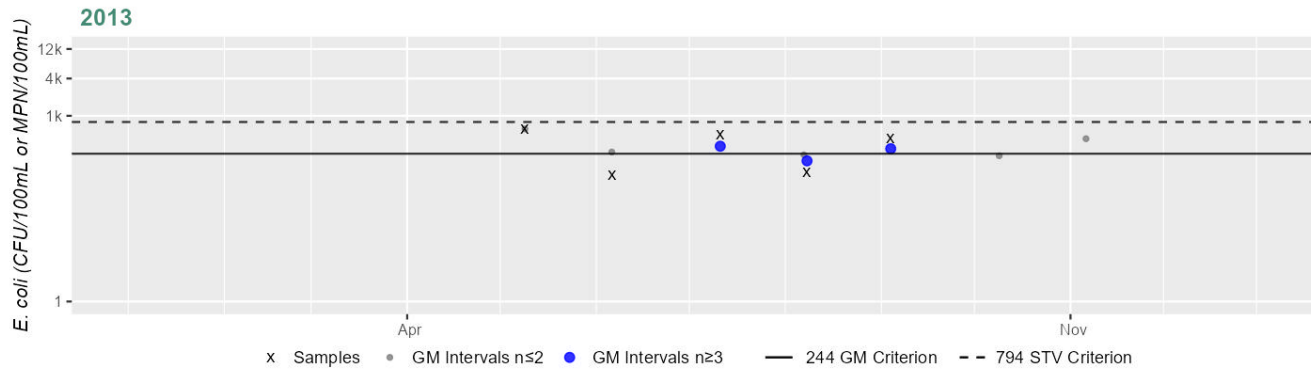
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2379	MassDEP	E. coli	05/09/13	09/04/13	5	110	613	279

Station MASSDEP_W2379 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	279
#GMI	3
#GMI Ex	2
%GMI Ex	66%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

66%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 Recent 5 Years may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Puds Pond (MA62151)

Location:	Sharon/Easton.
AU Type:	FRESHWATER LAKE
AU Size:	23 ACRES
Classification/Qualifier:	B

No usable data were available for Puds Pond (MA62151) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Queset Brook (MA62-67)

Location:	Headwaters, outlet Ames Long Pond, Easton to inlet Longwater Pond, Easton (through former 2014 segment: Shovelshop Pond MA62172) (formerly part of 2014 segment: Queset Brook MA62-21).
AU Type:	RIVER
AU Size:	1.5 MILES
Classification/Qualifier:	B

No usable data were available for Queset Brook (MA62-67) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Queset Brook (MA62-68)

Location:	From outlet Longwater Pond, Easton to mouth at confluence with Coweeset Brook, West Bridgewater (formerly part of 2014 segment: Queset Brook MA62-21).
AU Type:	RIVER
AU Size:	3.3 MILES
Classification/Qualifier:	B

No usable data were available for Queset Brook (MA62-68) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

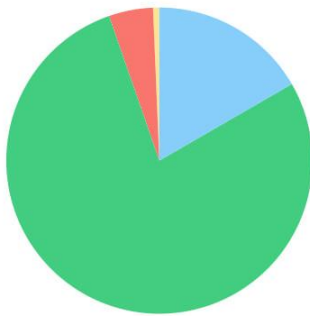
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Rattlesnake Brook (MA62-45)

Location:	Headwaters east of Riggerbach Road, Fall River to mouth at confluence with Assonet River, Freetown.
AU Type:	RIVER
AU Size:	3.2 MILES
Classification/Qualifier:	B

Rattlesnake Brook (MA62-45)

Watershed Area: 6.56 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	6.56	6.12	1.51	1.47
Agriculture	0.7%	0.7%	0.1%	0.1%
Developed	4.7%	4.9%	4.1%	4.2%
Natural	78%	76.8%	69%	69.1%
Wetland	16.7%	17.6%	26.8%	26.6%
Impervious	2%	2.1%	2%	2%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Rattlesnake Brook (MA62-45) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Rattlesnake Brook (MA62-45) is assessed as Fully Supporting based on the general lack of objectionable conditions noted by MassDEP staff during the summers of 2013-2016 & 2019. MassDEP staff recorded aesthetics observations at two stations in the downstream half of Rattlesnake Brook during the summers of 2013, 2014, 2015 and 2016 as part of the Reference Site Network monitoring project and for selected monitoring during the summer of 2019, from up to downstream as follows: ~1300 ft upstream/east from Rt. 24/79 (Amvets Memorial Highway) in Freetown (W2466) in 2014, 2015, 2016 & 2019 (n=4/yr) and ~570 ft upstream/east from Rt. 24/79 (Amvets Memorial Highway) in Freetown (W2412) in 2013 (n=5). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded at either site during any of the surveys.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2412	MassDEP	Water Quality	Rattlesnake Brook	[approximately 570 feet upstream/east from Route 24/79 (Amvets Memorial Highway), Freetown]	41.774440	-71.085280
W2466	MassDEP	Water Quality	Rattlesnake Brook	[approximately 1300 feet upstream/southeast from Route 24/79 (Amvets Memorial Highway), Freetown]	41.772548	-71.084948

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2412	2013	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2412 on Rattlesnake Brook (MA62-45) during 5 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2466	2014	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2466 on Rattlesnake Brook (MA62-45) during 4 site visits between May 2014 and Aug 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted an aesthetics impairment flag (n=1).
W2466	2015	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2466 on Rattlesnake Brook (MA62-45) during 4 site visits between May 2015 and Aug 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2466	2016	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2466 on Rattlesnake Brook (MA62-45) during 4 site visits between May 2016 and Aug 2016. There were some objectionable conditions recorded, including dense/very dense filamentous algae (n=2). These conditions are indicative of an Alert status.
W2466	2019	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2466 on Rattlesnake Brook (MA62-45) during 4 site visits between Jun 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2412	2013	5	5	0
W2466	2014	4	4	0
W2466	2015	4	4	0
W2466	2016	4	4	2
W2466	2019	4	4	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2412	Rattlesnake Brook	2013	Aesthetics Impaired?	No	4	5
W2412	Rattlesnake Brook	2013	Aesthetics Impaired?	NR	1	5
W2412	Rattlesnake Brook	2013	Aquatic Plant Density, Overall	None	5	5
W2412	Rattlesnake Brook	2013	Color	Light Yellow/Tan	1	5
W2412	Rattlesnake Brook	2013	Color	None	1	5
W2412	Rattlesnake Brook	2013	Color	Reddish	3	5
W2412	Rattlesnake Brook	2013	Objectionable Deposits	No	5	5
W2412	Rattlesnake Brook	2013	Odor	None	5	5
W2412	Rattlesnake Brook	2013	Periphyton Density, Filamentous	None	5	5
W2412	Rattlesnake Brook	2013	Periphyton Density, Film	None	4	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2412	Rattlesnake Brook	2013	Periphyton Density, Film	Sparse	1	5
W2412	Rattlesnake Brook	2013	Scum	No	5	5
W2412	Rattlesnake Brook	2013	Turbidity	None	5	5
W2466	Rattlesnake Brook	2014	Aesthetics Impaired?	No	3	4
W2466	Rattlesnake Brook	2014	Aesthetics Impaired?	Yes	1	4
W2466	Rattlesnake Brook	2014	Aquatic Plant Density, Overall	None	4	4
W2466	Rattlesnake Brook	2014	Color	Reddish	4	4
W2466	Rattlesnake Brook	2014	Objectionable Deposits	No	4	4
W2466	Rattlesnake Brook	2014	Odor	None	4	4
W2466	Rattlesnake Brook	2014	Periphyton Density, Filamentous	None	3	4
W2466	Rattlesnake Brook	2014	Periphyton Density, Filamentous	Sparse	1	4
W2466	Rattlesnake Brook	2014	Periphyton Density, Film	None	3	4
W2466	Rattlesnake Brook	2014	Periphyton Density, Film	Sparse	1	4
W2466	Rattlesnake Brook	2014	Scum	Yes	4	4
W2466	Rattlesnake Brook	2014	Turbidity	None	4	4
W2466	Rattlesnake Brook	2015	Aesthetics Impaired?	No	4	4
W2466	Rattlesnake Brook	2015	Aquatic Plant Density, Overall	None	4	4
W2466	Rattlesnake Brook	2015	Color	Light Yellow/Tan	3	4
W2466	Rattlesnake Brook	2015	Color	Reddish	1	4
W2466	Rattlesnake Brook	2015	Objectionable Deposits	No	4	4
W2466	Rattlesnake Brook	2015	Odor	None	3	4
W2466	Rattlesnake Brook	2015	Odor	NR	1	4

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2466	Rattlesnake Brook	2015	Periphyton Density, Filamentous	None	4	4
W2466	Rattlesnake Brook	2015	Periphyton Density, Film	None	4	4
W2466	Rattlesnake Brook	2015	Scum	No	4	4
W2466	Rattlesnake Brook	2015	Turbidity	None	4	4
W2466	Rattlesnake Brook	2016	Aesthetics Impaired?	No	4	4
W2466	Rattlesnake Brook	2016	Aquatic Plant Density, Overall	None	4	4
W2466	Rattlesnake Brook	2016	Color	Light Yellow/Tan	3	4
W2466	Rattlesnake Brook	2016	Color	Reddish	1	4
W2466	Rattlesnake Brook	2016	Objectionable Deposits	No	4	4
W2466	Rattlesnake Brook	2016	Odor	None	4	4
W2466	Rattlesnake Brook	2016	Periphyton Density, Filamentous	None	1	4
W2466	Rattlesnake Brook	2016	Periphyton Density, Filamentous	Sparse	1	4
W2466	Rattlesnake Brook	2016	Periphyton Density, Filamentous	Very Dense	2	4
W2466	Rattlesnake Brook	2016	Periphyton Density, Film	None	3	4
W2466	Rattlesnake Brook	2016	Periphyton Density, Film	Sparse	1	4
W2466	Rattlesnake Brook	2016	Scum	No	4	4
W2466	Rattlesnake Brook	2016	Turbidity	None	4	4
W2466	Rattlesnake Brook	2019	Aesthetics Impaired?	No	4	4
W2466	Rattlesnake Brook	2019	Aquatic Plant Density, Overall	None	4	4
W2466	Rattlesnake Brook	2019	Color	Brownish	1	4
W2466	Rattlesnake Brook	2019	Color	Light Yellow/Tan	1	4
W2466	Rattlesnake Brook	2019	Color	Reddish	2	4

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2466	Rattlesnake Brook	2019	Objectionable Deposits	No	4	4
W2466	Rattlesnake Brook	2019	Odor	None	4	4
W2466	Rattlesnake Brook	2019	Periphyton Density, Filamentous	None	4	4
W2466	Rattlesnake Brook	2019	Periphyton Density, Film	None	4	4
W2466	Rattlesnake Brook	2019	Scum	No	4	4
W2466	Rattlesnake Brook	2019	Turbidity	None	4	4

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Primary Contact Recreation Use for Rattlesnake Brook (MA62-45) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
The bacteria data available are too limited to assess the Secondary Contact Recreation Use for Rattlesnake Brook (MA62-45) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected <i>E. coli</i> bacteria samples close to the downstream end of Rattlesnake Brook at two stations in 2001, from upstream to downstream as follows: W0852 [S Main St, Freetown] in September (n=1) and W0826 [Narrows Rd, Freetown] in July (n=1). The historic <i>E. coli</i> data at both stations are too limited to assess according to the 2024 CALM.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0826	MassDEP	Water Quality	Rattlesnake Brook	[Narrows Road, Freetown]	41.781918	-71.086480
W0852	MassDEP	Water Quality	Rattlesnake Brook	[South Main Street, Freetown]	41.776812	-71.089124

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

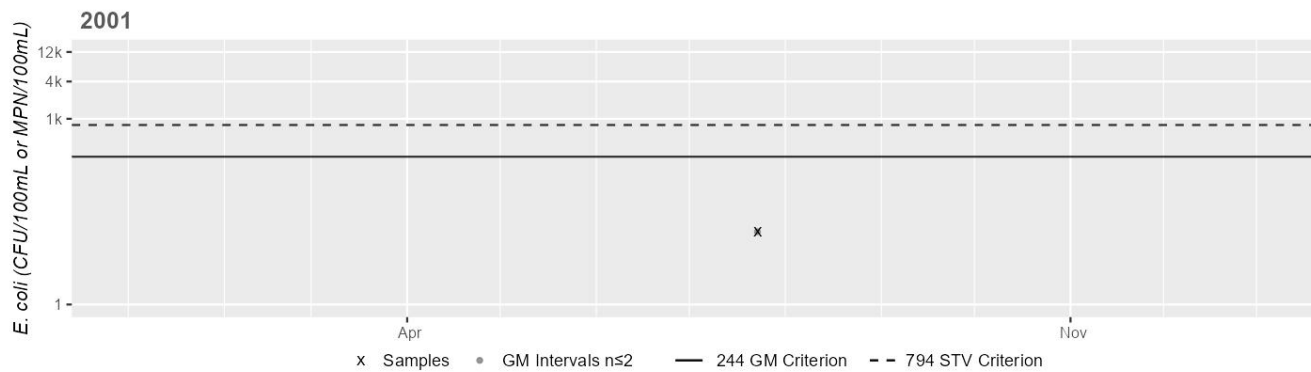
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0826	MassDEP	E. coli	07/23/01	07/23/01	1	15	15	15
W0852	MassDEP	E. coli	09/18/01	09/18/01	1	5	5	4

Station MASSDEP_W0826 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	15
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

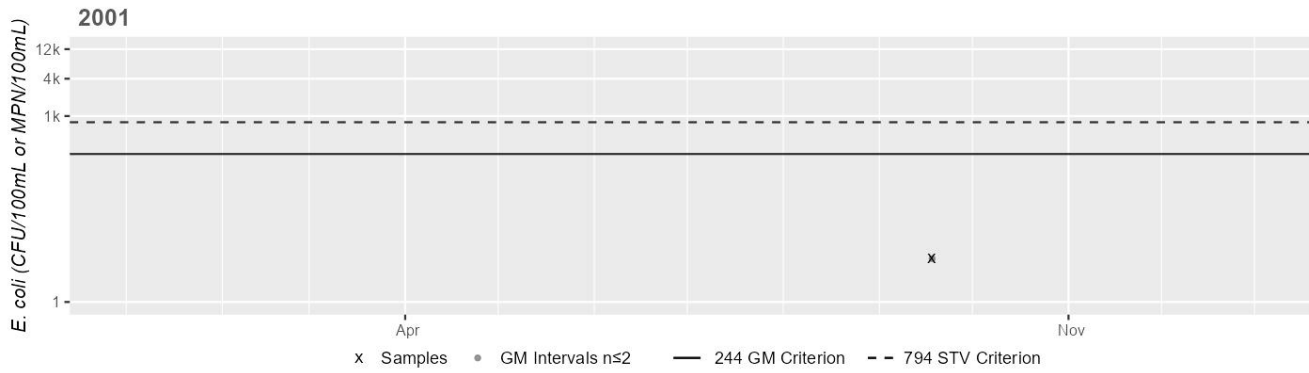
Historic (1997-2010)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W0852 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	5
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Reservoir (White Oak Reservoir) (MA62157)

Location:	Hanson.
AU Type:	FRESHWATER LAKE
AU Size:	13 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	4a	(Fanwort*)	--	Unchanged
5	4a	Nutrient/Eutrophication Biological Indicators	R1_MA_2022_01	Changed
5	4a	Phosphorus, Total	R1_MA_2022_01	Changed

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Agriculture (Y)	X	--	X	X	X
Nutrient/Eutrophication Biological Indicators	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	X	X	X
Nutrient/Eutrophication Biological Indicators	Rural (Residential Areas) (N)	X	--	X	X	X
Phosphorus, Total	Agriculture (Y)	X	--	--	--	--
Phosphorus, Total	Discharges from Municipal Separate Storm Sewer Systems (MS4) (Y)	X	--	--	--	--
Phosphorus, Total	Rural (Residential Areas) (N)	X	--	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Nutrient/Eutrophication Biological Indicators	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: West and East Monponsett Pond System TMDLs For Total Phosphorus (Report CN 446.2, approved 7/20/2022, ATTAINS Action ID: R1_MA_2022_01)
Phosphorus, Total	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: West and East Monponsett Pond System TMDLs For Total Phosphorus (Report CN 446.2, approved 7/20/2022, ATTAINS Action ID: R1_MA_2022_01)

Recommendations

2024/26 Recommendations
2024/26IR [Aesthetics, Low] Additional monitoring should be conducted for Reservoir (White Oak Reservoir) (MA62157) in particular at the deep hole {W2173} and at the inlet of White Oak Brook in the northwest lobe of the reservoir {W2242}, focusing on density/coverage of Aquatic Plants (Macrophytes) and Algae, to determine if there is evidence of impairment. This AU was impaired during the 2016IR cycle for Nutrient Eutrophication Biological Indicators due to duckweed cover. A new Alert is being identified during this 2024/26IR for Aquatic Plants, due to dense coverage of plants observed at the deep hole {W2173} in 2012, 2013 & 2015 and the inlet {W2242} in 2011, 2013 & 2014. A new Alert is also being identified during the 2024/26IR for dense algae due to observations at the deep hole {W2173} in July and September 2015. This is of low priority.

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Reservoir (White Oak Reservoir) (MA62157) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	YES

2024/26 Use Attainment Summary

The Aesthetics Use for Reservoir (White Oak Reservoir) (MA62157) continues to be assessed as Not Supporting with the Nutrient Eutrophication Biological Indicators impairment being carried forward, based on observations of excessive duckweed cover on the waterbody surface noted by MassDEP staff during the summers of 2011-2015. An Alert is being identified for Aquatic Plants (Macrophytes) and Algae. MassDEP staff recorded aesthetics observations at two stations in Hanson for this Reservoir (White Oak Reservoir) AU during the summers of 2011-2015 for the WPP Lakes Baseline project; at the deep hole, approximate center of impoundment (W2173 in 2012-2013 n=1-2/yr and in 2015 n=5) and at the inlet of White Oak Brook in northwestern lobe of the reservoir, south of South Street (W2242 in 2011-2014 n=2-3/yr). At both stations objectionable conditions were recorded regularly during the surveys, including grey or green water color and dense/very dense duckweed coverage on the waterbody surface (percentage cover ranging from 25%-90% at W2242 and from 1%-50% at W2173). Field staff also noted dense and very dense plant cover on the waterbody surface at W2173 in 2012 & 2013 (n=1/yr) and in 2015 (n=4), also at W2242 in 2011, 2013 & 2014 (n=1/yr), which is indicative of an Aquatic Plants (Macrophytes) Alert status. Additionally, field staff also noted dense algae (50-75% coverage) at W2173 in July and September 2015, which is indicative of an Algae Alert status. An aesthetics impairment flag was raised by field staff for this waterbody, once in 2013 and twice in 2014.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2173	MassDEP	Water Quality	White Oak Brook/Reservoir	[deep hole, approximate center of impoundment, Hanson]	42.029884	-70.852628
W2242	MassDEP	Water Quality	White Oak Brook/Reservoir	[at inlet of White Oak Brook in northwestern lobe of 'White Oak Reservoir', south of South Street, Hanson]	42.031881	-70.854356

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2173	2012	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2173 on Reservoir (White Oak Reservoir) (MA62157) during 2 site visits between Jul 2012 and Sep 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted grey water color (n=1) and dense/very dense plant cover on the waterbody surface (n=1). However, aesthetic observations are limited (n<3).

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2173	2013	1	Aesthetic observations were made by MassDEP field sampling crews at Station W2173 on Reservoir (White Oak Reservoir) (MA62157) during 1 site visit on Jul 30, 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted dense/very dense plant cover on the waterbody surface (n=1) and dense/very dense duckweed cover on the waterbody surface (n=1). However, aesthetic observations are limited (n<3).
W2173	2015	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2173 on Reservoir (White Oak Reservoir) (MA62157) during 5 site visits between May 2015 and Sep 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted an aesthetics impairment flag (n=1), green water color (n=2), high turbidity (n=1), and dense/very dense plant cover on the waterbody surface (n=4).
W2242	2011	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2242 on Reservoir (White Oak Reservoir) (MA62157) during 3 site visits between Jun 2011 and Aug 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted dense/very dense plant cover on the waterbody surface (n=1) and dense/very dense duckweed cover on the waterbody surface (n=1).
W2242	2012	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2242 on Reservoir (White Oak Reservoir) (MA62157) during 2 site visits between Jun 2012 and Aug 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted dense/very dense duckweed cover on the waterbody surface (n=1). However, aesthetic observations are limited (n<3).
W2242	2013	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2242 on Reservoir (White Oak Reservoir) (MA62157) during 2 site visits between Jun 2013 and Aug 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted an aesthetics impairment flag (n=1), dense/very dense plant cover on the waterbody surface (n=1), and dense/very dense duckweed cover on the waterbody surface (n=1). However, aesthetic observations are limited (n<3).
W2242	2014	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2242 on Reservoir (White Oak Reservoir) (MA62157) during 3 site visits between Jul 2014 and Sep 2014. There were some objectionable conditions recorded, including an aesthetics impairment flag (n=2) and dense/very dense duckweed cover on the waterbody surface (n=2). Field staff also noted dense/very dense plant cover on the waterbody surface (n=1). These conditions are indicative of an Alert status.

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2173	Reservoir (White Oak Reservoir)	2012	Aquatic Plant Density, Overall	Dense	1	2

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2173	Reservoir (White Oak Reservoir)	2012	Aquatic Plant Density, Overall	NR	1	2
W2173	Reservoir (White Oak Reservoir)	2012	Aquatic Plant Density, Whole Lake	Moderate	1	2
W2173	Reservoir (White Oak Reservoir)	2012	Aquatic Plant Density, Whole Lake	Very Dense	1	2
W2173	Reservoir (White Oak Reservoir)	2012	Color	Brownish	1	2
W2173	Reservoir (White Oak Reservoir)	2012	Color	Greyish	1	2
W2173	Reservoir (White Oak Reservoir)	2012	Duckweed Density, Whole Lake	Moderate	1	2
W2173	Reservoir (White Oak Reservoir)	2012	Duckweed Density, Whole Lake	Sparse	1	2
W2173	Reservoir (White Oak Reservoir)	2012	Objectionable Deposits	No	2	2
W2173	Reservoir (White Oak Reservoir)	2012	Odor	None	2	2
W2173	Reservoir (White Oak Reservoir)	2012	Scum	Yes	2	2
W2173	Reservoir (White Oak Reservoir)	2012	Turbidity	None	1	2
W2173	Reservoir (White Oak Reservoir)	2012	Turbidity	Slightly Turbid	1	2
W2173	Reservoir (White Oak Reservoir)	2013	Aesthetics Impaired?	No	1	1
W2173	Reservoir (White Oak Reservoir)	2013	Aquatic Plant Density, Overall	Dense	1	1
W2173	Reservoir (White Oak Reservoir)	2013	Aquatic Plant Density, Whole Lake	Very Dense	1	1
W2173	Reservoir (White Oak Reservoir)	2013	Color	Brownish	1	1
W2173	Reservoir (White Oak Reservoir)	2013	Duckweed Density, Whole Lake	Dense	1	1
W2173	Reservoir (White Oak Reservoir)	2013	Objectionable Deposits	No	1	1
W2173	Reservoir (White Oak Reservoir)	2013	Odor	None	1	1
W2173	Reservoir (White Oak Reservoir)	2013	Scum	Yes	1	1
W2173	Reservoir (White Oak Reservoir)	2013	Turbidity	None	1	1
W2173	Reservoir (White Oak Reservoir)	2015	Aesthetics Impaired?	No	4	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2173	Reservoir (White Oak Reservoir)	2015	Aesthetics Impaired?	Yes	1	5
W2173	Reservoir (White Oak Reservoir)	2015	Aquatic Plant Density, Overall	Moderate	1	5
W2173	Reservoir (White Oak Reservoir)	2015	Aquatic Plant Density, Overall	None	2	5
W2173	Reservoir (White Oak Reservoir)	2015	Aquatic Plant Density, Overall	NR	1	5
W2173	Reservoir (White Oak Reservoir)	2015	Aquatic Plant Density, Overall	Sparse	1	5
W2173	Reservoir (White Oak Reservoir)	2015	Aquatic Plant Density, Whole Lake	Dense	3	5
W2173	Reservoir (White Oak Reservoir)	2015	Aquatic Plant Density, Whole Lake	Moderate	1	5
W2173	Reservoir (White Oak Reservoir)	2015	Aquatic Plant Density, Whole Lake	Very Dense	1	5
W2173	Reservoir (White Oak Reservoir)	2015	Color	Brownish	1	5
W2173	Reservoir (White Oak Reservoir)	2015	Color	Greenish	2	5
W2173	Reservoir (White Oak Reservoir)	2015	Color	Light Yellow/Tan	2	5
W2173	Reservoir (White Oak Reservoir)	2015	Duckweed Density, Whole Lake	Moderate	1	5
W2173	Reservoir (White Oak Reservoir)	2015	Duckweed Density, Whole Lake	Sparse	4	5
W2173	Reservoir (White Oak Reservoir)	2015	Objectionable Deposits	No	4	5
W2173	Reservoir (White Oak Reservoir)	2015	Objectionable Deposits	Yes	1	5
W2173	Reservoir (White Oak Reservoir)	2015	Odor	None	5	5
W2173	Reservoir (White Oak Reservoir)	2015	Scum	No	3	5
W2173	Reservoir (White Oak Reservoir)	2015	Scum	Yes	2	5
W2173	Reservoir (White Oak Reservoir)	2015	Turbidity	Highly Turbid	1	5
W2173	Reservoir (White Oak Reservoir)	2015	Turbidity	Moderately Turbid	1	5
W2173	Reservoir (White Oak Reservoir)	2015	Turbidity	None	2	5
W2173	Reservoir (White Oak Reservoir)	2015	Turbidity	Slightly Turbid	1	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2242	Reservoir (White Oak Reservoir)	2011	Aquatic Plant Density, Overall	NR	3	3
W2242	Reservoir (White Oak Reservoir)	2011	Aquatic Plant Density, Whole Lake	Dense	1	3
W2242	Reservoir (White Oak Reservoir)	2011	Aquatic Plant Density, Whole Lake	Moderate	1	3
W2242	Reservoir (White Oak Reservoir)	2011	Aquatic Plant Density, Whole Lake	NR	1	3
W2242	Reservoir (White Oak Reservoir)	2011	Color	Brownish	1	3
W2242	Reservoir (White Oak Reservoir)	2011	Color	NR	2	3
W2242	Reservoir (White Oak Reservoir)	2011	Duckweed Density, Whole Lake	Moderate	2	3
W2242	Reservoir (White Oak Reservoir)	2011	Duckweed Density, Whole Lake	Very Dense	1	3
W2242	Reservoir (White Oak Reservoir)	2011	Objectionable Deposits	NA	1	3
W2242	Reservoir (White Oak Reservoir)	2011	Objectionable Deposits	NR	1	3
W2242	Reservoir (White Oak Reservoir)	2011	Objectionable Deposits	Yes	1	3
W2242	Reservoir (White Oak Reservoir)	2011	Odor	None	1	3
W2242	Reservoir (White Oak Reservoir)	2011	Odor	NR	2	3
W2242	Reservoir (White Oak Reservoir)	2011	Scum	NA	1	3
W2242	Reservoir (White Oak Reservoir)	2011	Scum	NR	1	3
W2242	Reservoir (White Oak Reservoir)	2011	Scum	Yes	1	3
W2242	Reservoir (White Oak Reservoir)	2011	Turbidity	NR	2	3
W2242	Reservoir (White Oak Reservoir)	2011	Turbidity	Slightly Turbid	1	3
W2242	Reservoir (White Oak Reservoir)	2012	Aquatic Plant Density, Overall	NR	2	2
W2242	Reservoir (White Oak Reservoir)	2012	Aquatic Plant Density, Whole Lake	Moderate	1	2
W2242	Reservoir (White Oak Reservoir)	2012	Aquatic Plant Density, Whole Lake	NR	1	2
W2242	Reservoir (White Oak Reservoir)	2012	Color	NR	2	2

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2242	Reservoir (White Oak Reservoir)	2012	Duckweed Density, Whole Lake	Dense	1	2
W2242	Reservoir (White Oak Reservoir)	2012	Duckweed Density, Whole Lake	Moderate	1	2
W2242	Reservoir (White Oak Reservoir)	2012	Objectionable Deposits	No	1	2
W2242	Reservoir (White Oak Reservoir)	2012	Objectionable Deposits	NR	1	2
W2242	Reservoir (White Oak Reservoir)	2012	Odor	NR	2	2
W2242	Reservoir (White Oak Reservoir)	2012	Scum	NR	1	2
W2242	Reservoir (White Oak Reservoir)	2012	Scum	Yes	1	2
W2242	Reservoir (White Oak Reservoir)	2012	Turbidity	NR	2	2
W2242	Reservoir (White Oak Reservoir)	2013	Aesthetics Impaired?	NR	1	2
W2242	Reservoir (White Oak Reservoir)	2013	Aesthetics Impaired?	Yes	1	2
W2242	Reservoir (White Oak Reservoir)	2013	Aquatic Plant Density, Overall	NR	2	2
W2242	Reservoir (White Oak Reservoir)	2013	Aquatic Plant Density, Whole Lake	NR	1	2
W2242	Reservoir (White Oak Reservoir)	2013	Aquatic Plant Density, Whole Lake	Very Dense	1	2
W2242	Reservoir (White Oak Reservoir)	2013	Color	NR	1	2
W2242	Reservoir (White Oak Reservoir)	2013	Color	Unobservable	1	2
W2242	Reservoir (White Oak Reservoir)	2013	Duckweed Density, Whole Lake	Moderate	1	2
W2242	Reservoir (White Oak Reservoir)	2013	Duckweed Density, Whole Lake	Very Dense	1	2
W2242	Reservoir (White Oak Reservoir)	2013	Objectionable Deposits	NR	2	2
W2242	Reservoir (White Oak Reservoir)	2013	Odor	None	1	2
W2242	Reservoir (White Oak Reservoir)	2013	Odor	NR	1	2
W2242	Reservoir (White Oak Reservoir)	2013	Scum	NR	1	2
W2242	Reservoir (White Oak Reservoir)	2013	Scum	Yes	1	2

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2242	Reservoir (White Oak Reservoir)	2013	Turbidity	NR	1	2
W2242	Reservoir (White Oak Reservoir)	2013	Turbidity	Unobservable	1	2
W2242	Reservoir (White Oak Reservoir)	2014	Aesthetics Impaired?	NR	1	3
W2242	Reservoir (White Oak Reservoir)	2014	Aesthetics Impaired?	Yes	2	3
W2242	Reservoir (White Oak Reservoir)	2014	Aquatic Plant Density, Overall	NR	3	3
W2242	Reservoir (White Oak Reservoir)	2014	Aquatic Plant Density, Whole Lake	Dense	1	3
W2242	Reservoir (White Oak Reservoir)	2014	Aquatic Plant Density, Whole Lake	NR	2	3
W2242	Reservoir (White Oak Reservoir)	2014	Color	NR	3	3
W2242	Reservoir (White Oak Reservoir)	2014	Duckweed Density, Whole Lake	Dense	2	3
W2242	Reservoir (White Oak Reservoir)	2014	Duckweed Density, Whole Lake	Moderate	1	3
W2242	Reservoir (White Oak Reservoir)	2014	Objectionable Deposits	NR	2	3
W2242	Reservoir (White Oak Reservoir)	2014	Objectionable Deposits	Yes	1	3
W2242	Reservoir (White Oak Reservoir)	2014	Odor	NR	3	3
W2242	Reservoir (White Oak Reservoir)	2014	Scum	NR	3	3
W2242	Reservoir (White Oak Reservoir)	2014	Turbidity	NR	3	3

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Reservoir (White Oak Reservoir) (MA62157) continues to be assessed as Not Supporting. The prior Nutrient/Eutrophication Biological Indicators impairment (from the Aesthetics Use) is being carried forward. MassDEP collected Secchi depth data in 2012, 2013 & 2015 for Reservoir (White Oak Reservoir) at W2173 [deep hole, approximate center of impoundment, Hanson]. In 2015 Secchi depth data at W2173 (station depth=2.1 m) indicated water clarity meeting the 1.2m (4ft) threshold (n=5, 1.25-2m). The Secchi depth data from W2173 in 2012 and 2013 were not conclusive regarding the water clarity threshold (n=2, 1.2m in 2012 vs n=1, 1.1m in 2013); however, data were too limited (n <3) in both cases to evaluate water clarity.

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data
(MassDEP Undated 9) (MassDEP Undated 5)

Data Year(s)	Summary
2012-2013, 2015	In Reservoir (White Oak Reservoir) (MA62157), MassDEP collected Secchi data at W2173 [42.029884, -70.852628, deep hole, approximate center of impoundment, Hanson] from 2012-2013 and in 2015. In 2012 at station W2173 (station depth=1.2 m) the Secchi depth measurement was 1.2 m (n=2) on both occasions, indicating water clarity meeting the 1.2 m (4 ft) threshold. In 2013 at station W2173 (station depth=1.8 m) the Secchi depth (n=1) was measured to be 1.1 m on Jul 30, 2013 which was less than the 1.2 m (4 ft) threshold. In 2015 at station W2173 (station depth=2.1 m) the Secchi depth measurements ranged from 1.25-2 m (n=5) indicating water clarity meeting the 1.2 m (4 ft) threshold.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	
The Secondary Contact Recreation Use for Reservoir (White Oak Reservoir) (MA62157) continues to be assessed as Not Supporting. The prior Nutrient/Eutrophication Biological Indicators impairment (from the Aesthetics Use) is being carried forward.	

Richmond Pond (MA62159)

Location:	Taunton.
AU Type:	FRESHWATER LAKE
AU Size:	6 ACRES
Classification/Qualifier:	B

No usable data were available for Richmond Pond (MA62159) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fanwort*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Robbins Pond (MA62162)

Location:	East Bridgewater.
AU Type:	FRESHWATER LAKE
AU Size:	124 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	5	(Aquatic Plants (Macrophytes)*)	--	Added
3	5	PFAS in Fish Tissue	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Aquatic Plants (Macrophytes)*)	Source Unknown (N)	--	--	X	X	X
PFAS in Fish Tissue	Source Unknown (N)	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No
2024/26 Use Attainment Summary	

The Fish Consumption Use for Robbins Pond (MA62162) is assessed as Not Supporting with a new impairment being added for PFAS in Fish Tissue. Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Robbins Pond (MA62162) at station F0466 in 2018 as part of the probabilistic lake surveys (MAP2). Additionally, fish toxics sampling was conducted in Robbins Pond (MA62162) at station F0466 (PFAS Study ID 33) on 10/19/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. MDPH issued a site-specific advisory for PFAS in Robbins Pond in their May 2024 Freshwater Fish Consumption Advisory List and retained it in the 2025 list. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations. No source of PFAS has been identified at this time.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
F0466	MassDEP	Fish Toxics	Robbins Pond	[East Bridgewater]	42.005097	-70.906633

Fish Tissue Data

Summary of Fish Tissue Data and Resulting Fish Consumption Advisories (MA DPH 2025) (MassDEP 2023) (MassDEP Undated 7)

Summary
Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Robbins Pond (MA62162) at station F0466 in 2018 as part of the probabilistic lake surveys (MAP2). Additionally, fish toxics sampling was conducted in Robbins Pond (MA62162) at station F0466 (PFAS Study ID 33) on 10/19/2022 as part of a MassDEP-funded project evaluating 40 PFAS analytes in selected fresh waters. Because of elevated PFAS measured in fish filets, MDPH issued site-specific fish consumption advisories for Robbins Pond in their May 2024 Freshwater Fish Consumption Advisory List and retained them in the 2025 list. The site-specific DPH advisories are indicative of a Fish Consumption Use impairment for PFAS in Fish Tissue for Robbins Pond (MA62162).

MassDEP 2022 PFAS in Fish Tissue Data for Massachusetts Surface Waters (MassDEP 2023) (MassDEP Undated 7) (MA DPH 2023c)

[ng/g = ppb. All PFBA, PFBS, and HFPO-DA (Genx) concentrations <MDL. ND indicates that the PFAS analyte was not detected in any of the composite samples (i.e., it was <MDL). Means weighted by the number of fish in the contributing composites were calculated for any PFAS analyte – waterbody – species combination where an analyte was detected in at least one sample; if a sample did not have the analyte detected, the concentration for that sample was set to ½*MDL for the purposes of calculating a mean. Data are highlighted red per the fish consumption advisory thresholds summarized in Table 4.2 of MDPH's 2023 Technical Support Document for the evaluation of PFAS in recreational waterbodies.]

[Species List: B = bluegill, CP = chain pickerel, WS = white sucker]

Station Code	PFAS Study ID	Sample Date	Species	Mean PFHxS ng/g	Mean PFNA ng/g	Mean PFOA ng/g	Mean PFOS ng/g	Analytes with ≥ 1 Sample Qualified
F0466	33	10/19/2022	B	ND	ND	ND	3.90	
F0466	33	10/19/2022	CP	ND	ND	ND	4.10	
F0466	33	10/19/2022	WS	ND	0.21	0.15	2.25	PFNA & PFOA

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Aesthetics Use for Robbins Pond (MA62162) is assessed as Not Supporting based on the observations from the MassDEP 2018 MAP2 macrophyte mapping survey, with an Aquatic Plants (Macrophytes) non-pollutant impairment being added. MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2018 at two stations in East Bridgewater, for this Robbins Pond AU; south of Pond Street, ~75 feet west of outlet (W2781/MAP2L-307S, n=5) and at the index site, off eastern tip of Osceola Island (W2780/MAP2L-307, n=3). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, or littoral zone duckweed recorded in ten shoreline plots (n=1). However, during the MAP2 macrophyte mapping survey in Aug 2018 (n=1), greater than 25% (37.2%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2780	MassDEP	Water Quality	Robbins Pond	[index site, off eastern tip of Osceola Island, East Bridgewater]	42.006179	-70.906276
W2781	MassDEP	Water Quality	Robbins Pond	[south of Pond Street, approximately 75 feet west of outlet, East Bridgewater]	42.008938	-70.907972

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2780	2018	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2780 (MAP2L-307) on Robbins Pond (MA62162) during 3 site visits between Jun 2018 and Aug 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. During the MAP2 macrophyte mapping survey (n=1) in Aug 2018, greater than 25% (37.2%) of the waterbody was determined to have an aquatic macrophyte biovolume >50%. The observations from the MAP2 survey are indicative of an Aesthetics Use impairment.

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2781	2018	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2781 (MAP2L-307S) on Robbins Pond (MA62162) during 5 site visits between May 2018 and Sep 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. During the MAP2 littoral survey (n=1), duckweed was not noted in any of the 10 shoreline plots.

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2780	Robbins Pond	2018	Aesthetics Impaired?	No	3	3
W2780	Robbins Pond	2018	Aquatic Plant Density, Overall	None	3	3
W2780	Robbins Pond	2018	Color	Brownish	1	3
W2780	Robbins Pond	2018	Color	Dark Tan	1	3
W2780	Robbins Pond	2018	Color	Rusty	1	3
W2780	Robbins Pond	2018	Objectionable Deposits	No	3	3
W2780	Robbins Pond	2018	Odor	None	3	3
W2780	Robbins Pond	2018	Scum	No	3	3
W2780	Robbins Pond	2018	Turbidity	None	1	3
W2780	Robbins Pond	2018	Turbidity	Slightly Turbid	2	3
W2781	Robbins Pond	2018	Aesthetics Impaired?	No	5	5
W2781	Robbins Pond	2018	Color	Light Yellow/Tan	3	5
W2781	Robbins Pond	2018	Color	Reddish	2	5
W2781	Robbins Pond	2018	Objectionable Deposits	No	5	5
W2781	Robbins Pond	2018	Odor	None	5	5
W2781	Robbins Pond	2018	Scum	No	5	5
W2781	Robbins Pond	2018	Turbidity	None	4	5
W2781	Robbins Pond	2018	Turbidity	Slightly Turbid	1	5

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	

The Primary Contact Recreation Use for Robbins Pond (MA62162) is assessed as Not Supporting. An Aquatic Plants (Macrophytes) non-pollutant impairment is being added (from the Aesthetics Use). MassDEP staff collected *E. coli* bacteria samples in Robbins Pond at W2781 [south of Pond St, ~75 ft west of outlet, East Bridgewater] from May-Sep 2018 (n=5). Analysis of this single year limited frequency *E. coli* dataset indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 2 CFU/100ml. *E. coli* data from W2781 were indicative of good water quality conditions. MassDEP also collected Secchi depth and cyanobacteria cell count data in 2018 at W2780/MAP2L-307 [Index-deep hole], and cyanobacteria cell count and cyanotoxins data in 2018 at W2781/MAP2L-307S [Shoreline]. Secchi depth data at W2780 (station depth=3.2 m) indicated water clarity generally meeting the 1.2m (4ft) threshold (n=3, 0.9-1.5m), but with 1 measurement taken on Jun 12, 2018 that was less than the threshold. The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples (n=6). Analysis of microcystins and cylindrospermopsin samples from the shoreline station W2781 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. Surface water sampling was also conducted in Robbins Pond at station W3296 (PFAS Study ID 33) on 10/19/2022 as part of a 2022 MassDEP funded project with ERG evaluating 40 PFAS analytes in selected fresh waters. The concentrations of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS, HFPO-DA/GenX) were all less than the 90 ng/L (ppt) recreational screening value.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2780	MassDEP	Water Quality	Robbins Pond	[index site, off eastern tip of Osceola Island, East Bridgewater]	42.006179	-70.906276
W2781	MassDEP	Water Quality	Robbins Pond	[south of Pond Street, approximately 75 feet west of outlet, East Bridgewater]	42.008938	-70.907972
W3296	MassDEP	Water Quality	Robbins Pond	[the default location representing co-located water/fish PFAS sampling, East Bridgewater]	42.005097	-70.906633

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

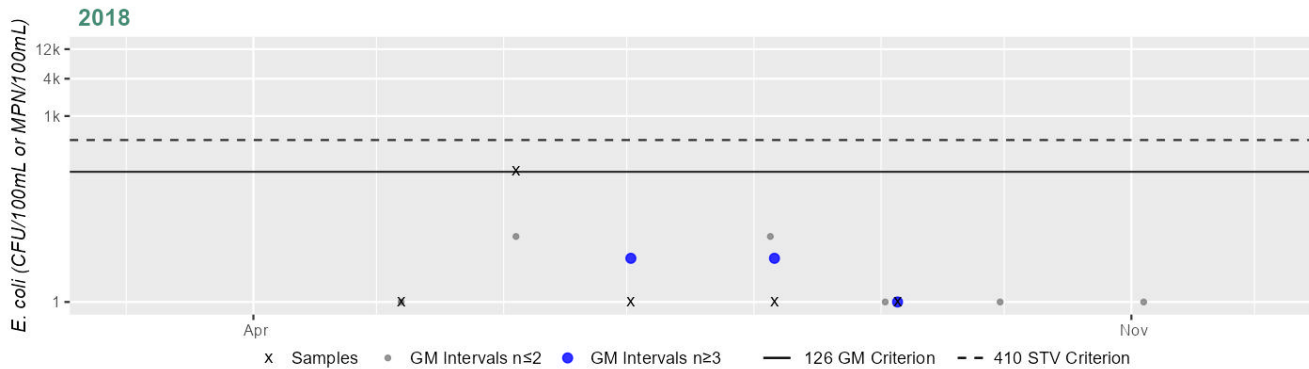
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2781	MassDEP	E. coli	05/07/18	09/05/18	5	1	130	2

Station MASSDEP_W2781 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	2
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Other Indicators

Summary Statement(s) for MassDEP 2022 PFAS in Water Column Data (MassDEP 2023) (MassDEP Undated 5)

Summary
Surface water sampling was conducted in Robbins Pond (MA62162) at station W3296 (PFAS Study ID 33) on 10/19/2022 as part of a 2022 MassDEP funded project with ERG evaluating 40 PFAS analytes in selected fresh waters. The concentrations of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS, HFPO-DA/GenX) were all less than the 90 ng/L (ppt) recreational screening value.

MassDEP 2022 PFAS in Water Column Data for Massachusetts Surface Waters (MassDEP 2023) (MassDEP Undated 5)

[HFPO-DA is also known as GenX; the ΣPFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here); * indicates the ΣPFAS6 concentration was qualified since data for one or more individual PFAS6 analytes were qualified; b = blank contamination qualifier, d = qualifier indicating precision of field duplicates did not meet project data quality objectives; j = 'estimated' value qualifier; ## = censored data.]

Station Code	PFAS Study ID	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	HFPO-DA ng/L	ΣPFAS6 ng/L
W3296	33	10/19/2022	3.9	2.6d	0.92j	0.72j	4.7j	2	<2	10.9*

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data (MassDEP Undated 9) (MassDEP Undated 5)

Data Year(s)	Summary
2018	In Robbins Pond (MA62162) in 2018, MassDEP collected Secchi and cyanobacteria cell count data at W2780 [MAP2L-307, Index-deep hole] and cyanobacteria cell count and cyanotoxin data at W2781 [MAP2L-307S, Shoreline]. At the index station W2780 (station depth=3.2 m) the Secchi depth measurements ranged from 0.9-1.5 m (n=3) with 1 measurement taken on Jun 12, 2018 that was less than the 1.2 m (4 ft) threshold. The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples (n=6). Analysis of microcystins and cylindrospermopsin samples from the shoreline station W2781 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L.

MassDEP Cyanobacteria Cell Count Data Collected at Lakes and Impoundments (2016-2018) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Waterbody	Station Type	Data Year	Sample Count	Count >70,000 cells/mL	Exceedance Date(s)
W2780	Robbins Pond	Index	2018	3	0	NA
W2781	Robbins Pond	Shoreline	2018	3	0	NA

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Robbins Pond (MA62162) is assessed as Not Supporting. An Aquatic Plants (Macrophytes) non-pollutant impairment is being added (from the Aesthetics Use). MassDEP staff collected <i>E. coli</i> bacteria samples in Robbins Pond at W2781 [south of Pond St, ~75 ft west of outlet, East Bridgewater] from May-Sep 2018 (n=5). Analysis of this single year limited frequency <i>E. coli</i> dataset indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 2 CFU/100ml, which is indicative of good water quality conditions. MassDEP collected cyanobacteria cell count data in 2018 at W2780/MAP2L-307 [Index-deep hole], and cyanobacteria cell count and cyanotoxins data in 2018 at W2781/MAP2L-307S [Shoreline]. The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples (n=6). Analysis of microcystins and cylindrospermopsin samples from the shoreline station W2781 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2781	MassDEP	Water Quality	Robbins Pond	[south of Pond Street, approximately 75 feet west of outlet, East Bridgewater]	42.008938	-70.907972

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

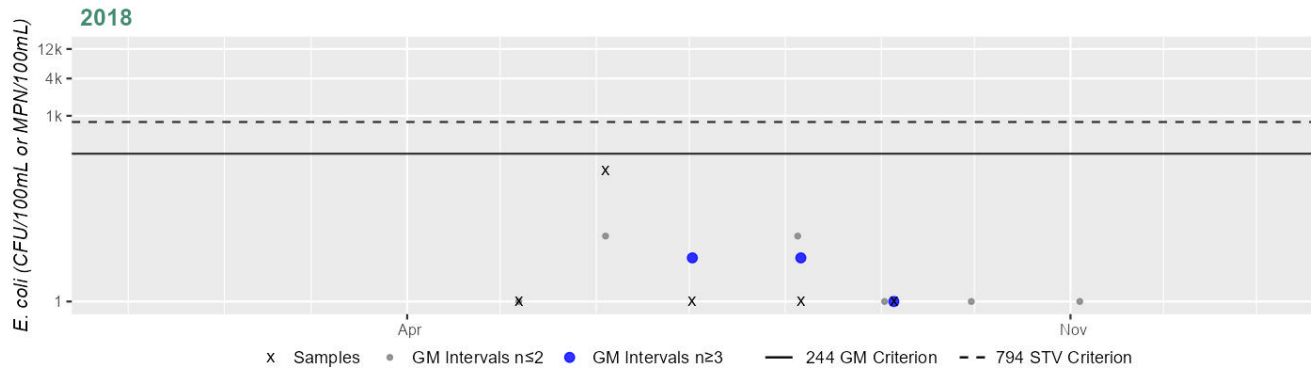
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2781	MassDEP	E. coli	05/07/18	09/05/18	5	1	130	2

Station MASSDEP_W2781 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	2
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Robinson Brook (MA62-14)

Location:	Headwaters, outlet Hersey Pond, Foxborough to mouth at confluence with Rumford River, Mansfield.
AU Type:	RIVER
AU Size:	1.9 MILES
Classification/Qualifier:	B

Robinson Brook (MA62-14)

Watershed Area: 2.63 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	2.63	2.63	0.75	0.75
Agriculture	1%	1%	2.6%	2.6%
Developed	46.6%	46.6%	34.1%	34.1%
Natural	43.5%	43.5%	39.3%	39.3%
Wetland	8.9%	8.9%	24%	24%
Impervious	28.1%	28.1%	19.5%	19.5%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Physical Substrate Habitat Alterations*)	--	Unchanged
5	5	Benthic Macroinvertebrates	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Physical Substrate Habitat Alterations*)	Source Unknown (N)	X	--	--	--	--
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Robinson Brook (MA62-14) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No data are available, so the Aesthetics Use for Robinson Brook (MA62-14) is Not Assessed.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for Robinson Brook (MA62-14) are available, so the Primary Contact Recreation Use is Not Assessed.	

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for Robinson Brook (MA62-14) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in this Robinson Brook AU about three-quarters of the way down the AU at W0829 [Central St, Mansfield] from Jul-Sep 2001 (n=3). Historic <i>E. coli</i> data from W0829 were indicative of good water quality conditions. However, since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0829	MassDEP	Water Quality	Robinson Brook	[Central Street, Mansfield]	42.033410	-71.230172

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

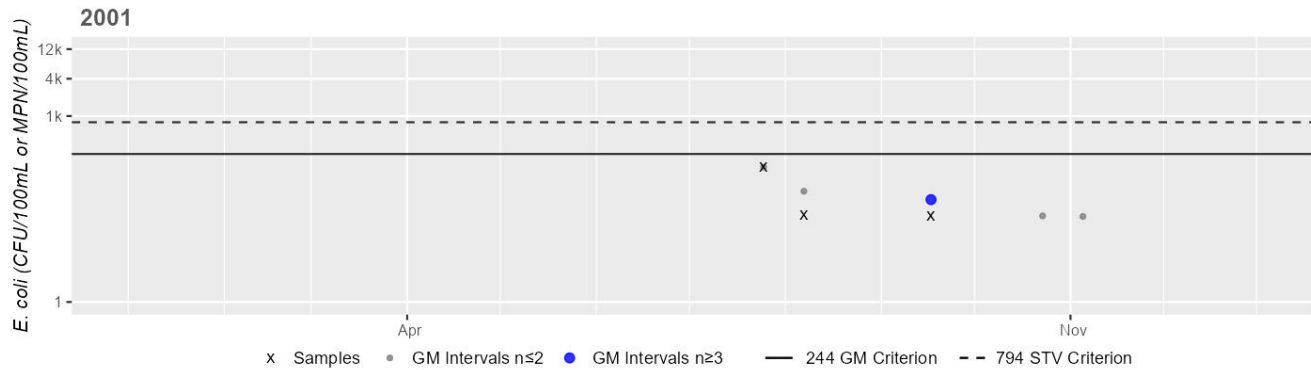
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0829	MassDEP	E. coli	07/25/01	09/17/01	3	24	150	44

Station MASSDEP_W0829 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	3
SeasGM	44
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Historic (1997-2010)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Route One Pond, West (MA62165)

Location:	Wrentham.
AU Type:	FRESHWATER LAKE
AU Size:	10 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Route One Pond, West (MA62165) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

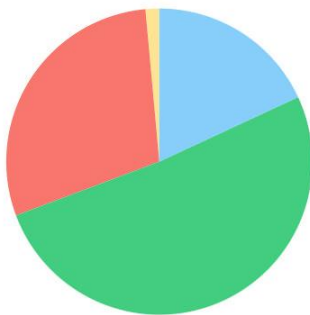
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Rumford River (MA62-40)

Location:	From outlet Norton Reservoir, Norton to mouth at confluence with Wading River forming headwaters Threemile River, Norton (formerly part of 2004 segment: Rumford River MA62-15).
AU Type:	RIVER
AU Size:	4.5 MILES
Classification/Qualifier:	B

Rumford River (MA62-40)

Watershed Area: 22.35 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	22.35	5.42	8.56	2.42
Agriculture	1.5%	0.2%	1%	0.1%
Developed	29.3%	21.3%	19.7%	13.8%
Natural	51.2%	60.3%	53.5%	66%
Wetland	18.1%	18.2%	25.8%	20.1%
Impervious	14.8%	9.5%	8.9%	5.5%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	3	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Rumford River (MA62-40) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
There are no data available to assess the status of the Aesthetics Use for this Rumford River AU (MA62-40), so it is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for the Rumford River (MA62-40) are available, so the Primary Contact Recreation Use is Not Assessed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for the Rumford River (MA62-40) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected <i>E. coli</i> bacteria samples in this Rumford River AU from 2001-2006 at 3 stations. Samples were collected from the following stations/sample years from upstream to downstream: At the upstream end of the AU at W0822 [Reservoir St, Norton] from Jul-Sep 2001 (n=3), halfway down at W0859 [Rt. 123, Norton] from Jul-Aug 2001 (n=2), and two-thirds of the way down the AU at W0311 [Pine St, Norton] from May-Oct 2006 (n=4). Historic <i>E. coli</i> data from W0859 are too limited according to the 2024 CALM to assess the Secondary Contact Recreation Use. Overall based on the sufficient data years, the <i>E. coli</i> data collected in the historic IR window for the Rumford River (from stations W0822 and W0311) are all indicative of good water quality conditions. However, since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0311	MassDEP	Water Quality	Rumford River	[Pine Street, Norton]	41.966045	-71.175902
W0822	MassDEP	Water Quality	Rumford River	[Reservoir Street, Norton]	41.986263	-71.188017

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0859	MassDEP	Water Quality	Rumford River	[Route 123, Norton]	41.973085	-71.174853

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

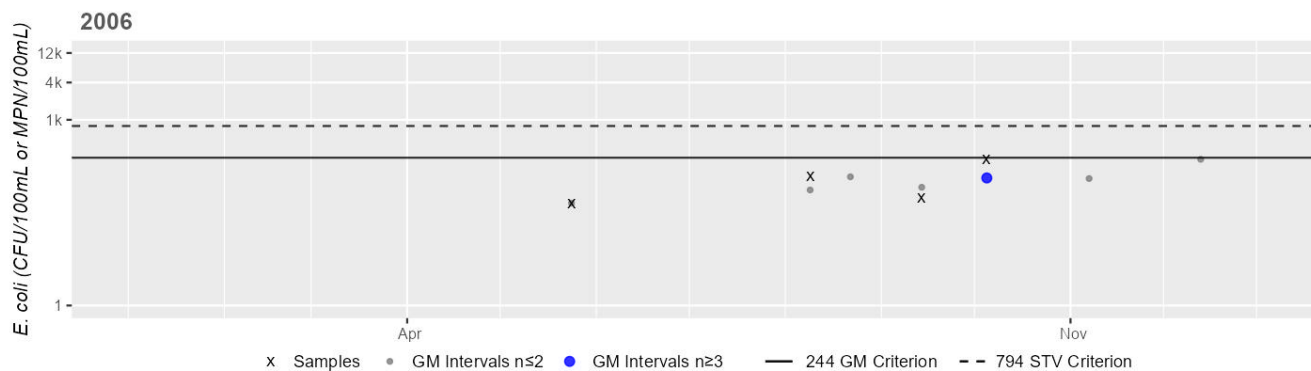
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0311	MassDEP	E. coli	05/24/06	10/05/06	4	45	230	90
W0822	MassDEP	E. coli	07/25/01	09/17/01	3	10	60	18
W0859	MassDEP	E. coli	07/25/01	08/09/01	2	35	40	37

Station MASSDEP_W0311 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



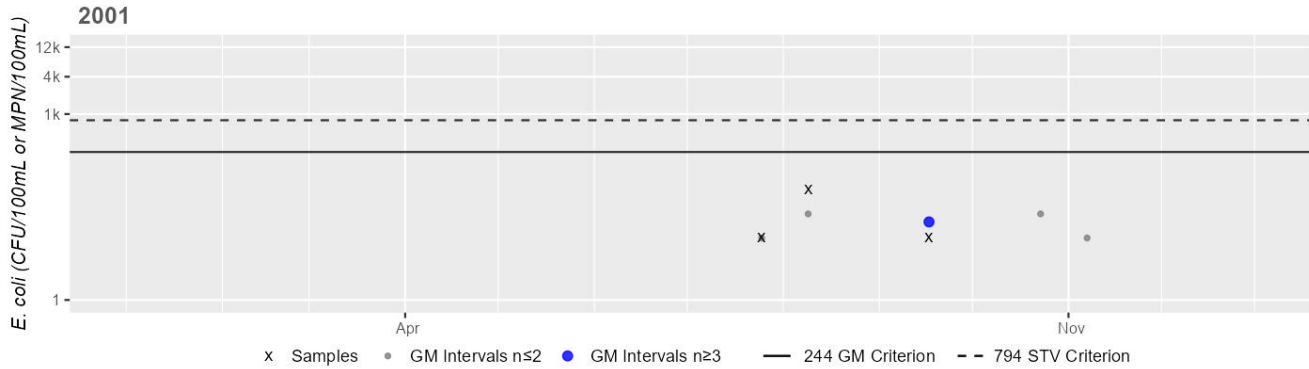
Variable*	Result
Samples	4
SeasGM	90
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W0822 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



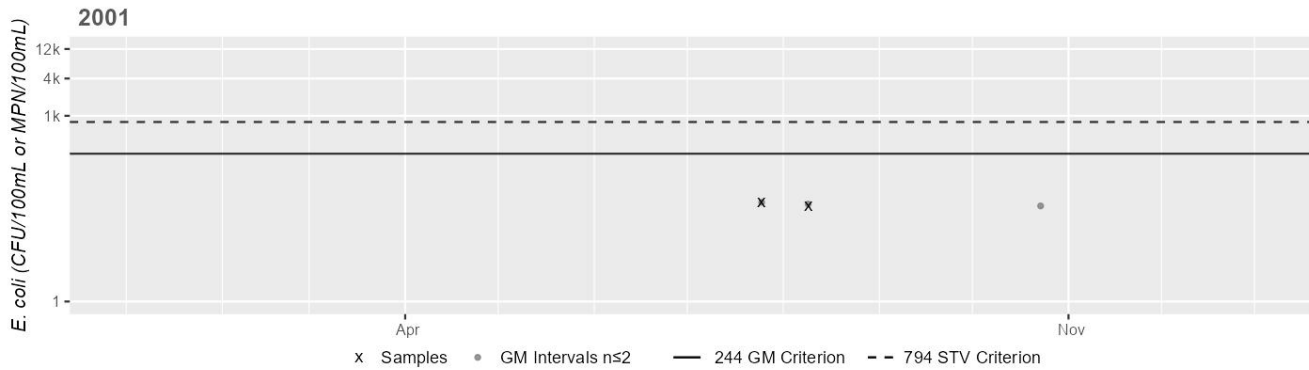
Variable*	Result
Samples	3
SeasGM	18
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W0859 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	37
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

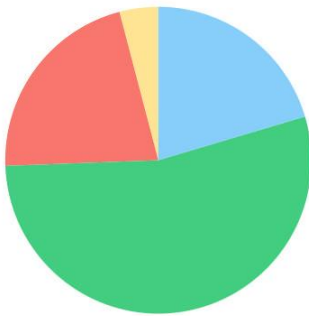
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Rumford River (MA62-62)

Location:	Headwaters, outlet Gavins Pond, Sharon to inlet Glue Factory Pond, Foxborough (through former 2014 segment: Vandys Pond MA62112) (formerly part of 2014 segment: Rumford River MA62-39 [MA62-15 (2004)]).
AU Type:	RIVER
AU Size:	2.8 MILES
Classification/Qualifier:	B

Rumford River (MA62-62)

Watershed Area: 6.28 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	6.28	3.56	2.36	1.57
Agriculture	4.1%	0.1%	2.1%	0%
Developed	21.5%	22.1%	13.5%	11.7%
Natural	54%	61%	52.3%	58%
Wetland	20.4%	16.9%	32%	30.4%
Impervious	10.2%	10.2%	6.1%	5.1%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Non-Native Aquatic Plants*)	--	Unchanged
5	5	Benthic Macroinvertebrates	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Rumford River (MA62-62) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Rumford River (MA62-62) continues to be assessed as Fully Supporting based on the lack of objectionable conditions observed during the summers of 2013 and 2019. MassDEP staff recorded aesthetics observations at one station halfway down this Rumford River AU ~675 ft downstream/south from Cocasset St. in Foxborough (W2377) during the summer of 2013 as part of the MAP2 wadeable streams monitoring project and for selected monitoring during the summer of 2019 (n=8/yr). There were no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded during the surveys.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2377	MassDEP	Water Quality	Rumford River	[approximately 675 feet downstream/south from Cocasset Street, Foxborough]	42.061126	-71.216586

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2377	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2377 on Rumford River (MA62-62) during 8 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2377	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2377 on Rumford River (MA62-62) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2377	2013	8	6	0
W2377	2019	8	8	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2377	Rumford River	2013	Aesthetics Impaired?	No	5	8
W2377	Rumford River	2013	Aesthetics Impaired?	NR	3	8
W2377	Rumford River	2013	Aquatic Plant Density, Overall	None	1	8
W2377	Rumford River	2013	Aquatic Plant Density, Overall	Sparse	6	8
W2377	Rumford River	2013	Aquatic Plant Density, Overall	Unobservable	1	8
W2377	Rumford River	2013	Color	Light Yellow/Tan	7	8
W2377	Rumford River	2013	Color	Reddish	1	8
W2377	Rumford River	2013	Objectionable Deposits	No	7	8
W2377	Rumford River	2013	Objectionable Deposits	Unobservable	1	8
W2377	Rumford River	2013	Odor	Musty (Basement)	1	8
W2377	Rumford River	2013	Odor	None	6	8
W2377	Rumford River	2013	Odor	NR	1	8
W2377	Rumford River	2013	Periphyton Density, Filamentous	None	6	8
W2377	Rumford River	2013	Periphyton Density, Filamentous	NR	1	8
W2377	Rumford River	2013	Periphyton Density, Filamentous	Unobservable	1	8
W2377	Rumford River	2013	Periphyton Density, Film	None	6	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2377	Rumford River	2013	Periphyton Density, Film	NR	1	8
W2377	Rumford River	2013	Periphyton Density, Film	Unobservable	1	8
W2377	Rumford River	2013	Scum	No	4	8
W2377	Rumford River	2013	Scum	Yes	4	8
W2377	Rumford River	2013	Turbidity	None	7	8
W2377	Rumford River	2013	Turbidity	Slightly Turbid	1	8
W2377	Rumford River	2019	Aesthetics Impaired?	No	8	8
W2377	Rumford River	2019	Aquatic Plant Density, Overall	None	3	8
W2377	Rumford River	2019	Aquatic Plant Density, Overall	Sparse	5	8
W2377	Rumford River	2019	Color	Light Yellow/Tan	7	8
W2377	Rumford River	2019	Color	None	1	8
W2377	Rumford River	2019	Objectionable Deposits	No	8	8
W2377	Rumford River	2019	Odor	Musty (Basement)	1	8
W2377	Rumford River	2019	Odor	None	7	8
W2377	Rumford River	2019	Periphyton Density, Filamentous	None	7	8
W2377	Rumford River	2019	Periphyton Density, Filamentous	Sparse	1	8
W2377	Rumford River	2019	Periphyton Density, Film	None	7	8
W2377	Rumford River	2019	Periphyton Density, Film	Unobservable	1	8
W2377	Rumford River	2019	Scum	No	8	8
W2377	Rumford River	2019	Turbidity	None	5	8
W2377	Rumford River	2019	Turbidity	Slightly Turbid	3	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for the Rumford River (MA62-62) continues to be assessed as Fully Supporting based on bacteria data collected in 2013 & 2019 at 1 station. MassDEP staff collected <i>E. coli</i> bacteria samples halfway down this Rumford River AU at W2377 [~675 ft downstream/S from Cocasset St, Foxborough] in 2013 and 2019 (n=5-6/yr). Analysis of this multi-year limited frequency <i>E. coli</i> dataset indicated only 1 out of 2 sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml (2013, 33%), only 1 yr had ≥2 samples exceed the 410 CFU/100ml STV (2019, n=2), and cumulatively across years 20% of intervals had GMs >126 CFU/100ml. <i>E. coli</i> data from W2377 were generally indicative of good water quality conditions.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2377	MassDEP	Water Quality	Rumford River	[approximately 675 feet downstream/south from Cocasset Street, Foxborough]	42.061126	-71.216586

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

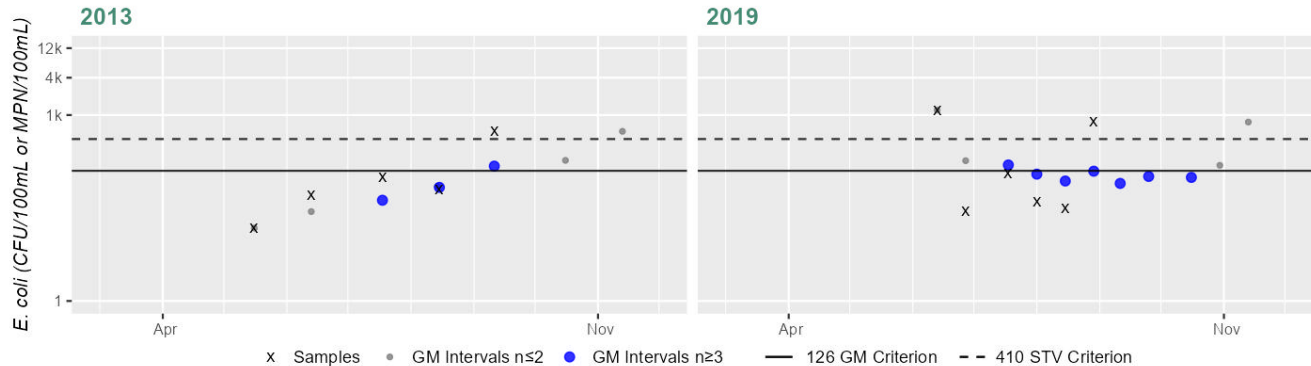
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2377	MassDEP	E. coli	05/16/13	09/11/13	5	15	546	76
W2377	MassDEP	E. coli	06/13/19	08/29/19	6	28	1200	124

Station MASSDEP_W2377 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	76
#GMI	3
#GMI Ex	1
%GMI Ex	33%
n>STV	1
%n>STV	20%

Variable*	Result
Samples	6
SeasGM	124
#GMI	7
#GMI Ex	1
%GMI Ex	14%
n>STV	2
%n>STV	33%

Cumulative %GMI Exceedance
Current (2011-2022)
20%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for the Rumford River (MA62-62) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2013 & 2019 at a station downstream of the Cocasett St bridge. MassDEP staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in this Rumford River AU from 2006-2019 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: halfway down the AU at W1506 [Cocasett St bridge, Foxborough] from May-Oct 2006 (n=4) and just a short way further downstream at W2377 [~675 ft downstream/S from Cocasset St, Foxborough] in 2013 and 2019 (n=5-6/yr). Analysis of the multi-year limited frequency *E. coli* dataset from W2377 indicated 0 out of 2 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml, 0 yrs had ≥2 samples exceed the 794 CFU/100ml STV, and cumulatively across years 0% of intervals had GMs >244 CFU/100ml. Overall, the *E. coli* data collected in both the historic & the current IR window for the Rumford River are indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1506	MassDEP	Water Quality	Rumford River	[Cocasett Street bridge, Foxborough]	42.062904	-71.215868
W2377	MassDEP	Water Quality	Rumford River	[approximately 675 feet downstream/south from Cocasset Street, Foxborough]	42.061126	-71.216586

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

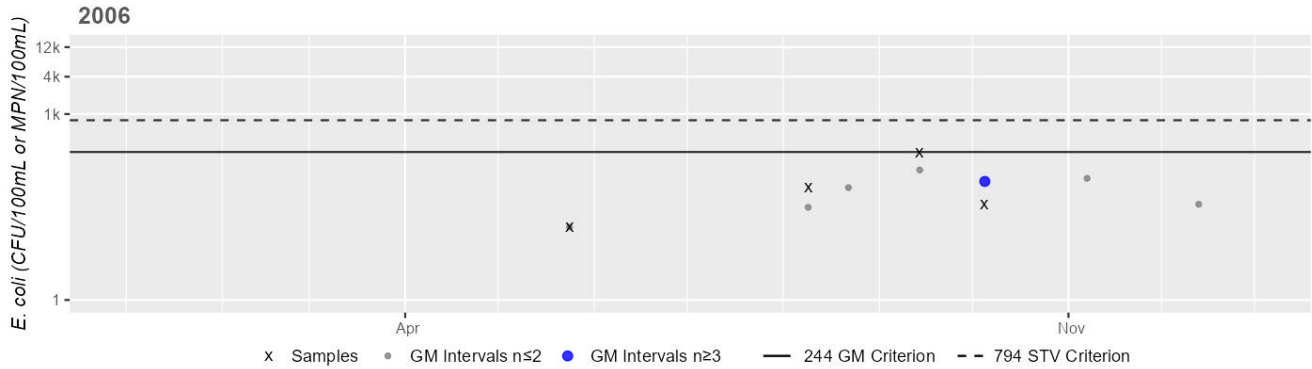
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1506	MassDEP	E. coli	05/24/06	10/05/06	4	15	240	53
W2377	MassDEP	E. coli	05/16/13	09/11/13	5	15	546	76
W2377	MassDEP	E. coli	06/13/19	08/29/19	6	28	1200	124

Station MASSDEP_W1506 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



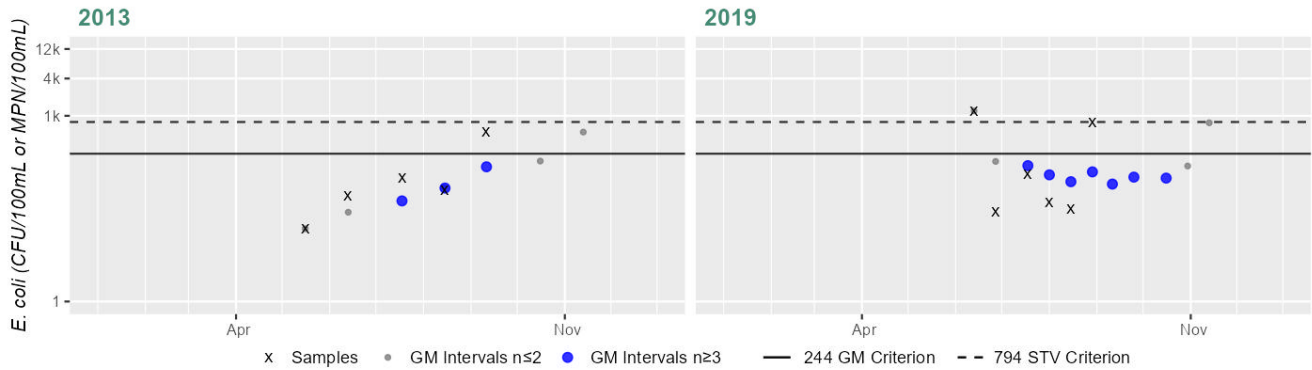
Variable*	Result
Samples	4
SeasGM	53
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2377 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	76
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	124
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

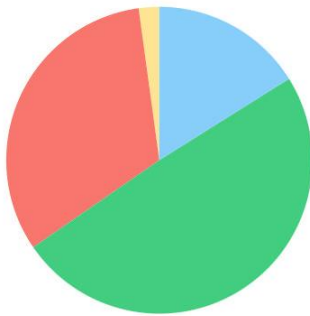
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Rumford River (MA62-63)

Location:	From outlet Glue Factory Pond, Foxborough to inlet Norton Reservoir, Norton (through former 2014 pond segments; Fulton Pond MA62075, Hodges Pond MA62091, and Cabot Pond MA62029) (formerly part of 2014 segment: Rumford River MA62-39 [MA62-15 (2004)]).
AU Type:	RIVER
AU Size:	5.1 MILES
Classification/Qualifier:	B

Rumford River (MA62-63)

Watershed Area: 13.53 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	13.53	3.19	4.91	1.20
Agriculture	2.2%	0.1%	1.5%	0.2%
Developed	32.4%	47.5%	22.4%	37.4%
Natural	49.3%	37.1%	49%	40.5%
Wetland	16.1%	15.3%	27.1%	21.8%
Impervious	17.8%	27.4%	11%	18.1%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Curly-leaf Pondweed*)	--	Unchanged
5	5	Benthic Macroinvertebrates	--	Unchanged
5	5	Dioxin (including 2,3,7,8-TCDD)	--	Unchanged
5	5	Pentachlorophenol (PCP)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Curly-leaf Pondweed*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--
Dioxin (including 2,3,7,8-TCDD)	CERCLA NPL (Superfund) Sites (Y)	--	X	--	--	--
Pentachlorophenol (PCP)	CERCLA NPL (Superfund) Sites (Y)	--	X	--	--	--

Recommendations

2024/26 Recommendations
<p>2024/26IR [Harmful Algal Blooms, Medium] Follow-up monitoring should be conducted in Rumford River (MA62-63), especially in Fulton and Cabot Pond, to determine if Harmful Algal Blooms may be impairing the Aesthetic use. Monitoring should include observational data and collection of cyanobacteria cell count data, as well as continued reporting of algal blooms to MDPH. This recommendation also applies to the Recreational uses. An Alert was identified for Harmful Algal Blooms based on visual observations for 28 days in 2019 at Fulton Pond and 140 days at Cabot Pond in 2020. This is a medium priority;</p> <p>2024/26IR [<i>E. coli</i>, Low] High frequency follow-up monitoring should be conducted in Rumford River (MA62-63), especially within its downstream quarter and at station {W2402}, to determine if <i>E. coli</i> may be impairing the Primary Contact Recreation use. In 2019 at station {W2402} 71% of the GMs were >126 CFU/100ml, with a maximum concentration of 1,730 CFU though this was the only one out of 6 samples that year that was greater than the STV threshold. Historically this AU has been a Fully Supported for the Primary and Secondary Contact Use. This is of low priority;</p>

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No

2024/26 Use Attainment Summary

The Fish Consumption Use for Rumford River (MA62-63) continues to be assessed as Not Supporting and the prior Pentachlorophenol (PCP) and Dioxin (including 2,3,7,8-TCDD) impairment is being carried forward. MDPH included a site-specific advisory for Rumford River (referred to by MDPH as "Rumford River (from Glue Factory Pond Dam Fulton, Kingman, & Cabot ponds Norton reservoir)", "Cabot Pond", "Fulton Pond", and "Kingman Pond") in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary
<p>The Aesthetics Use for Rumford River (MA62-63) continues to be assessed as Fully Supporting based on the lack of objectionable conditions observe during the summers of 2013 and 2019. An Alert is being identified for Harmful Algal Blooms in this waterbody due to the blooms (>15 days in duration) reported to MDPH for Fulton Pond in 2019.</p> <p>MassDEP staff recorded aesthetics observations at one station three-quarters of the way down this Rumford River AU ~1450 ft upstream/north from the Rt. 140 ramp to Rt. 495 northbound in Mansfield (W2402) during the summer of 2013 as part of the MAP2 wadeable streams monitoring project and for selected monitoring during the summer of 2019 (n=8/yr). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded during the surveys. During the period 2015 through 2022, C-HAB postings for Rumford River (MDPH name Fulton Pond, located just upstream of West Street) and (MDPH name Cabot Pond, located just upstream of Willow St) were reported to MDPH based on visual observations for 28 days in 2019 and 140 days in 2020, respectively. No blooms were reported in other years. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings. However, an Alert is being identified for Harmful Algal Blooms in the Rumford River and a recommendation for follow-up sampling will be made.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2402	MassDEP	Water Quality	Rumford River	[approximately 1450 feet upstream/north from the Route 140 ramp to Route 495 north bound, Mansfield]	42.005027	-71.213447

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2402	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2402 on Rumford River (MA62-63) during 8 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2402	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2402 on Rumford River (MA62-63) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2402	2013	8	7	0
W2402	2019	8	8	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2402	Rumford River	2013	Aesthetics Impaired?	No	6	8
W2402	Rumford River	2013	Aesthetics Impaired?	NR	2	8
W2402	Rumford River	2013	Aquatic Plant Density, Overall	None	1	8
W2402	Rumford River	2013	Aquatic Plant Density, Overall	Sparse	6	8
W2402	Rumford River	2013	Aquatic Plant Density, Overall	Unobservable	1	8
W2402	Rumford River	2013	Color	Light Yellow/Tan	7	8
W2402	Rumford River	2013	Color	None	1	8
W2402	Rumford River	2013	Objectionable Deposits	No	7	8
W2402	Rumford River	2013	Objectionable Deposits	Unobservable	1	8
W2402	Rumford River	2013	Odor	None	8	8
W2402	Rumford River	2013	Periphyton Density, Filamentous	None	6	8
W2402	Rumford River	2013	Periphyton Density, Filamentous	Sparse	1	8
W2402	Rumford River	2013	Periphyton Density, Filamentous	Unobservable	1	8
W2402	Rumford River	2013	Periphyton Density, Film	None	7	8
W2402	Rumford River	2013	Periphyton Density, Film	Unobservable	1	8
W2402	Rumford River	2013	Scum	No	7	8
W2402	Rumford River	2013	Scum	Yes	1	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2402	Rumford River	2013	Turbidity	None	6	8
W2402	Rumford River	2013	Turbidity	Slightly Turbid	2	8
W2402	Rumford River	2019	Aesthetics Impaired?	No	8	8
W2402	Rumford River	2019	Aquatic Plant Density, Overall	Moderate	1	8
W2402	Rumford River	2019	Aquatic Plant Density, Overall	Sparse	7	8
W2402	Rumford River	2019	Color	Light Yellow/Tan	5	8
W2402	Rumford River	2019	Color	None	3	8
W2402	Rumford River	2019	Objectionable Deposits	No	8	8
W2402	Rumford River	2019	Odor	None	8	8
W2402	Rumford River	2019	Periphyton Density, Filamentous	None	8	8
W2402	Rumford River	2019	Periphyton Density, Film	None	8	8
W2402	Rumford River	2019	Scum	No	8	8
W2402	Rumford River	2019	Turbidity	None	7	8
W2402	Rumford River	2019	Turbidity	Slightly Turbid	1	8

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
<p>During the period 2015 through 2022, C-HAB postings for Rumford River (MDPH name Cabot Pond) (MA62-63) were reported to MDPH based on visual observations for 140 days in 2020. No blooms were reported in other years. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings. However, an Alert is being identified for C-HABs in this waterbody and a recommendation for follow-up sampling will be made.</p> <p>During the period 2015 through 2022, C-HAB postings for Rumford River (MDPH name Fulton Pond) (MA62-63) were reported to MDPH based on visual observations for 28 days in 2019. No blooms were reported in other years. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings. However, an Alert is being identified for C-HABs in this waterbody and a recommendation for follow-up sampling will be made</p>

Cyanobacteria Harmful Algal Bloom (C-HAB) Data (2015-2022) Provided by MDPH (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

Waterbody	Town	Posting Days 2015	Posting Days 2016	Posting Days 2017	Posting Days 2018	Posting Days 2019	Posting Days 2020	Posting Days 2021	Posting Days 2022
Cabot Pond	Mansfield						140		
Fulton Pond	Mansfield					28			

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for the Rumford River (MA62-63) continues to be assessed as Fully Supporting based on bacteria data collected in 2013 & 2019 at 1 station. An Alert is being identified for Harmful Algal Blooms in this waterbody due to the blooms (>15 days in duration) reported to MDPH for Fulton Pond in 2019 and Cabot Pond in 2020. An Alert is also being identified for <i>Escherichia coli</i> (<i>E. coli</i>) due to elevated concentrations of bacteria at one station in 2019. Additional sampling is recommended for this AU. MassDEP staff collected <i>E. coli</i> bacteria samples at one station three-quarters of the way down this Rumford River AU ~1450 ft upstream/north from the Rt. 140 ramp to Rt. 495 northbound in Mansfield (W2402) in 2013 and 2019 (n=5-6/yr). Analysis of the multi-year limited frequency <i>E. coli</i> dataset from W2402 indicated that while only 1 out of 2 sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml (2019, 71%) and neither of the years had ≥2 samples exceed the 410 CFU/100ml STV (maximum 1,730 CFU in 2019), cumulatively across years 50% of intervals had GMs >126 CFU/100ml which is indicative of an Alert status. During the period 2015 through 2022, C-HAB postings for Rumford River (MDPH name Fulton Pond, located just upstream of West Street) and (MDPH name Cabot Pond, located just upstream of Willow St) were reported to MDPH based on visual observations for 28 days in 2019 and 140 days in 2020 respectively. No blooms were reported in other years. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings. However, an Alert is being identified for Harmful Algal Blooms in the Rumford River and a recommendation for follow-up sampling will be made.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2402	MassDEP	Water Quality	Rumford River	[approximately 1450 feet upstream/north from the Route 140 ramp to Route 495 north bound, Mansfield]	42.005027	-71.213447

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

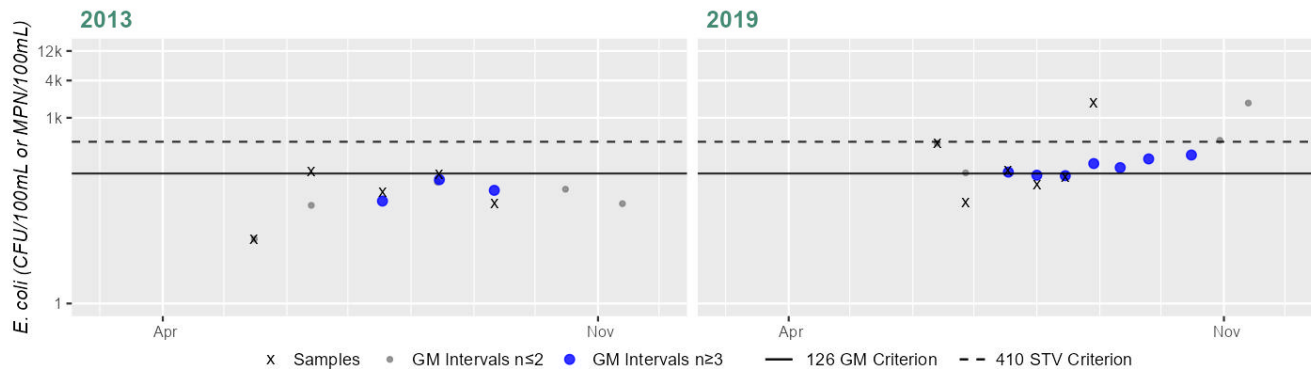
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2402	MassDEP	E. coli	05/16/13	09/11/13	5	11	135	53
W2402	MassDEP	E. coli	06/13/19	08/29/19	6	43	1730	182

Station MASSDEP_W2402 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	53
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	182
#GMI	7
#GMI Ex	5
%GMI Ex	71%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
50%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES
2024/26 Use Attainment Summary	

The Secondary Contact Recreation Use for the Rumford River (MA62-63) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2013 & 2019 at 1 station. An Alert is being identified for Harmful Algal Blooms in this waterbody due to the blooms (>15 days in duration) reported to MDPH for Fulton Pond in 2019, and additional sampling is recommended for this AU. MassDEP staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in this Rumford River AU from 2001-2019 at 3 stations in Mansfield. Samples were collected from the following stations/sample years from upstream to downstream: half way down the AU at W0820 [Spring St] from Jul-Sep 2001 (n=3), a little further downstream at W1507 [Willow St (downstream of impoundment)] from May-Oct 2006 (n=4), and three-quarters of the way down at W2402 [~1450 ft upstream/N from the Rt. 140 ramp to Rt. 495 N bound] in 2013 and 2019 (n=5-6/yr). Analysis of the multi-year limited frequency *E. coli* dataset in the current IR window from W2402 indicated 0 out of 2 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml, 0 yrs had ≥2 samples exceed the 794 CFU/100ml STV, and cumulatively across years only 10% of intervals had GMs >244 CFU/100ml. Overall, the *E. coli* data collected in both the historic & the current IR window for Rumford River are indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0820	MassDEP	Water Quality	Rumford River	[Spring Street, Mansfield]	42.018978	-71.218862
W1507	MassDEP	Water Quality	Rumford River	[Willow Street (downstream of impoundment), Mansfield]	42.012411	-71.221595
W2402	MassDEP	Water Quality	Rumford River	[approximately 1450 feet upstream/north from the Route 140 ramp to Route 495 north bound, Mansfield]	42.005027	-71.213447

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

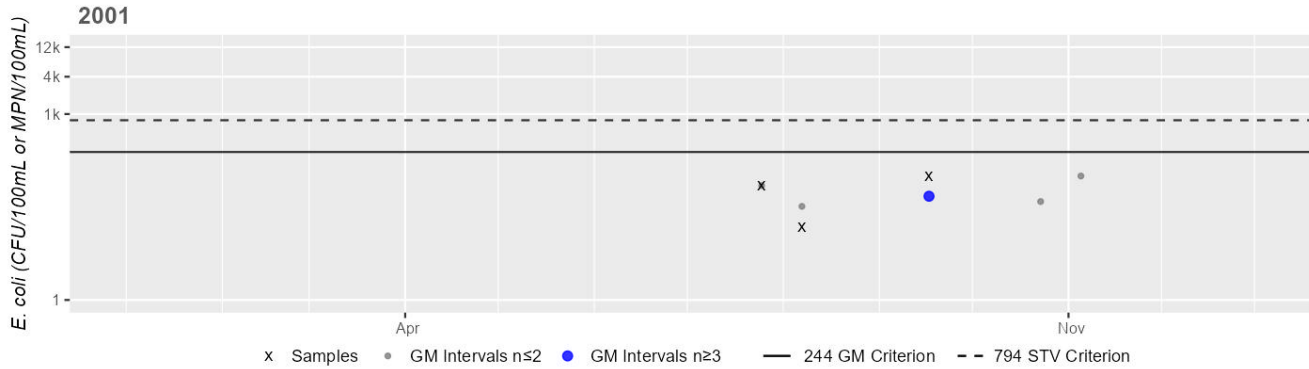
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0820	MassDEP	E. coli	07/25/01	09/17/01	3	15	100	47
W1507	MassDEP	E. coli	05/24/06	10/05/06	4	10	30	16
W2402	MassDEP	E. coli	05/16/13	09/11/13	5	11	135	53
W2402	MassDEP	E. coli	06/13/19	08/29/19	6	43	1730	182

Station MASSDEP_W0820 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



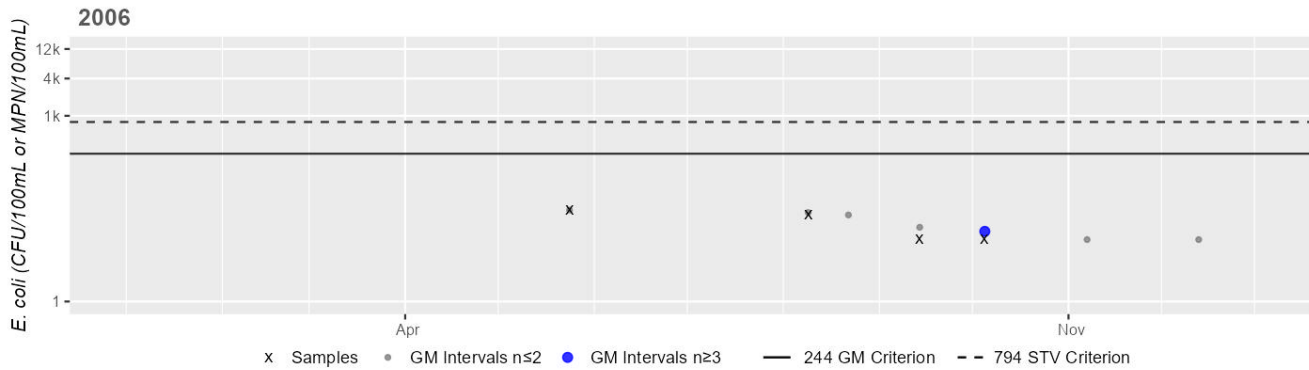
Variable*	Result
Samples	3
SeasGM	47
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1507 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



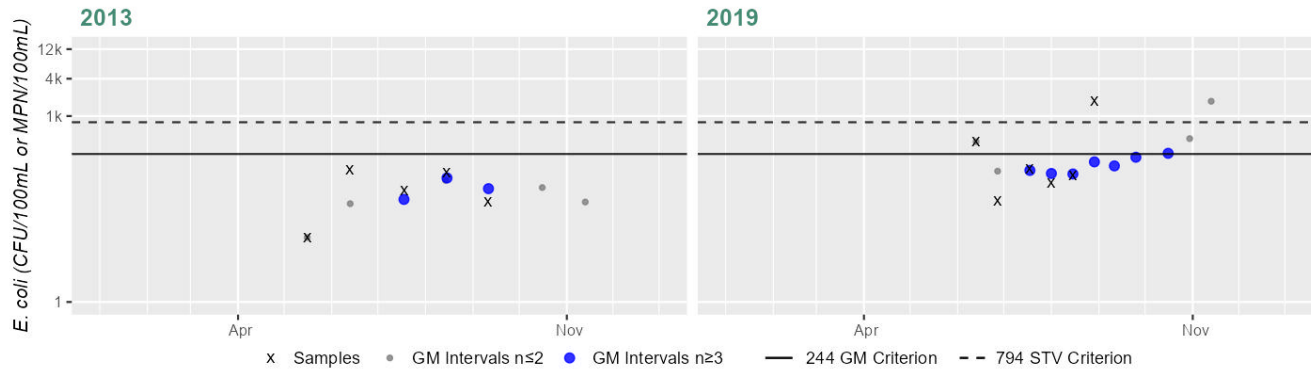
Variable*	Result
Samples	4
SeasGM	16
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2402 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	53
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	182
#GMI	7
#GMI Ex	1
%GMI Ex	14%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
10%

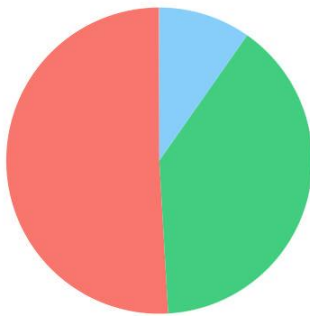
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Salisbury Brook (MA62-08)

Location:	Headwaters, outlet Cross Pond, Brockton to mouth at confluence with Trout Brook forming headwaters Salibury Plain River, Brockton.
AU Type:	RIVER
AU Size:	2.5 MILES
Classification/Qualifier:	B

Salisbury Brook (MA62-08)

Watershed Area: 8.25 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	8.25	3.73	2.97	1.00
Agriculture	0%	0%	0%	0%
Developed	50.9%	61.2%	32.2%	38.6%
Natural	39.3%	34.5%	48.9%	51.2%
Wetland	9.7%	4.3%	18.8%	10.2%
Impervious	33.7%	42.3%	22.4%	28.3%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Debris*)	--	Unchanged
5	5	(Non-Native Aquatic Plants*)	--	Unchanged
5	5	(Physical Substrate Habitat Alterations*)	--	Unchanged
5	5	Algae	--	Unchanged
5	5	Benthic Macroinvertebrates	--	Unchanged
5	5	Escherichia Coli (E. Coli)	40308	Unchanged
5	5	Fecal Coliform	40308	Unchanged
5	5	Sedimentation/Siltation	--	Unchanged
5	5	Trash	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Debris*)	Illegal Dumps or Other Inappropriate Waste Disposal (N)	--	--	X	X	X
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Physical Substrate Habitat Alterations*)	Source Unknown (N)	X	--	--	--	--
Algae	Source Unknown (N)	X	--	X	X	X
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--
Escherichia Coli (E. Coli)	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	X
Escherichia Coli (E. Coli)	Illicit Connections/Hook-ups to Storm Sewers (N)	--	--	--	X	X
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	X
Fecal Coliform	Illicit Connections/Hook-ups to Storm Sewers (N)	--	--	--	X	X
Fecal Coliform	Source Unknown (N)	--	--	--	X	X
Sedimentation/Siltation	Source Unknown (N)	X	--	--	--	--
Trash	Illegal Dumps or Other Inappropriate Waste Disposal (N)	--	--	X	X	X

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary

Fish toxics sampling has not been conducted, so the Fish Consumption Use for Salisbury Brook (MA62-08) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Salisbury Brook (MA62-08) will continue to be assessed as Not Supporting with the Algae, Debris and Trash impairments being carried forward based on observations just upstream of Ellsworth St. in 2013 and at Otis St. in 2015 & 2019. MassDEP staff recorded aesthetics observations throughout Salisbury Brook at 13 stations in Brockton during the summers of 2013 (as part of the Bacteria Source Tracking (BST) project and the MAP2 wadeable streams monitoring project); the summers of 2014, 2015 and 2018 (as part of the BST project only) and during the summer of 2019 for selected monitoring (n=8). The station descriptions from upstream to downstream are as follows: close to the upstream end of the AU just DS at Pleasant St. (Rt. 27) (W2438, n=3 in 2013); Moraine St. (W2437, n=3 in 2013), Ash St. (W2431, n=3 in 2013), ~20 ft US of Belmont Ave (W2436, n=5 in 2013), ~20 ft DS of Belmont Ave (W2435, n=4 in 2013), Spring St. (W2583, n=3 in 2015); west of Carleton St., just US of Ellsworth St. (W2378, n=8 in 2013), about halfway down the AU at Montgomery St. (W2579, n=2 in 2015), Warren Ave (W2580, n=2 in 2015), Montello St. (W2582, n=4 in 2015), Perkins St. (W2581, n=3 in 2015), Otis St. (W1490, n=4 in 2015 & 2019) and ~120 ft west of Summer St., at the mouth of Salisbury Brook (W2491, n=2 in 2014 and 2018). There were no persistent objectionable odors or turbidity recorded by MassDEP field sampling crews at the majority of the stations at any time. However, at station W2378 there were eight observations of trash and one observation of bacterial growth. Also at site W1490 there were observations of dense/very dense filamentous algae (n=2 in 2015 and n=3 in 2019), moderate-abundant amounts of trash was observed on seven occasions in 2019, with field staff raising an aesthetics flag on four occasions in the summer of 2019 due to the abundant trash and algae.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1490	MassDEP	Water Quality	Salisbury Brook	[Otis Street, Brockton]	42.079367	-71.014062
W2378	MassDEP	Water Quality	Salisbury Brook	[west of Carleton Street, just upstream/south of Ellsworth Street, Brockton]	42.082574	-71.030076
W2431	MassDEP	Water Quality	Salisbury Brook	[Ash Street, Brockton]	42.087550	-71.036144
W2435	MassDEP	Water Quality	Salisbury Brook	[approximately 20 feet downstream/east of Belmont Avenue, Brockton]	42.086697	-71.033600
W2436	MassDEP	Water Quality	Salisbury Brook	[approximately 20 feet upstream/west of Belmont Avenue, Brockton]	42.086739	-71.033801

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2437	MassDEP	Water Quality	Salisbury Brook	[Moraine Street, Brockton]	42.087815	-71.037505
W2438	MassDEP	Water Quality	Salisbury Brook	[just downstream/south at Pleasant Street (Route 27), Brockton]	42.089328	-71.039926
W2491	MassDEP	Water Quality	Salisbury Brook	[approximately 120 feet west of Summer Street, at the mouth of Salisbury Brook, Brockton]	42.079105	-71.010146
W2579	MassDEP	Water Quality	Salisbury Brook	[Montgomery Street, Brockton]	42.082918	-71.028682
W2580	MassDEP	Water Quality	Salisbury Brook	[Warren Avenue, Brockton]	42.077663	-71.022152
W2581	MassDEP	Water Quality	Salisbury Brook	[Perkins Street, Brockton]	42.080168	-71.015558
W2582	MassDEP	Water Quality	Salisbury Brook	[Montello Street, Brockton]	42.080709	-71.017187
W2583	MassDEP	Water Quality	Salisbury Brook	[Spring Street, Brockton]	42.085076	-71.033035

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W1490	2015	4	Aesthetic observations were made by MassDEP field sampling crews at Station W1490 on Salisbury Brook (MA62-08) during 4 site visits between May 2015 and Sep 2015. There were some objectionable conditions recorded, including dense/very dense filamentous algae (n=2). These conditions are indicative of an Alert status.
W1490	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W1490 on Salisbury Brook (MA62-08) during 8 site visits between May 2019 and Sep 2019. Field staff recorded the following objectionable conditions: an aesthetics impairment flag (n=4). Other objectionable conditions included dense/very dense filamentous algae (n=3). Field staff also noted objectionable deposits (n=7) and abundant trash (n=1). These observations are indicative of an Aesthetics Use impairment.
W2378	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2378 on Salisbury Brook (MA62-08) during 8 site visits between May 2013 and Sep 2013. Field staff recorded the following objectionable conditions: an aesthetics impairment flag (n=6). Field staff also noted grey water color (n=1) and objectionable deposits (n=8). These observations are indicative of an Aesthetics Use impairment.
W2431	2013	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2431 on Salisbury Brook (MA62-08) during 3 site visits between Jul 2013 and Oct 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2435	2013	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2435 on Salisbury Brook (MA62-08) during 4 site visits between Apr 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2436	2013	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2436 on Salisbury Brook (MA62-08) during 5 site visits between Apr 2013 and Oct 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2437	2013	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2437 on Salisbury Brook (MA62-08) during 3 site visits between Jul 2013 and Oct 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2438	2013	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2438 on Salisbury Brook (MA62-08) during 3 site visits between Jul 2013 and Oct 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2491	2014	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2491 on Salisbury Brook (MA62-08) during 2 site visits in Jul 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2491	2018	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2491 on Salisbury Brook (MA62-08) during 2 site visits between Jul 2018 and Aug 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2579	2015	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2579 on Salisbury Brook (MA62-08) during 2 site visits between Jun 2015 and Jul 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2580	2015	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2580 on Salisbury Brook (MA62-08) during 2 site visits between May 2015 and Jun 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2581	2015	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2581 on Salisbury Brook (MA62-08) during 3 site visits between May 2015 and Sep 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2582	2015	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2582 on Salisbury Brook (MA62-08) during 4 site visits between May 2015 and Sep 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2583	2015	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2583 on Salisbury Brook (MA62-08) during 3 site visits between Jun 2015 and Oct 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W1490	2015	4	4	2
W1490	2019	8	8	3
W2378	2013	8	7	0
W2431	2013	3	3	0
W2435	2013	4	4	0
W2436	2013	5	5	0
W2437	2013	3	3	0
W2438	2013	3	3	0
W2491	2014	2	2	0
W2491	2018	2	2	0
W2579	2015	2	2	0
W2580	2015	2	2	0
W2581	2015	3	3	0
W2582	2015	4	4	0
W2583	2015	3	3	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1490	Salisbury Brook	2015	Aquatic Plant Density, Overall	None	2	4
W1490	Salisbury Brook	2015	Aquatic Plant Density, Overall	Sparse	2	4
W1490	Salisbury Brook	2015	Color	None	4	4
W1490	Salisbury Brook	2015	Odor	None	4	4
W1490	Salisbury Brook	2015	Periphyton Density, Filamentous	Dense	1	4
W1490	Salisbury Brook	2015	Periphyton Density, Filamentous	Moderate	2	4
W1490	Salisbury Brook	2015	Periphyton Density, Filamentous	Very Dense	1	4
W1490	Salisbury Brook	2015	Periphyton Density, Film	Moderate	1	4
W1490	Salisbury Brook	2015	Periphyton Density, Film	None	3	4
W1490	Salisbury Brook	2015	Turbidity	Slightly Turbid	4	4
W1490	Salisbury Brook	2019	Aesthetics Impaired?	No	4	8
W1490	Salisbury Brook	2019	Aesthetics Impaired?	Yes	4	8
W1490	Salisbury Brook	2019	Aquatic Plant Density, Overall	None	2	8
W1490	Salisbury Brook	2019	Aquatic Plant Density, Overall	Sparse	6	8
W1490	Salisbury Brook	2019	Color	Light Yellow/Tan	2	8
W1490	Salisbury Brook	2019	Color	None	6	8
W1490	Salisbury Brook	2019	Objectionable Deposits	No	1	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1490	Salisbury Brook	2019	Objectionable Deposits	Yes	7	8
W1490	Salisbury Brook	2019	Odor	Effluent (Treated)	1	8
W1490	Salisbury Brook	2019	Odor	None	7	8
W1490	Salisbury Brook	2019	Periphyton Density, Filamentous	Dense	2	8
W1490	Salisbury Brook	2019	Periphyton Density, Filamentous	Moderate	1	8
W1490	Salisbury Brook	2019	Periphyton Density, Filamentous	None	2	8
W1490	Salisbury Brook	2019	Periphyton Density, Filamentous	Sparse	2	8
W1490	Salisbury Brook	2019	Periphyton Density, Filamentous	Very Dense	1	8
W1490	Salisbury Brook	2019	Periphyton Density, Film	None	7	8
W1490	Salisbury Brook	2019	Periphyton Density, Film	Unobservable	1	8
W1490	Salisbury Brook	2019	Scum	No	8	8
W1490	Salisbury Brook	2019	Turbidity	None	8	8
W2378	Salisbury Brook	2013	Aesthetics Impaired?	No	1	8
W2378	Salisbury Brook	2013	Aesthetics Impaired?	NR	1	8
W2378	Salisbury Brook	2013	Aesthetics Impaired?	Yes	6	8
W2378	Salisbury Brook	2013	Aquatic Plant Density, Overall	None	1	8
W2378	Salisbury Brook	2013	Aquatic Plant Density, Overall	NR	1	8
W2378	Salisbury Brook	2013	Aquatic Plant Density, Overall	Sparse	6	8
W2378	Salisbury Brook	2013	Color	Greyish	1	8
W2378	Salisbury Brook	2013	Color	Light Yellow/Tan	4	8
W2378	Salisbury Brook	2013	Color	None	3	8
W2378	Salisbury Brook	2013	Objectionable Deposits	Yes	8	8
W2378	Salisbury Brook	2013	Odor	Musty (Basement)	3	8
W2378	Salisbury Brook	2013	Odor	None	3	8
W2378	Salisbury Brook	2013	Odor	NR	1	8
W2378	Salisbury Brook	2013	Odor	Petroleum	1	8
W2378	Salisbury Brook	2013	Periphyton Density, Filamentous	None	4	8
W2378	Salisbury Brook	2013	Periphyton Density, Filamentous	NR	2	8
W2378	Salisbury Brook	2013	Periphyton Density, Filamentous	Sparse	2	8
W2378	Salisbury Brook	2013	Periphyton Density, Film	Moderate	1	8
W2378	Salisbury Brook	2013	Periphyton Density, Film	None	4	8
W2378	Salisbury Brook	2013	Periphyton Density, Film	NR	1	8
W2378	Salisbury Brook	2013	Periphyton Density, Film	Sparse	2	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2378	Salisbury Brook	2013	Scum	No	7	8
W2378	Salisbury Brook	2013	Scum	Yes	1	8
W2378	Salisbury Brook	2013	Turbidity	None	7	8
W2378	Salisbury Brook	2013	Turbidity	Slightly Turbid	1	8
W2431	Salisbury Brook	2013	Aquatic Plant Density, Overall	None	3	3
W2431	Salisbury Brook	2013	Color	None	3	3
W2431	Salisbury Brook	2013	Odor	None	3	3
W2431	Salisbury Brook	2013	Periphyton Density, Filamentous	None	3	3
W2431	Salisbury Brook	2013	Periphyton Density, Film	Sparse	3	3
W2431	Salisbury Brook	2013	Turbidity	Slightly Turbid	3	3
W2435	Salisbury Brook	2013	Aquatic Plant Density, Overall	None	4	4
W2435	Salisbury Brook	2013	Color	None	4	4
W2435	Salisbury Brook	2013	Odor	Musty (Basement)	1	4
W2435	Salisbury Brook	2013	Odor	None	3	4
W2435	Salisbury Brook	2013	Periphyton Density, Filamentous	None	4	4
W2435	Salisbury Brook	2013	Periphyton Density, Film	None	1	4
W2435	Salisbury Brook	2013	Periphyton Density, Film	Sparse	3	4
W2435	Salisbury Brook	2013	Turbidity	Moderately Turbid	1	4
W2435	Salisbury Brook	2013	Turbidity	Slightly Turbid	3	4
W2436	Salisbury Brook	2013	Aquatic Plant Density, Overall	None	4	5
W2436	Salisbury Brook	2013	Aquatic Plant Density, Overall	Sparse	1	5
W2436	Salisbury Brook	2013	Color	None	5	5
W2436	Salisbury Brook	2013	Odor	None	5	5
W2436	Salisbury Brook	2013	Periphyton Density, Filamentous	None	5	5
W2436	Salisbury Brook	2013	Periphyton Density, Film	None	2	5
W2436	Salisbury Brook	2013	Periphyton Density, Film	Sparse	3	5
W2436	Salisbury Brook	2013	Turbidity	Slightly Turbid	5	5
W2437	Salisbury Brook	2013	Aquatic Plant Density, Overall	None	3	3
W2437	Salisbury Brook	2013	Color	None	3	3
W2437	Salisbury Brook	2013	Odor	None	3	3
W2437	Salisbury Brook	2013	Periphyton Density, Filamentous	None	3	3
W2437	Salisbury Brook	2013	Periphyton Density, Film	None	1	3
W2437	Salisbury Brook	2013	Periphyton Density, Film	Sparse	2	3
W2437	Salisbury Brook	2013	Turbidity	Slightly Turbid	3	3

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2438	Salisbury Brook	2013	Aquatic Plant Density, Overall	None	2	3
W2438	Salisbury Brook	2013	Aquatic Plant Density, Overall	Sparse	1	3
W2438	Salisbury Brook	2013	Color	None	3	3
W2438	Salisbury Brook	2013	Odor	None	3	3
W2438	Salisbury Brook	2013	Periphyton Density, Filamentous	None	3	3
W2438	Salisbury Brook	2013	Periphyton Density, Film	Moderate	1	3
W2438	Salisbury Brook	2013	Periphyton Density, Film	None	1	3
W2438	Salisbury Brook	2013	Periphyton Density, Film	Sparse	1	3
W2438	Salisbury Brook	2013	Turbidity	Slightly Turbid	3	3
W2491	Salisbury Brook	2014	Aquatic Plant Density, Overall	None	2	2
W2491	Salisbury Brook	2014	Color	None	2	2
W2491	Salisbury Brook	2014	Odor	None	2	2
W2491	Salisbury Brook	2014	Periphyton Density, Filamentous	None	2	2
W2491	Salisbury Brook	2014	Periphyton Density, Film	Moderate	2	2
W2491	Salisbury Brook	2014	Turbidity	Slightly Turbid	2	2
W2491	Salisbury Brook	2018	Aquatic Plant Density, Overall	None	2	2
W2491	Salisbury Brook	2018	Color	None	2	2
W2491	Salisbury Brook	2018	Odor	None	2	2
W2491	Salisbury Brook	2018	Periphyton Density, Filamentous	None	2	2
W2491	Salisbury Brook	2018	Periphyton Density, Film	Moderate	1	2
W2491	Salisbury Brook	2018	Periphyton Density, Film	Sparse	1	2
W2491	Salisbury Brook	2018	Turbidity	Slightly Turbid	2	2
W2579	Salisbury Brook	2015	Aquatic Plant Density, Overall	None	2	2
W2579	Salisbury Brook	2015	Color	None	2	2
W2579	Salisbury Brook	2015	Odor	None	2	2
W2579	Salisbury Brook	2015	Periphyton Density, Filamentous	None	2	2
W2579	Salisbury Brook	2015	Periphyton Density, Film	None	1	2
W2579	Salisbury Brook	2015	Periphyton Density, Film	Sparse	1	2
W2579	Salisbury Brook	2015	Turbidity	Slightly Turbid	2	2
W2580	Salisbury Brook	2015	Aquatic Plant Density, Overall	Sparse	2	2
W2580	Salisbury Brook	2015	Color	None	2	2
W2580	Salisbury Brook	2015	Odor	None	2	2
W2580	Salisbury Brook	2015	Periphyton Density, Filamentous	None	1	2

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2580	Salisbury Brook	2015	Periphyton Density, Filamentous	Sparse	1	2
W2580	Salisbury Brook	2015	Periphyton Density, Film	None	1	2
W2580	Salisbury Brook	2015	Periphyton Density, Film	Sparse	1	2
W2580	Salisbury Brook	2015	Turbidity	Slightly Turbid	2	2
W2581	Salisbury Brook	2015	Aquatic Plant Density, Overall	None	3	3
W2581	Salisbury Brook	2015	Color	None	3	3
W2581	Salisbury Brook	2015	Odor	None	3	3
W2581	Salisbury Brook	2015	Periphyton Density, Filamentous	None	3	3
W2581	Salisbury Brook	2015	Periphyton Density, Film	Moderate	1	3
W2581	Salisbury Brook	2015	Periphyton Density, Film	Sparse	2	3
W2581	Salisbury Brook	2015	Turbidity	Slightly Turbid	3	3
W2582	Salisbury Brook	2015	Aquatic Plant Density, Overall	None	4	4
W2582	Salisbury Brook	2015	Color	None	4	4
W2582	Salisbury Brook	2015	Odor	None	4	4
W2582	Salisbury Brook	2015	Periphyton Density, Filamentous	None	4	4
W2582	Salisbury Brook	2015	Periphyton Density, Film	Moderate	1	4
W2582	Salisbury Brook	2015	Periphyton Density, Film	Sparse	3	4
W2582	Salisbury Brook	2015	Turbidity	Slightly Turbid	4	4
W2583	Salisbury Brook	2015	Aquatic Plant Density, Overall	Moderate	2	3
W2583	Salisbury Brook	2015	Aquatic Plant Density, Overall	Sparse	1	3
W2583	Salisbury Brook	2015	Color	None	3	3
W2583	Salisbury Brook	2015	Odor	None	3	3
W2583	Salisbury Brook	2015	Periphyton Density, Filamentous	None	3	3
W2583	Salisbury Brook	2015	Periphyton Density, Film	Moderate	2	3
W2583	Salisbury Brook	2015	Periphyton Density, Film	None	1	3
W2583	Salisbury Brook	2015	Turbidity	Slightly Turbid	3	3

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Salisbury Brook (MA62-08) continues to be assessed as Not Supporting. The prior *Escherichia coli* (*E. coli*) impairment is being carried forward based on bacteria data exceeding thresholds at 6 stations in 2013, 2015 & 2019. The prior Fecal Coliform impairment is being carried forward and the prior Algae, Debris, and Trash impairments (from the Aesthetics Use) are also being carried forward. MassDEP staff collected *E. coli* bacteria samples in Salisbury Brook from 2013-2019 at 13 stations in Brockton. Samples were collected from the following stations/sample years from upstream to downstream: close to the upstream end of the AU at W2438 [just DS/S at Pleasant St (Rt. 27)] from Jul-Oct 2013 (n=3), W2437 [Moraine St] from Jul-Oct 2013 (n=3), W2431 [Ash St] from Jul-Oct 2013 (n=3), W2435 [~20 ft DS/E of Belmont Ave] from Apr-Sep 2013 (n=4), W2436 [~20 ft upstream/west of Belmont Ave] from Apr-Oct 2013 (n=5), W2583 [Spring St] from Jun-Oct 2015 (n=3), W2378 [west of Carleton St, just US/S of Ellsworth St] from May-Sep 2013 (n=5), about halfway down the AU at W2579 [Montgomery St] from Jun-Jul 2015 (n=2), W2580 [Warren Ave] from May-Jun 2015 (n=2), W2582 [Montello St] from May-Sep 2015 (n=4), W2581 [Perkins St] from May-Sep 2015 (n=3), W1490 [Otis St] in 2015 and 2019 (n=4-6/yr), W2491 [~120 ft west of Summer St, at the mouth of Salisbury Bk] in 2014 and 2018 (n=2/yr). While *E. coli* data from 6 stations are too limited to assess the Primary Contact Recreation Use, bacteria data from the remaining 7 stations are sufficient. Data from the upstream end of the AU (at W2438) was indicative of good water quality condition; however, the remaining analysis is indicative of poor conditions as follows: Analysis of the single year limited frequency *E. coli* datasets from W2437, W2431, W2436, W2378 & W2582 indicated 100% of intervals had GMs >126 CFU/100ml, 1-5 samples exceeded the 410 CFU/100ml STV, and the seasonal GM's ranged from 365-1,194 CFU/100ml. Analysis of the multi-year limited frequency *E. coli* dataset from W1490 indicated 2 out of 2 sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml (100% in both 2015 & 2019), 2 yrs had ≥2 samples exceed the 410 CFU/100ml STV (2015 and 2019, n=4 & 6), and cumulatively across years 100% of intervals had GMs >126 CFU/100ml. The bacteria data from stations W2437, W2431, W2436, W2378, W2582, and W1490 are indicative of an *E. coli* impairment. MassDEP Bacteria Source Tracking (BST) was conducted in 2011-2018 at 19 sites along Salisbury Brook, with much of that *E. coli* data summarized above. Over the course of the BST work two hotspot areas were identified: 1) Downstream of the Belmont Ave bridge (location of a human source narrowed down to a storm drain outfall pipe underneath the Belmont Ave bridge. Source tracking progressed up into the drainage infrastructure with help of City of Brockton. 2) Between Perkins St and the bottom of the AU (source narrowed down to a storm drain outfall pipe ~770ft upstream of the confluence with the Salisbury Plain River. The city corrected a human source located on the stretch of Lawrence St between Montello St (Rt 28) & the nearby railroad line, in 2015 & 2016). *E. coli* concentrations improved at the pipe from a max of 24,196 MPN in 2014 to 249 MPN in 2018. The *E. coli* concentrations at the downstream end of the AU improved from a max of 24,196 MPN in 2014 to 1,935 MPN in 2018. The City continues to monitor/sample all City drain outfall pipes, source tracking when necessary.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1490	MassDEP	Water Quality	Salisbury Brook	[Otis Street, Brockton]	42.079367	-71.014062
W2378	MassDEP	Water Quality	Salisbury Brook	[west of Carleton Street, just upstream/south of Ellsworth Street, Brockton]	42.082574	-71.030076
W2431	MassDEP	Water Quality	Salisbury Brook	[Ash Street, Brockton]	42.087550	-71.036144
W2435	MassDEP	Water Quality	Salisbury Brook	[approximately 20 feet downstream/east of Belmont Avenue, Brockton]	42.086697	-71.033600
W2436	MassDEP	Water Quality	Salisbury Brook	[approximately 20 feet upstream/west of Belmont Avenue, Brockton]	42.086739	-71.033801
W2437	MassDEP	Water Quality	Salisbury Brook	[Moraine Street, Brockton]	42.087815	-71.037505
W2438	MassDEP	Water Quality	Salisbury Brook	[just downstream/south at Pleasant Street (Route 27), Brockton]	42.089328	-71.039926
W2491	MassDEP	Water Quality	Salisbury Brook	[approximately 120 feet west of Summer Street, at the mouth of Salisbury Brook, Brockton]	42.079105	-71.010146
W2579	MassDEP	Water Quality	Salisbury Brook	[Montgomery Street, Brockton]	42.082918	-71.028682
W2580	MassDEP	Water Quality	Salisbury Brook	[Warren Avenue, Brockton]	42.077663	-71.022152
W2581	MassDEP	Water Quality	Salisbury Brook	[Perkins Street, Brockton]	42.080168	-71.015558
W2582	MassDEP	Water Quality	Salisbury Brook	[Montello Street, Brockton]	42.080709	-71.017187
W2583	MassDEP	Water Quality	Salisbury Brook	[Spring Street, Brockton]	42.085076	-71.033035

Bacteria Data

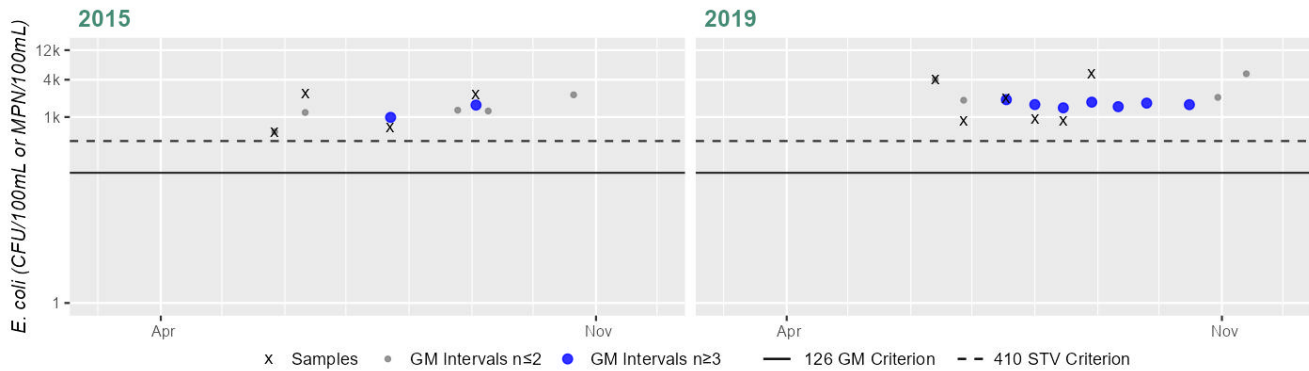
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1490	MassDEP	E. coli	05/27/15	09/03/15	4	579	2419	1217
W1490	MassDEP	E. coli	06/13/19	08/29/19	6	866	4980	1737
W2378	MassDEP	E. coli	05/16/13	09/11/13	5	727	1860	1194
W2431	MassDEP	E. coli	07/17/13	10/02/13	3	246	1200	565
W2435	MassDEP	E. coli	04/10/13	09/19/13	4	226	2420	812
W2436	MassDEP	E. coli	04/10/13	10/02/13	5	213	2419	855
W2437	MassDEP	E. coli	07/17/13	10/02/13	3	181	980	365
W2438	MassDEP	E. coli	07/17/13	10/02/13	3	85	161	118
W2491	MassDEP	E. coli	07/09/14	07/23/14	2	7270	24200	13264
W2491	MassDEP	E. coli	07/16/18	08/01/18	2	1150	1940	1493
W2579	MassDEP	E. coli	06/11/15	07/23/15	2	1050	1200	1122
W2580	MassDEP	E. coli	05/27/15	06/11/15	2	1120	1550	1317
W2581	MassDEP	E. coli	05/27/15	09/03/15	3	980	3260	1607
W2582	MassDEP	E. coli	05/27/15	09/03/15	4	816	1410	1115
W2583	MassDEP	E. coli	06/11/15	10/21/15	3	259	2420	588

Station MASSDEP_W1490 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	1217
#GMI	2
#GMI Ex	2
%GMI Ex	100%
n>STV	4
%n>STV	100%

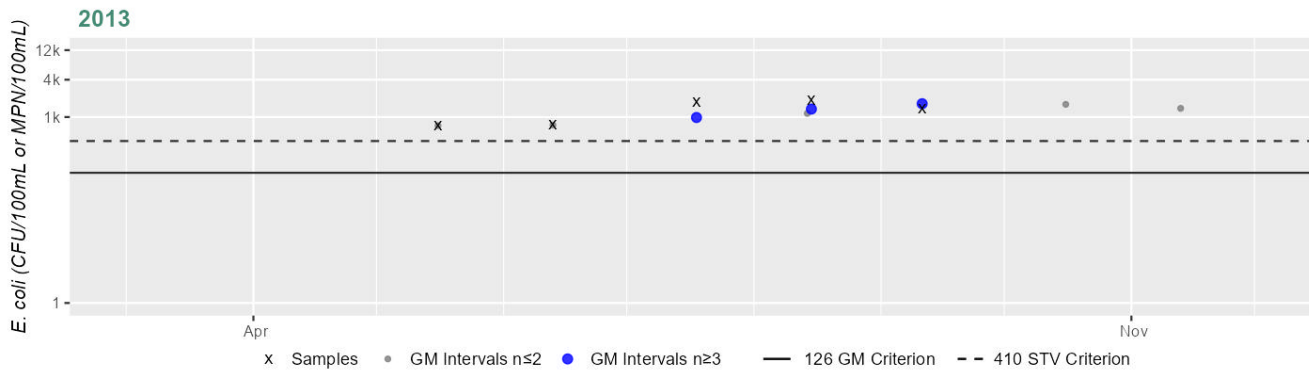
Variable*	Result
Samples	6
SeasGM	1737
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	6
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2378 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



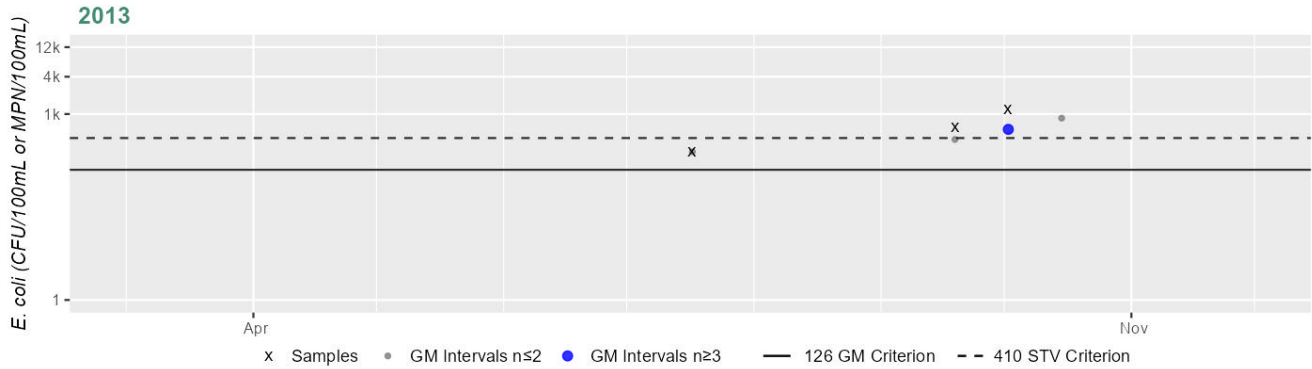
Variable*	Result
Samples	5
SeasGM	1194
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	5
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2431 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



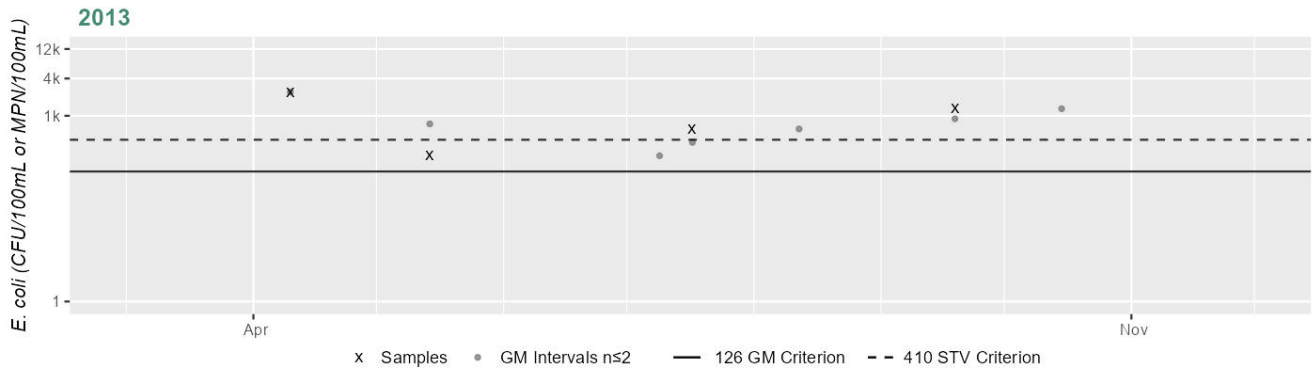
Variable*	Result
Samples	3
SeasGM	565
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	2
%n>STV	66%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2435 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



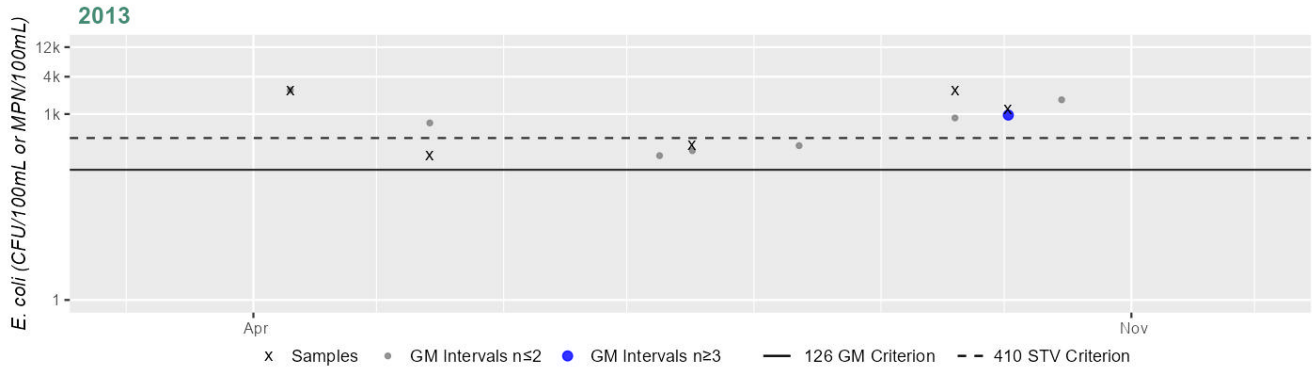
Variable*	Result
Samples	4
SeasGM	812
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	3
%n>STV	75%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2436 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



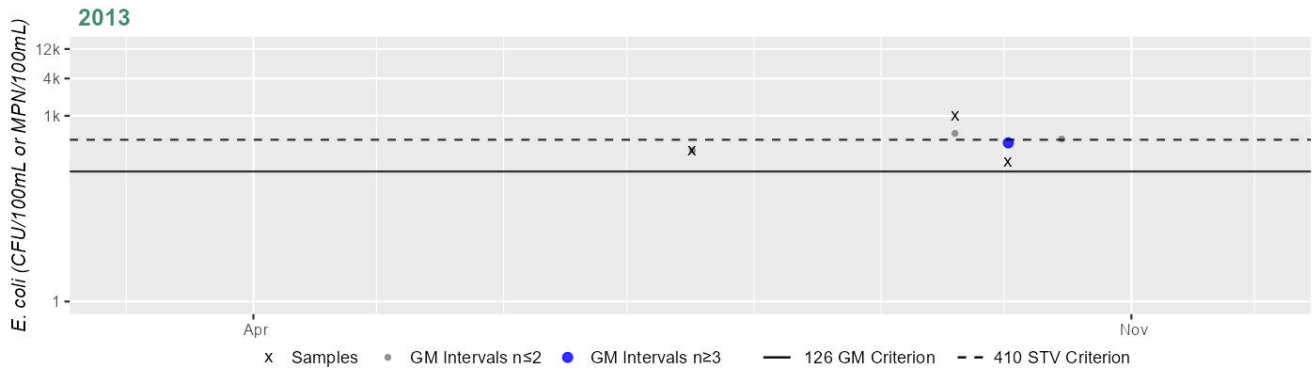
Variable*	Result
Samples	5
SeasGM	855
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	3
%n>STV	60%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2437 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



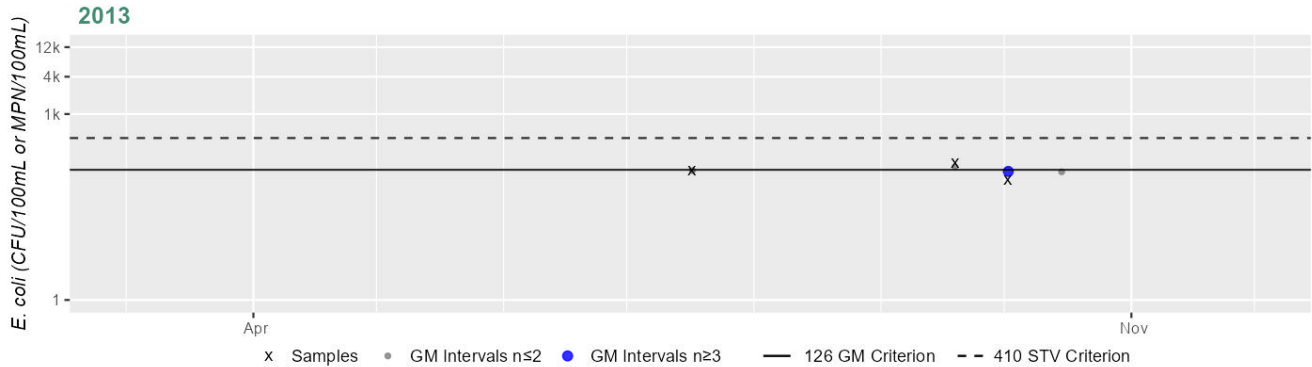
Variable*	Result
Samples	3
SeasGM	365
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	1
%n>STV	33%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2438 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



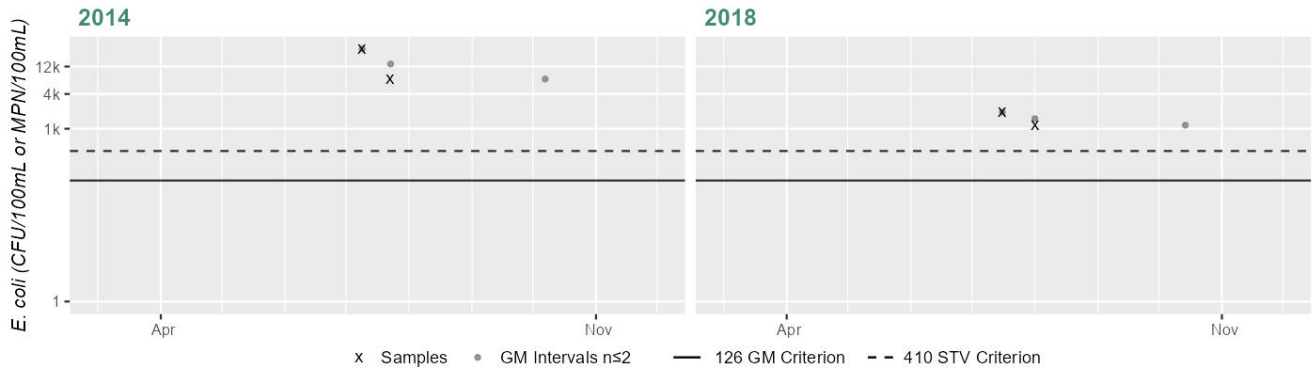
Variable*	Result
Samples	3
SeasGM	118
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2491 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	13264
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

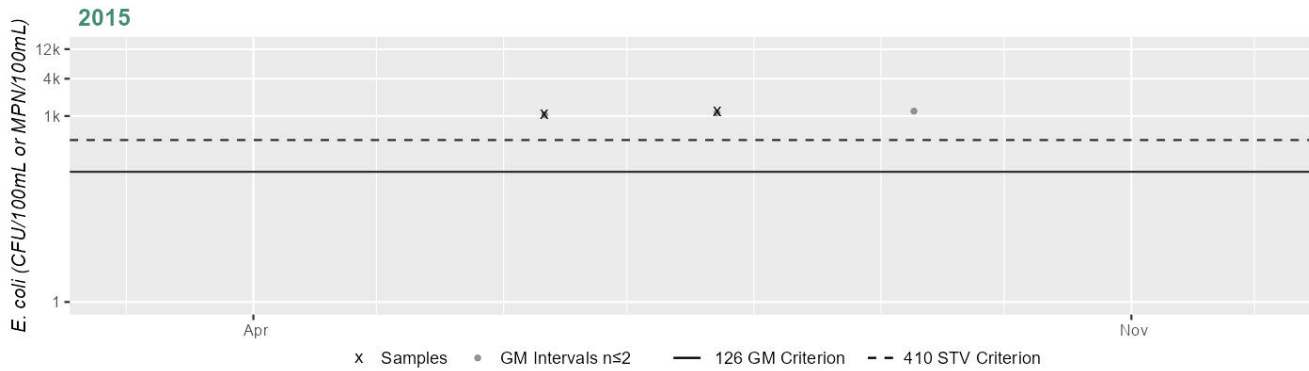
Variable*	Result
Samples	2
SeasGM	1493
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2579 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



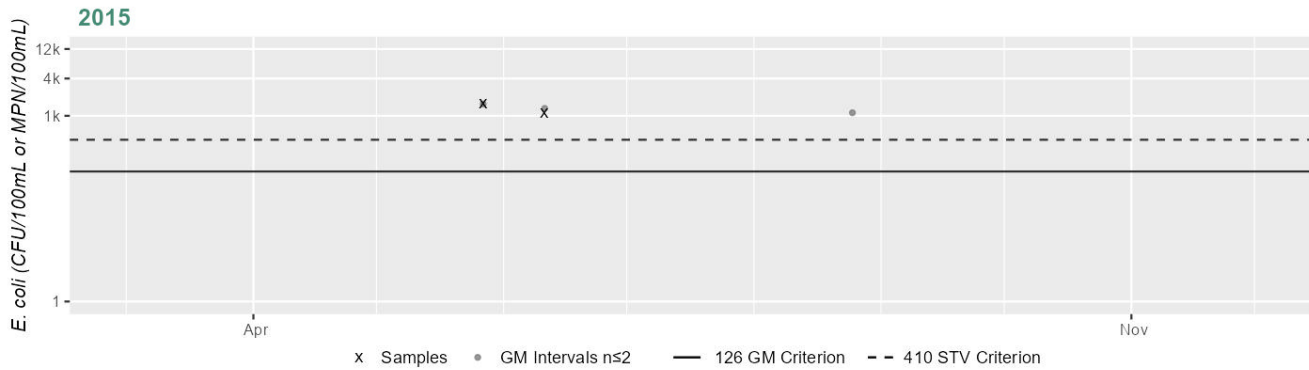
Variable*	Result
Samples	2
SeasGM	1122
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2580 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



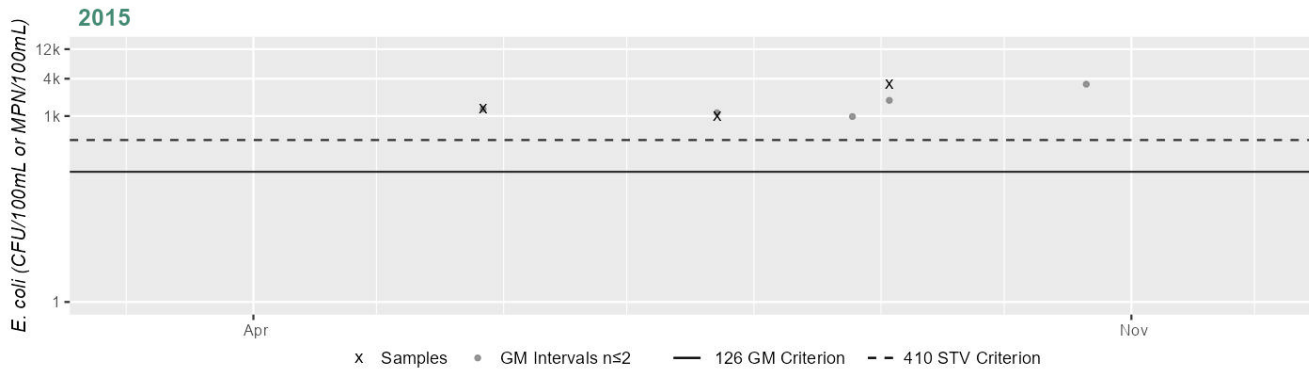
Variable*	Result
Samples	2
SeasGM	1317
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2581 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



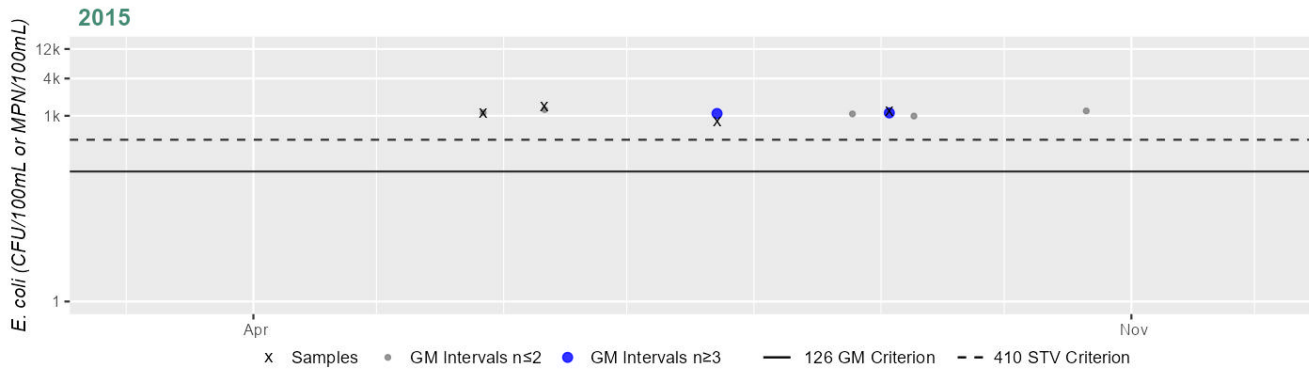
Variable*	Result
Samples	3
SeasGM	1607
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	3
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2582 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



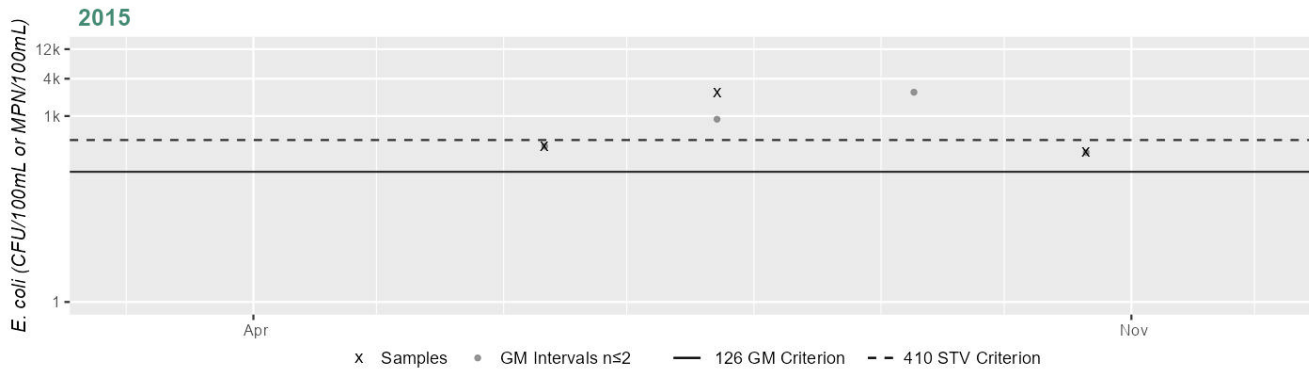
Variable*	Result
Samples	4
SeasGM	1115
#GMI	2
#GMI Ex	2
%GMI Ex	100%
n>STV	4
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2583 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	3
SeasGM	588
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	33%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Summary Statement for 2011-2019 MassDEP Bacteria Source Tracking (BST) Data (MassDEP Undated 1)

Summary

Prior to 2011, BST work was conducted along the Salisbury Brook AU (MA62-08), with a max dry weather *E. coli* concentration of >24,196MPN at Warren St. Additional BST work was conducted in 2011-2018 at 19 sites along Salisbury Brook, with *E. coli* concentrations ranging 85 to >24,196MPN. Two hotspot areas were identified: 1) The stretch of brook downstream of the Belmont Ave bridge (location of a human source narrowed down to a storm drain outfall pipe underneath the Belmont Ave bridge. Source tracking progressed up into the drainage infrastructure with help of City of Brockton. Investigation ongoing, no corrections yet). 2) The stretch of brook between Perkins St and the bottom of the AU (source narrowed down to a storm drain outfall pipe ~770ft upstream of the confluence with the Salisbury Plain River. The City corrected a human source located on the stretch of Lawrence St between Montello St (Rte 28) & the nearby railroad line, in 2015 & 2016). *E. coli* concentrations improved at the pipe from a max of 24,196MPN in 2014 to 249MPN in 2018. The *E. coli* concentrations at the downstream end of the AU improved from a max of 24,196MPN in 2014 to 1,935MPN in 2018. Elevated bacteria concentrations continue to be observed intermittently at all hotspot areas and the City continues to watch/sample all City drain outfall pipes, source tracking when necessary.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	

The Secondary Contact Recreation Use for Salisbury Brook (MA62-08) continues to be assessed as Not Supporting. The prior *Escherichia coli* (*E. coli*) impairment is being carried forward based on a re-evaluation of bacteria data exceeding thresholds at 6 stations in 2013, 2015 & 2019. The prior Fecal Coliform impairment is carried forward & the prior Algae, Debris, & Trash impairments (from the Aesthetics Use) are carried forward. MassDEP staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in Salisbury Brook from 2006-2019 at 14 stations in Brockton. Samples were collected from the following stations/sample years from up to downstream: close to the upstream end of the AU at W2438 [just DS/S at Pleasant St (Rt. 27)] Jul-Oct 2013 (n=3), W2437 [Moraine St] Jul-Oct 2013 (n=3), W2431 [Ash St] Jul-Oct 2013 (n=3), W2435 [~20 ft DS/E of Belmont Ave] Apr-Sep 2013 (n=4), W2436 [~20 ft US/W of Belmont Ave] Apr-Oct 2013 (n=5), W2583 [Spring St] Jun-Oct 2015 (n=3), W2378 [W of Carleton St, just US/S of Ellsworth St] from May-Sep 2013 (n=5), W2579 [Montgomery St] Jun-Jul 2015 (n=2), W1491 [between Bartlett St & Warren Ave bridge] May-Oct 2006 (n=4), W2580 [Warren Ave] May-Jun 2015 (n=2), W2582 [Montello St] May-Sep 2015 (n=4), W2581 [Perkins St] May-Sep 2015 (n=3), W1490 [Otis St] May-Oct 2006 (historic n=4) 2015 & 2019 (current n=4-6/yr), W1490 [Otis St] May-Oct 2006 (historic n=4) 2015 & 2019 (current n=4-6/yr), W2491 [~120 ft W of Summer St, at the mouth of Salisbury Bk] in 2014 & 2018 (n=2/yr). Since data from the current IR window is indicative of poor water quality, only the analysis for data in the current IR window will be summarized here. While *E. coli* data from 6 stations sampled during the current IR window are too limited to assess the Secondary Contact Recreation Use, bacteria data from the remaining 6 stations in the current IR window are sufficient. Data from the upstream end of the AU (at W2438) was indicative of good water quality conditions, however the remaining analysis is indicative of poor conditions as follows: Analysis of the single year limited frequency *E. coli* datasets from W2437, W2431, W2436, W2378, W2582 & W1490 indicated 100% of intervals had GMs >244 CFU/100ml, 1-4 samples exceeded the 794 CFU/100ml STV, and the overall GM's ranged from 365-1194 CFU/100ml. Analysis of the multi-year limited frequency *E. coli* dataset from W1490 indicated 2 out of 2 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml (100% in both 2015 & 2019), 2 yrs had ≥2 samples exceed the 794 CFU/100ml STV (2015 and 2019, n=2 & 6), and cumulatively across years 100% of intervals had GMs >244 CFU/100ml. The bacteria data from W2437, W2431, W2436, W2378, W2582, and W1490 are indicative of an *E. coli* impairment. MassDEP Bacteria Source Tracking (BST) work was conducted in 2011-2018 at 19 stations along Salisbury Brook, with much of that *E. coli* data summarized above. BST work identified two hotspot areas: 1) Downstream of the Belmont Ave bridge (human source narrowed down to a storm drain outfall pipe underneath the Belmont Ave bridge. Source tracking progressed up into the drainage infrastructure with help of City of Brockton. 2) Between Perkins St and the bottom of the AU (source narrowed down to a storm drain outfall pipe ~770 ft upstream of the confluence with the Salisbury Plain River. The City corrected a human source located on the stretch of Lawrence St between Montello St (Rt 28) & the nearby railroad line, in 2015 & 2016). *E. coli* concentrations improved at the pipe from a max of 24,196 MPN in 2014 to 249 MPN in 2018. The *E. coli* concentrations at the downstream end of the AU improved from a max of 24,196 MPN in 2014 to 1,935 MPN in 2018. The City continues to monitor/sample all City drain outfall pipes, source tracking when necessary.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1490	MassDEP	Water Quality	Salisbury Brook	[Otis Street, Brockton]	42.079367	-71.014062
W1491	MassDEP	Water Quality	Salisbury Brook	[between Bartlett Street and Warren Avenue bridge, Brockton]	42.077715	-71.023148
W2378	MassDEP	Water Quality	Salisbury Brook	[west of Carleton Street, just upstream/south of Ellsworth Street, Brockton]	42.082574	-71.030076
W2431	MassDEP	Water Quality	Salisbury Brook	[Ash Street, Brockton]	42.087550	-71.036144
W2435	MassDEP	Water Quality	Salisbury Brook	[approximately 20 feet downstream/east of Belmont Avenue, Brockton]	42.086697	-71.033600
W2436	MassDEP	Water Quality	Salisbury Brook	[approximately 20 feet upstream/west of Belmont Avenue, Brockton]	42.086739	-71.033801
W2437	MassDEP	Water Quality	Salisbury Brook	[Moraine Street, Brockton]	42.087815	-71.037505
W2438	MassDEP	Water Quality	Salisbury Brook	[just downstream/south at Pleasant Street (Route 27), Brockton]	42.089328	-71.039926
W2491	MassDEP	Water Quality	Salisbury Brook	[approximately 120 feet west of Summer Street, at the mouth of Salisbury Brook, Brockton]	42.079105	-71.010146
W2579	MassDEP	Water Quality	Salisbury Brook	[Montgomery Street, Brockton]	42.082918	-71.028682
W2580	MassDEP	Water Quality	Salisbury Brook	[Warren Avenue, Brockton]	42.077663	-71.022152
W2581	MassDEP	Water Quality	Salisbury Brook	[Perkins Street, Brockton]	42.080168	-71.015558
W2582	MassDEP	Water Quality	Salisbury Brook	[Montello Street, Brockton]	42.080709	-71.017187
W2583	MassDEP	Water Quality	Salisbury Brook	[Spring Street, Brockton]	42.085076	-71.033035

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

(MassDEP Undated 9) (MassDEP Undated 4)

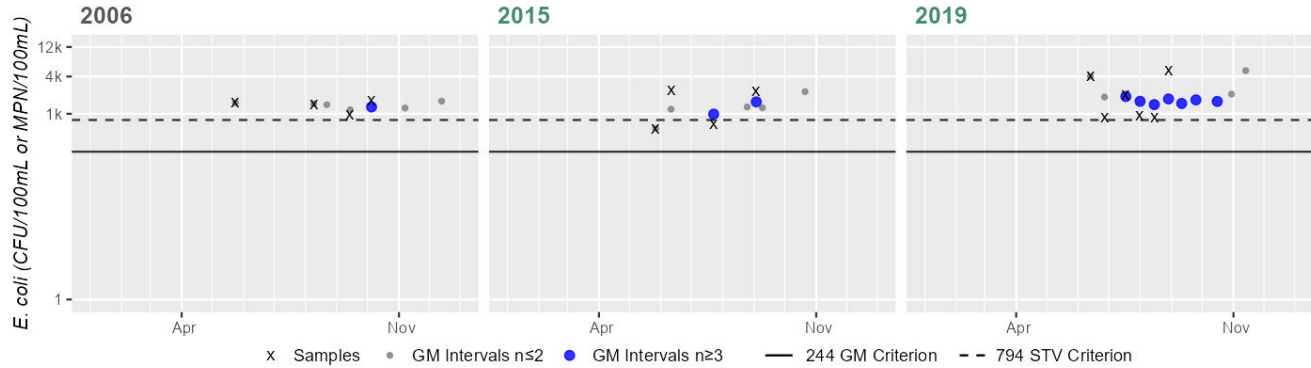
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1490	MassDEP	E. coli	05/24/06	10/05/06	4	960	1600	1340
W1490	MassDEP	E. coli	05/27/15	09/03/15	4	579	2419	1217
W1490	MassDEP	E. coli	06/13/19	08/29/19	6	866	4980	1737
W1491	MassDEP	E. coli	05/24/06	10/05/06	4	1600	1600	1599
W2378	MassDEP	E. coli	05/16/13	09/11/13	5	727	1860	1194
W2431	MassDEP	E. coli	07/17/13	10/02/13	3	246	1200	565
W2435	MassDEP	E. coli	04/10/13	09/19/13	4	226	2420	812
W2436	MassDEP	E. coli	04/10/13	10/02/13	5	213	2419	855
W2437	MassDEP	E. coli	07/17/13	10/02/13	3	181	980	365
W2438	MassDEP	E. coli	07/17/13	10/02/13	3	85	161	118
W2491	MassDEP	E. coli	07/09/14	07/23/14	2	7270	24200	13264
W2491	MassDEP	E. coli	07/16/18	08/01/18	2	1150	1940	1493

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2579	MassDEP	E. coli	06/11/15	07/23/15	2	1050	1200	1122
W2580	MassDEP	E. coli	05/27/15	06/11/15	2	1120	1550	1317
W2581	MassDEP	E. coli	05/27/15	09/03/15	3	980	3260	1607
W2582	MassDEP	E. coli	05/27/15	09/03/15	4	816	1410	1115
W2583	MassDEP	E. coli	06/11/15	10/21/15	3	259	2420	588

Station MASSDEP_W1490 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	1340
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	4
%n>STV	100%

Variable*	Result
Samples	4
SeasGM	1217
#GMI	2
#GMI Ex	2
%GMI Ex	100%
n>STV	2
%n>STV	50%

Variable*	Result
Samples	6
SeasGM	1737
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	6
%n>STV	100%

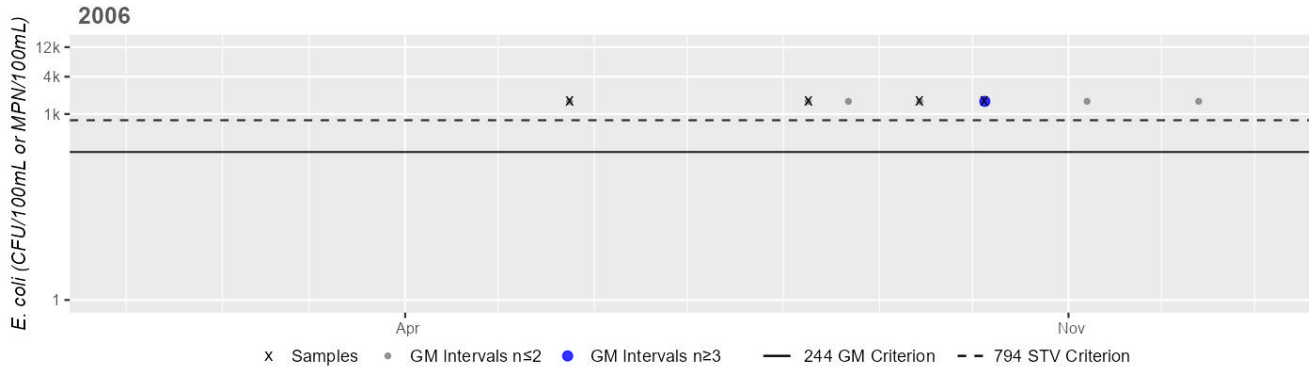
Cumulative %GMI Exceedance
Historic (1997-2010)
100%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1491 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



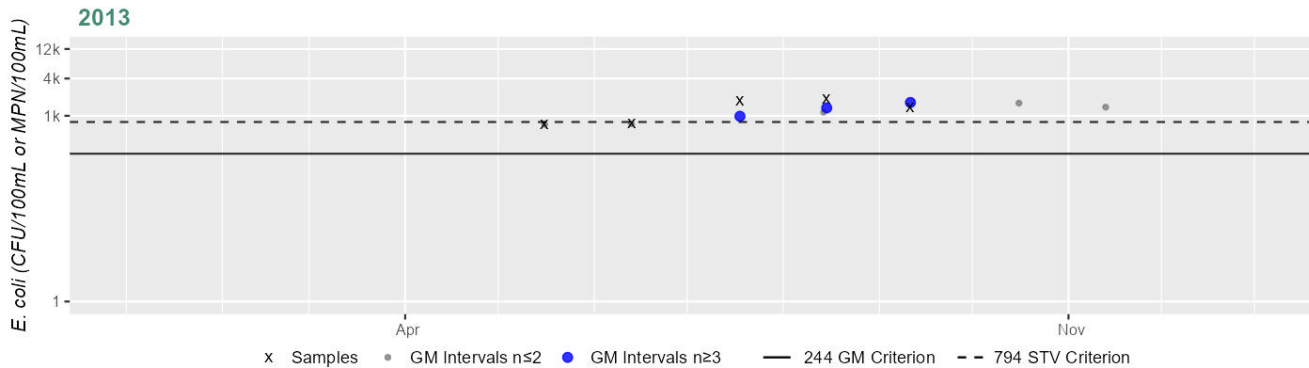
Variable*	Result
Samples	4
SeasGM	1600
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	4
%n>STV	100%

Cumulative %GMI Exceedance
Historic (1997-2010)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2378 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



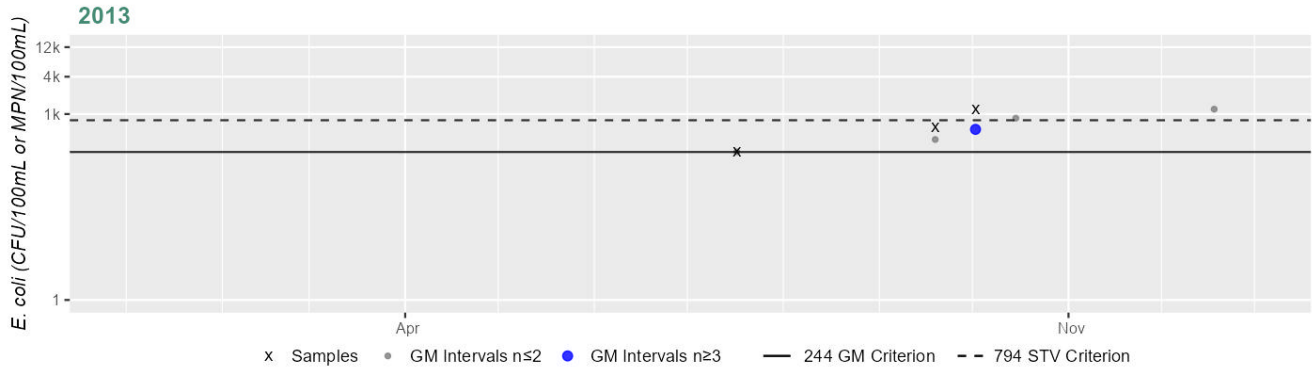
Variable*	Result
Samples	5
SeasGM	1194
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	3
%n>STV	60%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2431 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



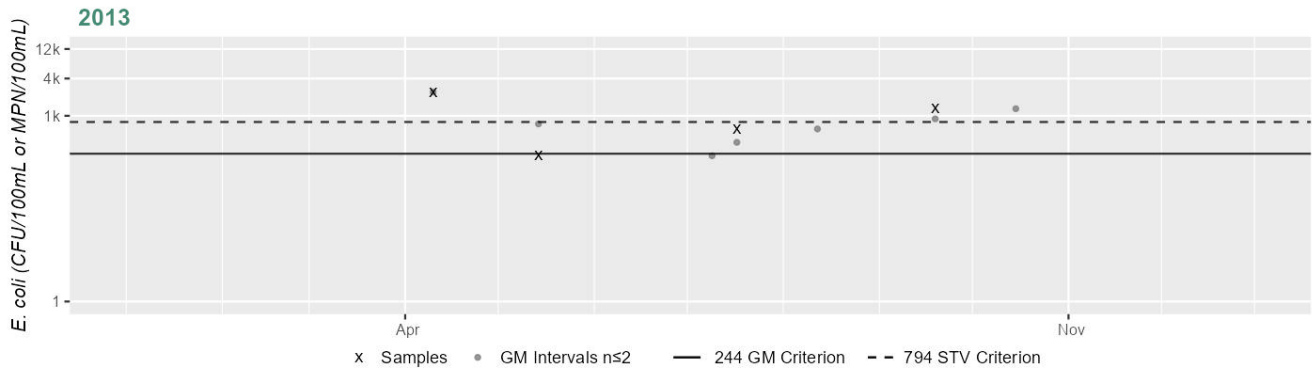
Variable*	Result
Samples	3
SeasGM	565
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	1
%n>STV	33%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2435 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



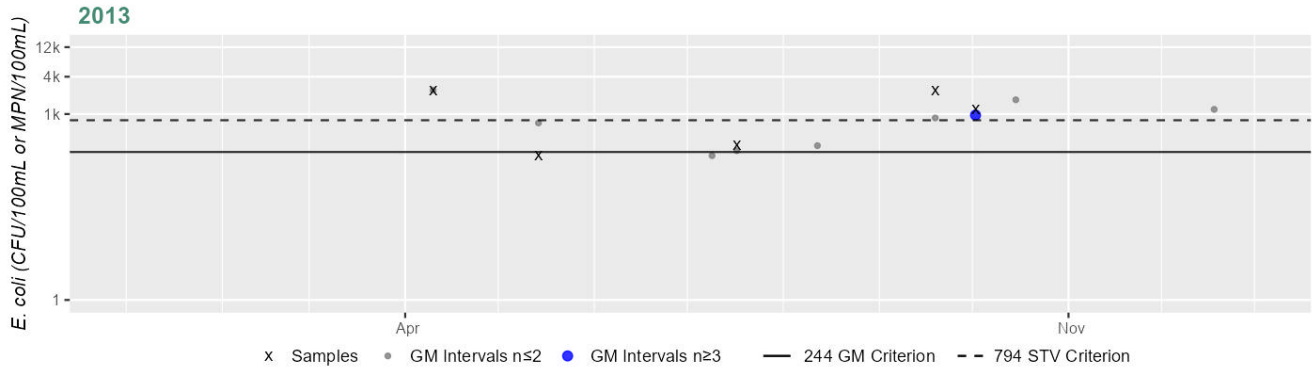
Variable*	Result
Samples	4
SeasGM	812
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2436 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



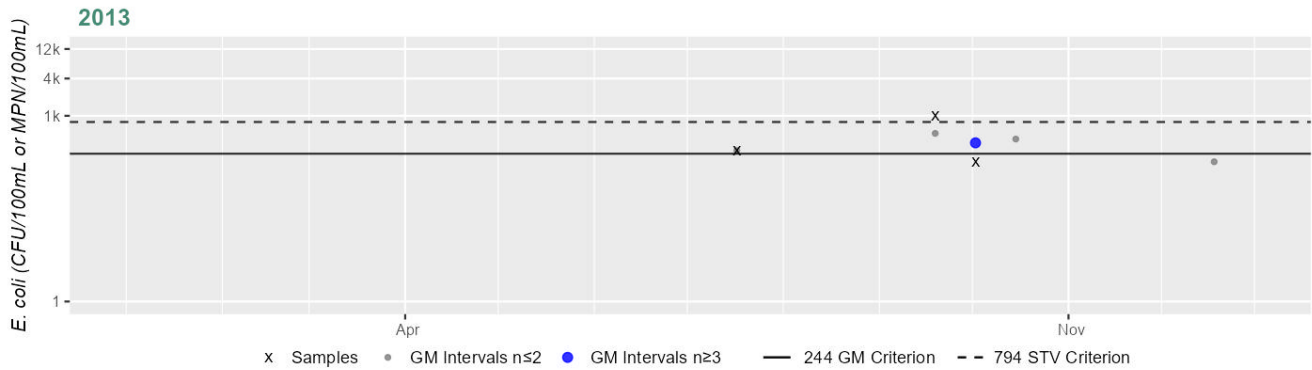
Variable*	Result
Samples	5
SeasGM	855
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	3
%n>STV	60%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2437 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



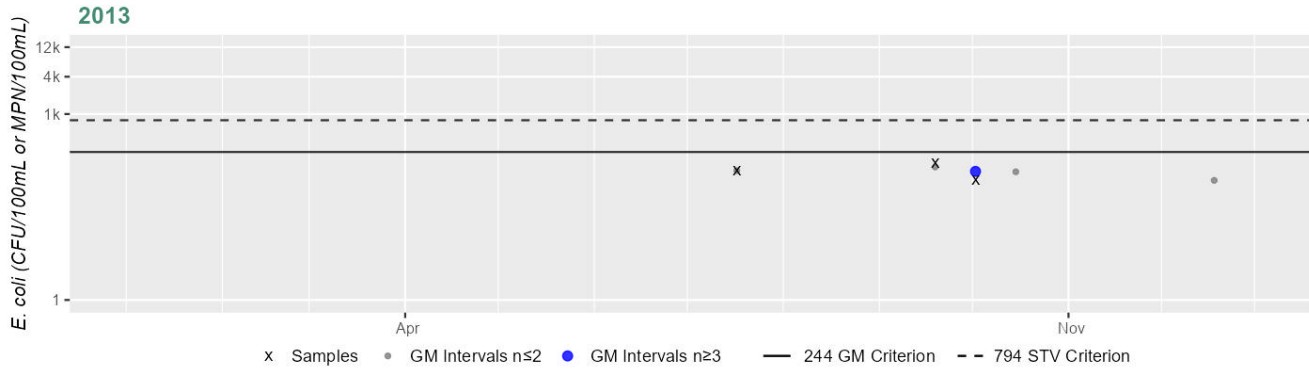
Variable*	Result
Samples	3
SeasGM	365
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	1
%n>STV	33%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2438 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



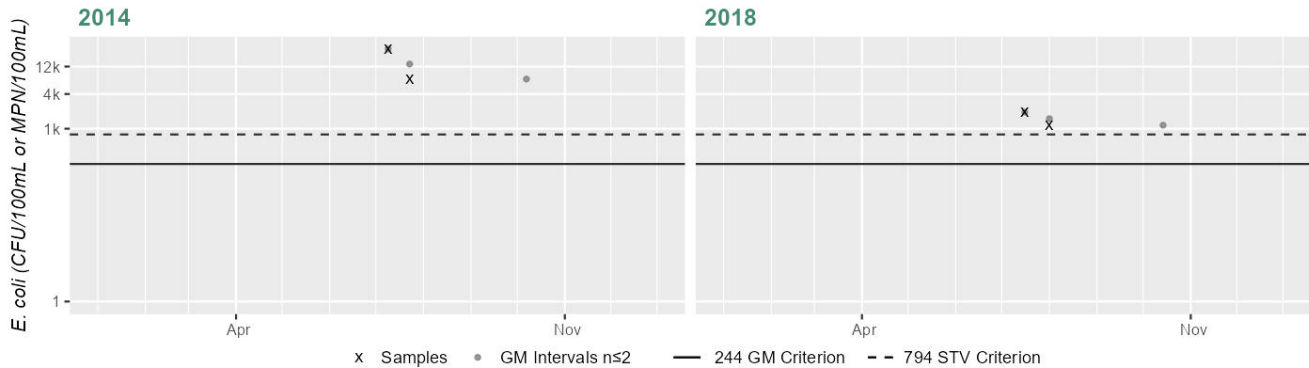
Variable*	Result
Samples	3
SeasGM	118
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2491 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	13264
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

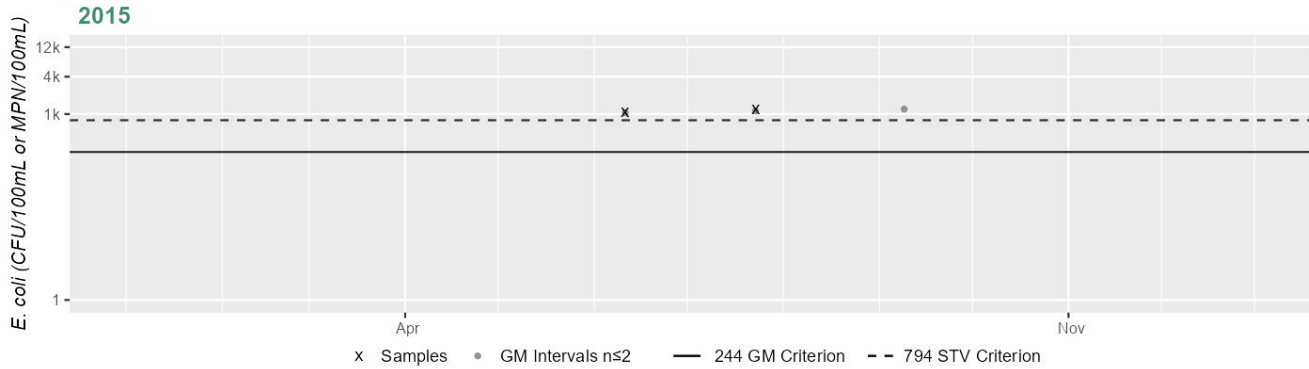
Variable*	Result
Samples	2
SeasGM	1493
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2579 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



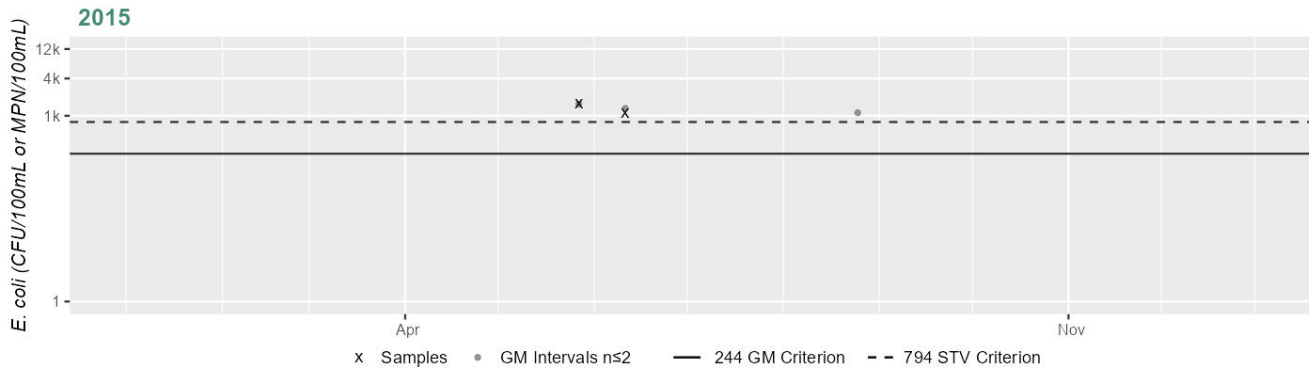
Variable*	Result
Samples	2
SeasGM	1122
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2580 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



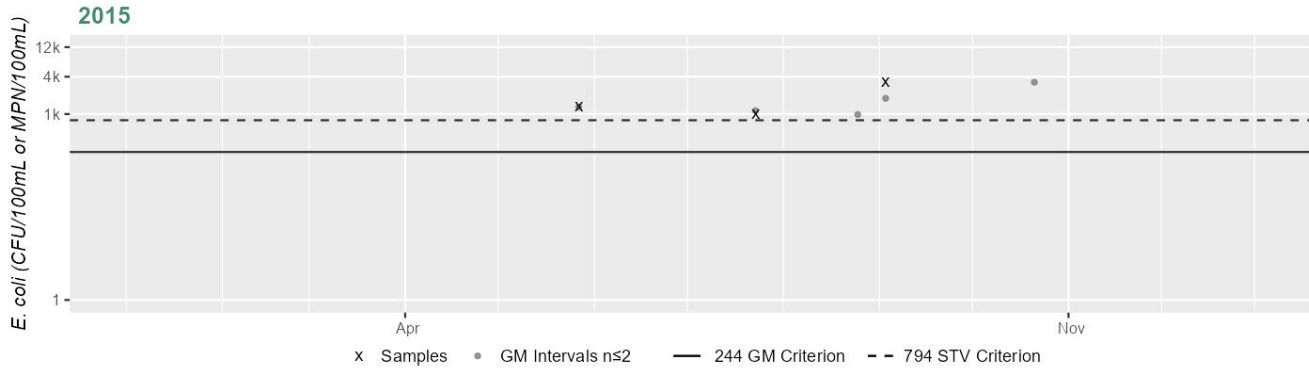
Variable*	Result
Samples	2
SeasGM	1317
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2581 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



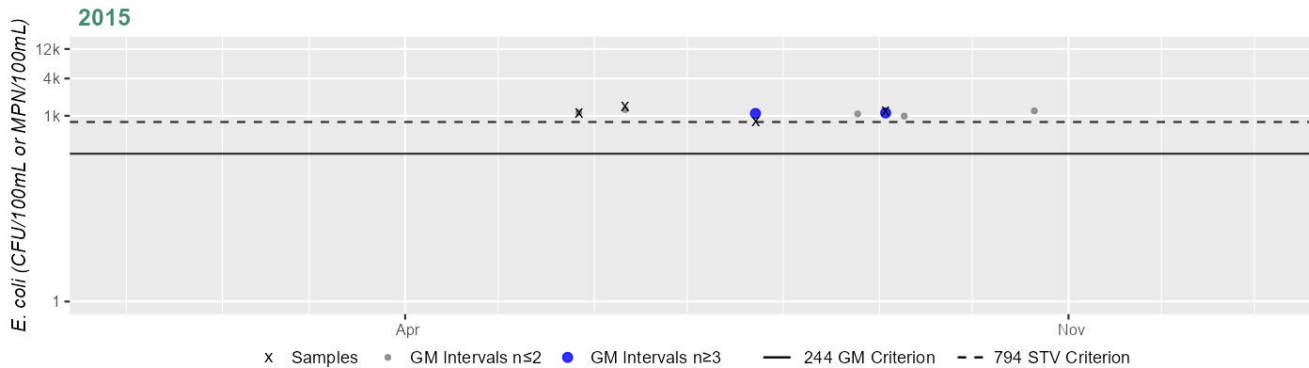
Variable*	Result
Samples	3
SeasGM	1607
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	3
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2582 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



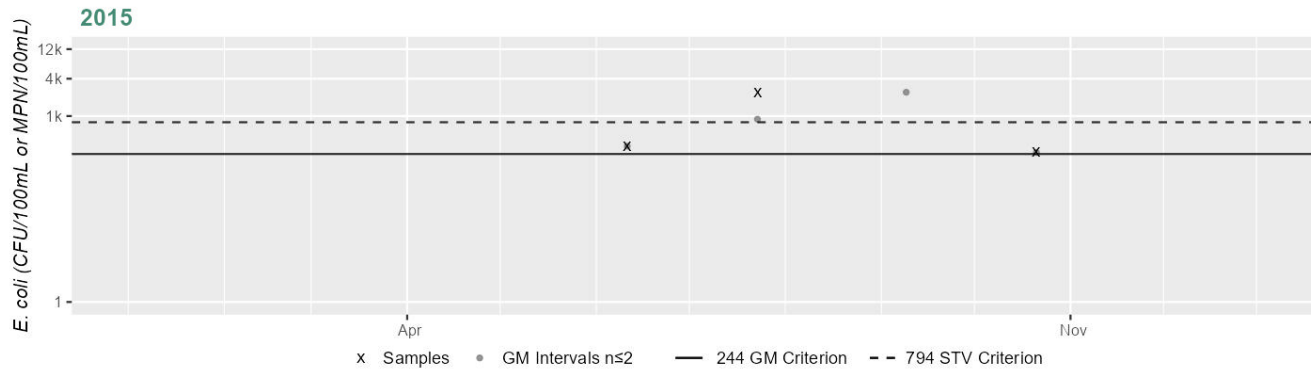
Variable*	Result
Samples	4
SeasGM	1115
#GMI	2
#GMI Ex	2
%GMI Ex	100%
n>STV	4
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
 100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2583 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	3
SeasGM	588
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	33%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

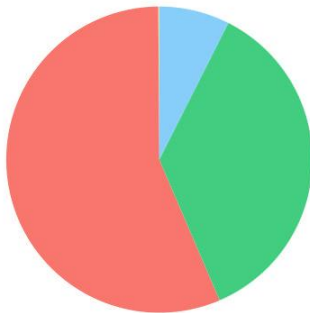
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Salisbury Plain River (MA62-05)

Location:	Headwaters, confluence of Trout and Salisbury brooks, Brockton to the Brockton Advanced Water Reclamation Facility (AWRF) discharge (NPDES: MA0101010), Brockton.
AU Type:	RIVER
AU Size:	2.4 MILES
Classification/Qualifier:	B

Salisbury Plain River (MA62-05)

Watershed Area: 17.99 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	17.99	4.90	4.92	0.86
Agriculture	0.1%	0.3%	0%	0%
Developed	56.3%	69.3%	36.7%	56.9%
Natural	36.1%	25.9%	45.5%	31.6%
Wetland	7.4%	4.4%	17.7%	11.5%
Impervious	35.8%	47.8%	23.6%	37.8%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Debris*)	--	Unchanged
5	5	(Physical Substrate Habitat Alterations*)	--	Unchanged
5	5	Benthic Macroinvertebrates	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	Escherichia Coli (E. Coli)	40308	Unchanged
5	5	Fecal Coliform	40308	Unchanged
5	5	Sedimentation/Siltation	--	Unchanged
5	5	Trash	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Debris*)	Illegal Dumps or Other Inappropriate Waste Disposal (N)	--	--	X	X	X
(Physical Substrate Habitat Alterations*)	Municipal (Urbanized High Density Area) (Y)	X	--	--	--	--
(Physical Substrate Habitat Alterations*)	Source Unknown (N)	X	--	--	--	--
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--
Dissolved Oxygen	Municipal (Urbanized High Density Area) (Y)	X	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
Escherichia Coli (E. Coli)	Municipal (Urbanized High Density Area) (Y)	--	--	--	X	X
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X
Fecal Coliform	Municipal (Urbanized High Density Area) (Y)	--	--	--	X	X
Fecal Coliform	Source Unknown (N)	--	--	--	X	X
Sedimentation/Siltation	Municipal (Urbanized High Density Area) (Y)	X	--	--	--	--
Sedimentation/Siltation	Source Unknown (N)	X	--	--	--	--
Trash	Illegal Dumps or Other Inappropriate Waste Disposal (N)	--	--	X	X	X

Recommendations

2024/26 Recommendations

2022 IR [Odor, low] Additional monitoring is recommended due to a petroleum odor detected twice at {W2406} in 2013.

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Salisbury Plain River (MA62-05) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	YES
2024/26 Use Attainment Summary	
<p>The Aesthetics use for Salisbury Plain River (MA62-05) continues to be assessed as Not Supporting with the Debris and Trash impairments being carried forward (based on observations of trash by MassDEP staff ~1300ft downstream of Grove St. (W2406) during summer 2013) and at Sargent's Way bridge (W1494) during summer 2019. The Alert previously identified due to the petroleum odor at W2406 in 2013 is also being carried forward since this station was not visited again during subsequent projects in 2014, 2018 or 2019 to confirm these observations. MassDEP staff recorded aesthetics observations for this Salisbury Plain River AU at six stations in Brockton during the summer of 2013 (as part of the Bacteria Source Tracking (BST) project and the MAP2 wadeable streams monitoring project), the summers of 2014 and 2018 (as part of the BST project only) and the summer of 2019 for selected monitoring. The station descriptions from upstream to downstream are as follows: at the upstream end of the AU ~225ft downstream/south of Grove St. (at wooden footbridge) (W2430, n=2 in 2013 and n=2 in 2014); in the upstream half of the AU ~1300ft downstream/south from Grove St. (W2406, n=8 in 2013); west of the western end of Hudson St. (W2921, n=2 in 2018); Pine Avenue (W2429, n=3 in 2013, n=2 in 2018); in the downstream half of the AU just downstream at Plain St. (W2428, n=2 in 2013) and close to the downstream end of the AU at Sargent's Way bridge (W1494, n=8 in 2019). There were generally no persistent objectionable growths or turbidity recorded by DEP field sampling crews at four out of the six stations. However, at W2406 there were eight observations of trash (noted as heavy several times) and a petroleum odor was present on two occasions; then at W1494 there were also eight observations of trash (noted as heavy several times). At both stations MassDEP field staff did raise an aesthetics flag on numerous occasions as a result of the trash.</p>	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1494	MassDEP	Water Quality	Salisbury Plain River	[Sargent's Way bridge, Brockton (as it appears in 2001 orthophoto)]	42.053765	-71.009778
W2406	MassDEP	Water Quality	Salisbury Plain River	[approximately 1300 feet downstream/south from Grove Street, Brockton]	42.075428	-71.009638

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2428	MassDEP	Water Quality	Salisbury Plain River	[just downstream at Plain Street, Brockton]	42.059084	-71.011001
W2429	MassDEP	Water Quality	Salisbury Plain River	[Pine Avenue, Brockton]	42.068999	-71.010362
W2430	MassDEP	Water Quality	Salisbury Plain River	[approximately 225 feet downstream/south of Grove Street (at wooden footbridge), Brockton]	42.078301	-71.009494
W2921	MassDEP	Water Quality	Salisbury Plain River	[west of the western end of Hudson Street, Brockton]	42.074473	-71.010416

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W1494	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W1494 on Salisbury Plain River (MA62-05) during 8 site visits between May 2019 and Sep 2019. Field staff recorded the following objectionable conditions: an aesthetics impairment flag (n=5). Other objectionable conditions included abundant trash (n=3). Field staff also noted objectionable deposits (n=8). These observations are indicative of an Aesthetics Use impairment.
W2406	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2406 on Salisbury Plain River (MA62-05) during 8 site visits between May 2013 and Sep 2013. Field staff recorded the following objectionable conditions: an aesthetics impairment flag (n=8). Other objectionable conditions included petroleum or effluent odor (n=3). Field staff also noted objectionable deposits (n=8) and abundant trash (n=2). These observations are indicative of an Aesthetics Use impairment.
W2428	2013	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2428 on Salisbury Plain River (MA62-05) during 2 site visits between Jul 2013 and Aug 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2429	2013	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2429 on Salisbury Plain River (MA62-05) during 3 site visits between Aug 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted grey water color (n=1).
W2429	2018	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2429 on Salisbury Plain River (MA62-05) during 2 site visits between Jun 2018 and Jul 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted petroleum odor (n=2). However, aesthetic observations are limited (n<3).
W2430	2013	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2430 on Salisbury Plain River (MA62-05) during 2 site visits between Aug 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2430	2014	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2430 on Salisbury Plain River (MA62-05) during 2 site visits between Jun 2014 and Jul 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2921	2018	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2921 on Salisbury Plain River (MA62-05) during 2 site visits between Jul 2018 and Aug 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W1494	2019	8	8	0
W2406	2013	8	8	0
W2428	2013	2	2	0
W2429	2013	3	3	0
W2429	2018	2	2	0
W2430	2013	2	2	0
W2430	2014	2	2	0
W2921	2018	2	2	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1494	Salisbury Plain River	2019	Aesthetics Impaired?	No	3	8
W1494	Salisbury Plain River	2019	Aesthetics Impaired?	Yes	5	8
W1494	Salisbury Plain River	2019	Aquatic Plant Density, Overall	None	4	8
W1494	Salisbury Plain River	2019	Aquatic Plant Density, Overall	Sparse	4	8
W1494	Salisbury Plain River	2019	Color	Brownish	2	8
W1494	Salisbury Plain River	2019	Color	Light Yellow/Tan	3	8
W1494	Salisbury Plain River	2019	Color	None	3	8
W1494	Salisbury Plain River	2019	Objectionable Deposits	Yes	8	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1494	Salisbury Plain River	2019	Odor	None	8	8
W1494	Salisbury Plain River	2019	Periphyton Density, Filamentous	None	7	8
W1494	Salisbury Plain River	2019	Periphyton Density, Filamentous	Sparse	1	8
W1494	Salisbury Plain River	2019	Periphyton Density, Film	None	6	8
W1494	Salisbury Plain River	2019	Periphyton Density, Film	Sparse	1	8
W1494	Salisbury Plain River	2019	Periphyton Density, Film	Unobservable	1	8
W1494	Salisbury Plain River	2019	Scum	No	7	8
W1494	Salisbury Plain River	2019	Scum	NR	1	8
W1494	Salisbury Plain River	2019	Turbidity	Moderately Turbid	1	8
W1494	Salisbury Plain River	2019	Turbidity	None	5	8
W1494	Salisbury Plain River	2019	Turbidity	Slightly Turbid	2	8
W2406	Salisbury Plain River	2013	Aesthetics Impaired?	Yes	8	8
W2406	Salisbury Plain River	2013	Aquatic Plant Density, Overall	None	8	8
W2406	Salisbury Plain River	2013	Color	Light Yellow/Tan	5	8
W2406	Salisbury Plain River	2013	Color	None	3	8
W2406	Salisbury Plain River	2013	Objectionable Deposits	Yes	8	8
W2406	Salisbury Plain River	2013	Odor	Effluent (Treated)	1	8
W2406	Salisbury Plain River	2013	Odor	None	5	8
W2406	Salisbury Plain River	2013	Odor	Petroleum	2	8
W2406	Salisbury Plain River	2013	Periphyton Density, Filamentous	None	7	8
W2406	Salisbury Plain River	2013	Periphyton Density, Filamentous	Sparse	1	8
W2406	Salisbury Plain River	2013	Periphyton Density, Film	None	7	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2406	Salisbury Plain River	2013	Periphyton Density, Film	Sparse	1	8
W2406	Salisbury Plain River	2013	Scum	No	8	8
W2406	Salisbury Plain River	2013	Turbidity	None	4	8
W2406	Salisbury Plain River	2013	Turbidity	Slightly Turbid	4	8
W2428	Salisbury Plain River	2013	Aquatic Plant Density, Overall	None	1	2
W2428	Salisbury Plain River	2013	Aquatic Plant Density, Overall	Sparse	1	2
W2428	Salisbury Plain River	2013	Color	None	2	2
W2428	Salisbury Plain River	2013	Odor	None	2	2
W2428	Salisbury Plain River	2013	Periphyton Density, Filamentous	None	2	2
W2428	Salisbury Plain River	2013	Periphyton Density, Film	Sparse	2	2
W2428	Salisbury Plain River	2013	Turbidity	Slightly Turbid	2	2
W2429	Salisbury Plain River	2013	Aquatic Plant Density, Overall	Moderate	3	3
W2429	Salisbury Plain River	2013	Color	Greyish	1	3
W2429	Salisbury Plain River	2013	Color	None	2	3
W2429	Salisbury Plain River	2013	Odor	None	2	3
W2429	Salisbury Plain River	2013	Odor	Other (Metallic)	1	3
W2429	Salisbury Plain River	2013	Periphyton Density, Filamentous	None	1	3
W2429	Salisbury Plain River	2013	Periphyton Density, Filamentous	Sparse	2	3
W2429	Salisbury Plain River	2013	Periphyton Density, Film	Moderate	1	3
W2429	Salisbury Plain River	2013	Periphyton Density, Film	Sparse	2	3
W2429	Salisbury Plain River	2013	Turbidity	Moderately Turbid	2	3
W2429	Salisbury Plain River	2013	Turbidity	Slightly Turbid	1	3

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2429	Salisbury Plain River	2018	Aquatic Plant Density, Overall	Moderate	2	2
W2429	Salisbury Plain River	2018	Color	None	2	2
W2429	Salisbury Plain River	2018	Odor	Petroleum	2	2
W2429	Salisbury Plain River	2018	Periphyton Density, Filamentous	None	2	2
W2429	Salisbury Plain River	2018	Periphyton Density, Film	Moderate	2	2
W2429	Salisbury Plain River	2018	Turbidity	Slightly Turbid	2	2
W2430	Salisbury Plain River	2013	Aquatic Plant Density, Overall	None	2	2
W2430	Salisbury Plain River	2013	Color	None	2	2
W2430	Salisbury Plain River	2013	Odor	None	2	2
W2430	Salisbury Plain River	2013	Periphyton Density, Filamentous	None	2	2
W2430	Salisbury Plain River	2013	Periphyton Density, Film	Sparse	2	2
W2430	Salisbury Plain River	2013	Turbidity	Moderately Turbid	1	2
W2430	Salisbury Plain River	2013	Turbidity	Slightly Turbid	1	2
W2430	Salisbury Plain River	2014	Aquatic Plant Density, Overall	None	1	2
W2430	Salisbury Plain River	2014	Aquatic Plant Density, Overall	Sparse	1	2
W2430	Salisbury Plain River	2014	Color	None	2	2
W2430	Salisbury Plain River	2014	Odor	None	2	2
W2430	Salisbury Plain River	2014	Periphyton Density, Filamentous	None	2	2
W2430	Salisbury Plain River	2014	Periphyton Density, Film	Moderate	1	2
W2430	Salisbury Plain River	2014	Periphyton Density, Film	None	1	2
W2430	Salisbury Plain River	2014	Turbidity	None	1	2
W2430	Salisbury Plain River	2014	Turbidity	Slightly Turbid	1	2

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2921	Salisbury Plain River	2018	Aquatic Plant Density, Overall	Dense	1	2
W2921	Salisbury Plain River	2018	Aquatic Plant Density, Overall	Sparse	1	2
W2921	Salisbury Plain River	2018	Color	None	2	2
W2921	Salisbury Plain River	2018	Odor	None	2	2
W2921	Salisbury Plain River	2018	Periphyton Density, Filamentous	None	2	2
W2921	Salisbury Plain River	2018	Periphyton Density, Film	Moderate	1	2
W2921	Salisbury Plain River	2018	Periphyton Density, Film	Sparse	1	2
W2921	Salisbury Plain River	2018	Turbidity	Slightly Turbid	2	2

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Salisbury Plain River (MA62-05) continues to be assessed as Not Supporting. The prior *Escherichia coli* (*E. coli*) impairment is being carried forward based on bacteria data exceeding thresholds at 3 stations in 2013, 2018, and 2019. The prior Fecal Coliform impairment is being carried forward and the prior Debris and Trash impairments (from the Aesthetics Use) are being carried forward. The prior Alert for Odor is being removed from the Recreational Uses but continues to be maintained under the Aesthetics Use. MassDEP staff collected *E. coli* bacteria samples in the Salisbury Plain River from 2013-2019 at 6 stations in Brockton. Samples were collected from the following stations/sample years from upstream to downstream: the upstream end of the AU at W2430 [~225 ft downstream/S of Grove St (at wooden footbridge)] in 2013-2014 (n=2/yr), in the upstream half of the AU at W2406 [~1300 ft downstream/S from Grove St] from May-Sep 2013 (n=5), W2921 [west of the western end of Hudson St] from Jul-Aug 2018 (n=2), W2429 [Pine Ave] in 2013 and 2018 (n=2-3/yr), in the downstream half of the AU at W2428 [just downstream at Plain St] from Jul-Aug 2013 (n=2), and close to the downstream end of the AU at W1494 [Sargent's Way bridge (as it appears in 2001 orthophoto)] from Jun-Aug 2019 (n=6). While *E. coli* data from 3 stations are too limited to assess the Primary Contact Recreation Use, bacteria data from the remaining 3 stations are sufficient for assessment. Analysis of the single year limited frequency *E. coli* dataset from W2406, W2429 & W1494 indicated 100% of intervals had GMs >126 CFU/100ml, 3-6 samples exceeded the 410 CFU/100ml STV, and the seasonal GM's ranged 2,979-10,723 CFU/100ml. The bacteria data from W2430, W2921 & W2428 are too limited according to the 2024 CALM to assess the Primary Contact Recreation Use, though it should be noted that *E. coli* concentrations at these stations regularly exceeded the 410 CFU/100ml STV i.e. at W2430 all 4 samples were >410 CFU (max 24,196 CFU), at W2921 both samples were >410 CFU (max 9,210 CFU) and at W2428 both samples were >410 CFU (max 2,419 CFU). The bacteria data from W2406, W2429, and W1494 are indicative of an *E. coli* impairment. Surface water sampling was conducted by the USGS upstream of the Brockton WWTF discharge at station USGS_01106438 (Sargents Way, Brockton) on three dates during September to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study). MassDEP Bacteria Source Tracking (BST) was conducted in 2011, 2013, 2014, 2018 & 2019 at 12 sites along this Salisbury Plain River AU, with much of the *E. coli* data summarized above. Evidence was found to indicate that at least one significant human source existed upgradient of the Brookside apartment culvert @ Main St and this issue was subsequently investigated by the City of Brockton. BST work was also conducted at 4 storm drain outfall pipes discharging directly to the river: 3 of these pipes were ruled out as significant sources of bacteria, but at one pipe (~370ft downstream of Grove St), dry weather flow was sampled 2013-2019, reporting a max *E. coli* concentration of >241,960 MPN. The city found and corrected 3 separate human sources of bacteria within the drainage line to this pipe in 2013 & 2017. *E. coli* concentrations remained elevated at the pipe (though improved, with a max of 5,475 MPN in 2019), and the city continues to investigate with this pipe ranking high on its prioritization list.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1494	MassDEP	Water Quality	Salisbury Plain River	[Sargent's Way bridge, Brockton (as it appears in 2001 orthophoto)]	42.053765	-71.009778
W2406	MassDEP	Water Quality	Salisbury Plain River	[approximately 1300 feet downstream/south from Grove Street, Brockton]	42.075428	-71.009638
W2428	MassDEP	Water Quality	Salisbury Plain River	[just downstream at Plain Street, Brockton]	42.059084	-71.011001
W2429	MassDEP	Water Quality	Salisbury Plain River	[Pine Avenue, Brockton]	42.068999	-71.010362
W2430	MassDEP	Water Quality	Salisbury Plain River	[approximately 225 feet downstream/south of Grove Street (at wooden footbridge), Brockton]	42.078301	-71.009494
W2921	MassDEP	Water Quality	Salisbury Plain River	[west of the western end of Hudson Street, Brockton]	42.074473	-71.010416
USGS-01106438	USGS Massachusetts Water Science Center	Water Quality	Salisbury Plain River	SALISBURY PLAIN R AT SARGENT'S WAY, BROCKTON, MA; upstream of Brockton WWTF	42.054000	-71.010000

Bacteria Data

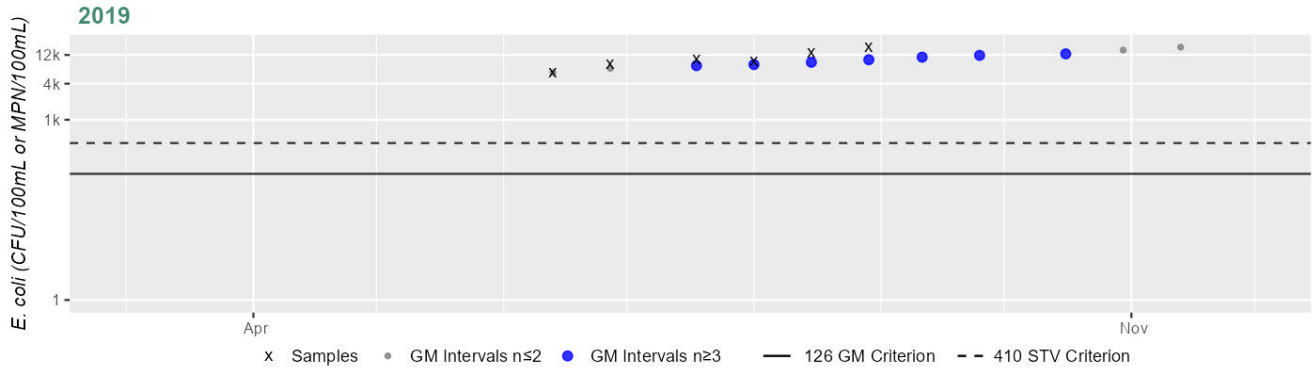
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1494	MassDEP	E. coli	06/13/19	08/29/19	6	6100	16200	9997
W2406	MassDEP	E. coli	05/23/13	09/18/13	5	862	8300	2979
W2428	MassDEP	E. coli	07/31/13	08/29/13	2	2360	2419	2389
W2429	MassDEP	E. coli	08/29/13	09/26/13	3	9800	12030	10723
W2429	MassDEP	E. coli	06/18/18	07/16/18	2	2419	5480	3641
W2430	MassDEP	E. coli	08/29/13	09/12/13	2	1190	7700	3027
W2430	MassDEP	E. coli	06/12/14	07/09/14	2	1410	24196	5840
W2921	MassDEP	E. coli	07/16/18	08/01/18	2	3080	9210	5326

Station MASSDEP_W1494 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



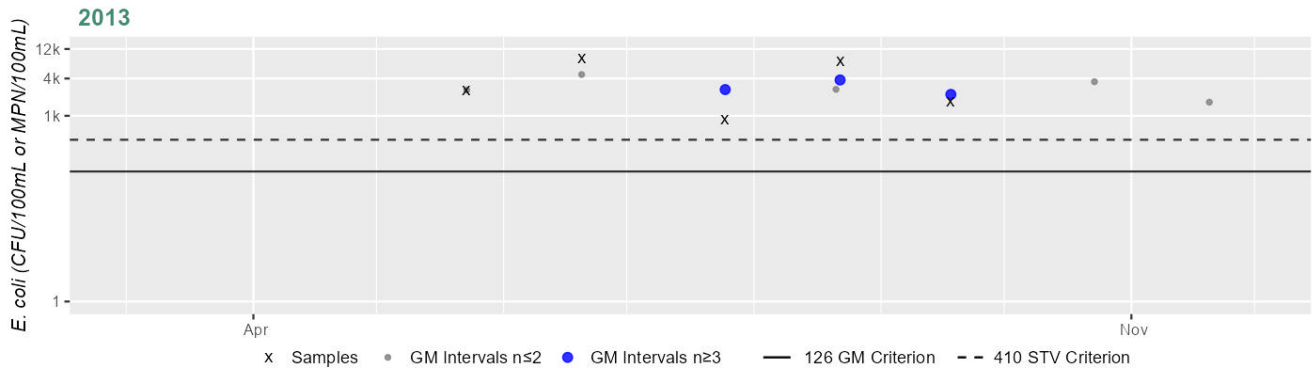
Variable*	Result
Samples	6
SeasGM	9997
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	6
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2406 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



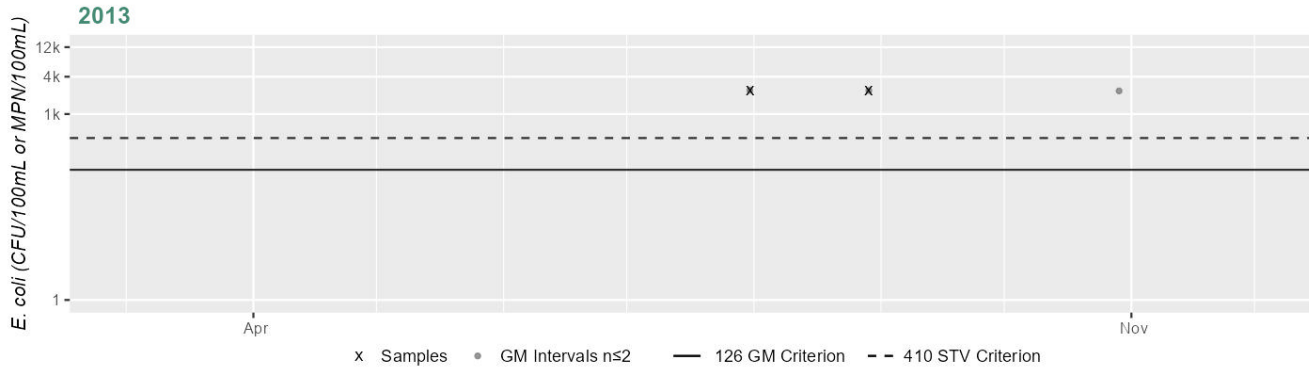
Variable*	Result
Samples	5
SeasGM	2979
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	5
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2428 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



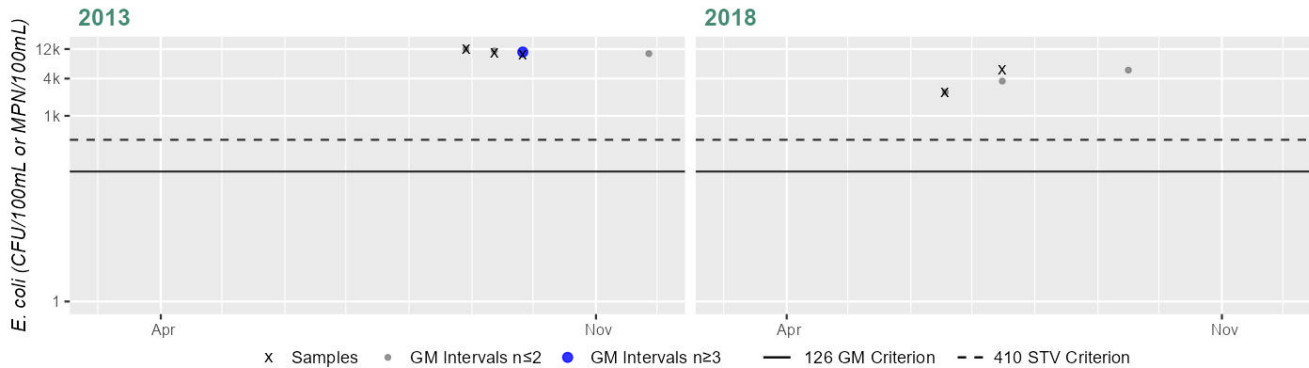
Variable*	Result
Samples	2
SeasGM	2389
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2429 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	3
SeasGM	10723
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	3
%n>STV	100%

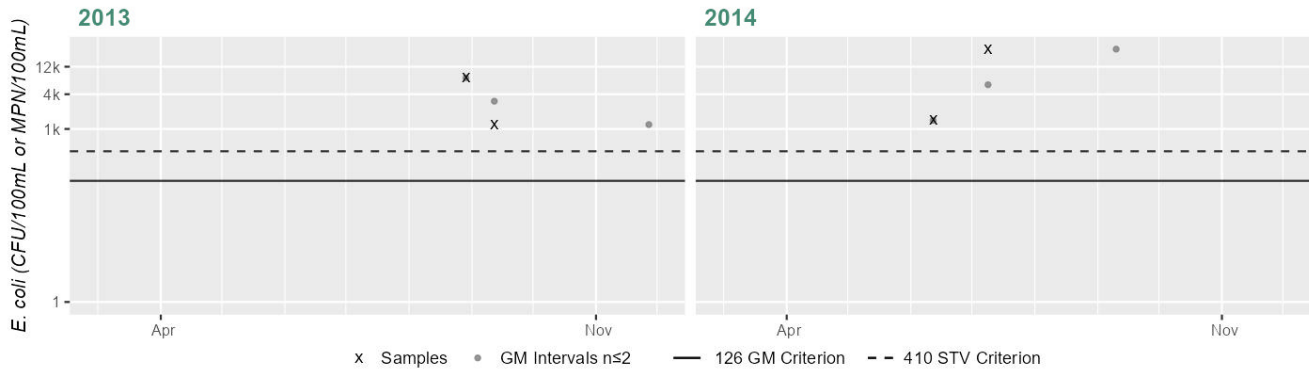
Variable*	Result
Samples	2
SeasGM	3641
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2430 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	3027
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

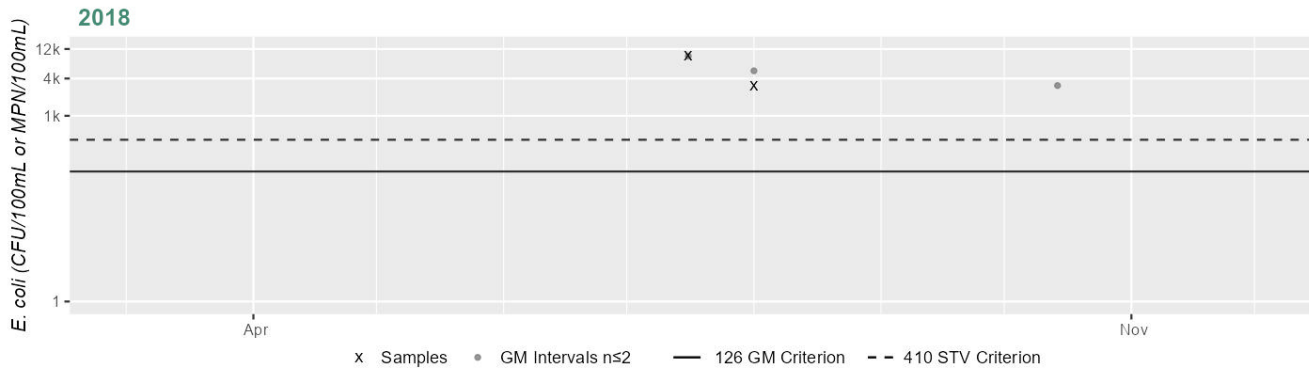
Variable*	Result
Samples	2
SeasGM	5840
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2921 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	5326
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Summary Statement for 2011-2019 MassDEP Bacteria Source Tracking (BST) Data (MassDEP Undated 1)

Summary

BST work was conducted in 2011, 2013, 2014 and 2018 at 12 sites along the Salisbury Plain River AU (MA62-05), with *E. coli* concentrations ranging 24 to 24,196MPN. BST work was also conducted in 1 unnamed tributary in 2017 & 2018 with *E. coli* concentrations ranging 1,553 - >241,960MPN; evidence indicated that at least one significant human source exists upgradient of the Brookside apartment culvert and Main Street. The City of Brockton is currently investigating this issue. BST work was also conducted at 4 storm drain outfall pipes discharging directly to the Salisbury Plain River: 3 of these pipes were ruled out as significant sources of bacteria, but at one pipe (~370ft downstream of Grove St), dry weather flow was sampled 2013-2019, with a max *E. coli* concentration of >241,960MPN. The city found and corrected 3 separate human sources of bacteria within the drainage line to this pipe in 2013 and 2017. *E. coli* concentrations have remained elevated at the pipe (though improved, with a max of 5,475MPN in 2019), and the city continues to investigate with this pipe ranking high on its prioritization list.

Other Indicators**Summary Statement(s) for USGS 2020 PFAS in Water Column Data (Savoie and Argue 2023) (MassDEP Undated 3)****Summary**

Surface water sampling was conducted by the USGS upstream of the Brockton WWTF discharge on the Salisbury Plain River (MA62-05) at station USGS_01106438 on three dates during September to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).

USGS 2020 PFAS in Water Column Data Collected Upstream and Downstream of Wastewater Treatment Facilities (Savoie and Argue 2023) (MassDEP Undated 3)

[The Σ PFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here). * indicates the Σ PFAS6 concentration is qualified since data for one or more individual PFAS6 analytes were qualified. A concentration with a "<" was less than the reporting detection limit (RDL) and the RDL was used to calculate the Σ PFAS6. E = qualifier "value is estimated"; V = qualifier "value affected by field or laboratory contamination"]

Station Code	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	Σ PFAS6 ng/L
USGS-01106438	9/1/2020	7.56	E8.5	E1.03	2.89	3.3	4.48	24.8*
USGS-01106438	9/24/2020	7.83	E10.1	E1	E2.86	3.26	3.82	25.5*
USGS-01106438	10/21/2020	6.83	8.09	E0.856	2.38	3.91	4.01	21.4*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for the Salisbury Plain River (MA62-05) continues to be assessed as Not Supporting. The prior *Escherichia coli* (*E. coli*) impairment is being carried forward based on a re-evaluation of bacteria data exceeding thresholds at 3 stations in 2013, 2018 & 2019. The prior Fecal Coliform impairment is being carried forward and the prior Debris and Trash impairments (from the Aesthetics Use) are being carried forward. The prior Alert for Odor is being removed from the Recreational Uses but continues to be maintained under the Aesthetics Use. MassDEP staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the Salisbury Plain River from 2006-2019 at 6 stations in Brockton. Samples were collected from the following stations/sample years from upstream to downstream: the upstream end of the AU at W2430 [~225 ft downstream/south of Grove St (at wooden footbridge)] in 2013-2014 (n=2/yr), W2406 [~1300 ft downstream/S from Grove St] from May-Sep 2013 (n=5), W2921 [west of the western end of Hudson St] from Jul-Aug 2018 (n=2), W2429 [Pine Ave] in 2013 and 2018 (n=2-3/yr), in the downstream half of the AU at W2428 [just downstream at Plain St] from Jul-Aug 2013 (n=2), and close to the downstream end of the AU at W1494 [Sargent's Way bridge (as it appears in 2001 orthophoto)] from May-Oct 2006 (historic n=4) and Jun-Aug 2019 (current n=6). Since data from the current IR window is indicative of poor water quality, only the analysis for data in the current IR window will be summarized here. While *E. coli* data from 3 stations sampled during the current IR window are too limited to assess the Secondary Contact Recreation Use, bacteria data from the remaining 3 stations in the current IR window are sufficient for assessment. Analysis of the single year limited frequency *E. coli* dataset from W2406, W2429 & W1494 indicated 100% of intervals had GMs >244 CFU/100ml, 3-6 samples exceeded the 794 CFU/100ml STV, and the overall GMs ranged 2,979-10,723 CFU/100ml. The bacteria data from W2430, W2921 & W2428 are too limited according to the 2024 CALM to assess the Primary Contact Recreation Use, though it should be noted that *E. coli* concentrations at these stations regularly exceeded the 794 CFU/100ml STV i.e. at W2430 all 4 samples were >794 CFU (max 24,196 CFU), at W2921 both samples were >410 CFU (max 9,210 CFU) and at W2428 both samples were >410 CFU (max 2,419 CFU). The bacteria data from W2406, W2429, and W1494 are indicative of an *E. coli* impairment. MassDEP Bacteria Source Tracking (BST) was conducted in 2011, 2013, 2014, 2018 & 2019 at 12 sites along this Salisbury Plain River AU, with much of the *E. coli* data summarized above. Evidence was found to indicate that at least one significant human source existed upgradient of the Brookside apartment culvert @ Main St and this issue was subsequently investigated by the City of Brockton. BST work was also conducted at 4 storm drain outfall pipes discharging directly to the river: 3 of these pipes were ruled out as significant sources of bacteria, but at one pipe (~370 ft downstream of Grove St), dry weather flow was sampled 2013-2019, reporting a max *E. coli* concentration of >241,960 MPN. The city found and corrected 3 separate human sources of bacteria within the drainage line to this pipe in 2013 & 2017. *E. coli* concentrations remained elevated at the pipe (though improved, with a max of 5,475 MPN in 2019), and the city continues to investigate with this pipe ranking high on its prioritization list.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1494	MassDEP	Water Quality	Salisbury Plain River	[Sargent's Way bridge, Brockton (as it appears in 2001 orthophoto)]	42.053765	-71.009778
W2406	MassDEP	Water Quality	Salisbury Plain River	[approximately 1300 feet downstream/south from Grove Street, Brockton]	42.075428	-71.009638
W2428	MassDEP	Water Quality	Salisbury Plain River	[just downstream at Plain Street, Brockton]	42.059084	-71.011001
W2429	MassDEP	Water Quality	Salisbury Plain River	[Pine Avenue, Brockton]	42.068999	-71.010362
W2430	MassDEP	Water Quality	Salisbury Plain River	[approximately 225 feet downstream/south of Grove Street (at wooden footbridge), Brockton]	42.078301	-71.009494
W2921	MassDEP	Water Quality	Salisbury Plain River	[west of the western end of Hudson Street, Brockton]	42.074473	-71.010416

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

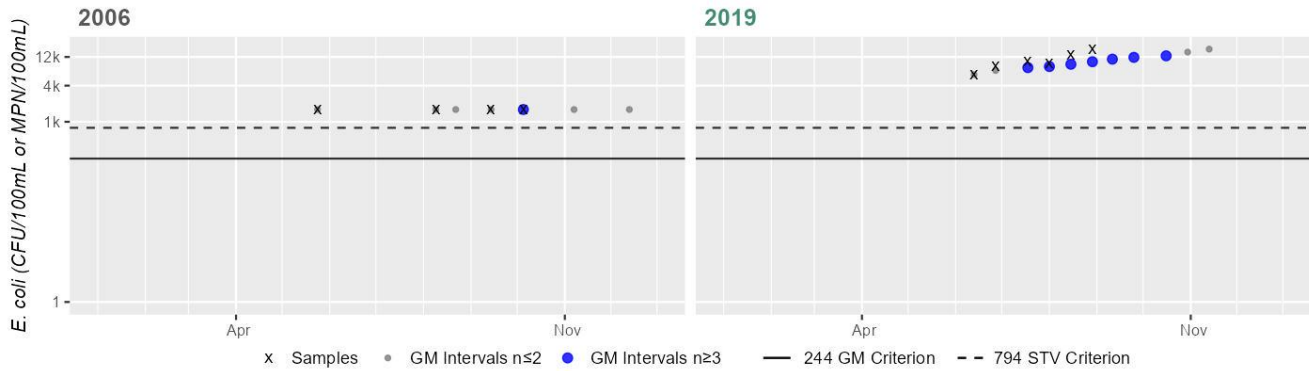
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1494	MassDEP	E. coli	05/24/06	10/05/06	4	1600	1600	1599
W1494	MassDEP	E. coli	06/13/19	08/29/19	6	6100	16200	9997
W2406	MassDEP	E. coli	05/23/13	09/18/13	5	862	8300	2979
W2428	MassDEP	E. coli	07/31/13	08/29/13	2	2360	2419	2389
W2429	MassDEP	E. coli	08/29/13	09/26/13	3	9800	12030	10723
W2429	MassDEP	E. coli	06/18/18	07/16/18	2	2419	5480	3641
W2430	MassDEP	E. coli	08/29/13	09/12/13	2	1190	7700	3027
W2430	MassDEP	E. coli	06/12/14	07/09/14	2	1410	24196	5840
W2921	MassDEP	E. coli	07/16/18	08/01/18	2	3080	9210	5326

Station MASSDEP_W1494 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	1600
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	4
%n>STV	100%

Variable*	Result
Samples	6
SeasGM	9997
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	6
%n>STV	100%

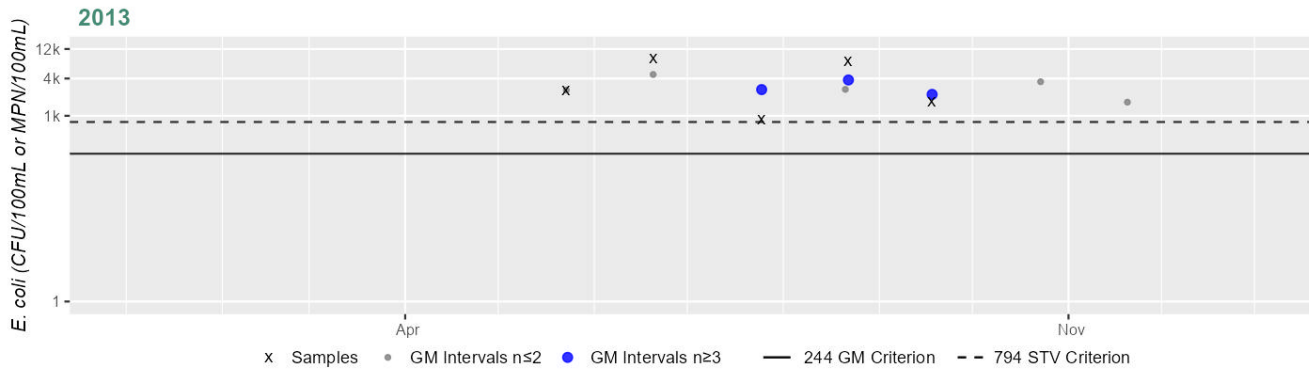
Cumulative %GMI Exceedance
Historic (1997-2010)
100%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2406 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



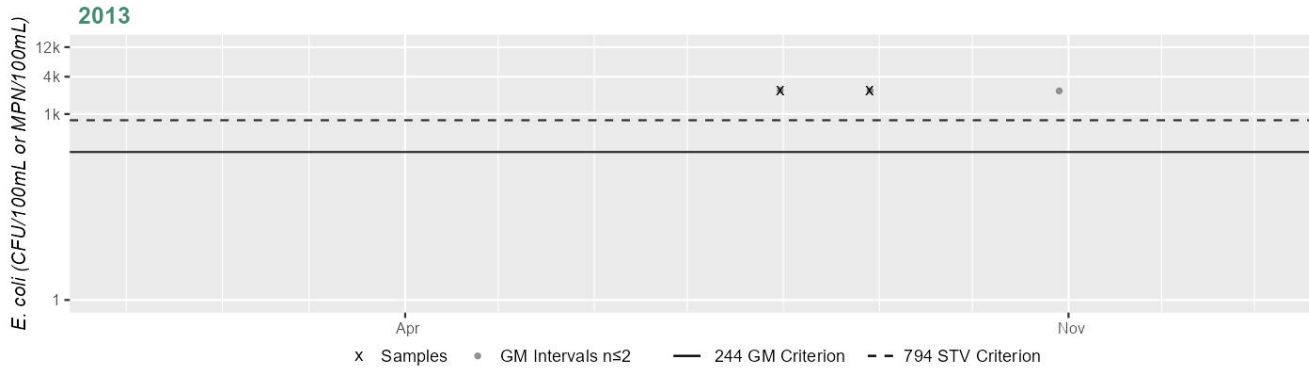
Variable*	Result
Samples	5
SeasGM	2979
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	5
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2428 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



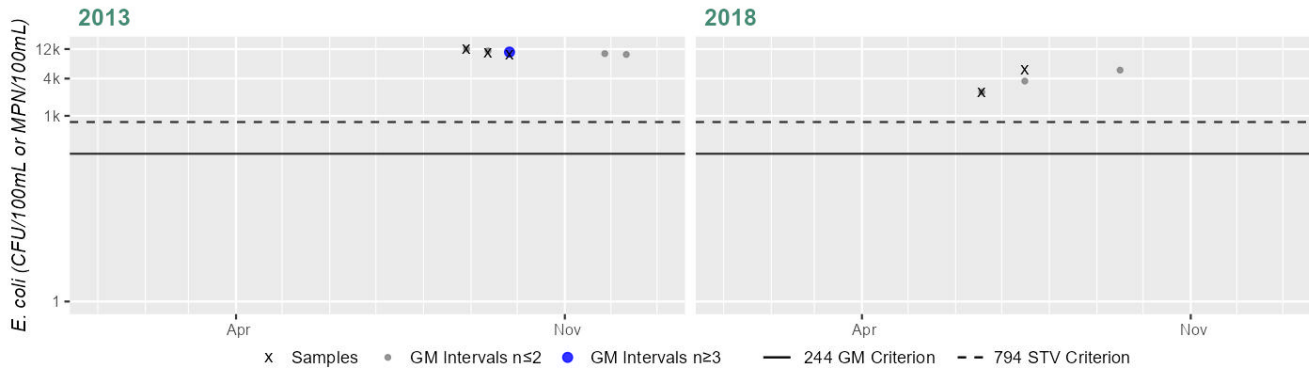
Variable*	Result
Samples	2
SeasGM	2389
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2429 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	3
SeasGM	10723
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	3
%n>STV	100%

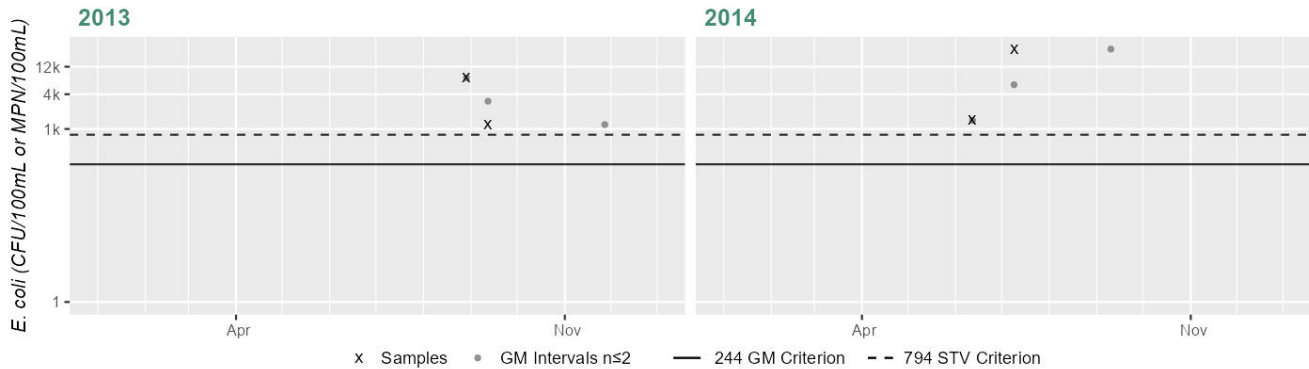
Variable*	Result
Samples	2
SeasGM	3641
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2430 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	3027
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

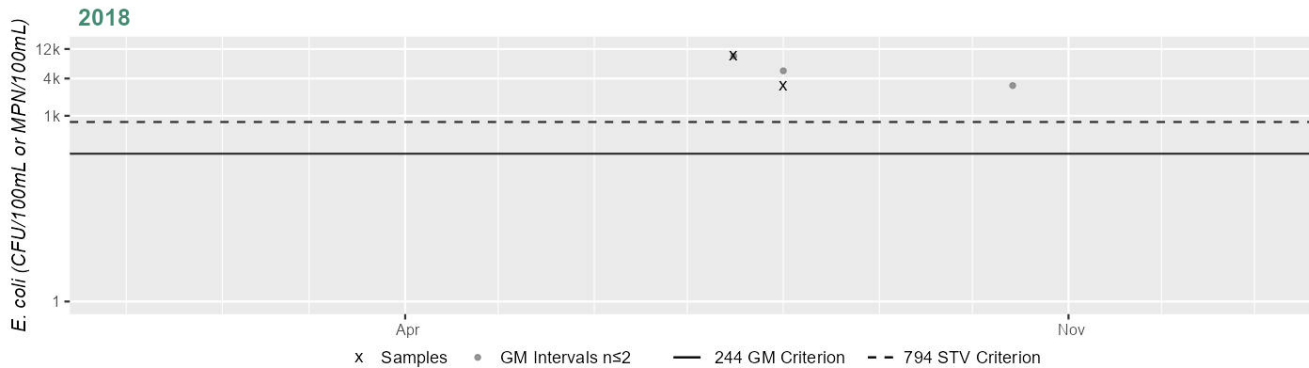
Variable*	Result
Samples	2
SeasGM	5840
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2921 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	5326
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

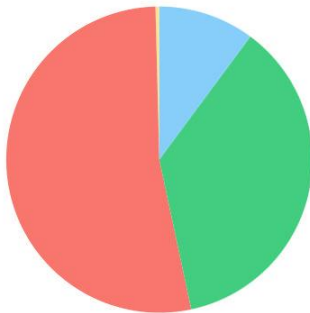
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Salisbury Plain River (MA62-06)

Location:	From the Brockton Advanced Water Reclamation Facility (AWRF) discharge (NPDES: MA0101010), Brockton to mouth at confluence with Beaver Brook forming headwaters Matfield River, East Bridgewater.
AU Type:	RIVER
AU Size:	2.3 MILES
Classification/Qualifier:	B: WWF

Salisbury Plain River (MA62-06)

Watershed Area: 21.27 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	21.27	5.45	5.90	1.35
Agriculture	0.4%	1.5%	0.1%	0.5%
Developed	53%	44.8%	34.8%	31.1%
Natural	36.5%	35.5%	43.1%	32.8%
Wetland	10.1%	18.2%	22%	35.6%
Impervious	32.9%	26.1%	21.9%	18%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Algae	--	Unchanged
5	5	Benthic Macroinvertebrates	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	Escherichia Coli (E. Coli)	40308	Unchanged
5	5	Fecal Coliform	40308	Unchanged
5	5	Odor	--	Unchanged
5	5	Phosphorus, Total	--	Unchanged
5	5	Turbidity	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Algae	Municipal Point Source Discharges (Y)	X	--	X	X	X
Benthic Macroinvertebrates	Municipal Point Source Discharges (Y)	X	--	--	--	--
Dissolved Oxygen	Municipal Point Source Discharges (Y)	X	--	--	--	--
Escherichia Coli (E. Coli)	Municipal Point Source Discharges (Y)	--	--	--	X	X
Fecal Coliform	Municipal Point Source Discharges (Y)	--	--	--	X	X
Odor	Municipal Point Source Discharges (Y)	--	--	X	X	X
Phosphorus, Total	Municipal Point Source Discharges (Y)	X	--	--	--	--
Turbidity	Municipal Point Source Discharges (Y)	--	--	X	X	X

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Salisbury Plain River (MA62-06) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics use for this Salisbury Plain River AU (MA62-06) continues to be assessed as Not Supporting with the Odor and Turbidity impairments being carried forward based on observations of effluent/chlorine odors and grey water color by MassDEP staff during summer 2019. Dense Filamentous Algae were observed at Matfield Street in May 2019, therefore the Algae impairment is also being carried forward. Since the Total Phosphorus impairment was redundantly duplicated across multiple uses for this waterbody, the Total Phosphorus impairment is being removed from the Aesthetics Use but will continue to be maintained under the Aquatic Life Use. MassDEP staff recorded aesthetics observations at one station in the downstream half of this Salisbury Plain River AU at Matfield Street opposite intersection with Michelles Way, East Bridgewater (W1495) during the summer of 2019 for selected monitoring (n=8). Field staff recorded effluent odor on six occasions, chlorine odor once, grey water color once and abundant trash on two occasions. In addition, MassDEP field staff did raise an aesthetics flag on three occasions at the station for a combination of these same reasons.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1495	MassDEP	Water Quality	Salisbury Plain River	[Matfield Street opposite intersection with Michelles Way, East Bridgewater]	42.037761	-70.984654

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W1495	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W1495 on Salisbury Plain River (MA62-06) during 8 site visits between May 2019 and Sep 2019. Field staff recorded the following objectionable conditions: an aesthetics impairment flag (n=3). Other objectionable conditions included chlorine or effluent odor (n=7). Field staff also noted grey water color (n=1), objectionable deposits (n=2), and abundant trash (n=2). These observations are indicative of an Aesthetics Use impairment.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W1495	2019	8	7	1

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1495	Salisbury Plain River	2019	Aesthetics Impaired?	No	5	8
W1495	Salisbury Plain River	2019	Aesthetics Impaired?	Yes	3	8
W1495	Salisbury Plain River	2019	Aquatic Plant Density, Overall	Moderate	2	8
W1495	Salisbury Plain River	2019	Aquatic Plant Density, Overall	None	3	8
W1495	Salisbury Plain River	2019	Aquatic Plant Density, Overall	Sparse	2	8
W1495	Salisbury Plain River	2019	Aquatic Plant Density, Overall	Unobservable	1	8
W1495	Salisbury Plain River	2019	Color	Greyish	1	8
W1495	Salisbury Plain River	2019	Color	Light Yellow/Tan	2	8
W1495	Salisbury Plain River	2019	Color	None	5	8
W1495	Salisbury Plain River	2019	Objectionable Deposits	No	6	8
W1495	Salisbury Plain River	2019	Objectionable Deposits	Yes	2	8
W1495	Salisbury Plain River	2019	Odor	Chlorine	1	8
W1495	Salisbury Plain River	2019	Odor	Effluent (Treated)	6	8
W1495	Salisbury Plain River	2019	Odor	None	1	8
W1495	Salisbury Plain River	2019	Periphyton Density, Filamentous	Dense	1	8
W1495	Salisbury Plain River	2019	Periphyton Density, Filamentous	Moderate	1	8
W1495	Salisbury Plain River	2019	Periphyton Density, Filamentous	None	3	8
W1495	Salisbury Plain River	2019	Periphyton Density, Filamentous	Sparse	2	8
W1495	Salisbury Plain River	2019	Periphyton Density, Filamentous	Unobservable	1	8
W1495	Salisbury Plain River	2019	Periphyton Density, Film	None	6	8
W1495	Salisbury Plain River	2019	Periphyton Density, Film	Unobservable	2	8
W1495	Salisbury Plain River	2019	Scum	No	7	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1495	Salisbury Plain River	2019	Scum	Yes	1	8
W1495	Salisbury Plain River	2019	Turbidity	None	3	8
W1495	Salisbury Plain River	2019	Turbidity	Slightly Turbid	5	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for the Salisbury Plain River (MA62-06) continues to be assessed as Not Supporting. The prior <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being carried forward based on bacteria data exceeding thresholds at one station in 2019. The prior Fecal Coliform impairment is being carried forward and the prior Algae, Odor, and Turbidity impairments (from the Aesthetics Use) are being carried forward. Since the Total Phosphorus impairment is being removed from the Aesthetics Use this cycle, this impairment is also being removed from the Primary Contact Recreation Use. MassDEP staff collected <i>E. coli</i> bacteria samples three-quarters of the way down this Salisbury Plain River AU at W1495 [Matfield St opposite intersection with Michelles Way, East Bridgewater] from Jun-Aug 2019 (n=6). Analysis of the single year limited frequency dataset from this station indicated 100% of intervals had GMs >126 CFU/100ml, 6 samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 2,088 CFU/100ml. The bacteria data from W1495 are indicative of an <i>E. coli</i> impairment. Surface water sampling was conducted by the USGS downstream of the Brockton WWTF discharge on the Salisbury Plain River at station USGS_01106444 on three dates during September to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1495	MassDEP	Water Quality	Salisbury Plain River	[Matfield Street opposite intersection with Michelles Way, East Bridgewater]	42.037761	-70.984654
USGS-01106444	USGS Massachusetts Water Science Center	Water Quality	Salisbury Plain River	SALISBURY PLAIN R NR MATFIELD ST E BRIDGEWATER, MA; downstream of Brockton WWTF	42.038000	-70.984000

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (30-day Interval Analysis)

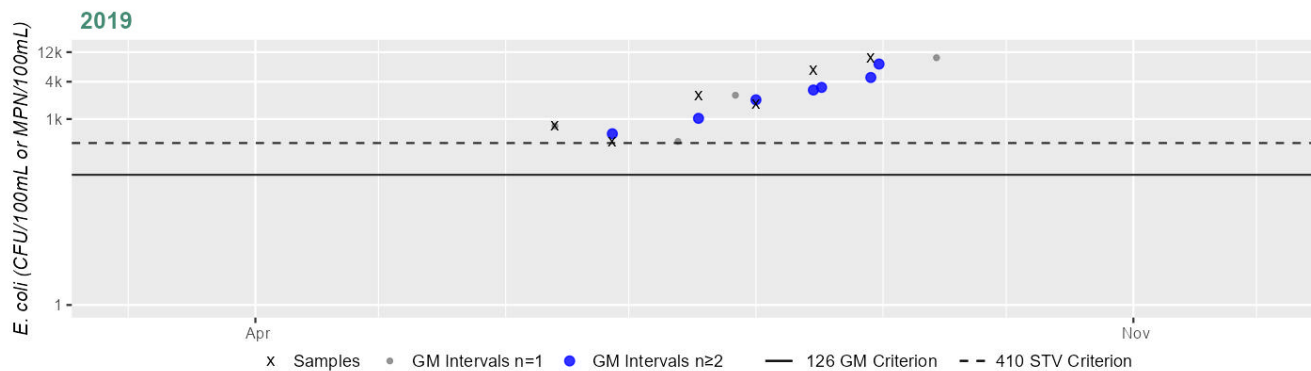
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1495	MassDEP	E. coli	06/13/19	08/29/19	6	435	9750	2088

Station MASSDEP_W1495 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	2088
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	6
%n>STV	100%

Cumulative %GMI Exceedance

Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Other Indicators

Summary Statement(s) for USGS 2020 PFAS in Water Column Data (Savoie and Argue 2023) (MassDEP Undated 3)

Summary

Surface water sampling was conducted by the USGS downstream of the Brockton WWTF discharge on the Salisbury Plain River (MA62-06) at station USGS_01106444 on three dates during September to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).

USGS 2020 PFAS in Water Column Data Collected Upstream and Downstream of Wastewater Treatment Facilities (Savoie and Argue 2023) (MassDEP Undated 3)

[The Σ PFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here). * indicates the Σ PFAS6 concentration is qualified since data for one or more individual PFAS6 analytes were qualified. A concentration with a "<" was less than the reporting detection limit (RDL) and the RDL was used to calculate the Σ PFAS6. E = qualifier "value is estimated"; V = qualifier "value affected by field or laboratory contamination"]

Station Code	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	Σ PFAS6 ng/L
USGS-01106444	9/1/2020	9.28	E7.46	E1.16	2.41	6	5.25	23.8*
USGS-01106444	9/24/2020	9.28	E6.87	E1.1	2.35	5.58	5.02	23.3*
USGS-01106444	10/21/2020	E10.1	E11.2	V1.08	9.67	4.85	4.87	35.9*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for the Salisbury Plain River (MA62-06) continues to be assessed as Not Supporting. The prior Algae, Odor, and Turbidity impairments (from the Aesthetics Use) are being carried forward. An <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being added based on a re-evaluation of bacteria data exceeding thresholds at one station in 2019. Since the Total Phosphorus impairment is being removed from the Aesthetics Use this cycle, this impairment is also being removed from the Secondary Contact Recreation Use. MassDEP staff collected <i>E. coli</i> bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) three-quarters of the way down this Salisbury Plain River AU at W1495 [Matfield St opposite intersection with Michelles Way, East Bridgewater] from May-Oct 2006 (historic n=4) and Jun-Aug 2019 (current n=6). Since data from the current IR window is indicative of poor water quality, only the analysis for data in the current IR window will be summarized here. Analysis of the single year limited frequency <i>E. coli</i> dataset from W1495 indicated 100% of intervals had GMs >244 CFU/100ml, 4 samples exceeded the 794 CFU/100ml STV, and the overall GM was 2,088 CFU/100ml. The bacteria data from W1495 are indicative of an <i>E. coli</i> impairment.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1495	MassDEP	Water Quality	Salisbury Plain River	[Matfield Street opposite intersection with Michelles Way, East Bridgewater]	42.037761	-70.984654

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

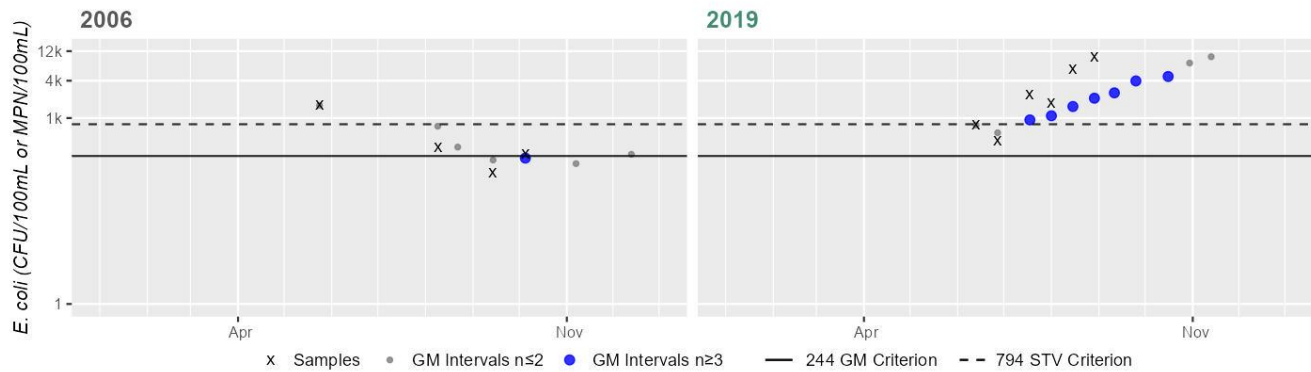
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1495	MassDEP	E. coli	05/24/06	10/05/06	4	130	1600	368
W1495	MassDEP	E. coli	06/13/19	08/29/19	6	435	9750	2088

Station MASSDEP_W1495 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	368
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	25%

Variable*	Result
Samples	6
SeasGM	2088
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	4
%n>STV	66%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Sassaquin Pond (MA62232)

Location:	New Bedford (formerly reported as 2002 segment: Sassaquin Pond MA95129).
AU Type:	FRESHWATER LAKE
AU Size:	36 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Curly-leaf Pondweed*)	--	Unchanged
5	5	Algae	--	Unchanged
5	5	Fecal Coliform	--	Unchanged
5	5	Harmful Algal Blooms	--	Unchanged
5	5	Odor	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Curly-leaf Pondweed*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Algae	Source Unknown (N)	--	--	X	X	X
Fecal Coliform	Source Unknown (N)	--	--	--	X	--
Harmful Algal Blooms	Source Unknown (N)	--	--	X	X	X
Odor	Source Unknown (N)	--	--	X	X	X

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
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Not Assessed	No
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2024/26 Use Attainment Summary

Fish toxics sampling has not been conducted, so the Fish Consumption Use for Sassaquin Pond (MA62232) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Sassaquin Pond (MA62232) continues to be assessed as Not Supporting with the Harmful Algal Blooms and Algae impairments being carried forward based on C-HAB postings reported to MDPH in 2020 and 2021. There is Insufficient information to delist the historic impairment of “odor” which is retained. MassDEP staff recorded aesthetics observations at two stations in New Bedford for this Sassaquin Pond AU during the summer of 2011 for the MassDEP Bacteria Source Tracking (BST) project; at the deep hole (W2293, n=2) and in the cove on the western side of pond (W2292, n=1). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded for any of these surveys, though field staff noted green water color on one occasion, which is reflective of the existing impairment for this AU. During the period 2015 through 2022, C-HAB postings for Sassaquin Pond were reported to MDPH based on visual observations for 133 days in 2020 and 28 days in 2021 and no blooms were reported in other years. Since extended blooms (>20 days in duration) were reported in a recent year(s), this is reflective of the existing Harmful Algal Blooms impairment for Sassaquin Pond.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2292	MassDEP	Water Quality	Sassaquin Pond	[cove on western side of pond, New Bedford]	41.734366	-70.951247
W2293	MassDEP	Water Quality	Sassaquin Pond	[deep hole, New Bedford]	41.735321	-70.948919

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2292	2011	1	Aesthetic observations were made by MassDEP field sampling crews at Station W2292 on Sassaquin Pond (MA62232) during 1 site visit on Jun 15, 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2293	2011	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2293 on Sassaquin Pond (MA62232) during 2 site visits between Jul 2011 and Aug 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted green water color (n=1). However, aesthetic observations are limited (n<3).

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2292	Sassaquin Pond	2011	Aquatic Plant Density, Overall	Moderate	1	1
W2292	Sassaquin Pond	2011	Aquatic Plant Density, Whole Lake	Sparse	1	1
W2292	Sassaquin Pond	2011	Color	None	1	1
W2292	Sassaquin Pond	2011	Duckweed Density, Whole Lake	Sparse	1	1
W2292	Sassaquin Pond	2011	Objectionable Deposits	Yes	1	1
W2292	Sassaquin Pond	2011	Odor	None	1	1
W2292	Sassaquin Pond	2011	Scum	Yes	1	1
W2292	Sassaquin Pond	2011	Turbidity	Slightly Turbid	1	1
W2293	Sassaquin Pond	2011	Aquatic Plant Density, Overall	None	1	2
W2293	Sassaquin Pond	2011	Aquatic Plant Density, Overall	Sparse	1	2
W2293	Sassaquin Pond	2011	Aquatic Plant Density, Whole Lake	Sparse	2	2
W2293	Sassaquin Pond	2011	Color	Greenish	1	2
W2293	Sassaquin Pond	2011	Color	Light Yellow/Tan	1	2
W2293	Sassaquin Pond	2011	Duckweed Density, Whole Lake	None	2	2
W2293	Sassaquin Pond	2011	Objectionable Deposits	No	1	2
W2293	Sassaquin Pond	2011	Objectionable Deposits	Yes	1	2
W2293	Sassaquin Pond	2011	Odor	None	2	2
W2293	Sassaquin Pond	2011	Scum	Yes	2	2
W2293	Sassaquin Pond	2011	Turbidity	Moderately Turbid	2	2

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement
During the period 2015 through 2022, C-HAB postings for Sassaquin Pond (MA62232) were reported to MDPH based on visual observations for 133 days in 2020 and 28 days in 2021. No blooms were reported in other years. Since blooms were reported in recent years, a prior Harmful Algal Bloom impairment is being carried forward and the Aesthetics Use and Primary/Secondary Contact Recreational Uses continue to be assessed as Not Supporting.

Cyanobacteria Harmful Algal Bloom (C-HAB) Data (2015-2022) Provided by MDPH (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

Waterbody	Town	Posting Days 2015	Posting Days 2016	Posting Days 2017	Posting Days 2018	Posting Days 2019	Posting Days 2020	Posting Days 2021	Posting Days 2022
Sassaquin Pond	New Bedford						133	28	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Sassaquin Pond (MA62232) continues to be assessed as Not Supporting. The prior Harmful Algal Blooms impairment is being carried forward based on C-HAB postings reported to MDPH in 2020 and 2021. The prior Fecal Coliform impairment is being carried forward and the prior Algae and Odor impairments (from the Aesthetics Use) are also being carried forward. MassDEP staff collected <i>E. coli</i> bacteria samples in Sassaquin Pond at W2292 [cove on western side of pond, New Bedford] from Jun 2011 (n=1). The available <i>E. coli</i> data at W2292 are too limited to assess the Primary Contact Recreation Use according to the 2024 CALM. MassDEP also collected Secchi depth data in 2011 at W2293 [deep hole, New Bedford] and station W2292. Secchi depth data at W2293 (station depth=5.2 m) indicated water clarity meeting the 1.2m (4ft) threshold (n=2, 2.6-4m) and while Secchi depth data from W2292 also met the threshold (n=1, 4.7m), these data were too limited (n <3) to evaluate water clarity. During the period 2015 through 2022, C-HAB postings for Sassaquin Pond were reported to MDPH based on visual observations for 133 days in 2020 and 28 days in 2021 and no blooms were reported in other years. Since extended blooms (>20 days in duration) were reported in a recent year(s), this is reflective of the existing Harmful Algal Blooms impairment for Sassaquin Pond.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2292	MassDEP	Water Quality	Sassaquin Pond	[cove on western side of pond, New Bedford]	41.734366	-70.951247

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

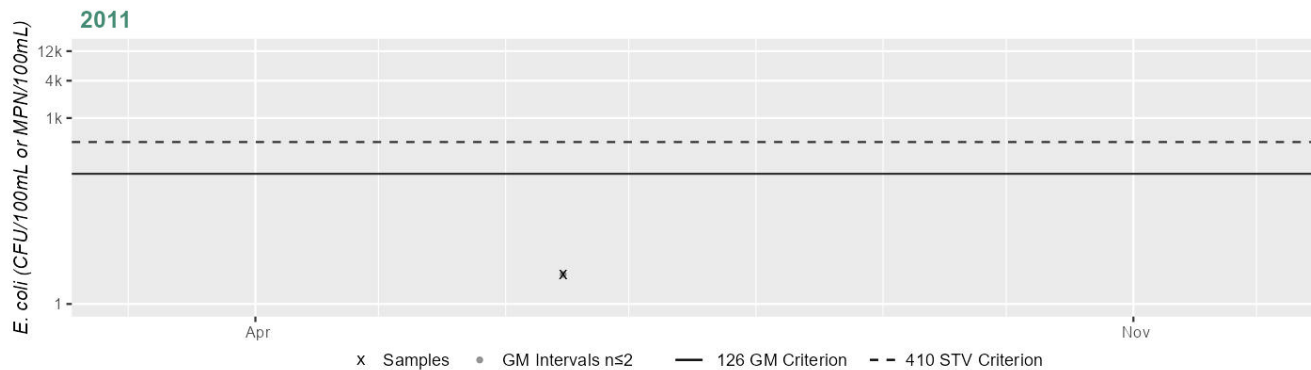
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2292	MassDEP	E. coli	06/15/11	06/15/11	1	3	3	3

Station MASSDEP_W2292 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	3
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data

(MassDEP Undated 9) (MassDEP Undated 5)

Data Year(s)	Summary
2011	In Sassaquin Pond (MA62232) in 2011, MassDEP collected Secchi data at W2292 [cove on western side of pond, New Bedford] and W2293 [41.735321, -70.948919, deep hole, New Bedford] (2011). At station W2292 (station depth=not recorded) the Secchi depth (n=1) was measured to be 4.7 m on Jun 15, 2011 indicating water clarity meeting the 1.2 m (4 ft) threshold. At station W2293 (station depth=5.2 m) the Secchi depth measurements ranged from 2.6-4 m (n=2) indicating water clarity meeting the 1.2 m (4 ft) threshold.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for Sassaquin Pond (MA62232) continues to be assessed as Not Supporting. The prior Harmful Algal Blooms impairment is being carried forward based on C-HAB postings reported to MDPH in 2020 and 2021. The prior Algae and Odor impairments (from the Aesthetics Use) are being carried forward. MassDEP staff collected <i>E. coli</i> bacteria samples in Sassaquin Pond at W2292 [cove on western side of pond, New Bedford] in Jun 2011 (n=1). The available <i>E. coli</i> data at W2292 are too limited to assess the Secondary Contact Recreation Use according to the 2024 CALM. During the period 2015 through 2022, C-HAB postings for Sassaquin Pond were reported to MDPH based on visual observations for 133 days in 2020 and 28 days in 2021. No blooms were reported in other years. Since extended blooms (>20 days in duration) were reported in a recent year(s), this is reflective of the existing Harmful Algal Blooms impairment for this AU.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2292	MassDEP	Water Quality	Sassaquin Pond	[cove on western side of pond, New Bedford]	41.734366	-70.951247

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

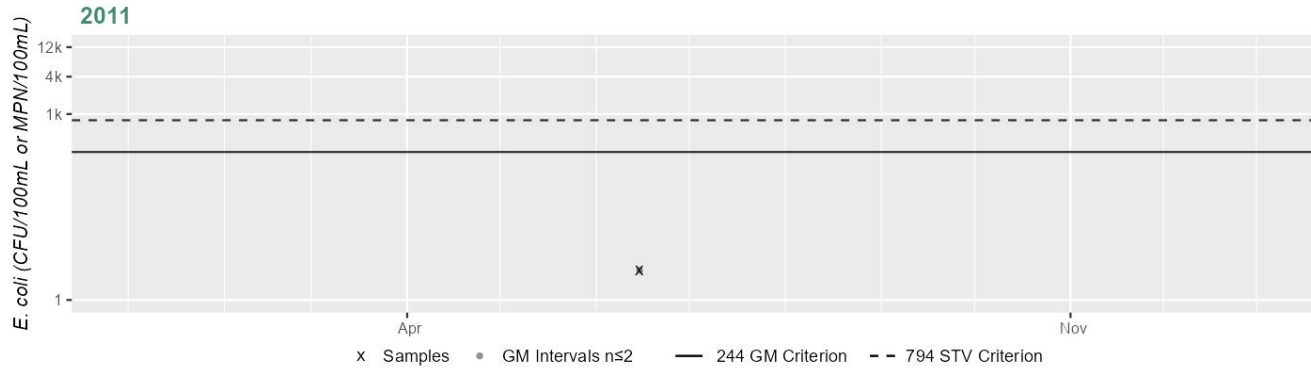
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2292	MassDEP	E. coli	06/15/11	06/15/11	1	3	3	3

Station MASSDEP_W2292 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	3
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

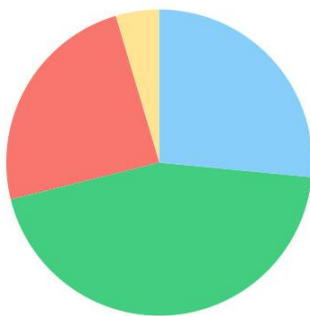
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Satucket River (MA62-10)

Location:	Headwaters, outlet Robbins Pond, East Bridgewater to mouth at confluence with the Matfield River, East Bridgewater.
AU Type:	RIVER
AU Size:	5.6 MILES
Classification/Qualifier:	B

Satucket River (MA62-10)

Watershed Area: 35.04 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	35.04	7.67	12.82	2.47
Agriculture	4.6%	4.6%	9.8%	6.4%
Developed	24.3%	24%	14.1%	14.9%
Natural	44.6%	45.6%	44.1%	49.9%
Wetland	26.5%	25.8%	32%	28.8%
Impervious	11.1%	9.2%	6.2%	5.5%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Non-Native Aquatic Plants*)	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	Escherichia Coli (E. Coli)	--	Added
5	5	Lead	--	Unchanged
5	5	Temperature	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--
Lead	Source Unknown (N)	X	--	--	--	--
Temperature	Dam or Impoundment (N)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Satucket River (MA62-10) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Satucket River (MA62-10) continues to be assessed as Fully Supporting due to the lack of objectionable conditions observed by DEP field crews during the summers of 2013 and 2019. MassDEP staff recorded aesthetics observations at two stations in East Bridgewater for Satucket River; in the upstream half of the AU ~1840 ft downstream/west from Washington St. (W2375), as part of the MAP2 wadeable streams monitoring project during the summer of 2013 (n=8) and in the downstream half of the AU at Plymouth St (Rt. 106) bridge during the summer of 2019 for selected monitoring (n=8). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded at any time.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1499	MassDEP	Water Quality	Satucket River	[Plymouth Street (Route 106) bridge, East Bridgewater]	42.021602	-70.950533
W2375	MassDEP	Water Quality	Satucket River	[approximately 1840 feet downstream/west from Washington Street, East Bridgewater]	42.018472	-70.922526

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W1499	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W1499 on Satucket River (MA62-10) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2375	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2375 on Satucket River (MA62-10) during 8 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W1499	2019	8	8	0
W2375	2013	8	3	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1499	Satucket River	2019	Aesthetics Impaired?	No	8	8
W1499	Satucket River	2019	Aquatic Plant Density, Overall	None	2	8
W1499	Satucket River	2019	Aquatic Plant Density, Overall	Sparse	6	8
W1499	Satucket River	2019	Color	Light Yellow/Tan	7	8
W1499	Satucket River	2019	Color	Reddish	1	8
W1499	Satucket River	2019	Objectionable Deposits	No	8	8
W1499	Satucket River	2019	Odor	None	8	8
W1499	Satucket River	2019	Periphyton Density, Filamentous	Moderate	1	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1499	Satucket River	2019	Periphyton Density, Filamentous	None	2	8
W1499	Satucket River	2019	Periphyton Density, Filamentous	Sparse	5	8
W1499	Satucket River	2019	Periphyton Density, Film	None	6	8
W1499	Satucket River	2019	Periphyton Density, Film	Sparse	2	8
W1499	Satucket River	2019	Scum	No	7	8
W1499	Satucket River	2019	Scum	Yes	1	8
W1499	Satucket River	2019	Turbidity	None	7	8
W1499	Satucket River	2019	Turbidity	Slightly Turbid	1	8
W2375	Satucket River	2013	Aesthetics Impaired?	No	6	8
W2375	Satucket River	2013	Aesthetics Impaired?	NR	2	8
W2375	Satucket River	2013	Aquatic Plant Density, Overall	None	3	8
W2375	Satucket River	2013	Aquatic Plant Density, Overall	Unobservable	5	8
W2375	Satucket River	2013	Color	Light Yellow/Tan	7	8
W2375	Satucket River	2013	Color	NR	1	8
W2375	Satucket River	2013	Objectionable Deposits	No	7	8
W2375	Satucket River	2013	Objectionable Deposits	Yes	1	8
W2375	Satucket River	2013	Odor	Musty (Basement)	1	8
W2375	Satucket River	2013	Odor	None	7	8
W2375	Satucket River	2013	Periphyton Density, Filamentous	None	2	8
W2375	Satucket River	2013	Periphyton Density, Filamentous	Sparse	1	8
W2375	Satucket River	2013	Periphyton Density, Filamentous	Unobservable	5	8
W2375	Satucket River	2013	Periphyton Density, Film	None	3	8
W2375	Satucket River	2013	Periphyton Density, Film	Unobservable	5	8
W2375	Satucket River	2013	Scum	No	7	8
W2375	Satucket River	2013	Scum	Yes	1	8
W2375	Satucket River	2013	Turbidity	Moderately Turbid	2	8
W2375	Satucket River	2013	Turbidity	None	3	8
W2375	Satucket River	2013	Turbidity	Slightly Turbid	3	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Satucket River (MA62-10) is assessed as Not Supporting. An *Escherichia coli* (*E. coli*) impairment is being added based on bacteria data collected in 2019 at 1 station.

MassDEP staff collected *E. coli* bacteria samples in the Satucket River from 2013-2019 at 2 stations in East Bridgewater. Samples were collected from the following stations/sample years from upstream to downstream: a third of the way down the AU at W2375 [~1840 ft downstream/west from Washington St] from May-Sep 2013 (n=5) and three-quarters of the way down at W1499 [Plymouth St (Rt. 106) bridge] from Jun-Aug 2019 (n=6). Analysis of the single year limited frequency *E. coli* dataset from W2375 indicated 33% of intervals had GMs >126 CFU/100ml and the seasonal GM was 132 CFU/100ml, although only 1 sample exceeded the 410 CFU/100ml STV (470 CFU). However, analysis of the single year limited frequency *E. coli* dataset from W1499 indicated 85% of intervals had GMs >126 CFU/100ml with a seasonal GM of 154 CFU/100ml. While *E. coli* data from W2375 were indicative of generally good water quality conditions, data from W1499 are indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1499	MassDEP	Water Quality	Satucket River	[Plymouth Street (Route 106) bridge, East Bridgewater]	42.021602	-70.950533
W2375	MassDEP	Water Quality	Satucket River	[approximately 1840 feet downstream/west from Washington Street, East Bridgewater]	42.018472	-70.922526

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

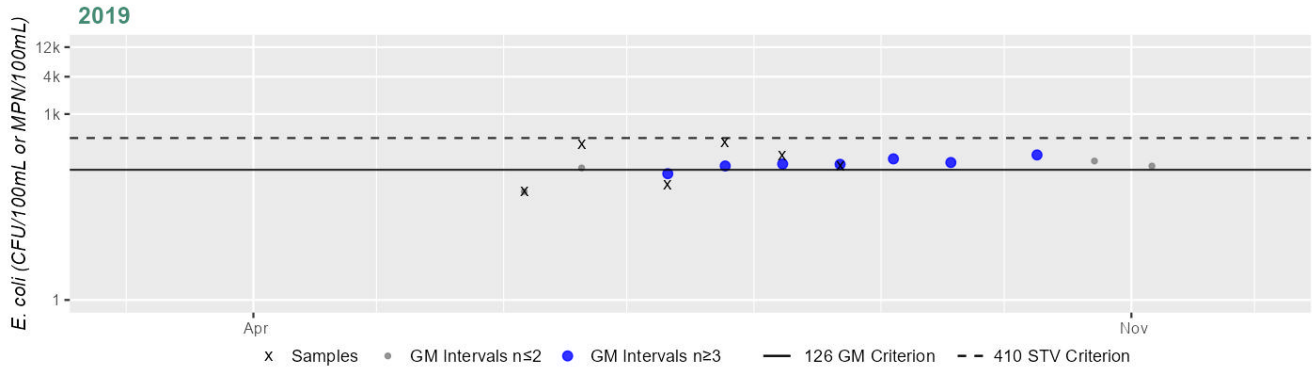
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1499	MassDEP	E. coli	06/06/19	08/22/19	6	56	344	154
W2375	MassDEP	E. coli	05/23/13	09/18/13	5	52	470	132

Station MASSDEP_W1499 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



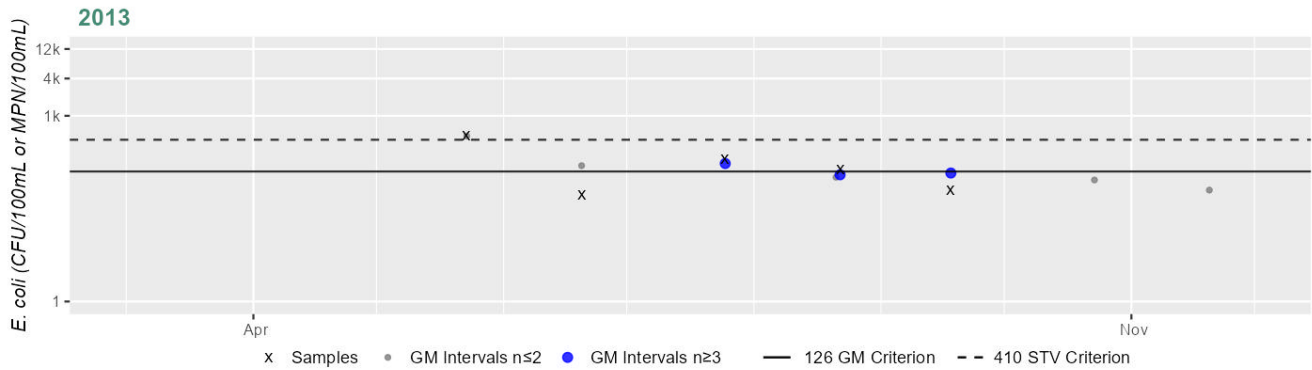
Variable*	Result
Samples	6
SeasGM	154
#GMI	7
#GMI Ex	6
%GMI Ex	85%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
85%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2375 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	132
#GMI	3
#GMI Ex	1
%GMI Ex	33%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance
Current (2011-2022)
33%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for the Satucket River (MA62-10) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2013 & 2019 at 2 stations. MassDEP staff collected <i>E. coli</i> bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the Satucket River from 2001-2019 at 5 stations in East Bridgewater. Samples were collected from the following stations/sample years from upstream to downstream: the upstream end of the AU at W0813 [outlet Robbins Pond, Pond St] from Jul-Sep 2001 (n=2), a quarter of the way down at W0815 [Washington St] from Jul-Sep 2001 (n=2), a third of the way down at W2375 [~1840 ft downstream/west from Washington St] from May-Sep 2013 (n=5), halfway down at W0814 [Bridge St] from Jul-Sep 2001 (n=2) and three-quarters of the way down at W1499 [Plymouth St (Rt. 106) bridge] from May-Oct 2006 (historic n=4) and Jun-Aug 2019 (current n=6). Analysis of the single year limited frequency <i>E. coli</i> datasets (in the current IR window) from W2375 and W1499 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM's were 132 & 154 CFU/100ml respectively. While most of the data from the historic IR window was insufficient to assess the use there were no STV exceedances and the <i>E. coli</i> data from W2375 and W1499 were indicative of good water quality conditions.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0813	MassDEP	Water Quality	Satucket River	[outlet Robbins Pond, Pond Street, East Bridgewater]	42.009019	-70.907653
W0814	MassDEP	Water Quality	Satucket River	[Bridge Street, East Bridgewater]	42.022528	-70.931848
W0815	MassDEP	Water Quality	Satucket River	[Washington Street, East Bridgewater]	42.017065	-70.917848
W1499	MassDEP	Water Quality	Satucket River	[Plymouth Street (Route 106) bridge, East Bridgewater]	42.021602	-70.950533
W2375	MassDEP	Water Quality	Satucket River	[approximately 1840 feet downstream/west from Washington Street, East Bridgewater]	42.018472	-70.922526

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

(MassDEP Undated 9) (MassDEP Undated 4)

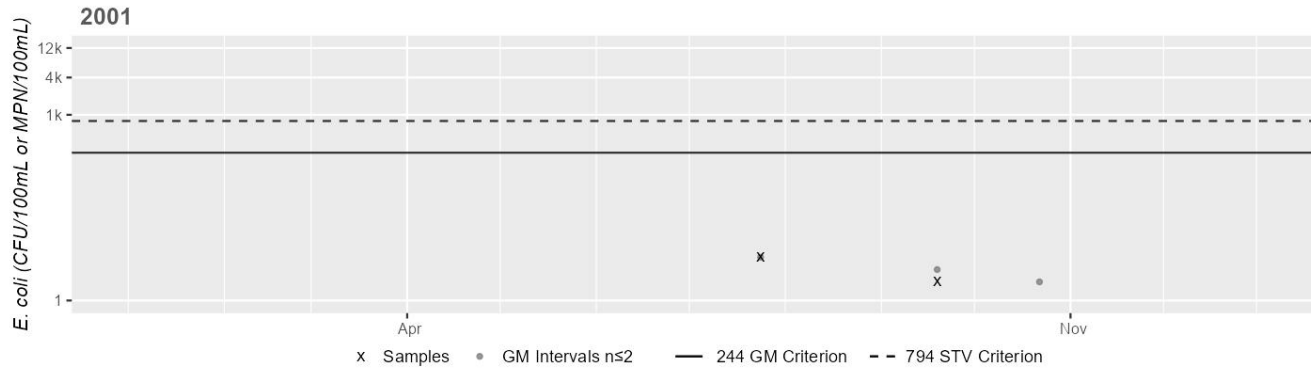
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0813	MassDEP	<i>E. coli</i>	07/24/01	09/19/01	2	2	5	3
W0814	MassDEP	<i>E. coli</i>	07/24/01	09/19/01	2	5	65	18

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0815	MassDEP	E. coli	07/24/01	09/19/01	2	24	40	30
W1499	MassDEP	E. coli	05/24/06	10/05/06	4	10	150	46
W1499	MassDEP	E. coli	06/06/19	08/22/19	6	56	344	154
W2375	MassDEP	E. coli	05/23/13	09/18/13	5	52	470	132

Station MASSDEP_W0813 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



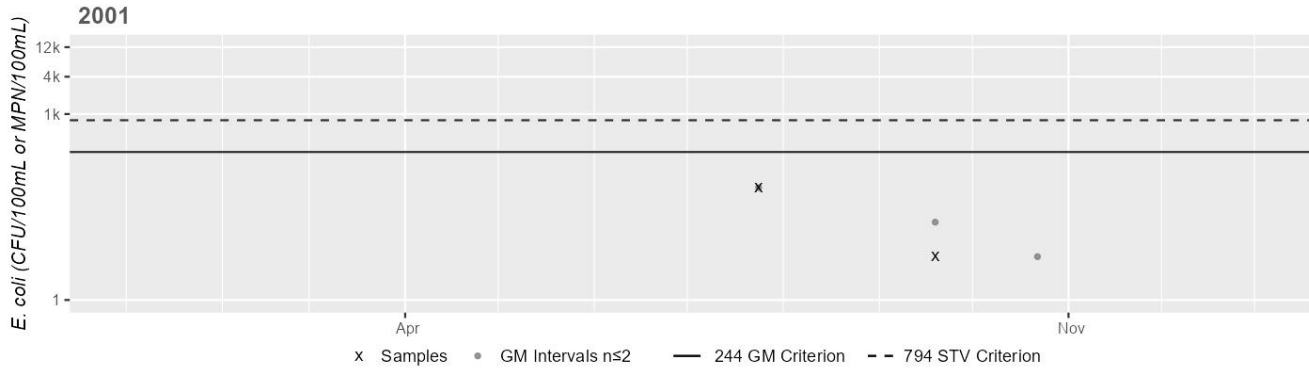
Variable*	Result
Samples	2
SeasGM	3
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W0814 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



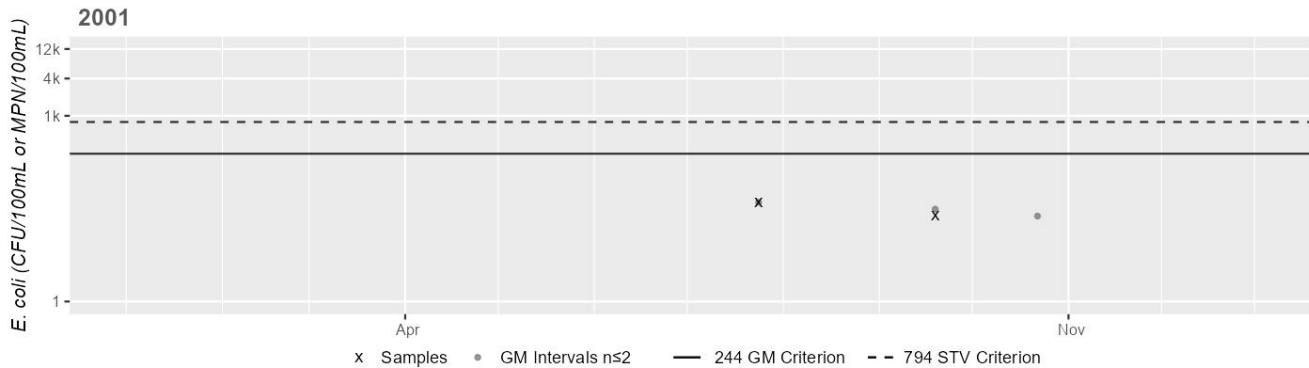
Variable*	Result
Samples	2
SeasGM	18
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W0815 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



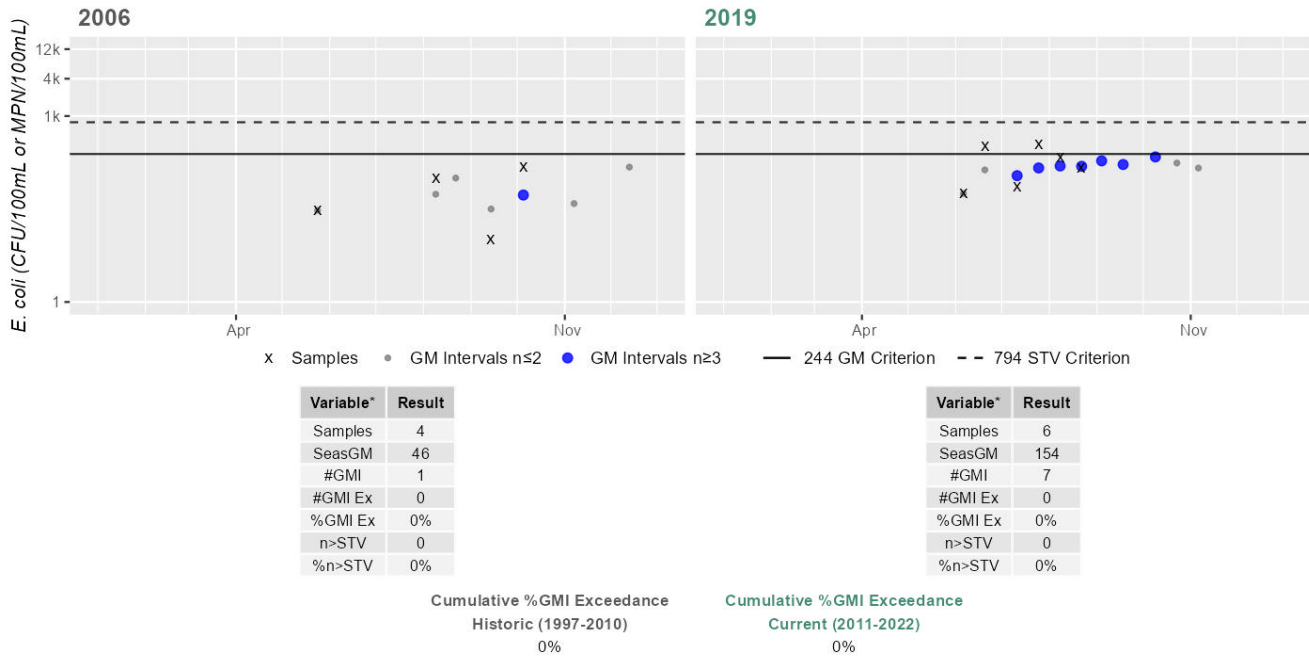
Variable*	Result
Samples	2
SeasGM	30
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1499 - Escherichia coli

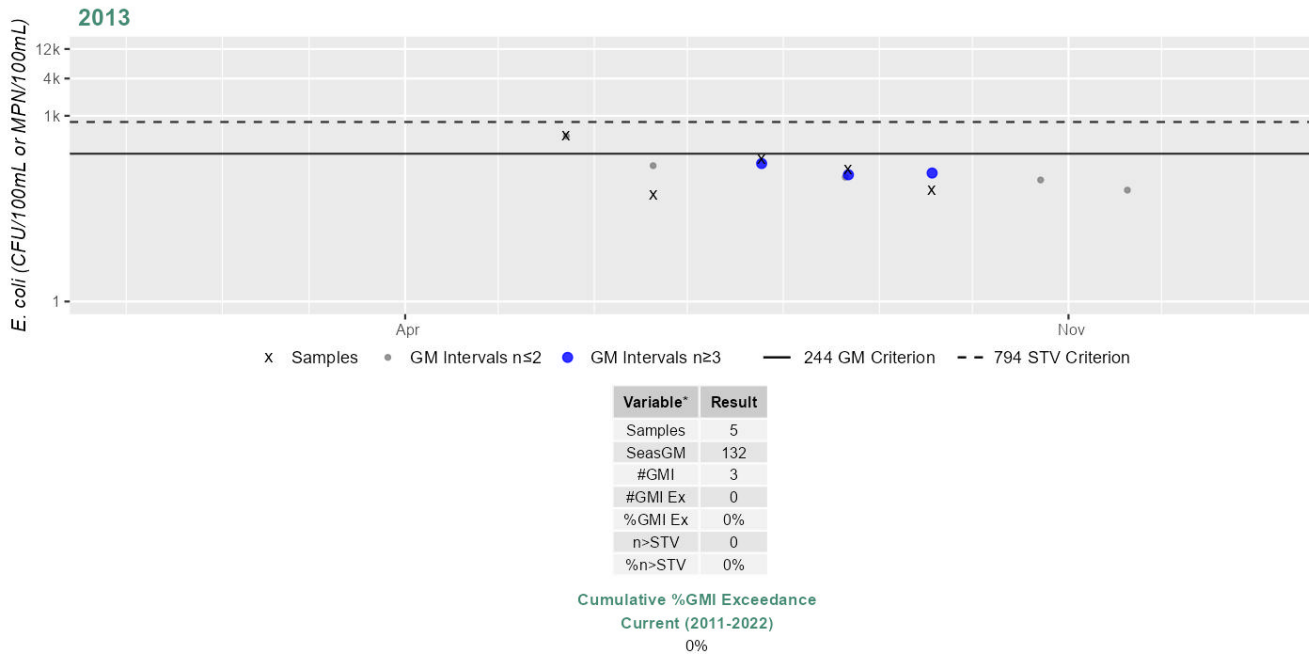
Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2375 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Savery Pond (MA62167)

Location:	Middleborough.
AU Type:	FRESHWATER LAKE
AU Size:	24 ACRES
Classification/Qualifier:	B

No usable data were available for Savery Pond (MA62167) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fanwort*)	--	Unchanged

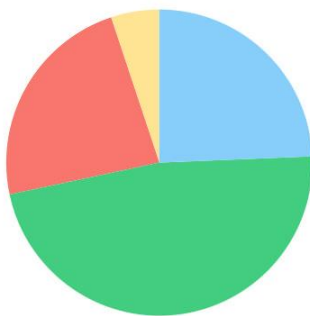
Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Sawmill Brook (MA62-36)

Location:	Headwaters, outlet Ice Pond, Bridgewater to mouth at confluence with the Taunton River, Bridgewater.
AU Type:	RIVER
AU Size:	1.9 MILES
Classification/Qualifier:	B: WWF

Sawmill Brook (MA62-36)

Watershed Area: 3.48 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	3.48	3.48	1.39	1.39
Agriculture	5.1%	5.1%	2.8%	2.8%
Developed	23.2%	23.2%	10.5%	10.5%
Natural	47.3%	47.3%	45.7%	45.7%
Wetland	24.4%	24.4%	41%	41%
Impervious	10.8%	10.8%	4.4%	4.4%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	5	Escherichia Coli (E. Coli)	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
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Not Assessed	No
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2024/26 Use Attainment Summary

Fish toxics sampling has not been conducted, so the Fish Consumption Use for Sawmill Brook (MA62-36) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Sawmill Brook (MA62-36) is assessed as Fully Supporting based on the general lack of objectionable conditions noted by MassDEP staff during the summer of 2019. MassDEP staff recorded aesthetics observations at one station halfway down Sawmill Brook at Bedford Street, Bridgewater (W2836) for selected monitoring during the summer of 2019 (n=8). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted moderate-high turbidity on four occasions and twice noted light to moderate trash.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2836	MassDEP	Water Quality	Sawmill Brook	[Bedford Street, (Route 18, 28), Bridgewater]	41.948816	-70.968270

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2836	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2836 on Sawmill Brook (MA62-36) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted moderate turbidity (n=3), high turbidity (n=1), and objectionable deposits (n=2).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2836	2019	8	2	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2836	Sawmill Brook	2019	Aesthetics Impaired?	No	8	8
W2836	Sawmill Brook	2019	Aquatic Plant Density, Overall	None	5	8
W2836	Sawmill Brook	2019	Aquatic Plant Density, Overall	Unobservable	3	8
W2836	Sawmill Brook	2019	Color	Light Yellow/Tan	8	8
W2836	Sawmill Brook	2019	Objectionable Deposits	No	5	8
W2836	Sawmill Brook	2019	Objectionable Deposits	Unobservable	1	8
W2836	Sawmill Brook	2019	Objectionable Deposits	Yes	2	8
W2836	Sawmill Brook	2019	Odor	None	8	8
W2836	Sawmill Brook	2019	Periphyton Density, Filamentous	None	2	8
W2836	Sawmill Brook	2019	Periphyton Density, Filamentous	Unobservable	6	8
W2836	Sawmill Brook	2019	Periphyton Density, Film	None	2	8
W2836	Sawmill Brook	2019	Periphyton Density, Film	Unobservable	6	8
W2836	Sawmill Brook	2019	Scum	No	8	8
W2836	Sawmill Brook	2019	Turbidity	Highly Turbid	1	8
W2836	Sawmill Brook	2019	Turbidity	Moderately Turbid	3	8
W2836	Sawmill Brook	2019	Turbidity	None	1	8
W2836	Sawmill Brook	2019	Turbidity	Slightly Turbid	3	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Sawmill Brook (MA62-36) is assessed as Not Supporting. An *Escherichia coli* (*E. coli*) impairment is being added due to bacteria data exceeding thresholds at one station in 2019. MassDEP staff collected *E. coli* bacteria samples halfway down Sawmill Brook at W2836 [Bedford St, (Rt. 18), downstream of the MCI Bridgewater WWTF discharge, Bridgewater] from Jun-Aug 2019 (n=6). Analysis of the single year limited frequency dataset from this station indicated 100% of intervals had GMs >126 CFU/100ml, 6 samples exceeded the 410 CFU/100ml STV (maximum 10,200 CFU) and the seasonal GM was 1,003 CFU/100ml. The bacteria data from W2836 are indicative of an *E. coli* impairment. Surface water sampling was conducted by the USGS upstream and downstream of the MCI Bridgewater WWTF discharge on Sawmill Brook at stations USGS_01108050 and USGS_01108055 respectively on three dates during August to October 2020 as part of a MassDEP funded project, to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2836	MassDEP	Water Quality	Sawmill Brook	[Bedford Street, (Route 18, 28), Bridgewater]	41.948816	-70.968270
USGS-01108050	USGS Massachusetts Water Science Center	Water Quality	Sawmill Brook	SAWMILL BROOK AT CONANT ST BRIDGEWATER, MA; upstream of MCI Bridgewater WWTF	41.959000	-70.959000
USGS-01108055	USGS Massachusetts Water Science Center	Water Quality	Sawmill Brook	SAWMILL BROOK AT ROUTE 28, BRIDGEWATER, MA; downstream of MCI Bridgewater WWTF	41.949000	-70.969000

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (30-day Interval Analysis)

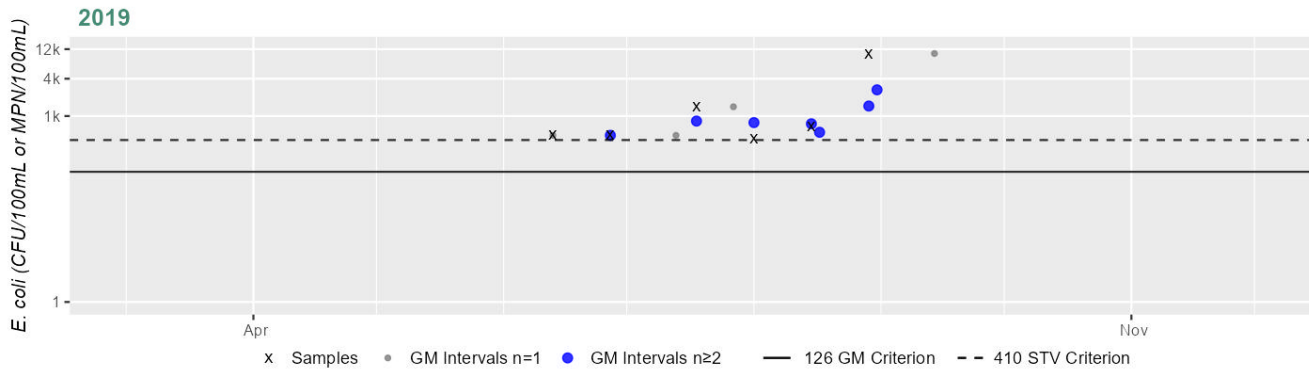
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2836	MassDEP	E. coli	06/13/19	08/29/19	6	435	10200	1003

Station MASSDEP_W2836 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	1003
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	6
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Other Indicators

Summary Statement(s) for USGS 2020 PFAS in Water Column Data (Savoie and Argue 2023) (MassDEP Undated 3)

Summary
Surface water sampling was conducted by the USGS upstream of the MCI Bridgewater WWTF discharge on Sawmill Brook (MA62-36) at station USGS_01108050 on three dates during August to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).
Surface water sampling was conducted by the USGS downstream of the MCI Bridgewater WWTF discharge on Sawmill Brook (MA62-36) at station USGS_01108055 on three dates during August to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).

USGS 2020 PFAS in Water Column Data Collected Upstream and Downstream of Wastewater Treatment Facilities (Savoie and Argue 2023) (MassDEP Undated 3)

[The ΣPFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here). * indicates the ΣPFAS6 concentration is qualified since data for one or more individual PFAS6 analytes were qualified. A concentration with a "<" was less than the reporting detection limit (RDL) and the RDL was used to calculate the ΣPFAS6. E = qualifier "value is estimated"; V = qualifier "value affected by field or laboratory contamination"]

Station Code	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	ΣPFAS6 ng/L
USGS-01108050	8/26/2020	3.12	2.4	E0.309	E0.938	2.88	E1.64	9.8*
USGS-01108050	9/22/2020	4.4	E7.9	E0.653	E1.17	1.91	E1.68	16.3*
USGS-01108050	10/15/2020	E2.95	2.06	E0.401	E0.876	2.54	E1.48	9.3*
USGS-01108055	8/26/2020	3.39	3.78	2.27	E1.43	7.25	2.12	14.6*
USGS-01108055	9/22/2020	3.14	3.26	2.24	E1.36	11.4	2	14.7*
USGS-01108055	10/15/2020	E3.17	2.91	E1.19	E1.15	3.67	1.98	11.9*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for Sawmill Brook (MA62-36) is assessed as Not Supporting. An <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being added based on a re-evaluation of bacteria data exceeding thresholds at one station in 2019. MassDEP staff collected <i>E. coli</i> bacteria samples halfway down Sawmill Brook at W2836 [Bedford St, (Rt. 18), Bridgewater] from Jun-Aug 2019 (n=6). Analysis of the single year limited frequency dataset from this station indicated 100% of intervals had GMs >244 CFU/100ml, 2 samples exceeded the 794 CFU/100ml STV (maximum of 10,200 CFU) and the overall GM was 1,003 CFU/100ml. The bacteria data from W2836 are indicative of an <i>E. coli</i> impairment.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2836	MassDEP	Water Quality	Sawmill Brook	[Bedford Street, (Route 18, 28), Bridgewater]	41.948816	-70.968270

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

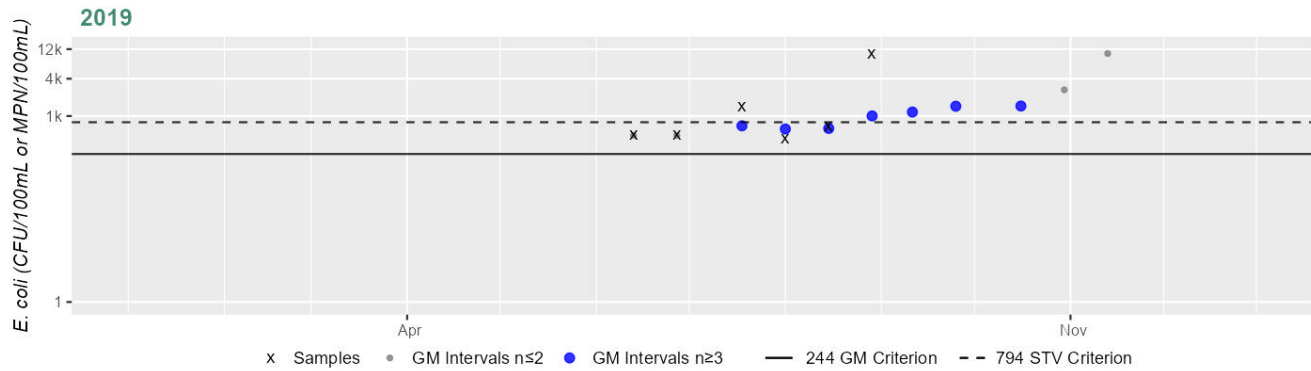
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2836	MassDEP	E. coli	06/13/19	08/29/19	6	435	10200	1003

Station MASSDEP_W2836 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	1003
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	2
%n>STV	33%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

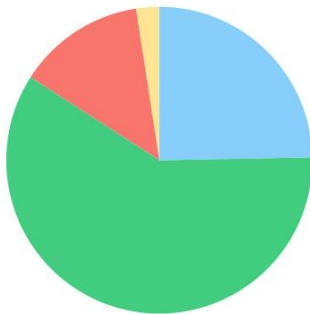
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Segreganset River (MA62-53)

Location:	Source in wetland north of Glebe Street, Taunton to the Montaup Pond Dam (NATID: MA02104), Dighton (formerly part of 2004 segment: Segreganset River MA62-18) (through former 2014 lake segment: Segreganset River Ponds MA62169).
AU Type:	RIVER
AU Size:	7.8 MILES
Classification/Qualifier:	A: PWS, ORW (Tributary)

Segreganset River (MA62-53)

Watershed Area: 14.02 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	14.02	6.58	8.35	3.46
Agriculture	2.4%	3.9%	1.7%	2.3%
Developed	13.5%	11.1%	8.8%	5.3%
Natural	59.4%	58.6%	53%	48.5%
Wetland	24.7%	26.5%	36.6%	43.8%
Impervious	5.4%	4.2%	3.3%	2.2%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Dewatering*)	--	Unchanged
5	5	(Fish Passage Barrier*)	--	Unchanged
5	5	Enterococcus	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Dewatering*)	Impacts from Hydrostructure Flow Regulation/Modification (Y)	X	--	--	--	--
(Dewatering*)	Water Diversions (Y)	X	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--
Enterococcus	Source Unknown (N)	--	--	--	X	--

Recommendations

2024/26 Recommendations
2024/26IR [Bacteria, Medium priority] Additional high frequency <i>E. coli</i> data should be collected in the downstream half of Segreganset River (MA62-53) including the legacy station off Karen Road {W2838}, to determine if an impairment for <i>E. coli</i> is necessary. Elevated <i>E. coli</i> concentrations were detected at two stations on this AU in 2019-2021. This is of medium priority.

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Segreganset River (MA62-53) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Segreganset River (MA62-53) is assessed as Fully Supporting based on the general lack of objectionable conditions noted by MassDEP during summer 2019. MassDEP staff recorded aesthetics observations at one station close to the downstream end of this Segreganset River AU south off Karen Road, Dighton (W2838) for selected monitoring during the summer of 2019 (n=8). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2838	MassDEP	Water Quality	Segreganset River	[south off Karen Road, Dighton]	41.835232	-71.135935

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2838	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2838 on Segreganset River (MA62-53) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2838	2019	8	8	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2838	Segreganset River	2019	Aesthetics Impaired?	No	8	8
W2838	Segreganset River	2019	Aquatic Plant Density, Overall	None	6	8
W2838	Segreganset River	2019	Aquatic Plant Density, Overall	Sparse	2	8
W2838	Segreganset River	2019	Color	Light Yellow/Tan	4	8
W2838	Segreganset River	2019	Color	None	2	8
W2838	Segreganset River	2019	Color	Reddish	2	8
W2838	Segreganset River	2019	Objectionable Deposits	No	7	8
W2838	Segreganset River	2019	Objectionable Deposits	Yes	1	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2838	Segreganset River	2019	Odor	None	8	8
W2838	Segreganset River	2019	Periphyton Density, Filamentous	None	7	8
W2838	Segreganset River	2019	Periphyton Density, Filamentous	Sparse	1	8
W2838	Segreganset River	2019	Periphyton Density, Film	None	7	8
W2838	Segreganset River	2019	Periphyton Density, Film	Sparse	1	8
W2838	Segreganset River	2019	Scum	No	7	8
W2838	Segreganset River	2019	Scum	Yes	1	8
W2838	Segreganset River	2019	Turbidity	None	8	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	YES

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Segreganset River (MA62-53) continues to be assessed as Not Supporting. The prior *Enterococcus* impairment is being carried forward based on bacteria data exceeding thresholds at one station in 2019. An Alert is identified for *Escherichia coli* (*E. coli*) based on data collected from two stations in 2019-2021. MassDEP, Taunton River Watershed Alliance (TRWA), and USGS staff/volunteers collected *E. coli* (EC) and *Enterococcus* (Ent) bacteria samples in this Segreganset River AU from 2019-2021 at 3 stations in Dighton. Samples were collected from the following stations/sample years from upstream to downstream: two-thirds of the way down the AU at TRWA_SEG [Segregansett R. Horton St.] in 2019 (EC n=7), a little further down at USGS-01109070 in 2019-2021 (EC n=4-8/yr), and close to the downstream end at W2838 [South off Karen Rd] in 2019 (EC n=6). Analysis of the single year moderate frequency *Enterococcus* dataset from TRWA_SEG indicated 83% of intervals had GMs >35 CFU/100ml and 2 samples exceeded the 130 CFU/100ml STV. These data are indicative of an *Enterococcus* impairment. Analysis of the multi-year moderate frequency *E. coli* dataset from USGS-01109070 indicated that while only 1 out of 3 sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml (81% in 2021) and 0 yrs had ≥2 samples exceed the 410 CFU/100ml STV, cumulatively across years 52% of intervals had GMs >126 CFU/100ml. Analysis of the single year limited frequency *E. coli* dataset from W2838 indicated 71% of intervals had GMs >126 CFU/100ml, and the seasonal GM was 141 CFU/100ml (exceeding the threshold) with 1 sample exceeding the 410 CFU/100ml STV. An Alert is being identified for *E. coli* based on the datasets from stations USGS-01109070 and W2838.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2838	MassDEP	Water Quality	Segreganset River	[south off Karen Road, Dighton]	41.835232	-71.135935
TRWA_SEG	Taunton River Watershed Alliance	Water Quality	Segregansett River	Segregansett R. Horton Street, Dighton	41.846322	-71.164374
USGS-01109070	USGS Massachusetts Water Science Center	Water Quality	Segreganset River	Segreganset River Near Dighton, MA	41.840379	-71.142824

Bacteria Data

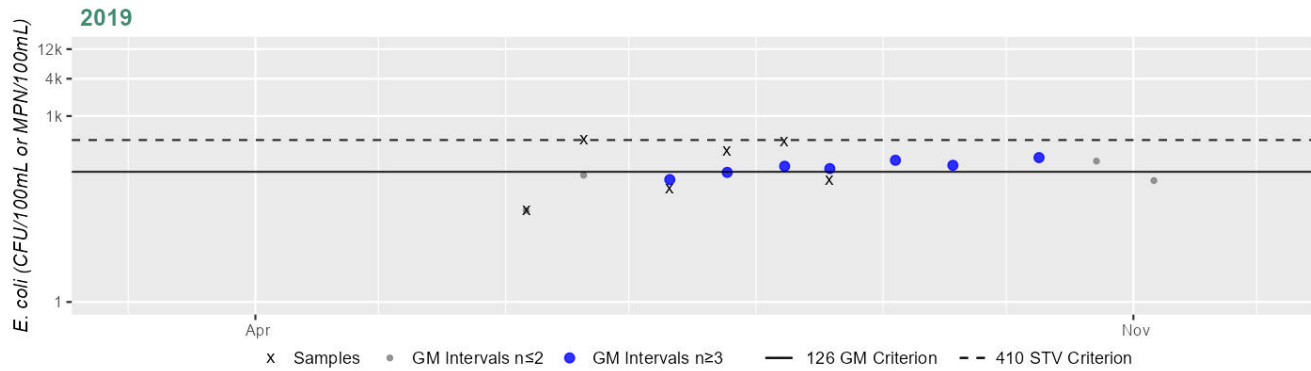
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
 (MassDEP Undated 9) (MassDEP Undated 5) (TRWA 2020) (MassDEP Undated 3) (USGS 2024) (MassDEP Undated 3)
 [Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2838	MassDEP	E. coli	06/06/19	08/19/19	6	30	411	141
TRWA_SEG	Taunton River Watershed Association	Enterococci	04/09/19	10/08/19	7	10	600	78
USGS-01109070	USGS Massachusetts Water Science Center	E. coli	04/16/19	11/19/19	7	31	210	77

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
USGS-01109070	USGS Massachusetts Water Science Center	E. coli	05/13/20	10/21/20	4	14	340	69
USGS-01109070	USGS Massachusetts Water Science Center	E. coli	04/21/21	10/21/21	8	11	2400	120

Station MASSDEP_W2838 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	141
#GMI	7
#GMI Ex	5
%GMI Ex	71%
n>STV	1
%n>STV	16%

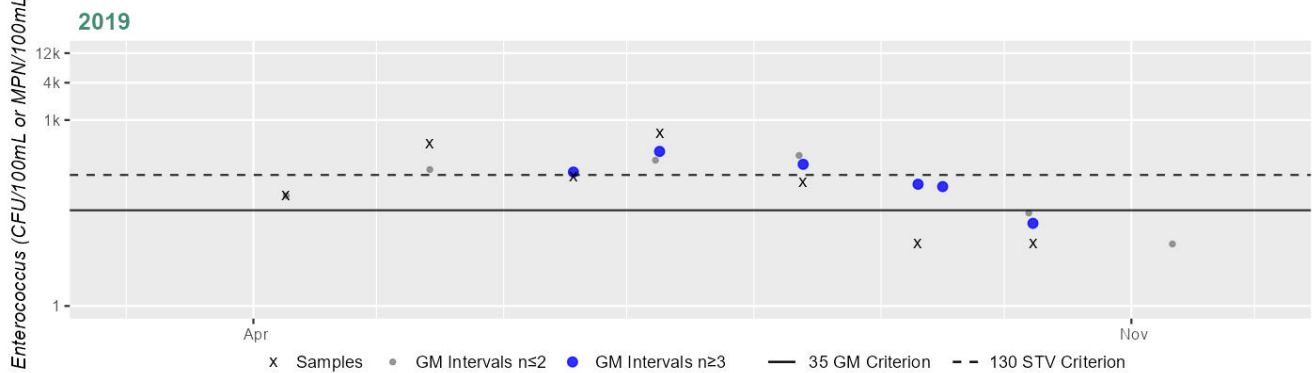
Cumulative %GMI Exceedance

Current (2011-2022)
71%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station TRWA_SEG - Enterococcus

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



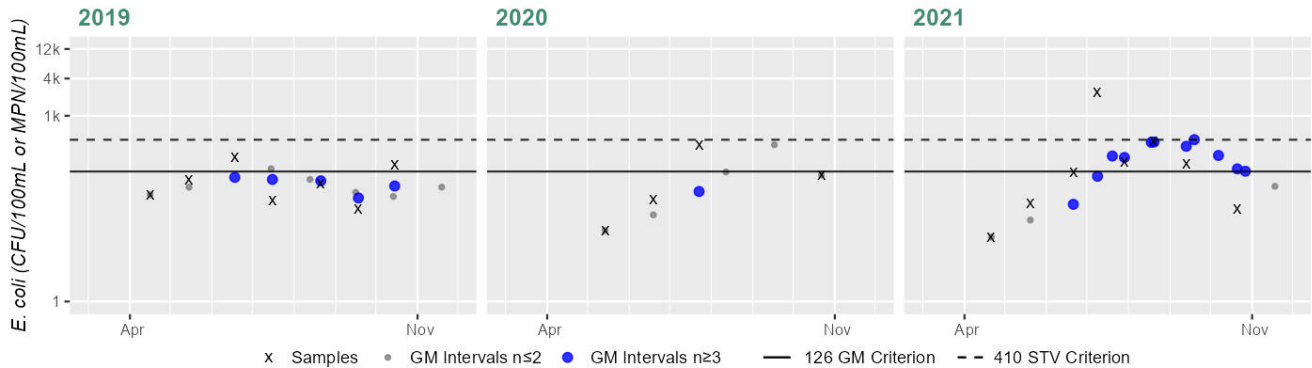
Variable*	Result
Samples	7
SeasGM	78
#GMI	6
#GMI Ex	5
%GMI Ex	83%
n>STV	2
%n>STV	28%

Cumulative %GMI Exceedance
Current (2011-2022)
83%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station USGS-01109070 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	7
SeasGM	77
#GMI	5
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	4
SeasGM	69
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	8
SeasGM	120
#GMI	11
#GMI Ex	9
%GMI Ex	81%
n>STV	1
%n>STV	12%

Cumulative %GMI Exceedance
Current (2011-2022)
52%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for the Segreganset River (MA62-53) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected at two stations in 2019-2021. MassDEP and USGS staff collected <i>E. coli</i> bacteria samples in the downstream half of this Segreganset River AU from 2019-2021 at two stations in Dighton. Samples were collected from the following stations/sample years from upstream to downstream: USGS-01109070 in 2019-2021 (n=9-12/yr) and close to the downstream end at W2838 [South off Karen Rd] from Jun-Aug 2019 (n=6). Analysis of the multi-year moderate frequency <i>E. coli</i> dataset from USGS-01109070 indicated only 1 out of 3 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml (2021, 23%), 0 yrs had ≥2 samples exceed the 794 CFU/100ml STV, and cumulatively across years only 12% of intervals had GMs >244 CFU/100ml. Analysis of the single year limited frequency <i>E. coli</i> dataset from W2838 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 141 CFU/100ml. <i>E. coli</i> data from both USGS-01109070 and W2838 were indicative of good water quality conditions.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2838	MassDEP	Water Quality	Segreganset River	[south off Karen Road, Dighton]	41.835232	-71.135935
USGS-01109070	USGS Massachusetts Water Science Center	Water Quality	Segreganset River	Segreganset River Near Dighton, MA	41.840379	-71.142824

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

(MassDEP Undated 9) (MassDEP Undated 4) (USGS 2024) (MassDEP Undated 2)

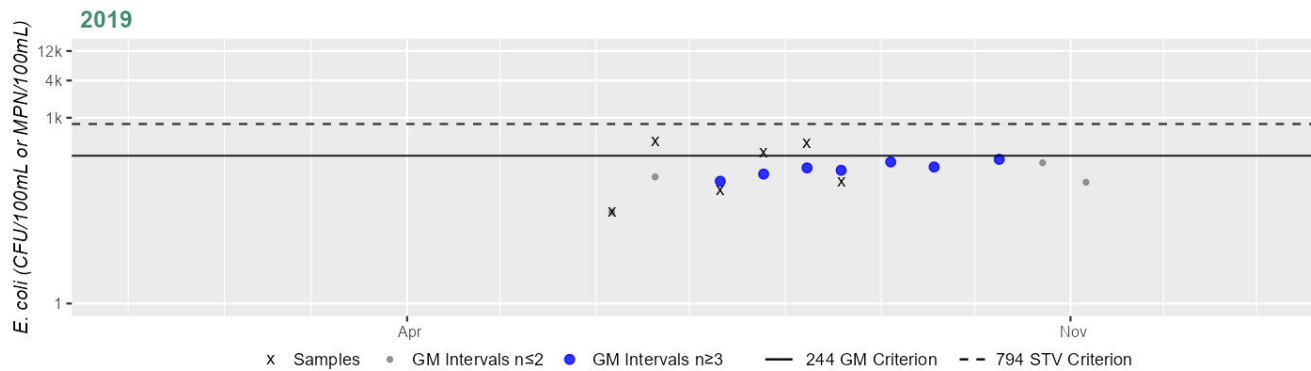
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2838	MassDEP	E. coli	06/06/19	08/19/19	6	30	411	141
USGS-01109070	USGS Massachusetts Water Science Center	E. coli	01/30/19	12/11/19	12	3	210	44
USGS-01109070	USGS Massachusetts Water Science Center	E. coli	01/14/20	12/08/20	9	12	340	43

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
USGS-01109070	USGS Massachusetts Water Science Center	E. coli	02/22/21	12/15/21	12	11	2400	77

Station MASSDEP_W2838 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	141
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

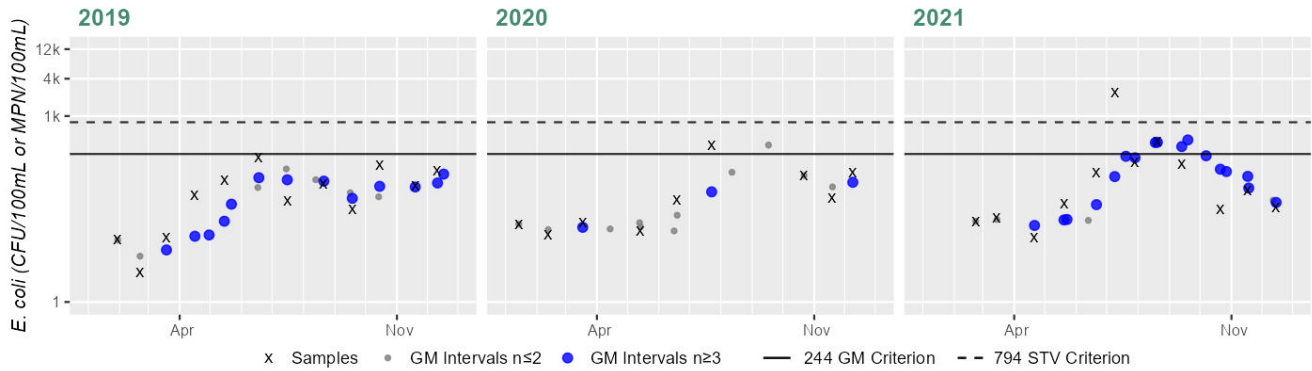
Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station USGS-01109070 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	12
SeasGM	44
#GMI	13
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	9
SeasGM	43
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	12
SeasGM	77
#GMI	17
#GMI Ex	4
%GMI Ex	23%
n>STV	1
%n>STV	8%

Cumulative %GMI Exceedance
Current (2011-2022)
 12%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Segreganset River (MA62-54)

Location:	From Montaup Pond Dam (NATID: MA02104), Dighton to approximately 250 feet north of Brook Street, Dighton (formerly part of 2004 segment: Segreganset River MA62-18).
AU Type:	RIVER
AU Size:	0.3 MILES
Classification/Qualifier:	B

No usable data were available for Segreganset River (MA62-54) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Dewatering*)	--	Unchanged
4c	4c	(Fish Passage Barrier*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Dewatering*)	Impacts from Hydrostructure Flow Regulation/Modification (Y)	X	--	--	--	--
(Dewatering*)	Water Diversions (Y)	X	--	--	--	--
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--

Segreganset River (MA62-55)

Location:	From approximately 250 feet north of Brook Street, Dighton to mouth at confluence with the Taunton River, Dighton (formerly part of 2004 segment: Segreganset River MA62-18).
AU Type:	ESTUARY
AU Size:	0.02 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	40309	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Segreganset River (MA62-55) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

Segreganset River (MA62-55): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0158 sq mi (79%). The approved shellfish growing area represents 0 sq mi (0%). The prohibited shellfish growing area represents 0.0158 sq mi (79%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as either entirely prohibited or a combination of approved and prohibited. There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use is evaluated as Not Supporting.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
MHB2.1	Taunton River	Prohibited	0.01577	79.3%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary

No data are available, so the Aesthetics Use for Segreganset River (MA62-55) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

No bacteria data are available to assess the Primary Contact Recreation Use for the Segreganset River (MA62-55) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0158 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). The data were too limited to assess the Primary Contact Recreation Use for Segreganset River based on shellfish classification data.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary

Segreganset River (MA62-55): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0158 sq mi (79%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
<p>No bacteria data are available to assess the Secondary Contact Recreation Use for the Segreganset River (MA62-55) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0158 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). The data were too limited to assess Secondary Contact Recreation Use for the Segreganset River based on shellfish classification data.</p>

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

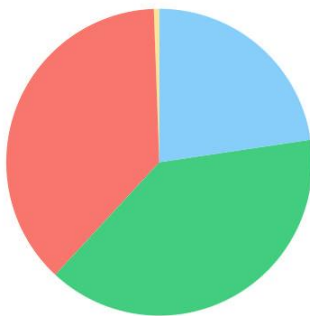
Summary
<p>Segreganset River (MA62-55): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0158 sq mi (79%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.</p>

Shumatuscacant River (MA62-33)

Location:	Headwaters, from wetland northwest of Vineyard Road, Abington to mouth at confluence with Poor Meadow Brook, Hanson (through former 2014 segment: Hobart Pond MA62090) (excluding 0.5 mile through Island Grove Pond MA62094).
AU Type:	RIVER
AU Size:	8 MILES
Classification/Qualifier:	B

Shumatuscacant River (MA62-33)

Watershed Area: 10.70 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	10.70	4.33	2.45	0.94
Agriculture	0.6%	0.7%	0.4%	0.4%
Developed	37.5%	36.5%	26.4%	25.2%
Natural	39.2%	39.8%	34.4%	30.9%
Wetland	22.7%	23%	38.8%	43.5%
Impervious	18.3%	17.5%	12.4%	10%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Non-Native Aquatic Plants*)	--	Unchanged
5	5	(Physical Substrate Habitat Alterations*)	--	Unchanged
5	5	Benthic Macroinvertebrates	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	Escherichia Coli (E. Coli)	40308	Changed
5	5	Fecal Coliform	40308	Unchanged
5	5	Sedimentation/Siltation	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Physical Substrate Habitat Alterations*)	Source Unknown (N)	X	--	--	--	--
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--
Fecal Coliform	Source Unknown (N)	--	--	--	X	--
Sedimentation/Siltation	Source Unknown (N)	X	--	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Escherichia Coli (E. Coli)	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Final Pathogen TMDL for the Taunton River Watershed (Report CN 256.0, approved 6/16/2011, ATTAINS Action ID: 40308)

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Shumatuscacant River (MA62-33) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Shumatuscacant River (MA62-33) is assessed as Fully Supporting based on the general lack of objectionable conditions noted by MassDEP staff during the summers of 2013 and 2019. MassDEP staff recorded aesthetics observations at two stations towards the downstream end of this Shumatuscacant River AU; ~3200 ft upstream/northwest of Rt. 27 (Franklin St) in Whitman (W2386) as part of the MAP2 wadeable streams monitoring project during the summer of 2013 (n=8) and at West Washington Street, Hanson (W0868) for selected monitoring during the summer of 2019 (n=8). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded at either station.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0868	MassDEP	Water Quality	Shumatuscacant River	[West Washington Street, Hanson]	42.058209	-70.899956
W2386	MassDEP	Water Quality	Shumatuscacant River	[approximately 3200 feet upstream/northwest of Route 27 (Franklin Street), Whitman]	42.068117	-70.914242

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W0868	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W0868 on Shumatuscacant River (MA62-33) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2386	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2386 on Shumatuscacant River (MA62-33) during 8 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W0868	2019	8	5	0
W2386	2013	8	7	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0868	Shumatuscacant River	2019	Aesthetics Impaired?	No	8	8
W0868	Shumatuscacant River	2019	Aquatic Plant Density, Overall	None	3	8
W0868	Shumatuscacant River	2019	Aquatic Plant Density, Overall	Sparse	3	8
W0868	Shumatuscacant River	2019	Aquatic Plant Density, Overall	Unobservable	2	8
W0868	Shumatuscacant River	2019	Color	Brownish	1	8
W0868	Shumatuscacant River	2019	Color	Light Yellow/Tan	6	8
W0868	Shumatuscacant River	2019	Color	None	1	8
W0868	Shumatuscacant River	2019	Objectionable Deposits	No	8	8
W0868	Shumatuscacant River	2019	Odor	Musty (Basement)	2	8
W0868	Shumatuscacant River	2019	Odor	None	6	8
W0868	Shumatuscacant River	2019	Periphyton Density, Filamentous	None	5	8
W0868	Shumatuscacant River	2019	Periphyton Density, Filamentous	Unobservable	3	8
W0868	Shumatuscacant River	2019	Periphyton Density, Film	None	5	8
W0868	Shumatuscacant River	2019	Periphyton Density, Film	Unobservable	3	8
W0868	Shumatuscacant River	2019	Scum	No	6	8
W0868	Shumatuscacant River	2019	Scum	Yes	2	8
W0868	Shumatuscacant River	2019	Turbidity	Moderately Turbid	1	8
W0868	Shumatuscacant River	2019	Turbidity	None	1	8
W0868	Shumatuscacant River	2019	Turbidity	Slightly Turbid	6	8
W2386	Shumatuscacant River	2013	Aesthetics Impaired?	No	7	8
W2386	Shumatuscacant River	2013	Aesthetics Impaired?	NR	1	8
W2386	Shumatuscacant River	2013	Aquatic Plant Density, Overall	None	7	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2386	Shumatuscacant River	2013	Aquatic Plant Density, Overall	Unobservable	1	8
W2386	Shumatuscacant River	2013	Color	Brownish	1	8
W2386	Shumatuscacant River	2013	Color	Light Yellow/Tan	7	8
W2386	Shumatuscacant River	2013	Objectionable Deposits	No	8	8
W2386	Shumatuscacant River	2013	Odor	None	6	8
W2386	Shumatuscacant River	2013	Odor	NR	2	8
W2386	Shumatuscacant River	2013	Periphyton Density, Filamentous	None	7	8
W2386	Shumatuscacant River	2013	Periphyton Density, Filamentous	Unobservable	1	8
W2386	Shumatuscacant River	2013	Periphyton Density, Film	None	7	8
W2386	Shumatuscacant River	2013	Periphyton Density, Film	Unobservable	1	8
W2386	Shumatuscacant River	2013	Scum	No	8	8
W2386	Shumatuscacant River	2013	Turbidity	Moderately Turbid	2	8
W2386	Shumatuscacant River	2013	Turbidity	None	3	8
W2386	Shumatuscacant River	2013	Turbidity	Slightly Turbid	3	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Shumatuscacant River (MA62-33) continues to be assessed as Not Supporting. The prior *Escherichia coli* (*E. coli*) impairment is being carried forward based on bacteria data collected in 2013 at 1 station and the prior Fecal Coliform impairment is also being carried forward.

MassDEP staff collected *E. coli* bacteria samples in the Shumatuscacant River from 2013-2019 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: three-quarters of the way down the AU at W2386 [~3200 ft upstream/northwest of Rt. 27 (Franklin St), Whitman] from May-Sep 2013 (n=5), and close to the downstream end of the AU at W0868 [West Washington St, Hanson] from Jun-Aug 2019 (n=6). Analysis of the single year limited frequency *E. coli* dataset from W2386 indicated 100% of intervals had GMs >126 CFU/100ml, 2 samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 233 CFU/100ml. Analysis of the single year limited frequency *E. coli* dataset from W0868 indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 99 CFU/100ml. While *E. coli* data from W0868 were indicative of good water quality conditions, the data collected at W2386 is indicative of an *E. coli* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0868	MassDEP	Water Quality	Shumatuscacant River	[West Washington Street, Hanson]	42.058209	-70.899956
W2386	MassDEP	Water Quality	Shumatuscacant River	[approximately 3200 feet upstream/northwest of Route 27 (Franklin Street), Whitman]	42.068117	-70.914242

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

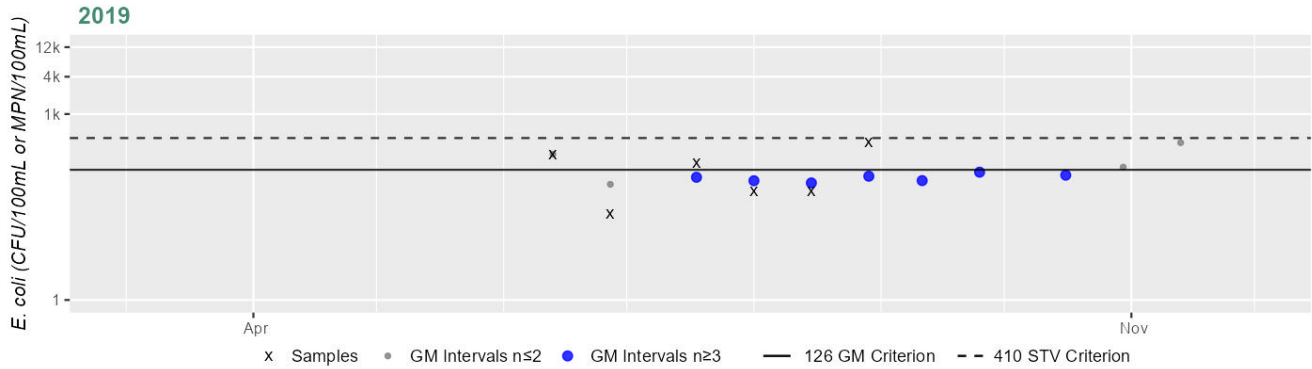
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0868	MassDEP	E. coli	06/13/19	08/29/19	6	24	345	99
W2386	MassDEP	E. coli	05/23/13	09/18/13	5	31	1180	233

Station MASSDEP_W0868 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



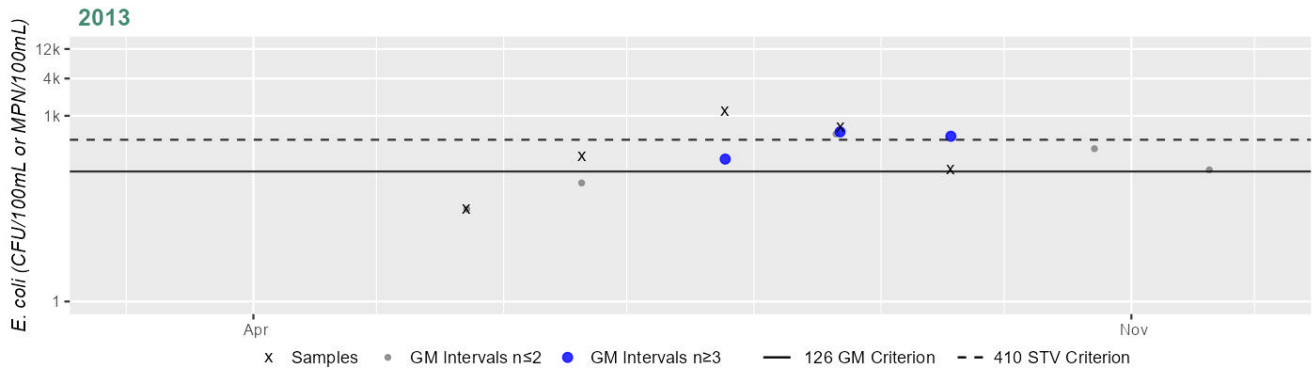
Variable*	Result
Samples	6
SeasGM	99
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2386 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	233
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	2
%n>STV	40%

Cumulative %GMI Exceedance
Current (2011-2022)
 100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for the Shumatuscacant River (MA62-33) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2019 at 1 station. MassDEP staff collected <i>E. coli</i> bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in the Shumatuscacant River from 2001-2019 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: three-quarters of the way down the AU at W2386 [~3200 ft upstream/northwest of Rt. 27 (Franklin St), Whitman] from May-Sep 2013 (n=5), and close to the downstream end of the AU at W0868 [West Washington St, Hanson] from Jul 2001 (historic n=1) and Jun-Aug 2019 (current n=6). Since <i>E. coli</i> data from W2386 are single year, limited frequency and analysis of the data resulted in a GM below the threshold but also an exceedance of the STV threshold, the data are too limited to assess the Secondary Contact Recreation Use. However, analysis of the single year limited frequency <i>E. coli</i> dataset from W0868 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 99 CFU/100ml. While there was insufficient data in the historic window to assess the Secondary Contact Recreation Use, the <i>E. coli</i> data collected in the current IR window at W0868 is indicative of generally good water quality conditions.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0868	MassDEP	Water Quality	Shumatuscacant River	[West Washington Street, Hanson]	42.058209	-70.899956
W2386	MassDEP	Water Quality	Shumatuscacant River	[approximately 3200 feet upstream/northwest of Route 27 (Franklin Street), Whitman]	42.068117	-70.914242

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

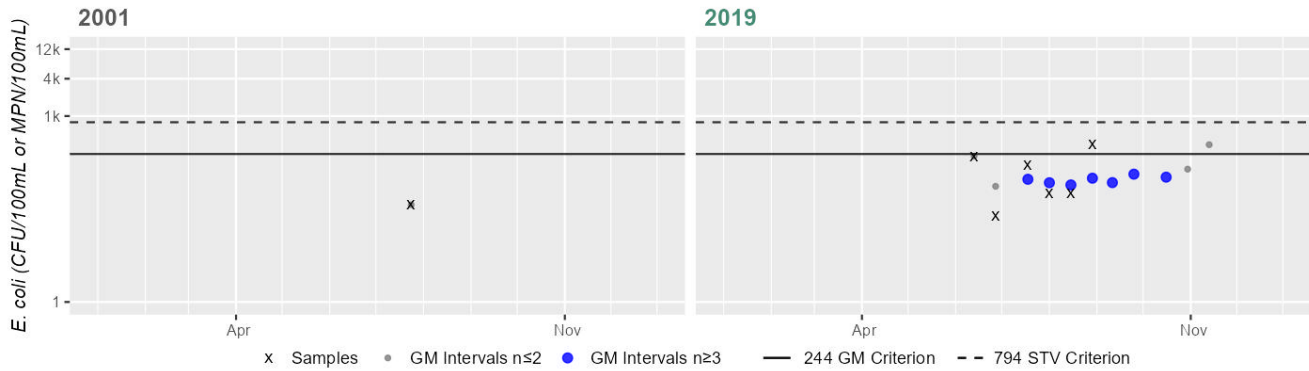
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0868	MassDEP	E. coli	07/24/01	07/24/01	1	37	37	36
W0868	MassDEP	E. coli	06/13/19	08/29/19	6	24	345	99
W2386	MassDEP	E. coli	05/23/13	09/18/13	5	31	1180	233

Station MASSDEP_W0868 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	37
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	99
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

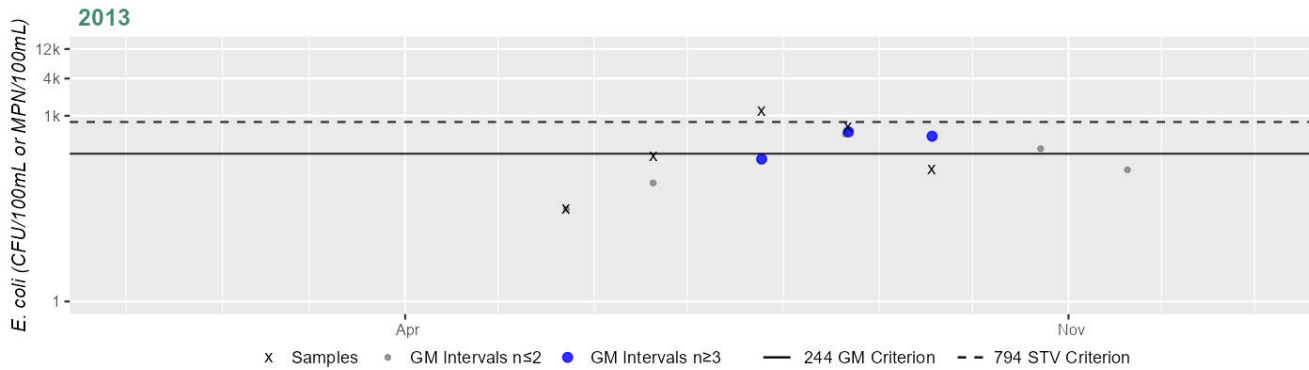
Cumulative %GMI Exceedance
Historic (1997-2010)
0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2386 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	233
#GMI	3
#GMI Ex	2
%GMI Ex	66%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance
Current (2011-2022)
66%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Snake River (MA62-28)

Location:	Headwaters, outlet Winnecunnet Pond, Norton to mouth at inlet of Lake Sabbatia, Taunton.
AU Type:	RIVER
AU Size:	3.3 MILES
Classification/Qualifier:	B

No usable data were available for Snake River (MA62-28) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Somerset Reservoir (MA62174)

Location:	Somerset.
AU Type:	FRESHWATER LAKE
AU Size:	164 ACRES
Classification/Qualifier:	A: PWS, ORW

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Mercury in Fish Tissue	33880	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Mercury in Fish Tissue	Atmospheric Deposition (Y)	--	X	--	--	--
Mercury in Fish Tissue	Source Unknown (N)	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No

2024/26 Use Attainment Summary
<p>The Fish Consumption Use for Somerset Reservoir (MA62174) continues to be assessed as Not Supporting. The prior Mercury in Fish Tissue impairment is being carried forward. MDPH removed this waterbody from its 2013 Fish Consumption Advisory List because the waterbody is a public water supply where fishing is not allowed. Because fish tissue sampling at the reservoir in 2009 and 2013 revealed elevated mercury levels, the prior Mercury in Fish Tissue impairment is being retained until such a time that the concentration of mercury in fish tissue samples collected from Somerset Reservoir meets the human health criterion of 0.3 ppm or less.</p>

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Somerset Reservoir (MA62174) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Somerset Reservoir (MA62174) are available, so the Primary Contact Recreation Use is Not Assessed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Somerset Reservoir (MA62174) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

Stetson Pond (MA62182)

Location:	Pembroke.
AU Type:	FRESHWATER LAKE
AU Size:	88 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	4a	(Curly-leaf Pondweed*)	--	Unchanged
5	4a	(Eurasian Water Milfoil, Myriophyllum Spicatum*)	--	Unchanged
5	4a	(Fanwort*)	--	Unchanged
5	4a	(Water Chestnut*)	--	Unchanged
5	4a	Dissolved Oxygen	R1_MA_2022_01	Changed
5	4a	Harmful Algal Blooms	R1_MA_2022_01	Changed
5	4a	Phosphorus, Total	R1_MA_2022_01	Changed

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Curly-leaf Pondweed*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Eurasian Water Milfoil, Myriophyllum Spicatum*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Water Chestnut*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Harmful Algal Blooms	Internal Nutrient Recycling (Y)	--	--	X	X	X
Harmful Algal Blooms	On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) (Y)	--	--	X	X	X
Phosphorus, Total	Source Unknown (N)	X	--	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Dissolved Oxygen	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: West and East Monponsett Pond System TMDLs For Total Phosphorus (Report CN 446.2, approved 7/20/2022, ATTAINS Action ID: R1_MA_2022_01)
Harmful Algal Blooms	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: West and East Monponsett Pond System TMDLs For Total Phosphorus (Report CN 446.2, approved 7/20/2022, ATTAINS Action ID: R1_MA_2022_01)
Phosphorus, Total	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: West and East Monponsett Pond System TMDLs For Total Phosphorus (Report CN 446.2, approved 7/20/2022, ATTAINS Action ID: R1_MA_2022_01)

Recommendations

2024/26 Recommendations
2024/26IR [Aesthetics, Low] Stetson Pond (MA62182) is currently impaired for Harmful Algal Blooms. Since aesthetics conditions appeared to have been improving (no beach postings due to C-HABs reported to MDPH in 2015-2022) blooms should continue to be tracked in Stetson Pond and reported to MDPH, as well as sample analysis for cyanobacteria cell counts, in case the impairment can be removed at a later date. This recommendation also applies to the Recreational Uses. In light of the Aesthetics Alert for “Algae”, based on observations of dense algae at the deep hole {W1086} in 2015, determinations of percent Algae coverage should also be prioritized for this AU. This is a low priority;

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Stetson Pond (MA62182) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	YES

2024/26 Use Attainment Summary
The Aesthetics use for Stetson Pond (MA62182) continues to be assessed as Not Supporting with the Harmful Algal Blooms impairment being carried forward. An Alert is being identified for Algae based on observations of dense algae at the deep hole in 2015. MassDEP staff recorded aesthetics observations at one station for this Stetson Pond AU at the deep hole, Pembroke (W1086) during the summer of 2015 for the WPP Lakes Baseline project (n=5). There were some objectionable conditions recorded i.e. green water color (n=3) which is reflective of the existing impairment for this AU. Field staff also noted high turbidity on one occasion and dense plant cover on the waterbody surface on one occasion. Additionally, dense algae (50-75% coverage) was observed once each in August and September, which is indicative of an Alert status and reflective of the existing impairment for this AU. Consequently, there is insufficient information available to delist the historic Harmful Algal Blooms impairment; however, since conditions appear to have improved in recent years (no C-HABs reported to DPH) a recommendation will be made to continue to track blooms and monitor algal density/coverage in Stetson Pond in case this impairment can be removed at a later date.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1086	MassDEP	Water Quality	Stetson Pond	[deep hole, Pembroke]	42.028496	-70.826111

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W1086	2015	5	Aesthetic observations were made by MassDEP field sampling crews at Station W1086 on Stetson Pond (MA62182) during 5 site visits between May 2015 and Sep 2015. There were some objectionable conditions recorded, including green water color (n=3). Field staff also noted high turbidity (n=1) and dense/very dense plant cover on the waterbody surface (n=1). These conditions are indicative of an Alert status.

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1086	Stetson Pond	2015	Aesthetics Impaired?	No	5	5
W1086	Stetson Pond	2015	Aquatic Plant Density, Overall	None	4	5
W1086	Stetson Pond	2015	Aquatic Plant Density, Overall	NR	1	5
W1086	Stetson Pond	2015	Aquatic Plant Density, Whole Lake	Dense	1	4
W1086	Stetson Pond	2015	Aquatic Plant Density, Whole Lake	Sparse	3	4
W1086	Stetson Pond	2015	Color	Greenish	3	5
W1086	Stetson Pond	2015	Color	None	2	5
W1086	Stetson Pond	2015	Duckweed Density, Whole Lake	None	4	4
W1086	Stetson Pond	2015	Objectionable Deposits	No	5	5
W1086	Stetson Pond	2015	Odor	None	5	5
W1086	Stetson Pond	2015	Scum	No	5	5
W1086	Stetson Pond	2015	Turbidity	Highly Turbid	1	5
W1086	Stetson Pond	2015	Turbidity	None	2	5
W1086	Stetson Pond	2015	Turbidity	Slightly Turbid	2	5

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for Stetson Pond (MA62182) continues to be assessed as Not Supporting, with the prior Harmful Algal Blooms impairment (from the Aesthetics Use) being carried forward. MassDEP collected Secchi depth data in 2015 at W1086 [deep hole, Pembroke]. The data at station W1086 (station depth=8.5 m) indicated water clarity meeting the 1.2m (4ft) threshold (n=5, 1.3-4.2m). Since no C-HABs have been reported in recent years a recommendation will be made to continue to track blooms in Stetson Pond in case this impairment can be removed at a later date.

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data
 (MassDEP Undated 9) (MassDEP Undated 5)

Data Year(s)	Summary
2015	In Stetson Pond (MA62182), MassDEP collected Secchi data at W1086 [42.028496, -70.826111, deep hole, Pembroke] in 2015. At station W1086 (station depth=8.5 m) the Secchi depth measurements ranged from 1.3-4.2 m (n=5) indicating water clarity meeting the 1.2 m (4 ft) threshold.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for Stetson Pond (MA62182) continues to be assessed as Not Supporting, with the prior Harmful Algal Blooms impairment (from the Aesthetics Use) being carried forward. Since no C-HABs have been reported in recent years a recommendation will be made to continue to track blooms in Stetson Pond in case this impairment can be removed at a later date.</p>

Sunset Lake (MA62184)

Location:	Foxborough.
AU Type:	FRESHWATER LAKE
AU Size:	13 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Sunset Lake (MA62184) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

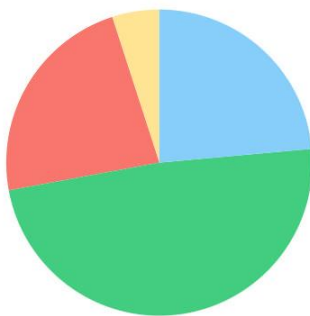
AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Taunton River (MA62-01)

Location:	Headwaters, confluence of Town and Matfield rivers, Bridgewater to Route 24 bridge, Taunton/Raynham.
AU Type:	RIVER
AU Size:	19.5 MILES
Classification/Qualifier:	B: WWF

Taunton River (MA62-01)

Watershed Area: 303.66 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	303.66	14.03	110.50	4.47
Agriculture	5%	4.8%	6.3%	7.4%
Developed	22.9%	28.3%	13.2%	15.9%
Natural	48.5%	50.1%	49.7%	50.6%
Wetland	23.6%	16.8%	30.8%	26.2%
Impervious	10.9%	13.5%	6%	7%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Dissolved Oxygen	--	Unchanged
5	5	Enterococcus	R1_MA_2024_04P	Unchanged
5	5	Escherichia Coli (E. Coli)	R1_MA_2024_04	Changed

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Dissolved Oxygen	Municipal Point Source Discharges (N)	X	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
Enterococcus	Source Unknown (N)	--	--	--	X	--
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Escherichia Coli (E. Coli)	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Massachusetts Statewide TMDL for Pathogen-Impaired Waterbodies (Report CN 515.1, approved 2/13/2024, ATTAINS Action ID: R1_MA_2024_04)

Recommendations

2024/26 Recommendations
<p>2024/26IR [Odor, Low] An Alert was issued this cycle due to observations of effluent odor on 3 occasions at the Green Street/Plymouth Street bridge {W1503} in 2019. It is recommended that additional visits be made to this Taunton River AU (MA62-01), in particular to W1503, to confirm the source of the odors to note if the odor in the water or the air. The effluent location for: MAG58004-001-MCI - Bridgewater, is located upstream of Bedford Street on the Sawmill Brook Tributary (MA62-36). The effluent location for: MAG580041-001-Oak Point Retirement Community, is located upstream of Summer Street. This is of low priority;</p> <p>2024/26IR [Bacteria, Low] Additional high frequency sampling for <i>E. coli</i> should be conducted for this Taunton River AU (MA62-01) to confirm whether the impairment could be removed. MassDEP sampled two stations in 2019 {W1503} and {W1504} and USGS at station {USGS-01108000} for three years (2019-2021) and all this bacteria data was indicative of generally good water quality conditions (meeting 2024 CALM guidance). The only issue was <i>E. coli</i> concentrations exceeded the STV threshold at station {W1504} on one occasion in 2019 (1,120 CFU/100ml). There is also a prior <i>Enterococcus</i> impairment in place for this AU. This is of low priority.</p>

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Taunton River (MA62-01) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary

The Aesthetics Use for Taunton River (MA62-01) is assessed as Fully Supporting based on the generally good aesthetics conditions observed by MassDEP field staff at two stations on the AU in 2019. However, an Alert is being identified for Odor due to the observations of effluent odor at the Green Street/Plymouth Street bridge in 2019. MassDEP staff recorded aesthetics observations at two stations during the summer of 2019, on this Taunton River AU; halfway down the AU at Green Street/Plymouth Street bridge, Bridgewater/Middleborough (W1503, n=8) and close to the downstream end of the AU at South Street East /Old Colony Avenue bridge, Raynham/Taunton (W1504, n=8). While there were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded at W1504, field staff noted both effluent odor and light-moderate trash on three occasions at W1503.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1503	MassDEP	Water Quality	Taunton River	[Green Street/Plymouth Street bridge, Bridgewater/Middleborough]	41.936293	-70.987348
W1504	MassDEP	Water Quality	Taunton River	[South Street East /Old Colony Avenue bridge, Raynham/Taunton]	41.886112	-71.029940

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W1503	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W1503 on Taunton River (MA62-01) during 8 site visits between May 2019 and Sep 2019. There were some objectionable conditions recorded, including effluent odor (n=3). Field staff also noted objectionable deposits (n=3). These conditions are indicative of an Alert status.
W1504	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W1504 on Taunton River (MA62-01) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W1503	2019	8	5	0
W1504	2019	8	6	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1503	Taunton River	2019	Aesthetics Impaired?	No	8	8
W1503	Taunton River	2019	Aquatic Plant Density, Overall	Moderate	1	8
W1503	Taunton River	2019	Aquatic Plant Density, Overall	None	2	8
W1503	Taunton River	2019	Aquatic Plant Density, Overall	NR	1	8
W1503	Taunton River	2019	Aquatic Plant Density, Overall	Sparse	3	8
W1503	Taunton River	2019	Aquatic Plant Density, Overall	Unobservable	1	8
W1503	Taunton River	2019	Color	Light Yellow/Tan	8	8
W1503	Taunton River	2019	Objectionable Deposits	No	5	8
W1503	Taunton River	2019	Objectionable Deposits	Yes	3	8
W1503	Taunton River	2019	Odor	Effluent (Treated)	3	8
W1503	Taunton River	2019	Odor	None	5	8
W1503	Taunton River	2019	Periphyton Density, Filamentous	None	3	8
W1503	Taunton River	2019	Periphyton Density, Filamentous	Sparse	2	8
W1503	Taunton River	2019	Periphyton Density, Filamentous	Unobservable	3	8
W1503	Taunton River	2019	Periphyton Density, Film	None	4	8
W1503	Taunton River	2019	Periphyton Density, Film	Sparse	1	8
W1503	Taunton River	2019	Periphyton Density, Film	Unobservable	3	8
W1503	Taunton River	2019	Scum	No	7	8
W1503	Taunton River	2019	Scum	Yes	1	8
W1503	Taunton River	2019	Turbidity	Moderately Turbid	1	8
W1503	Taunton River	2019	Turbidity	None	5	8
W1503	Taunton River	2019	Turbidity	Slightly Turbid	2	8
W1504	Taunton River	2019	Aesthetics Impaired?	No	8	8
W1504	Taunton River	2019	Aquatic Plant Density, Overall	Moderate	2	8
W1504	Taunton River	2019	Aquatic Plant Density, Overall	Sparse	5	8
W1504	Taunton River	2019	Aquatic Plant Density, Overall	Unobservable	1	8
W1504	Taunton River	2019	Color	Light Yellow/Tan	8	8
W1504	Taunton River	2019	Objectionable Deposits	No	7	8
W1504	Taunton River	2019	Objectionable Deposits	Yes	1	8
W1504	Taunton River	2019	Odor	Effluent (Treated)	1	8
W1504	Taunton River	2019	Odor	Musty (Basement)	1	8
W1504	Taunton River	2019	Odor	None	6	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1504	Taunton River	2019	Periphyton Density, Filamentous	Moderate	1	8
W1504	Taunton River	2019	Periphyton Density, Filamentous	None	3	8
W1504	Taunton River	2019	Periphyton Density, Filamentous	Sparse	2	8
W1504	Taunton River	2019	Periphyton Density, Filamentous	Unobservable	2	8
W1504	Taunton River	2019	Periphyton Density, Film	Moderate	1	8
W1504	Taunton River	2019	Periphyton Density, Film	None	4	8
W1504	Taunton River	2019	Periphyton Density, Film	Sparse	1	8
W1504	Taunton River	2019	Periphyton Density, Film	Unobservable	2	8
W1504	Taunton River	2019	Scum	No	7	8
W1504	Taunton River	2019	Scum	Yes	1	8
W1504	Taunton River	2019	Turbidity	Moderately Turbid	1	8
W1504	Taunton River	2019	Turbidity	None	6	8
W1504	Taunton River	2019	Turbidity	Slightly Turbid	1	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	

The Primary Contact Recreation Use for the Taunton River (MA62-01) continues to be assessed as Not Supporting. The prior *Enterococcus* impairment is being carried forward based on bacteria data exceeding thresholds at 2 stations in 2019. The prior *Escherichia coli* (*E. coli*) impairment is also being carried forward, elevated data at 1 station on one occasion in 2019 is reflective of the existing *Escherichia coli* (*E. coli*) impairment. Additional monitoring for *E. coli* will be recommended. MassDEP, Taunton River Watershed Alliance (TRWA), and USGS staff/volunteers collected *E. coli* (EC) and *Enterococcus* (Ent) bacteria samples in this Taunton River AU from 2019-2021 at 5 stations in Bridgewater/Middleborough. Samples were collected from the following stations/sample years from upstream to downstream: about a quarter of the way down the AU at TRWA_CHE-01-TNT-04 [Cherry St, Bridgewater] in 2019 (Ent n=7), USGS-01108000 [Just upstream of Bedford St, Bridgewater] from 2019-2021 (EC n=4-6/yr), closer to halfway down at TRWA_BED-01-TNT-03 [Rt 18, Bedford St., Bridgewater] in 2019 (Ent n=7), halfway down the AU at W1503 [Green St/Plymouth St bridge, Bridgewater/Middleborough] in 2019 (EC n=6), and close to the downstream end of the AU at W1504 [S St E /Old Colony Ave bridge, Raynham/Taunton] in 2019 (EC n=6). Analysis of the *E. coli* data collected from stations USGS-01108000, W1503 and W1504 were all generally indicative of good water quality conditions (meeting 2024 CALM guidance), however since 1 sample clearly exceeded the 410 CFU/100ml STV at station W1504 (1,120 CFU/100ml). Overall, the data are reflective of the existing *E. coli* impairment for this Taunton River AU. Analysis of the single year moderate frequency *Enterococcus* datasets from TRWA_CHE-01-TNT-04 & TRWA_BED-01-TNT-03 indicated 100% & 66% of intervals had GMs >35 CFU/100ml and 2-3 samples exceeded the 130 CFU/100ml STV (maximum's of 1,250 & 310 CFU respectively). The bacteria data from TRWA_CHE-01-TNT-04 and TRWA_BED-01-TNT-03 are indicative of an *Enterococcus* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1503	MassDEP	Water Quality	Taunton River	[Green Street/Plymouth Street bridge, Bridgewater/Middleborough]	41.936293	-70.987348
W1504	MassDEP	Water Quality	Taunton River	[South Street East /Old Colony Avenue bridge, Raynham/Taunton]	41.886112	-71.029940
TRWA_BED-01-TNT-03	Taunton River Watershed Alliance	Water Quality	Taunton River	Taunton R., Rt 18, Bedford St., Bridgewater	41.936667	-70.965556
TRWA_CHE-01-TNT-04	Taunton River Watershed Alliance	Water Quality	Taunton River	Taunton R. Br, Cherry St., Bridgewater	41.978417	-70.912222
USGS-01108000	USGS Massachusetts Water Science Center	Water Quality	Taunton River	Taunton River Near Bridgewater, MA	41.933990	-70.956431

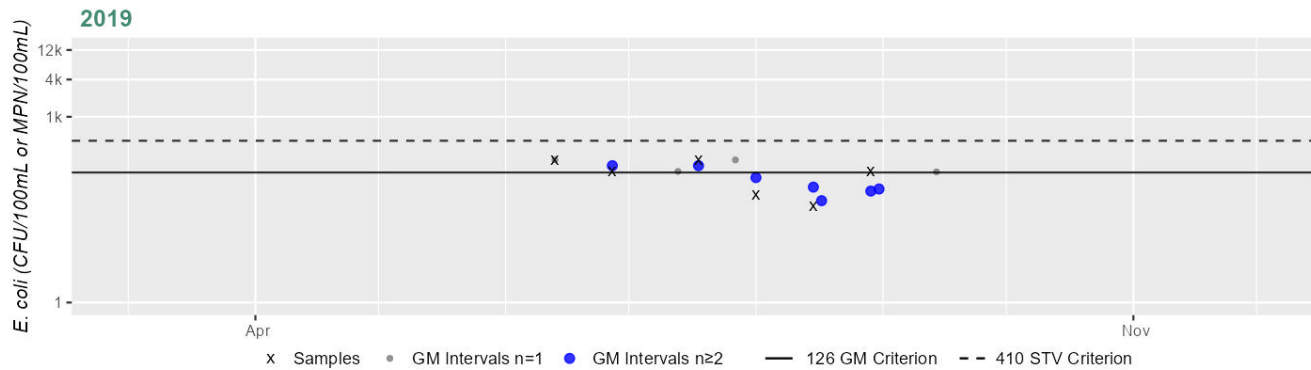
Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (30-day Interval Analysis)
 (MassDEP Undated 9) (MassDEP Undated 5) (TRWA 2020) (MassDEP Undated 3) (USGS 2024) (MassDEP Undated 3)
 [Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1503	MassDEP	E. coli	06/13/19	08/29/19	6	36	201	104
W1504	MassDEP	E. coli	06/13/19	08/29/19	6	34	1120	127
TRWA_BED-01-TNT-03	Taunton River Watershed Association	Enterococcus	04/09/19	10/08/19	7	10	310	51
TRWA_CHE-01-TNT-04	Taunton River Watershed Association	Enterococcus	04/09/19	10/08/19	7	70	1250	155
USGS-01108000	USGS Massachusetts Water Science Center	E. coli	04/16/19	10/15/19	6	53	770	131
USGS-01108000	USGS Massachusetts Water Science Center	E. coli	05/13/20	10/21/20	4	35	140	77
USGS-01108000	USGS Massachusetts Water Science Center	E. coli	04/21/21	10/21/21	6	34	130	51

Station MASSDEP_W1503 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	104
#GMI	7
#GMI Ex	2
%GMI Ex	28%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

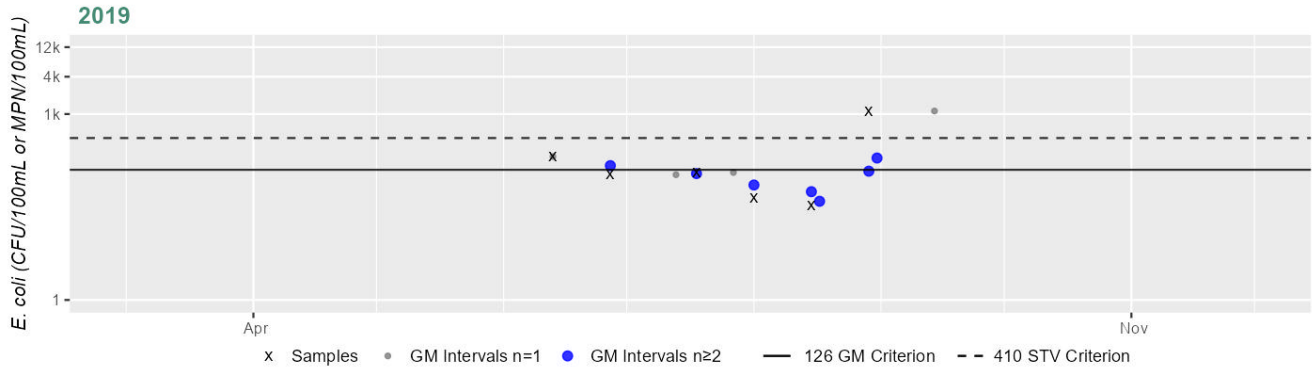
Current (2011-2022)

28%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1504 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



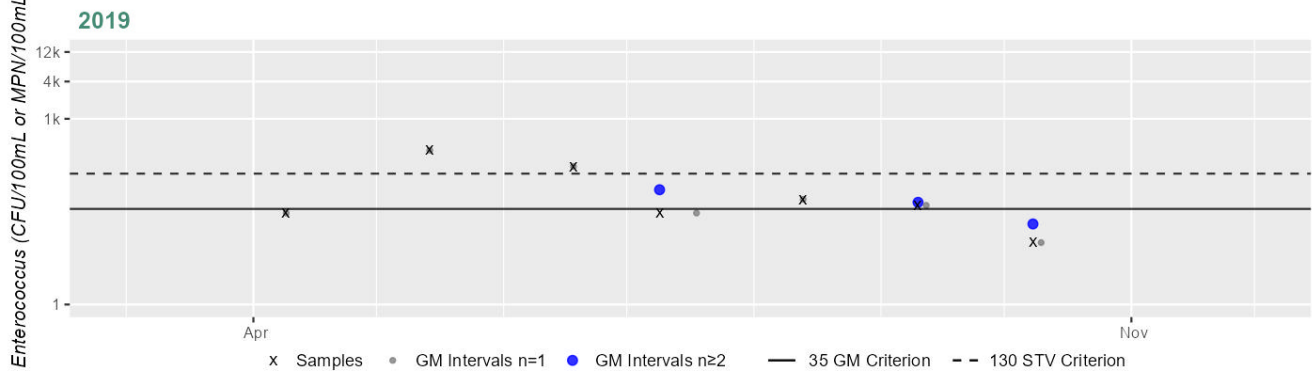
Variable*	Result
Samples	6
SeasGM	127
#GMI	7
#GMI Ex	2
%GMI Ex	28%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
28%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station TRWA_BED-01-TNT-03 - Enterococcus

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



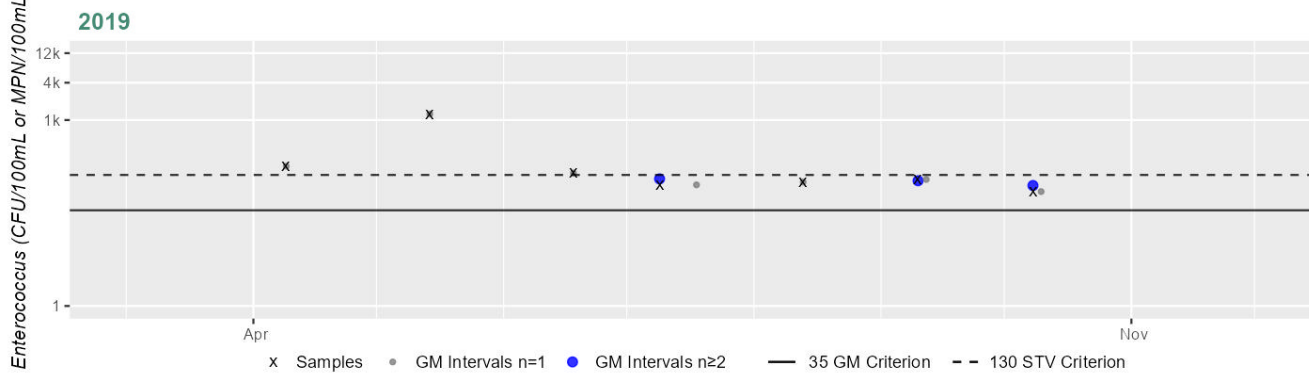
Variable*	Result
Samples	7
SeasGM	51
#GMI	3
#GMI Ex	2
%GMI Ex	66%
n>STV	2
%n>STV	28%

Cumulative %GMI Exceedance
Current (2011-2022)
66%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station TRWA_CHE-01-TNT-04 - Enterococcus

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



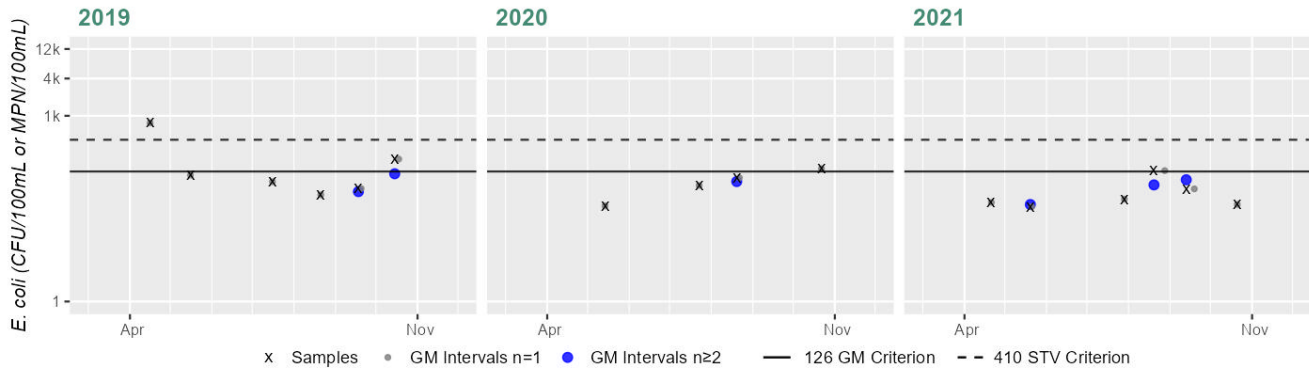
Variable*	Result
Samples	7
SeasGM	155
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	3
%n>STV	42%

Cumulative %GMI Exceedance
 Current (2011-2022)
 100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station USGS-01108000 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	131
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

Variable*	Result
Samples	4
SeasGM	77
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	51
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
 Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for the Taunton River (MA62-01) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected at 3 stations in 2019-2021. MassDEP and USGS staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in this Taunton River AU from 1997-2021 at 4 stations. Samples were collected from the following stations/sample years from upstream to downstream: the upstream end of the AU at W1502 [Plymouth St (Rt. 104) bridge, Bridgewater] from May-Oct 2006 (n=4); closer to halfway down at USGS-01108000 [Just upstream of Bedford St, Bridgewater] in 1997-2002 (historic n=2-5/yr) and 2019-2021 (current n=9-10/yr); halfway down the AU at W1503 [Green St/Plymouth St bridge, Bridgewater/Middleborough] from May-Oct 2006 (historic n=4) and Jun-Aug 2019 (current n=6); and close to the downstream end of the AU at W1504 [South St E /Old Colony Avenue bridge, Raynham/Taunton] from May-Oct 2006 (historic n=4) and Jun-Aug 2019 (current n=6). Since bacteria data from the historic IR window are all indicative of good water quality conditions, only the analysis from the current IR window will be summarized here. Analysis of the multi-year moderate frequency *E. coli* dataset from USGS-01108000 indicated 2 out of 3 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml (2019 and 2020, 28 & 50%), 0 yrs had ≥2 samples exceed the 794 CFU/100ml STV and cumulatively across years 17% of intervals had GMs >244 CFU/100ml. Analysis of the single year limited frequency *E. coli* dataset from W1503 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 104 CFU/100ml. *E. coli* data from W1504 are too limited according to the 2024 CALM to assess the Secondary Contact Recreation Use because this single year, limited frequency dataset included both a GM below the threshold (127 CFU/100ml) and an STV exceedance of the threshold (1,120 CFU/100ml). The bacteria data from USGS-01108000 and W1503 meet 2024 CALM guidance. Overall, the *E. coli* data collected in both the historic & the current IR window for this Taunton River AU are all indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1502	MassDEP	Water Quality	Taunton River	[Plymouth Street (Route 104) bridge, Bridgewater]	41.992589	-70.939765
W1503	MassDEP	Water Quality	Taunton River	[Green Street/Plymouth Street bridge, Bridgewater/Middleborough]	41.936293	-70.987348
W1504	MassDEP	Water Quality	Taunton River	[South Street East /Old Colony Avenue bridge, Raynham/Taunton]	41.886112	-71.029940
USGS-01108000	USGS Massachusetts Water Science Center	Water Quality	Taunton River	Taunton River Near Bridgewater, MA	41.933990	-70.956431

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

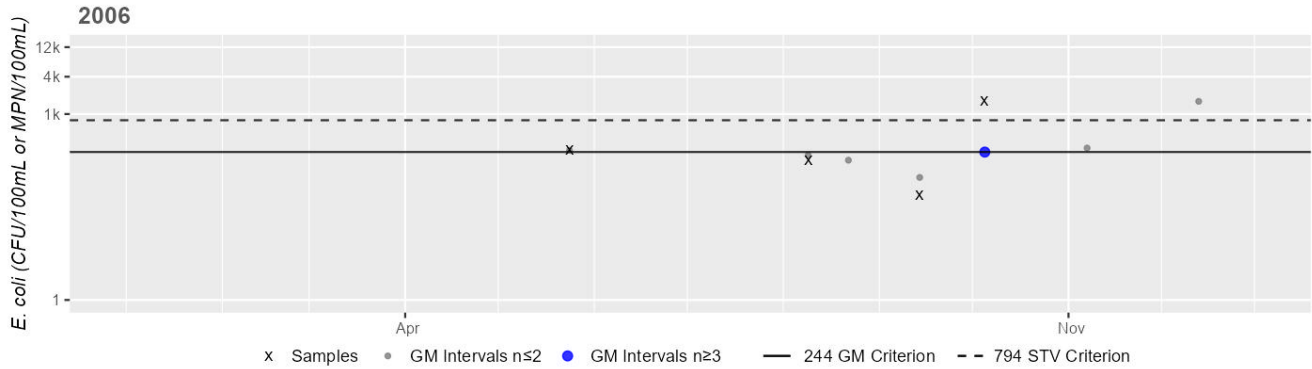
(MassDEP Undated 9) (MassDEP Undated 4) (USGS 2024) (MassDEP Undated 2)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1502	MassDEP	E. coli	05/24/06	10/05/06	4	50	1600	247
W1503	MassDEP	E. coli	05/24/06	10/05/06	4	40	75	53
W1503	MassDEP	E. coli	06/13/19	08/29/19	6	36	201	104
W1504	MassDEP	E. coli	05/24/06	10/05/06	4	25	60	42
W1504	MassDEP	E. coli	06/13/19	08/29/19	6	34	1120	127
USGS-01108000	USGS Massachusetts Water Science Center	E. coli	03/24/97	11/03/97	4	41	2900	186
USGS-01108000	USGS Massachusetts Water Science Center	E. coli	03/16/98	11/16/98	4	40	1300	288
USGS-01108000	USGS Massachusetts Water Science Center	E. coli	08/09/99	11/15/99	2	110	1500	406
USGS-01108000	USGS Massachusetts Water Science Center	E. coli	06/12/00	08/23/00	3	86	870	228
USGS-01108000	USGS Massachusetts Water Science Center	E. coli	04/19/01	12/11/01	5	40	2900	138
USGS-01108000	USGS Massachusetts Water Science Center	E. coli	04/24/02	08/07/02	3	34	300	80
USGS-01108000	USGS Massachusetts Water Science Center	E. coli	01/29/19	12/11/19	10	53	980	172
USGS-01108000	USGS Massachusetts Water Science Center	E. coli	01/14/20	12/08/20	9	35	770	131
USGS-01108000	USGS Massachusetts Water Science Center	E. coli	01/28/21	12/15/21	10	34	200	72

Station MASSDEP_W1502 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



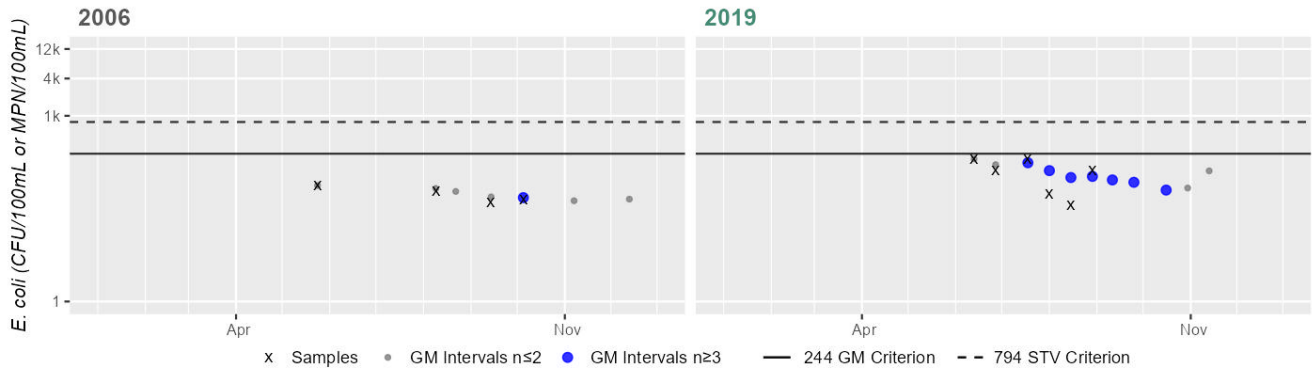
Variable*	Result
Samples	4
SeasGM	247
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	25%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1503 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	53
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

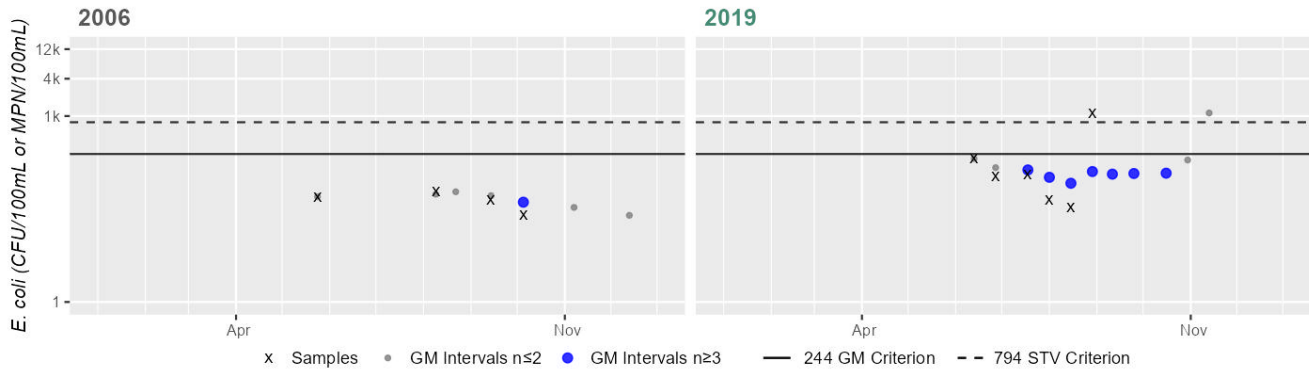
Variable*	Result
Samples	6
SeasGM	104
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1504 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	42
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	127
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

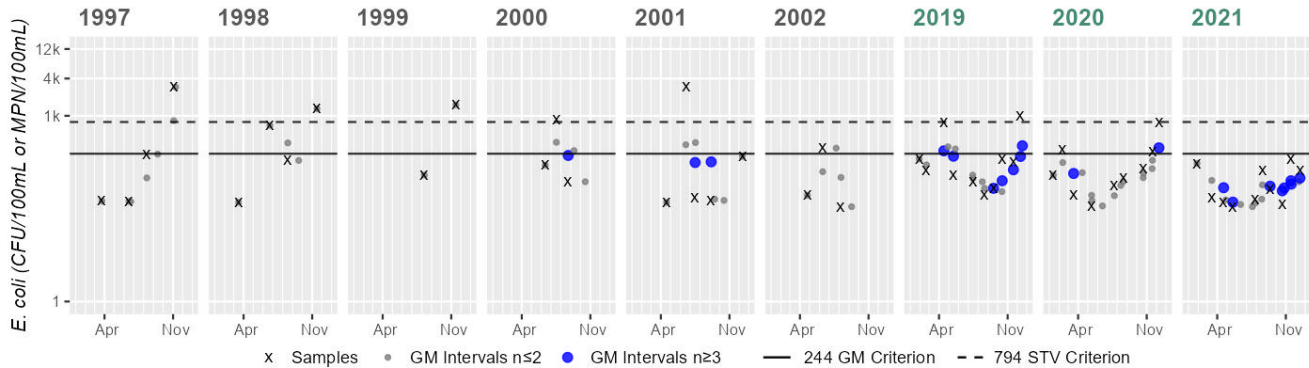
Cumulative %GMI Exceedance
Historic (1997-2010)
0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station USGS-01108000 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	166
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	25%

Variable*	Result
Samples	4
SeasGM	288
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	25%

Variable*	Result
Samples	2
SeasGM	406
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	50%

Variable*	Result
Samples	3
SeasGM	228
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	33%

Variable*	Result
Samples	5
SeasGM	138
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	20%

Variable*	Result
Samples	3
SeasGM	80
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	10
SeasGM	172
#GMI	7
#GMI Ex	2
%GMI Ex	28%
n>STV	1
%n>STV	10%

Variable*	Result
Samples	9
SeasGM	131
#GMI	2
#GMI Ex	1
%GMI Ex	50%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	10
SeasGM	72
#GMI	8
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

Cumulative %GMI Exceedance
Current (2011-2022)
17%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Taunton River (MA62-02)

Location:	From Route 24 bridge, Taunton/Raynham to Berkley Bridge, Dighton/Berkley.
AU Type:	ESTUARY
AU Size:	0.28 SQUARE MILES
Classification/Qualifier:	SB: SFR, CSO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Chlorophyll-a	--	Unchanged
5	5	Enterococcus	40310	Unchanged
5	5	Fecal Coliform	40310	Unchanged
5	5	Nitrogen, Total	--	Unchanged
5	5	Phosphorus, Total	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Chlorophyll-a	Municipal Point Source Discharges (N)	X	--	--	--	--	--
Chlorophyll-a	Source Unknown (N)	X	--	--	--	--	--
Enterococcus	Combined Sewer Overflows (N)	--	--	--	--	X	X
Enterococcus	Source Unknown (N)	--	--	--	--	X	X
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Municipal Point Source Discharges (N)	X	--	--	--	--	--
Nitrogen, Total	Source Unknown (N)	X	--	--	--	--	--
Phosphorus, Total	Municipal Point Source Discharges (N)	X	--	--	--	--	--
Phosphorus, Total	Source Unknown (N)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Taunton River (MA62-02) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Taunton River (MA62-02): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.22 sq mi (78%). The sum of the approved, conditionally approved, and restricted shellfish growing areas represents 0 sq mi (0%). The prohibited shellfish growing area represents 0.22 sq mi (78%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as either entirely prohibited or a combination of prohibited and approved, conditionally approved, and/or restricted. There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use is evaluated as Not Supporting.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
MHB2.1	Taunton River	Prohibited	0.22002	78.4%

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

Too limited data/information are available to evaluate the Aesthetics Use for Taunton River (MA62-02) so it is assessed as having Insufficient Information. MassDEP staff recorded limited aesthetics observations at two stations in Taunton, in the upstream half of this Taunton River AU during the summers of 2014 and 2016, as part of the MassDEP Bacteria Source Tracking (BST) project. The sites were located at Rt. 140 (County St.) (W2495) in 2014 (n=2) and farther downstream at Plain St. (W2658) in 2016 (n=2). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded at either station.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2495	MassDEP	Water Quality	Taunton River	[Route 140 (County Street), Taunton]	41.896816	-71.081473
W2658	MassDEP	Water Quality	Taunton River	[Plain Street, Taunton]	41.886070	-71.089043

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2495	2014	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2495 on Taunton River (MA62-02) during 2 site visits between Jul 2014 and Sep 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted high turbidity (n=1). However, aesthetic observations are limited (n<3).
W2658	2016	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2658 on Taunton River (MA62-02) during 2 site visits between Jun 2016 and Jul 2016. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2495	2014	2	0	0
W2658	2016	2	0	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2495	Taunton River	2014	Aquatic Plant Density, Overall	Moderate	1	2
W2495	Taunton River	2014	Aquatic Plant Density, Overall	Unobservable	1	2
W2495	Taunton River	2014	Color	None	2	2
W2495	Taunton River	2014	Odor	None	2	2
W2495	Taunton River	2014	Periphyton Density, Filamentous	Unobservable	2	2
W2495	Taunton River	2014	Periphyton Density, Film	Unobservable	2	2
W2495	Taunton River	2014	Turbidity	Highly Turbid	1	2
W2495	Taunton River	2014	Turbidity	Slightly Turbid	1	2
W2658	Taunton River	2016	Aquatic Plant Density, Overall	Sparse	1	2
W2658	Taunton River	2016	Aquatic Plant Density, Overall	Unobservable	1	2
W2658	Taunton River	2016	Color	Light Yellow/Tan	1	2
W2658	Taunton River	2016	Color	None	1	2
W2658	Taunton River	2016	Odor	None	2	2
W2658	Taunton River	2016	Periphyton Density, Filamentous	Unobservable	2	2
W2658	Taunton River	2016	Periphyton Density, Film	Unobservable	2	2
W2658	Taunton River	2016	Turbidity	Moderately Turbid	2	2

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Taunton River (MA62-02) continues to be assessed as Not Supporting. The prior *Enterococcus* impairment is being carried forward based on the presence of CSOs and bacteria data exceeding thresholds at Plain St., Taunton in 2019. The shellfish growing areas (0.22 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), so these data were too limited to assess Primary Contact Recreation Use for the Taunton River based on shellfish classification data. There is also a presumptive *Enterococcus* impairment decision in place due to the presence of active CSO outfalls. Taunton River Watershed Alliance (TRWA) staff/volunteers collected *Enterococcus* bacteria samples in this Taunton River AU in 2019 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: almost halfway down the AU at TRWA_TNT-02 [Plain St., Taunton] from Apr-Oct 2019 (n=7) and at the downstream end of the AU at TRWA_TNT-01 [Center St., Berkley] from Apr-Oct 2019 (n=7). Analysis of the single year moderate frequency dataset from TRWA_TNT-02 indicated 66% of intervals had GMs >35 CFU/100ml (with a maximum concentration of 420 CFU/100ml). Analysis of the single year moderate frequency *Enterococcus* dataset from TRWA_TNT-01 indicated 33% of intervals had GMs >35 CFU/100ml and 2 samples exceeded the 130 CFU/100ml STV (maximum 190 CFU). *Enterococcus* data from TRWA_TNT-02 are indicative of an *Enterococcus* impairment and while *Enterococcus* data from TRWA_TNT-01 meets 2024 CALM guidance, it is indicative of an Alert status which is also reflective of the existing impairment. Surface water sampling was conducted by the USGS upstream and downstream of the Taunton WWTF discharge on the Taunton River at station USGS_01108414 and USGS_01108415 on three dates during August to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study). MassDEP staff also conducted additional intermittent sampling in the Taunton River as part of the Bacteria Source Tracking (BST) project in 2012-2016. The project lab analysis was for *E. coli* which cannot be used for assessment purposes on this estuarine AU, but it is worth noting that BST work was conducted in 2012 and 2014 on two unnamed tributaries and while no correctable source was ever found on the tributaries, the highest concentrations were suspected to be associated with an adjacent dog park area. BST work was also conducted at two storm drain outfall pipes discharging directly to this Taunton River AU. A source to an outfall just upstream of the Plain St. bridge was found and later corrected in 2017 and sources to a pipe a few hundred feet upstream of Plain St. were found and later corrected by the end of 2017. However, in 2018 elevated bacteria concentrations were again documented and human marker analysis in 2018 (of a sample from this second outfall) indicated a “weak” human source, but no additional correctable source has yet been identified.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
TRWA_TNT-01	Taunton River Watershed Alliance	Water Quality	Taunton River	Taunton R. Br, Center St., Berkley	41.834926	-71.108184

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
TRWA_TNT-02	Taunton River Watershed Alliance	Water Quality	Taunton River	Taunton R. Br, Plain St., Taunton	41.886060	-71.089077
USGS-01108414	USGS Massachusetts Water Science Center	Water Quality	Taunton River	TAUNTON RIVER UPSTREAM, TAUNTON, MA; upstream of Taunton WWTF	41.878000	-71.093000
USGS-01108415	USGS Massachusetts Water Science Center	Water Quality	Taunton River	TAUNTON RIVER DOWNSTREAM, TAUNTON, MA; downstream of Taunton WWTF	41.872000	-71.103000

Bacteria Data

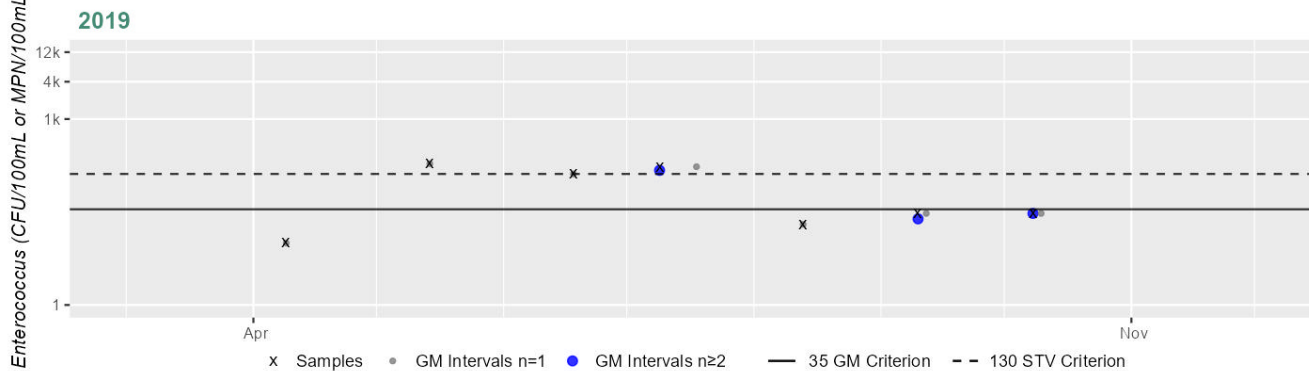
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (30-day Interval Analysis) (TRWA 2020) (MassDEP Undated 3)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
TRWA_TNT-01	Taunton River Watershed Association	Enterococcus	04/09/19	10/08/19	7	10	190	49
TRWA_TNT-02	Taunton River Watershed Association	Enterococcus	04/09/19	10/08/19	7	10	420	72

Station TRWA_TNT-01 - Enterococcus

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	7
SeasGM	49
#GMI	3
#GMI Ex	1
%GMI Ex	33%
n>STV	2
%n>STV	28%

Cumulative %GMI Exceedance

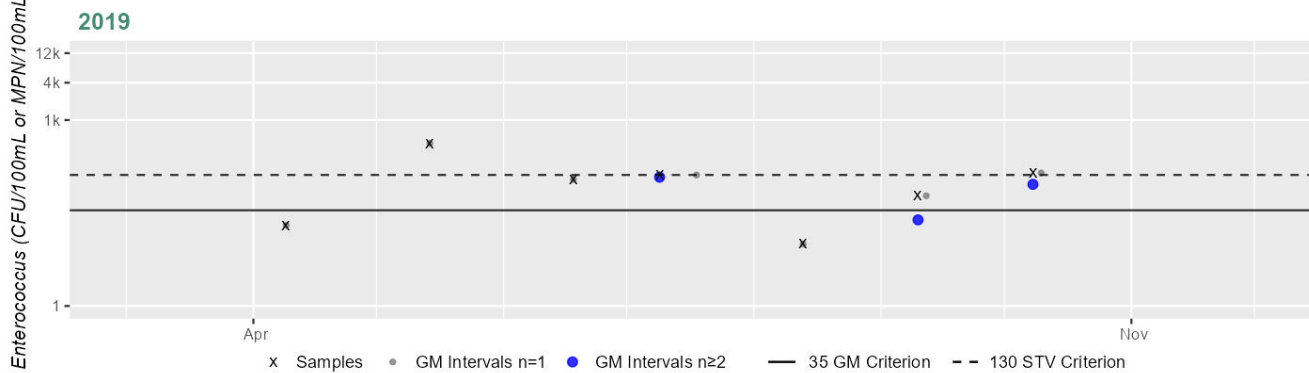
Current (2011-2022)

33%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station TRWA_TNT-02 - Enterococcus

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	7
SeasGM	72
#GMI	3
#GMI Ex	2
%GMI Ex	66%
n>STV	2
%n>STV	28%

Cumulative %GMI Exceedance
Current (2011-2022)
66%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Summary Statement for 2011-2019 MassDEP Bacteria Source Tracking (BST) Data (MassDEP Undated 1)

Summary

BST work was conducted in 2012-2016 at 3 sites along the Taunton River AU (MA62-02), with *E. coli* concentrations ranging 21 to 345MPN. BST work was also conducted in 2012 & 2014 on 2 unnamed tributaries with a max *E. coli* concentration of 1,120MPN. No correctable source was ever found on the tributaries, though the highest concentrations were suspected to be associated with an adjacent dog park area. BST work was also conducted at 2 storm drain outfall pipes discharging directly to the Taunton River: At a pipe just upstream of the Plain Street bridge, dry weather flow was sampled in 2016 & 2017, with a max *E. coli* concentration of >24,196MPN. The City of Taunton narrowed down the location of the source of bacteria to drainage on First Street (which originated from the City-wide underdrain). The City subsequently corrected this source in 2017 by abandoning the underdrain in place (no follow up samples have yet been taken). At a pipe a few hundred feet upstream of Plain St, dry weather flow was sampled in 2016-2018, with a max *E. coli* concentration of 51,720MPN in 2016. The City identified 2 sources of bacteria: a "direct connection" from a nearby house on Ingell St to the drain (through the basement) and also a sewer line break on Ingell St. Both sources were corrected by the end of 2017, however in 2018 a max *E. coli* concentration of >24,196MPN was noted at the pipe. Human marker analysis in 2018 was indicative of a "weak" human source, but no additional correctable source has been found yet.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated

6)

Summary
Taunton River (MA62-02): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.22 sq mi (78%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Other Indicators

Summary Statement(s) for USGS 2020 PFAS in Water Column Data (Savoie and Argue 2023) (MassDEP Undated 3)

Summary
Surface water sampling was conducted by the USGS upstream of the Taunton WWTF discharge on the Taunton River (MA62-02) at station USGS_01108414 on three dates during August to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).
Surface water sampling was conducted by the USGS downstream of the Taunton WWTF discharge on the Taunton River (MA62-02) at station USGS_01108415 on three dates during August to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).

USGS 2020 PFAS in Water Column Data Collected Upstream and Downstream of Wastewater Treatment Facilities (Savoie and Argue 2023) (MassDEP Undated 3)

[The ΣPFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here). * indicates the ΣPFAS6 concentration is qualified since data for one or more individual PFAS6 analytes were qualified. A concentration with a "<" was less than the reporting detection limit (RDL) and the RDL was used to calculate the ΣPFAS6. E = qualifier "value is estimated"; V = qualifier "value affected by field or laboratory contamination"]

Station Code	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	ΣPFAS6 ng/L
USGS-01108414	8/26/2020	6.97	6.36	E1.08	2.54	6.24	10.6	20.6*
USGS-01108414	9/17/2020	7.54	E5.85	E1.12	2.94	4.96	9.91	21.4*
USGS-01108414	10/15/2020	E8.04	E5.43	E1.1	2.7	6.16	13.3	21.7*
USGS-01108415	8/26/2020	7.24	6.34	E1.25	2.77	6.52	11.4	21.8*
USGS-01108415	9/17/2020	8.08	E6.14	E1.14	2.7	5.7	10.2	22.1*
USGS-01108415	10/15/2020	E8.6	E5.47	E1.2	2.76	6.32	14	22.7*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	

The Secondary Contact Recreation Use for the Taunton River (MA62-02) continues to be assessed as Not Supporting. The prior *Enterococcus* impairment is being carried forward based on the presence of CSOs. The shellfish growing areas (0.22 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), so these data were too limited to assess Secondary Contact Recreation Use for Taunton River based on shellfish classification data. However, there is a presumptive *Enterococcus* impairment decision in place due to the presence of active CSO outfalls. Taunton River Watershed Alliance (TRWA) staff/volunteers collected *Enterococcus* bacteria samples in the Taunton River in 2019 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: almost halfway down the AU at TRWA_TNT-02 [Plain St., Taunton] from Apr-Oct 2019 (n=7) and at the downstream end of the AU at TRWA_TNT-01 [Center St., Berkley] from Apr-Oct 2019 (n=7). Analysis of the single year moderate frequency *Enterococcus* dataset from TRWA_TNT-02 indicated 33% of intervals had GMs >68 CFU/100ml but only 1 sample exceeded the 252 CFU/100ml STV. Analysis of the single year moderate frequency *Enterococcus* dataset from TRWA_TNT-01 indicated 33% of intervals had GMs >68 CFU/100ml and no samples exceeded the 252 CFU/100ml STV. *Enterococcus* data from TRWA_TNT-01 and TRWA_TNT-02 meet 2024 CALM guidance.

MassDEP staff also conducted additional intermittent sampling in the Taunton River as part of the Bacteria Source Tracking (BST) project in 2012-2016. The project lab analysis was for *E. coli* which cannot be used for assessment purposes on this estuarine AU, but it is worth noting that BST work was conducted in 2012 and 2014 on two unnamed tributaries and while no correctable source was ever found on the tributaries, the highest concentrations were suspected to be associated with an adjacent dog park area. BST work was also conducted at two storm drain outfall pipes discharging directly to this Taunton River AU. A source to an outfall just upstream of the Plain St. bridge was found and later corrected in 2017 and sources to a pipe a few hundred feet upstream of Plain St. were found and later corrected by the end of 2017. However, in 2018 elevated bacteria concentrations were again documented and human marker analysis in 2018 (of a sample from this second outfall) indicated a “weak” human source, but no additional correctable source has yet been identified.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
TRWA_TNT-01	Taunton River Watershed Alliance	Water Quality	Taunton River	Taunton R. Br, Center St., Berkley	41.834926	-71.108184
TRWA_TNT-02	Taunton River Watershed Alliance	Water Quality	Taunton River	Taunton R. Br, Plain St., Taunton	41.886060	-71.089077

Bacteria Data

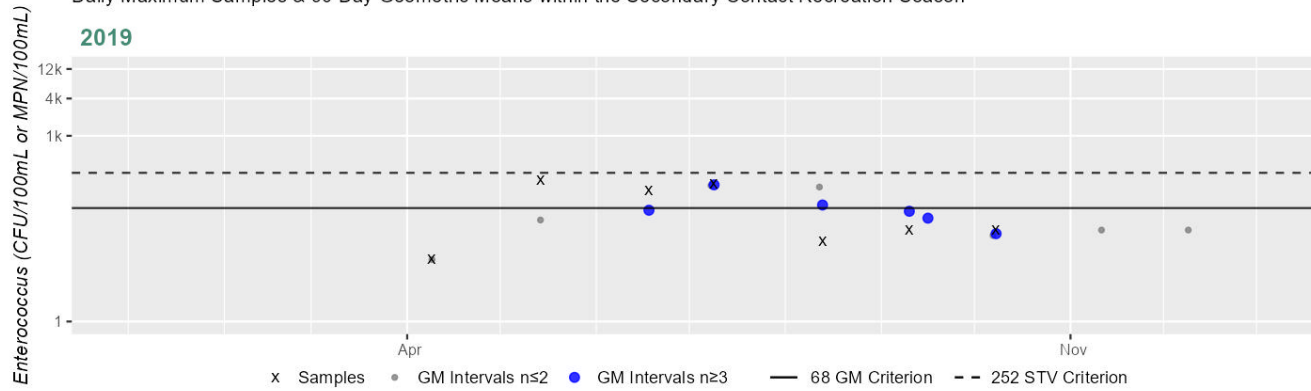
Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)
 (TRWA 2020) (MassDEP Undated 2)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
TRWA_TNT-01	Taunton River Watershed Association	Enterococci	04/09/19	10/08/19	7	10	190	49
TRWA_TNT-02	Taunton River Watershed Association	Enterococci	04/09/19	10/08/19	7	10	420	72

Station TRWA_TNT-01 - Enterococcus

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	7
SeasGM	49
#GMI	6
#GMI Ex	2
%GMI Ex	33%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

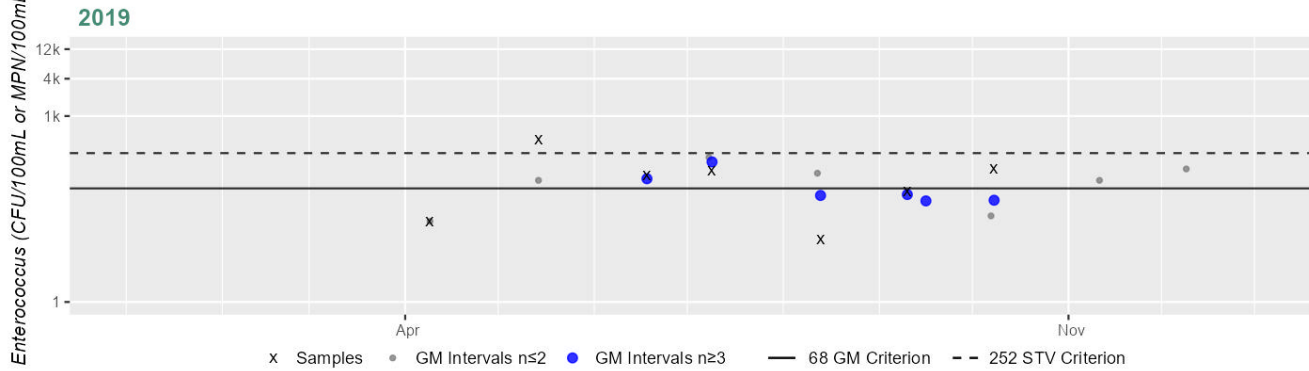
Current (2011-2022)

33%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station TRWA_TNT-02 - Enterococcus

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	7
SeasGM	72
#GMI	6
#GMI Ex	2
%GMI Ex	33%
n>STV	1
%n>STV	14%

Cumulative %GMI Exceedance
Current (2011-2022)
33%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary

Taunton River (MA62-02): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.22 sq mi (78%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Taunton River (MA62-03)

Location:	From Berkley Bridge, Dighton/Berkley to confluence with Assonet River at a line from Sandy Point, Somerset northeasterly to the southwestern tip of Assonet Neck, Berkley.
AU Type:	ESTUARY
AU Size:	0.92 SQUARE MILES
Classification/Qualifier:	SB: SFR, CSO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Dissolved Oxygen	--	Unchanged
5	5	Enterococcus	40310	Changed
5	5	Fecal Coliform	40310	Unchanged
5	5	Nitrogen, Total	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Dissolved Oxygen	Contribution from Downstream Waters Due to Tidal Action (N)	X	--	--	--	--	--
Dissolved Oxygen	Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO) (N)	X	--	--	--	--	--
Enterococcus	Combined Sewer Overflows (N)	--	--	--	--	X	X
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Nitrogen, Total	Contribution from Downstream Waters Due to Tidal Action (N)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Municipal Point Source Discharges (N)	X	--	--	--	--	--
Nitrogen, Total	Source Unknown (N)	X	--	--	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Enterococcus	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Final Pathogen TMDL for the Taunton River Watershed (Report CN 256.0, approved 6/16/2011, ATTAINS Action ID: 40310)

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Taunton River (MA62-03) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

Taunton River (MA62-03): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.9119 sq mi (99%). The sum of the approved, conditionally approved, and restricted shellfish growing areas represents 0.3277 sq mi (35%). The prohibited shellfish growing area represents 0.5842 sq mi (63%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as either entirely prohibited or a combination of prohibited and approved, conditionally approved, and/or restricted. There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use is evaluated as Not Supporting.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
MHB2.0	Taunton River	Restricted	0.32767	35.4%
MHB2.1	Taunton River	Prohibited	0.58411	63.2%
MHB2.2	Assonet River	Prohibited	0.00011	0.0%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Taunton River (MA62-03) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for the Taunton River (MA62-03) continues to be assessed as Not Supporting. The prior <i>Enterococcus</i> impairment is being carried forward based on the presence of CSOs. The shellfish growing areas (0.9119 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), so these data were too limited to assess Primary Contact Recreation Use for Taunton River based on shellfish classification data. However, there is a presumptive <i>Enterococcus</i> impairment decision in place due to the presence of active CSO outfalls.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Taunton River (MA62-03): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.9119 sq mi (99%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for the Taunton River (MA62-03) continues to be assessed as Not Supporting. The prior <i>Enterococcus</i> impairment is being carried forward based on the presence of CSOs. The shellfish growing areas (0.9119 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), so these data were too limited to assess Secondary Contact Recreation Use for Taunton River based on shellfish classification data. There is a presumptive <i>Enterococcus</i> impairment decision in place due to the presence of active CSO outfalls.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Taunton River (MA62-03): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.9119 sq mi (99%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Taunton River (MA62-04)

Location:	From confluence with Assonet River at a line from Sandy Point, Somerset northeasterly to the southwestern tip of Assonet Neck, Berkley to mouth just upstream of the Braga Bridge, Somerset/Fall River.
AU Type:	ESTUARY
AU Size:	2.6 SQUARE MILES
Classification/Qualifier:	SB: SFR, CSO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Dissolved Oxygen	--	Unchanged
5	5	Enterococcus	40310	Unchanged
5	5	Fecal Coliform	40310	Unchanged
5	5	Fish Bioassessments	--	Unchanged
5	5	Nitrogen, Total	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Dissolved Oxygen	Contribution from Downstream Waters Due to Tidal Action (N)	X	--	--	--	--	--
Dissolved Oxygen	Wet Weather Discharges (Point Source and Combination of Stormwater, SSO or CSO) (Y)	X	--	--	--	--	--
Enterococcus	Combined Sewer Overflows (N)	--	--	--	--	X	X
Enterococcus	Source Unknown (N)	--	--	--	--	X	X
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--
Fish Bioassessments	Source Unknown (N)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Nitrogen, Total	Contribution from Downstream Waters Due to Tidal Action (N)	X	--	--	--	--	--
Nitrogen, Total	Municipal Point Source Discharges (N)	X	--	--	--	--	--
Nitrogen, Total	Source Unknown (N)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Taunton River (MA62-04) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Taunton River (MA62-04): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 2.5804 sq mi (99%). The sum of the approved, conditionally approved, and restricted shellfish growing areas represents 1.6273 sq mi (63%). The prohibited shellfish growing area represents 0.9531 sq mi (37%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as either entirely prohibited or a combination of prohibited and approved, conditionally approved, and/or restricted. There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use is evaluated as Not Supporting.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
MHB2.0	Taunton River	Restricted	1.62733	62.6%
MHB2.2	Assonet River	Prohibited	0.01219	0.5%
MHB2.3	Taunton River	Prohibited	0.94089	36.2%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Taunton River (MA62-04) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for the Taunton River (MA62-04) continues to be assessed as Not Supporting. The prior <i>Enterococcus</i> impairment is being carried forward based on the presence of CSOs, with the closure of one beach in 2021 and 2014 being reflective of this existing impairment. Taunton River has a beach with MDPH Beach Closure data: Pierce Beach in Somerset [Beach ID: 3138]. Pierce Beach was posted for >10% of the swimming season in 2021 (42%) and in 2014 (45%), although all the other years (including 2022) were posted for less than 10% of the season. The shellfish growing areas (2.5804 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), so these data were too limited to assess Primary Contact Recreation Use for Taunton River based on shellfish classification data. However, there is a presumptive <i>Enterococcus</i> impairment decision in place due to the presence of CSO outfalls. Bacteria Source Tracking (BST) work was conducted by MassDEP staff from 2015-2016 on a tributary to this Taunton River AU. The tributary (locally known as Labor-in-vain creek) discharges to the upstream end of the AU at Pierces Beach. The data pattern suggested that a source of bacteria was in the marsh area upstream of South St. The Town of Somerset investigated but no human sources were ever pinpointed. In 2016, human marker analysis (just downstream of the marsh) indicated "inconclusive" evidence of a human source. No correctable source was ever found.</p>

Bacteria Data

Summary Statement for 2011-2019 MassDEP Bacteria Source Tracking (BST) Data (MassDEP Undated 1)

Summary

BST work was conducted from 2015-2016 at 1 tributary to the Taunton River AU (MA62-04). The tributary (locally known as Labor-in-vain creek) discharges to the upstream end of the AU at Pierces Beach. The Department of Public Health (DPH) had highlighted this beach as a priority for BST due to numerous dry weather beach closures at Pierces beach. *E. coli* concentrations in the tributary ranged 35 to 2,755MPN. The data pattern suggested that the source of the bacteria was in the marsh area upstream South St. The Town of Somerset investigated but no human sources were ever pinpointed. In 2016, human marker analysis (just downstream of the marsh) indicated "inconclusive" evidence of a human source. No correctable source was ever found.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
3138	Pierce Beach/ Somerset	41.76427, -71.13430	41.76444, -71.13060	45%	7%	0%	2%	9%	0%	0%	42%	0%	2

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary

Taunton River (MA62-04): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 2.5804 sq mi (99%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for the Taunton River (MA62-04) continues to be assessed as Not Supporting. The prior *Enterococcus* impairment is being carried forward based on the presence of CSOs. Taunton River has a beach with MDPH Beach Closure data: Pierce Beach in Somerset [Beach ID: 3138]. Pierce Beach was posted for >10% of the swimming season in 2021 (42%) and in 2014 (45%), although all the other years (including 2022) were posted for less than 10% of the season. The shellfish growing areas (2.5804 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), so these data were too limited to assess Secondary Contact Recreation Use for Taunton River based on shellfish classification data. However, there is a presumptive *Enterococcus* impairment decision in place due to the presence of CSO outfalls. Bacteria Source Tracking (BST) work was conducted by MassDEP staff from 2015-2016 on a tributary to this Taunton River AU. The tributary (locally known as Labor-in-vain creek) discharges to the upstream end of the AU at Pierces Beach. The data pattern suggested that a source of bacteria was in the marsh area upstream of South St. The Town of Somerset investigated but no human sources were ever pinpointed. In 2016, human marker analysis (just downstream of the marsh) indicated "inconclusive" evidence of a human source. No correctable source was ever found.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary

Taunton River (MA62-04): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 2.5804 sq mi (99%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

The Creek (MA62-76)

Location:	Headwaters northwest of Riverside Avenue, Somerset to mouth at confluence with the Taunton River, Somerset.
AU Type:	ESTUARY
AU Size:	0.01 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Fecal Coliform	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for The Creek (MA62-76) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Creek (MA62-76): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0057 sq mi (67%). The approved shellfish growing area represents 0 sq mi (0%). The Shellfish Harvesting Use is assessed as Not Supporting because the growing area (normalized to the AU area) is < 100% approved. Based on the new growing area classifications and the prior classifications, the existing Fecal Coliform impairment is being retained.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
MHB2.0	Taunton River	Restricted	0.00570	66.7%

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
There is Insufficient Information to assess the Aesthetics Use for The Creek (MA62-76). MassDEP staff recorded limited aesthetics observations at two stations on The Creek during the summer of 2015 as part of the MassDEP Bacteria Source Tracking (BST) project; halfway down the AU on South St. in Somerset (W2584, n=2) and at the downstream end of the AU ~85 ft upstream of the mouth at its confluence with the Taunton River in Somerset (W2585, n=1). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded during the surveys.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2584	MassDEP	Water Quality	The Creek	[South Street, Somerset]	41.767388	-71.134137
W2585	MassDEP	Water Quality	The Creek	[approximately 85 feet upstream of mouth at confluence with the Taunton River, Somerset]	41.764318	-71.134629

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2584	2015	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2584 on The Creek (MA62-76) during 2 site visits in Sep 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2585	2015	1	Aesthetic observations were made by MassDEP field sampling crews at Station W2585 on The Creek (MA62-76) during 1 site visit on Sep 17, 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2584	2015	2	2	0
W2585	2015	1	0	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2584	The Creek	2015	Aquatic Plant Density, Overall	None	2	2
W2584	The Creek	2015	Color	None	2	2
W2584	The Creek	2015	Odor	None	2	2
W2584	The Creek	2015	Periphyton Density, Filamentous	None	2	2
W2584	The Creek	2015	Periphyton Density, Film	Sparse	2	2
W2584	The Creek	2015	Turbidity	Moderately Turbid	2	2
W2585	The Creek	2015	Aquatic Plant Density, Overall	Unobservable	1	1
W2585	The Creek	2015	Color	None	1	1
W2585	The Creek	2015	Odor	None	1	1
W2585	The Creek	2015	Periphyton Density, Filamentous	Unobservable	1	1
W2585	The Creek	2015	Periphyton Density, Film	Unobservable	1	1
W2585	The Creek	2015	Turbidity	Moderately Turbid	1	1

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

No bacteria data are available to assess the Primary Contact Recreation Use for The Creek (MA62-76) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. The shellfish growing areas (0.0057 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), so these data were too limited to assess Primary Contact Recreation Use based on shellfish classification data.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary

The Creek (MA62-76): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0057 sq mi (67%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

No bacteria data are available to assess the Secondary Contact Recreation Use for The Creek (MA62-76) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. The shellfish growing areas (0.0057 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), so these data were too limited to assess Secondary Contact Recreation Use based on shellfish classification data.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary

The Creek (MA62-76): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0057 sq mi (67%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

The Reservoir (MA62189)

Location:	Lakeville.
AU Type:	FRESHWATER LAKE
AU Size:	23 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for The Reservoir (MA62189) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Thirtyacre Pond (MA62190)

Location:	Brockton.
AU Type:	FRESHWATER LAKE
AU Size:	26 ACRES
Classification/Qualifier:	B

No usable data were available for Thirtyacre Pond (MA62190) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fanwort*)	--	Unchanged

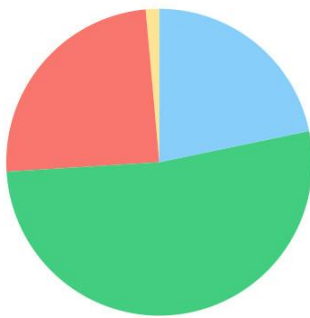
Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Threemile River (MA62-56)

Location:	Confluence of Wading and Rumford rivers, Norton to dam (NATID: MA03083) behind 66 South Street (Harodite Finishing Co.), Taunton (excluding the approximately 0.5 mile through Oakland Pond segment MA62136 and the approximately 1.0 mile through Mount Hope Mill Pond segment MA62122) (formerly part of 2004 segment: Three Mile River MA62-16).
AU Type:	RIVER
AU Size:	10.5 MILES
Classification/Qualifier:	B: WWF

Threemile River (MA62-56)

Watershed Area: 85.01 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	85.00	5.45	32.10	1.96
Agriculture	1.4%	3.3%	1.2%	3.5%
Developed	24.6%	22.2%	17.3%	13.6%
Natural	52.3%	54.1%	51.7%	48.7%
Wetland	21.7%	20.4%	29.8%	34.2%
Impervious	11.8%	10.2%	8%	7.1%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	4a	(Fish Passage Barrier*)	--	Unchanged
5	4a	Enterococcus	40308	Changed
5	4a	Escherichia Coli (E. Coli)	40308	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--
Enterococcus	Source Unknown (N)	--	--	--	X	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Enterococcus	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Final Pathogen TMDL for the Taunton River Watershed (Report CN 256.0, approved 6/16/2011, ATTAINS Action ID: 40308)

Recommendations

2024/26 Recommendations
<p>2001IR [Odor, Low] An Alert was previously issued in 2001 due to sewage odor near the Harvey St. crossing {W0821}. This issue was confirmed by observations of effluent odors in 2019 near Harvey St. {W0821} and Cohannet St. {W1508}. In 2019 field staff noted effluent odor on three occasions in the Norton Ave (near Harvey St.) area and on two occasions in the Cohannet St. area. It is recommended that additional visits be made to this Threemile River AU (MA62-56), in particular these two sites, to confirm the source of the odors and if the odor is in the water or the air. The effluent location for: MAG590043-001-MFN Regional Wastewater District, is located just downstream of Crane Street i.e. not far from Harvey Street. This is of low priority;</p> <p>2024/26IR [Bacteria, Low] It is recommended that additional high frequency <i>E. coli</i> data be collected for this Threemile River AU (MA62-56) in particular at Crane St {W2835} & Norton Ave {W0821} to confirm if the Secondary Contact Recreation Use should be impaired for <i>E. coli</i>. Single year low frequency data collected in 2019 at these two stations suggest there could be an issue. The Primary Contact Recreation Use is already impaired for <i>E. coli</i>. This is of low priority.</p>

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary

Fish toxics sampling has not been conducted, so the Fish Consumption Use for Threemile River (MA62-56) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary

The Aesthetics Use for this Threemile River AU (MA62-56) continues to be assessed as Fully Supporting based on the lack of observed objectionable conditions during the summers of 2011 & 2017. The prior Alert issued due to sewage odor near the Harvey St crossing (MassDEP 2005) is being carried forward, confirmed by observations of effluent odors in 2019 near Harvey St and Cohannet St. MassDEP staff recorded aesthetics observations at nine sites in Norton/Taunton/Dighton throughout this Threemile River AU, during the summers of 2011 & 2017 as part of the Bacteria Source Tracking project and for selected monitoring during the summer of 2019. The station descriptions from upstream to downstream are as follows: near the upstream end of the AU at Crane St, Norton (W2835, n=8 in 2019), Norton Ave near Harvey St (W0821, n=2 in 2017 and n=8 in 2019); southwest from the west end of Country Way, ~1/2 mile downstream from Norton Ave (W2742, n=2 in 2017); farther downstream on Tremont St (Rt. 140) (W2743, n=2 in 2017); Cohannet St bridge (W1508, n=8 in 2019), ~1200 ft upstream from Warner/Joseph E. Warner Blvd (W2306, n=2 in 2011); at Warner/Joseph E. Warner Blvd (W2307, n=2 in 2011); at South St/Spring St (W2309, n=3 in 2011) and right at the downstream end of the AU upstream of Spring St Dighton (W2308, n=3 in 2011). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded at any station during the surveys, though in 2019 field staff noted effluent odor on three occasions in the Norton Ave (near Harvey St) area (W0821) and on two occasions in the Cohannet St area (W1508).

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0821	MassDEP	Water Quality	Threemile River	[Norton Avenue (near Harvey Street), Taunton]	41.933320	-71.154267
W1508	MassDEP	Water Quality	Threemile River	[Cohannet Street bridge, Taunton]	41.885905	-71.134117
W2306	MassDEP	Water Quality	Threemile River	[approximately 1200 feet upstream from Warren Boulevard/Joseph E Warner Boulevard, Dighton/Taunton (on south bank at decrepit footbridge downstream of Three Mile River Dam, National Id MA01170)]	41.867736	-71.129091
W2307	MassDEP	Water Quality	Threemile River	[Warner Boulevard/Joseph E Warren Boulevard, Dighton/Taunton]	41.866890	-71.125192
W2308	MassDEP	Water Quality	Threemile River	[upstream at Spring Street , Dighton (river braid does not appear on USGS 1985 Assonet quadrangle)]	41.864590	-71.122284

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2309	MassDEP	Water Quality	Threemile River	[downstream at South Street/Spring Street, Taunton/Dighton]	41.864362	-71.121382
W2742	MassDEP	Water Quality	Threemile River	[southwest from western end of Country Way, approximately 1/2 mile downstream from Norton Avenue, Taunton]	41.927222	-71.150784
W2743	MassDEP	Water Quality	Threemile River	[Tremont Street (Route 140), Taunton]	41.910206	-71.128830
W2835	MassDEP	Water Quality	Threemile River	[Crane Street, Norton]	41.946818	-71.160671

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W0821	2017	2	Aesthetic observations were made by MassDEP field sampling crews at Station W0821 on Threemile River (MA62-56) during 2 site visits between Aug 2017 and Sep 2017. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W0821	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W0821 on Threemile River (MA62-56) during 8 site visits between May 2019 and Sep 2019. There were some objectionable conditions recorded, including effluent odor (n=3). Field staff also noted high turbidity (n=1). These conditions are indicative of an Alert status.
W1508	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W1508 on Threemile River (MA62-56) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted effluent odor (n=2).
W2306	2011	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2306 on Threemile River (MA62-56) during 2 site visits between Jun 2011 and Aug 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2307	2011	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2307 on Threemile River (MA62-56) during 2 site visits between Jun 2011 and Aug 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2308	2011	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2308 on Threemile River (MA62-56) during 3 site visits between Jun 2011 and Oct 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2309	2011	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2309 on Threemile River (MA62-56) during 3 site visits between Jun 2011 and Oct 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2742	2017	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2742 on Threemile River (MA62-56) during 2 site visits between Aug 2017 and Sep 2017. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2743	2017	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2743 on Threemile River (MA62-56) during 2 site visits between Aug 2017 and Sep 2017. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2835	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2835 on Threemile River (MA62-56) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W0821	2017	2	2	0
W0821	2019	8	5	0
W1508	2019	8	5	0
W2306	2011	2	1	0
W2307	2011	2	1	0
W2308	2011	3	2	0
W2309	2011	3	1	0
W2742	2017	2	0	0
W2743	2017	2	2	0
W2835	2019	8	4	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0821	Threemile River	2017	Aquatic Plant Density, Overall	None	2	2
W0821	Threemile River	2017	Color	None	2	2
W0821	Threemile River	2017	Odor	None	2	2
W0821	Threemile River	2017	Periphyton Density, Filamentous	None	2	2
W0821	Threemile River	2017	Periphyton Density, Film	Moderate	1	2
W0821	Threemile River	2017	Periphyton Density, Film	Sparse	1	2
W0821	Threemile River	2017	Turbidity	Moderately Turbid	1	2
W0821	Threemile River	2017	Turbidity	Slightly Turbid	1	2
W0821	Threemile River	2019	Aesthetics Impaired?	No	8	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0821	Threemile River	2019	Aquatic Plant Density, Overall	None	3	8
W0821	Threemile River	2019	Aquatic Plant Density, Overall	NR	1	8
W0821	Threemile River	2019	Aquatic Plant Density, Overall	Sparse	1	8
W0821	Threemile River	2019	Aquatic Plant Density, Overall	Unobservable	3	8
W0821	Threemile River	2019	Color	Light Yellow/Tan	6	8
W0821	Threemile River	2019	Color	None	2	8
W0821	Threemile River	2019	Objectionable Deposits	No	7	8
W0821	Threemile River	2019	Objectionable Deposits	Yes	1	8
W0821	Threemile River	2019	Odor	Effluent (Treated)	3	8
W0821	Threemile River	2019	Odor	None	5	8
W0821	Threemile River	2019	Periphyton Density, Filamentous	None	4	8
W0821	Threemile River	2019	Periphyton Density, Filamentous	Unobservable	4	8
W0821	Threemile River	2019	Periphyton Density, Film	None	2	8
W0821	Threemile River	2019	Periphyton Density, Film	Sparse	3	8
W0821	Threemile River	2019	Periphyton Density, Film	Unobservable	3	8
W0821	Threemile River	2019	Scum	No	8	8
W0821	Threemile River	2019	Turbidity	Highly Turbid	1	8
W0821	Threemile River	2019	Turbidity	None	5	8
W0821	Threemile River	2019	Turbidity	Slightly Turbid	2	8
W1508	Threemile River	2019	Aesthetics Impaired?	No	8	8
W1508	Threemile River	2019	Aquatic Plant Density, Overall	None	4	8
W1508	Threemile River	2019	Aquatic Plant Density, Overall	Sparse	1	8
W1508	Threemile River	2019	Aquatic Plant Density, Overall	Unobservable	3	8
W1508	Threemile River	2019	Color	Brownish	2	8
W1508	Threemile River	2019	Color	Light Yellow/Tan	4	8
W1508	Threemile River	2019	Color	None	2	8
W1508	Threemile River	2019	Objectionable Deposits	No	7	8
W1508	Threemile River	2019	Objectionable Deposits	Yes	1	8
W1508	Threemile River	2019	Odor	Effluent (Treated)	2	8
W1508	Threemile River	2019	Odor	None	6	8
W1508	Threemile River	2019	Periphyton Density, Filamentous	None	5	8
W1508	Threemile River	2019	Periphyton Density, Filamentous	Unobservable	3	8
W1508	Threemile River	2019	Periphyton Density, Film	Moderate	1	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1508	Threemile River	2019	Periphyton Density, Film	None	2	8
W1508	Threemile River	2019	Periphyton Density, Film	Sparse	2	8
W1508	Threemile River	2019	Periphyton Density, Film	Unobservable	3	8
W1508	Threemile River	2019	Scum	No	8	8
W1508	Threemile River	2019	Turbidity	Moderately Turbid	1	8
W1508	Threemile River	2019	Turbidity	None	4	8
W1508	Threemile River	2019	Turbidity	Slightly Turbid	3	8
W2306	Threemile River	2011	Aquatic Plant Density, Overall	None	1	2
W2306	Threemile River	2011	Aquatic Plant Density, Overall	Unobservable	1	2
W2306	Threemile River	2011	Color	None	2	2
W2306	Threemile River	2011	Odor	None	2	2
W2306	Threemile River	2011	Periphyton Density, Filamentous	None	1	2
W2306	Threemile River	2011	Periphyton Density, Filamentous	Unobservable	1	2
W2306	Threemile River	2011	Periphyton Density, Film	Sparse	1	2
W2306	Threemile River	2011	Periphyton Density, Film	Unobservable	1	2
W2306	Threemile River	2011	Turbidity	Moderately Turbid	1	2
W2306	Threemile River	2011	Turbidity	None	1	2
W2307	Threemile River	2011	Aquatic Plant Density, Overall	None	1	2
W2307	Threemile River	2011	Aquatic Plant Density, Overall	Unobservable	1	2
W2307	Threemile River	2011	Color	None	2	2
W2307	Threemile River	2011	Odor	None	2	2
W2307	Threemile River	2011	Periphyton Density, Filamentous	None	1	2
W2307	Threemile River	2011	Periphyton Density, Filamentous	Unobservable	1	2
W2307	Threemile River	2011	Periphyton Density, Film	Sparse	1	2
W2307	Threemile River	2011	Periphyton Density, Film	Unobservable	1	2
W2307	Threemile River	2011	Turbidity	Moderately Turbid	2	2
W2308	Threemile River	2011	Aquatic Plant Density, Overall	None	1	3
W2308	Threemile River	2011	Aquatic Plant Density, Overall	Sparse	1	3
W2308	Threemile River	2011	Aquatic Plant Density, Overall	Unobservable	1	3
W2308	Threemile River	2011	Color	Light Yellow/Tan	1	3
W2308	Threemile River	2011	Color	None	2	3
W2308	Threemile River	2011	Odor	Fishy	1	3
W2308	Threemile River	2011	Odor	None	2	3

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2308	Threemile River	2011	Periphyton Density, Filamentous	None	2	3
W2308	Threemile River	2011	Periphyton Density, Filamentous	Unobservable	1	3
W2308	Threemile River	2011	Periphyton Density, Film	Moderate	1	3
W2308	Threemile River	2011	Periphyton Density, Film	Sparse	1	3
W2308	Threemile River	2011	Periphyton Density, Film	Unobservable	1	3
W2308	Threemile River	2011	Turbidity	Moderately Turbid	1	3
W2308	Threemile River	2011	Turbidity	Slightly Turbid	2	3
W2309	Threemile River	2011	Aquatic Plant Density, Overall	None	1	3
W2309	Threemile River	2011	Aquatic Plant Density, Overall	Sparse	2	3
W2309	Threemile River	2011	Color	Light Yellow/Tan	1	3
W2309	Threemile River	2011	Color	None	2	3
W2309	Threemile River	2011	Odor	None	3	3
W2309	Threemile River	2011	Periphyton Density, Filamentous	None	1	3
W2309	Threemile River	2011	Periphyton Density, Filamentous	Unobservable	2	3
W2309	Threemile River	2011	Periphyton Density, Film	None	1	3
W2309	Threemile River	2011	Periphyton Density, Film	Unobservable	2	3
W2309	Threemile River	2011	Turbidity	Moderately Turbid	2	3
W2309	Threemile River	2011	Turbidity	Slightly Turbid	1	3
W2742	Threemile River	2017	Aquatic Plant Density, Overall	None	1	2
W2742	Threemile River	2017	Aquatic Plant Density, Overall	Unobservable	1	2
W2742	Threemile River	2017	Color	None	2	2
W2742	Threemile River	2017	Odor	None	2	2
W2742	Threemile River	2017	Periphyton Density, Filamentous	Unobservable	2	2
W2742	Threemile River	2017	Periphyton Density, Film	Unobservable	2	2
W2742	Threemile River	2017	Turbidity	Moderately Turbid	2	2
W2743	Threemile River	2017	Aquatic Plant Density, Overall	None	1	2
W2743	Threemile River	2017	Aquatic Plant Density, Overall	Sparse	1	2
W2743	Threemile River	2017	Color	None	2	2
W2743	Threemile River	2017	Odor	Musty (Basement)	1	2
W2743	Threemile River	2017	Odor	None	1	2
W2743	Threemile River	2017	Periphyton Density, Filamentous	None	2	2
W2743	Threemile River	2017	Periphyton Density, Film	Moderate	2	2

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2743	Threemile River	2017	Turbidity	Moderately Turbid	2	2
W2835	Threemile River	2019	Aesthetics Impaired?	No	8	8
W2835	Threemile River	2019	Aquatic Plant Density, Overall	None	2	8
W2835	Threemile River	2019	Aquatic Plant Density, Overall	Sparse	2	8
W2835	Threemile River	2019	Aquatic Plant Density, Overall	Unobservable	4	8
W2835	Threemile River	2019	Color	Brownish	1	8
W2835	Threemile River	2019	Color	Light Yellow/Tan	6	8
W2835	Threemile River	2019	Color	None	1	8
W2835	Threemile River	2019	Objectionable Deposits	No	7	8
W2835	Threemile River	2019	Objectionable Deposits	Unobservable	1	8
W2835	Threemile River	2019	Odor	None	8	8
W2835	Threemile River	2019	Periphyton Density, Filamentous	None	4	8
W2835	Threemile River	2019	Periphyton Density, Filamentous	Unobservable	4	8
W2835	Threemile River	2019	Periphyton Density, Film	None	3	8
W2835	Threemile River	2019	Periphyton Density, Film	Sparse	1	8
W2835	Threemile River	2019	Periphyton Density, Film	Unobservable	4	8
W2835	Threemile River	2019	Scum	No	8	8
W2835	Threemile River	2019	Turbidity	Moderately Turbid	2	8
W2835	Threemile River	2019	Turbidity	None	5	8
W2835	Threemile River	2019	Turbidity	Slightly Turbid	1	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Threemile River (MA62-56) continues to be assessed as Not Supporting. The prior *Enterococcus* impairment is being carried forward based on bacteria data exceeding thresholds at two stations in 2019. An *Escherichia coli* (*E. coli*) impairment is being added due to bacteria data exceeding thresholds at three stations in 2019. MassDEP, Taunton River Watershed Alliance (TRWA), and USGS staff/volunteers collected *E. coli* (EC) and *Enterococcus* (Ent) bacteria samples in the Threemile River from 2011-2021 at 12 stations. Samples were collected from the following stations/sample years from upstream to downstream: near the upstream end of the AU at W2835 [Crane St, Norton] in 2019 (EC n=6) and TRWA_TMR-03 [Crane St., Norton] in 2019 (Ent n=7), a quarter of the way down at W0821 [Norton Ave (near Harvey St), Taunton] in 2017 and 2019 (EC n=2-6/yr) and W2742 [southwest from western end of Country Way, ~1/2 mile downstream from Norton Ave, Taunton] in 2017 (EC n=2), halfway down at W2743 [Tremont St (Rt. 140), Taunton] in 2017 (EC n=2), three-quarters of the way down at TRWA_TMR-02 [Rt 44, Cohannet St] in 2019 (Ent n=7) and W1508 [Cohannet St bridge, Taunton] in 2019 (EC n=6), close to the downstream end at W2306 [~1200 ft upstream from Warren Blvd/Joseph E Warner Blvd, Dighton/Taunton (on South bank) downstream of Three Mile River Dam, National ID MA01170] in 2011 (EC n=2), W2307 [Warner Blvd/Joseph East Warren Blvd, Dighton/Taunton] in 2011 (EC n=2), USGS-01109060 in 2019-2021 (EC n=4-7/yr), W2308 [upstream at Spring St, Dighton] in 2011 (EC n=3) and W2309 [downstream at South St/Spring St, Taunton/Dighton] in 2011 (EC n=3). While *E. coli* data from 6 of these stations are too limited to assess the Primary Contact Recreation Use, bacteria data from the remaining 6 stations are sufficient. Data from USGS-01109060 was generally indicative of good water quality conditions, however the remaining analysis is indicative of poor conditions as follows: Analysis of the single year limited frequency *E. coli* datasets from W2835, W0821 & W1508 indicated 85-100% of intervals had GMs >126 CFU/100ml and the seasonal GMs ranged 222-595 CFU/100ml. Analysis of the single year moderate frequency *Enterococcus* datasets from TRWA_TMR-03 & TRWA_TMR-02 indicated 66-100% of intervals had GMs >35 CFU/100ml (maximum 590 CFU). *E. coli* data from W2835, W0821, and W1508 and *Enterococcus* data from TRWA_TMR-03 and TRWA_TMR-02 are indicative of *E. coli* and *Enterococcus* impairments respectively. Surface water sampling was conducted by the USGS upstream and downstream of the MFN Regional WWTF discharge on the Threemile River at stations USGS_01109043 and USGS_01109048 respectively, on three dates during August to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0821	MassDEP	Water Quality	Threemile River	[Norton Avenue (near Harvey Street), Taunton]	41.933320	-71.154267
W1508	MassDEP	Water Quality	Threemile River	[Cohannet Street bridge, Taunton]	41.885905	-71.134117

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2306	MassDEP	Water Quality	Threemile River	[approximately 1200 feet upstream from Warren Boulevard/Joseph E Warner Boulevard, Dighton/Taunton (on south bank at decrepit footbridge downstream of Three Mile River Dam, National Id MA01170)]	41.867736	-71.129091
W2307	MassDEP	Water Quality	Threemile River	[Warner Boulevard/Joseph E Warren Boulevard, Dighton/Taunton]	41.866890	-71.125192
W2308	MassDEP	Water Quality	Threemile River	[upstream at Spring Street , Dighton (river braid does not appear on USGS 1985 Assonet quadrangle)]	41.864590	-71.122284
W2309	MassDEP	Water Quality	Threemile River	[downstream at South Street/Spring Street, Taunton/Dighton]	41.864362	-71.121382
W2742	MassDEP	Water Quality	Threemile River	[southwest from western end of Country Way, approximately 1/2 mile downstream from Norton Avenue, Taunton]	41.927222	-71.150784
W2743	MassDEP	Water Quality	Threemile River	[Tremont Street (Route 140), Taunton]	41.910206	-71.128830
W2835	MassDEP	Water Quality	Threemile River	[Crane Street, Norton]	41.946818	-71.160671
TRWA_TMR-02	Taunton River Watershed Alliance	Water Quality	Three River	Three Mile R. Br, Rt 44, Cohannet St.	41.886500	-71.133333
TRWA_TMR-03	Taunton River Watershed Alliance	Water Quality	Three River	Three Mile R. Br, Crane St., Norton	41.946750	-71.160556
USGS-01109043	USGS Massachusetts Water Science Center	Water Quality	Threemile River	THREEMILE RIVER AT CRANE ST, TAUNTON, MA; upstream of MFN Regional WWTF	41.947000	-71.160000
USGS-01109048	USGS Massachusetts Water Science Center	Water Quality	Threemile River	THREEMILE RIVER AT NORTON AVE, TAUNTON, MA; downstream of MFN Regional WWTF	41.933000	-71.154000
USGS-01109060	USGS Massachusetts Water Science Center	Water Quality	Threemile River	Threemile River At North Dighton, MA	41.866212	-71.122824

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (30-day Interval Analysis)

(MassDEP Undated 9) (MassDEP Undated 5) (TRWA 2020) (MassDEP Undated 3) (USGS 2024) (MassDEP Undated 3)

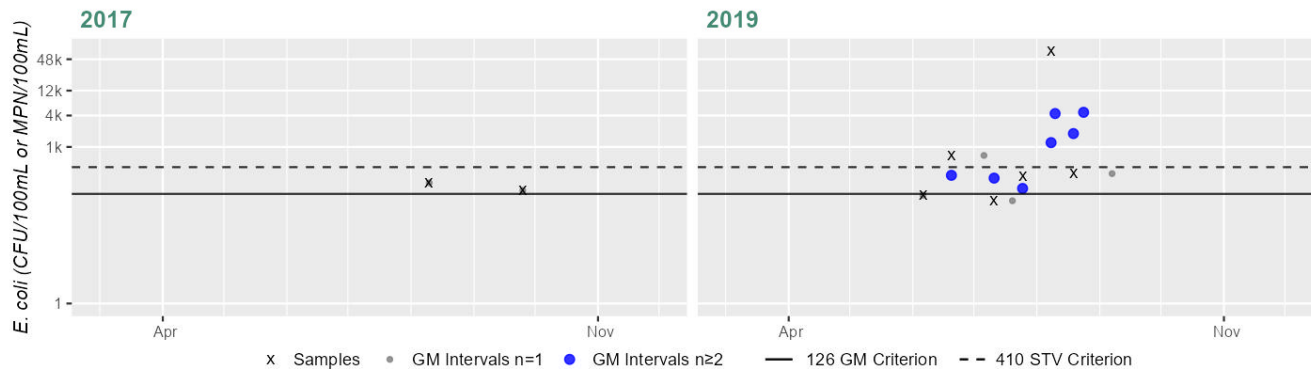
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0821	MassDEP	E. coli	08/10/17	09/25/17	2	147	205	173
W0821	MassDEP	E. coli	06/06/19	08/19/19	6	93	69000	595
W1508	MassDEP	E. coli	06/06/19	08/19/19	6	88	1050	222
W2306	MassDEP	E. coli	06/02/11	08/24/11	2	119	179	145
W2307	MassDEP	E. coli	06/02/11	08/24/11	2	72	120	92
W2308	MassDEP	E. coli	06/02/11	10/18/11	3	20	275	91
W2309	MassDEP	E. coli	06/02/11	10/18/11	3	24	108	56
W2742	MassDEP	E. coli	08/10/17	09/25/17	2	135	265	189
W2743	MassDEP	E. coli	08/10/17	09/25/17	2	88	219	138
W2835	MassDEP	E. coli	06/06/19	08/19/19	6	84	2670	253

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
TRWA_TMR-02	Taunton River Watershed Association	Enterococcus	04/09/19	10/08/19	7	30	250	68
TRWA_TMR-03	Taunton River Watershed Association	Enterococcus	04/09/19	10/08/19	7	10	590	105
USGS-01109060	USGS Massachusetts Water Science Center	E. coli	04/15/19	10/16/19	6	28	91	55
USGS-01109060	USGS Massachusetts Water Science Center	E. coli	05/12/20	09/14/20	4	4	38	13
USGS-01109060	USGS Massachusetts Water Science Center	E. coli	04/22/21	09/14/21	7	16	2400	97

Station MASSDEP_W0821 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



x Samples • GM Intervals n=1 ● GM Intervals n≥2 — 126 GM Criterion - - 410 STV Criterion

Variable*	Result
Samples	2
SeasGM	173
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	595
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	2
%n>STV	33%

Cumulative %GMI Exceedance

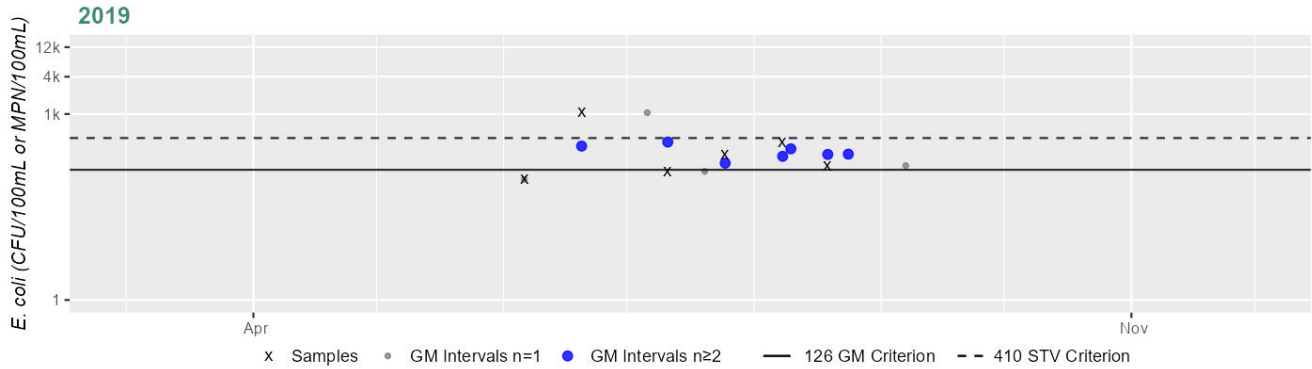
Current (2011-2022)

100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1508 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



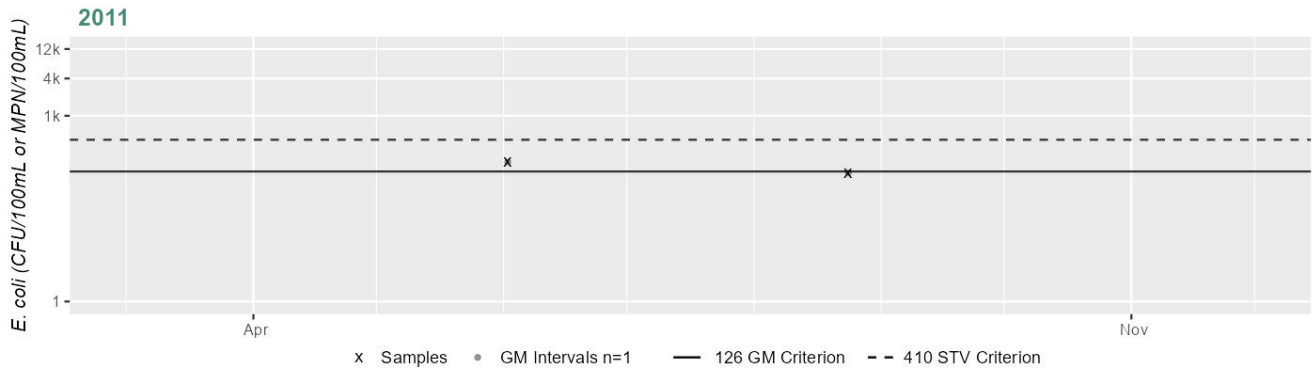
Variable*	Result
Samples	6
SeasGM	222
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2306 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



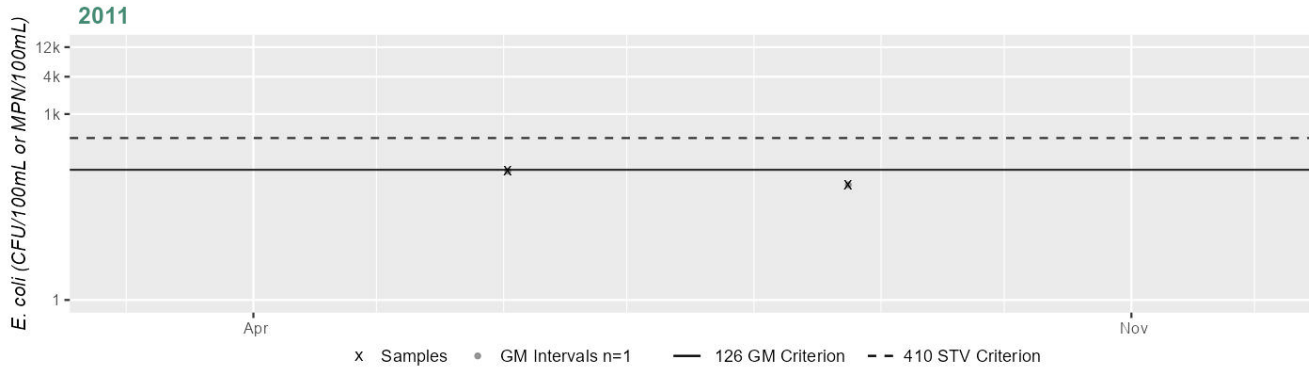
Variable*	Result
Samples	2
SeasGM	145
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2307 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



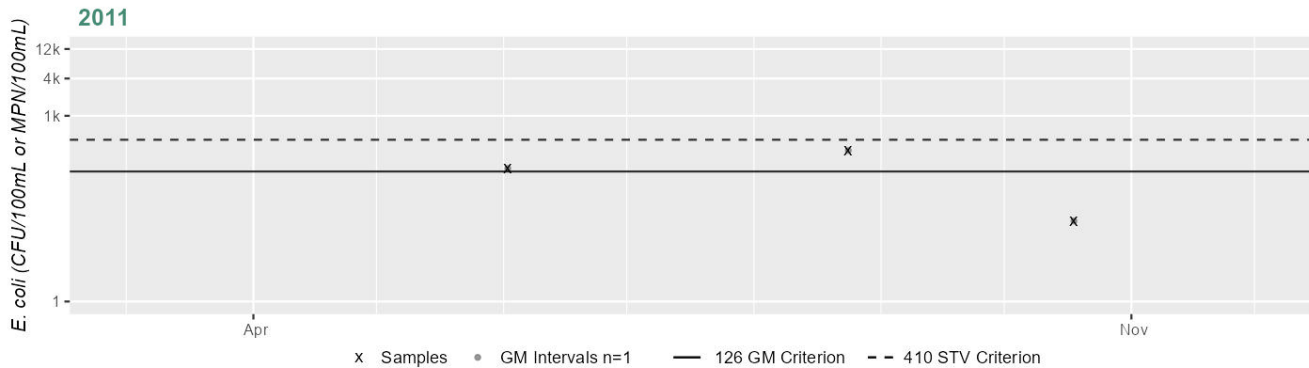
Variable*	Result
Samples	2
SeasGM	92
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2308 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



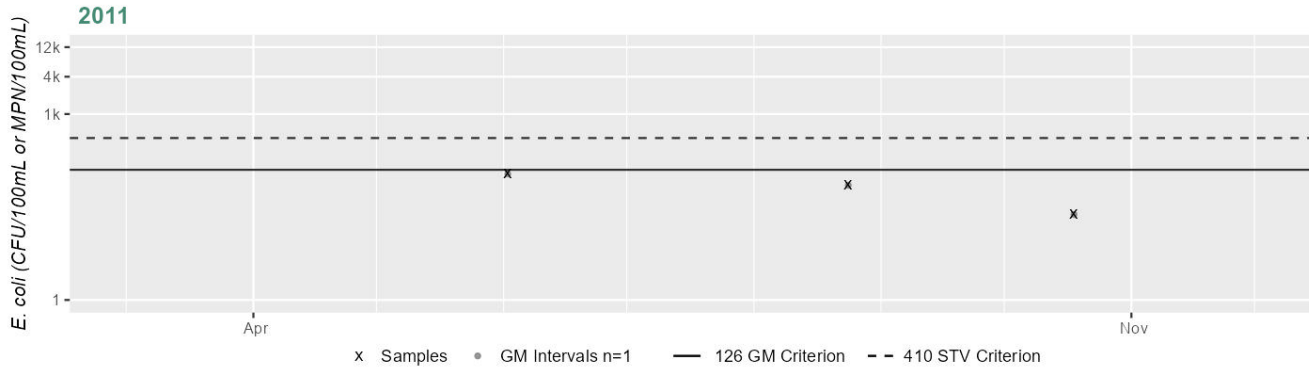
Variable*	Result
Samples	3
SeasGM	91
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2309 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



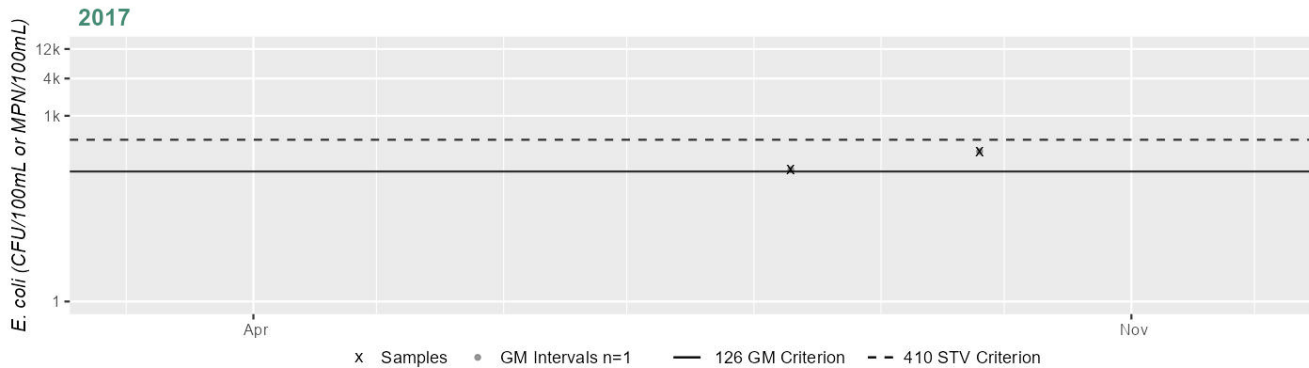
Variable*	Result
Samples	3
SeasGM	56
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2742 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



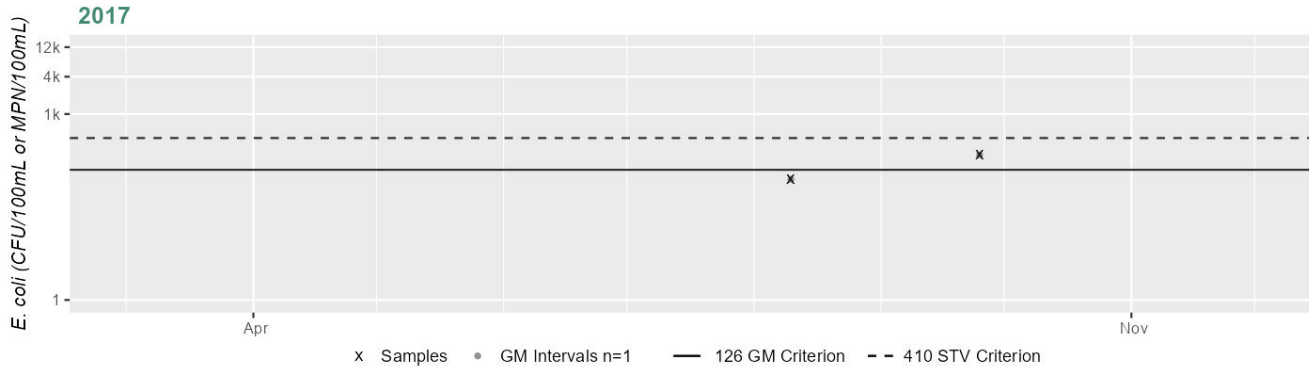
Variable*	Result
Samples	2
SeasGM	189
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2743 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



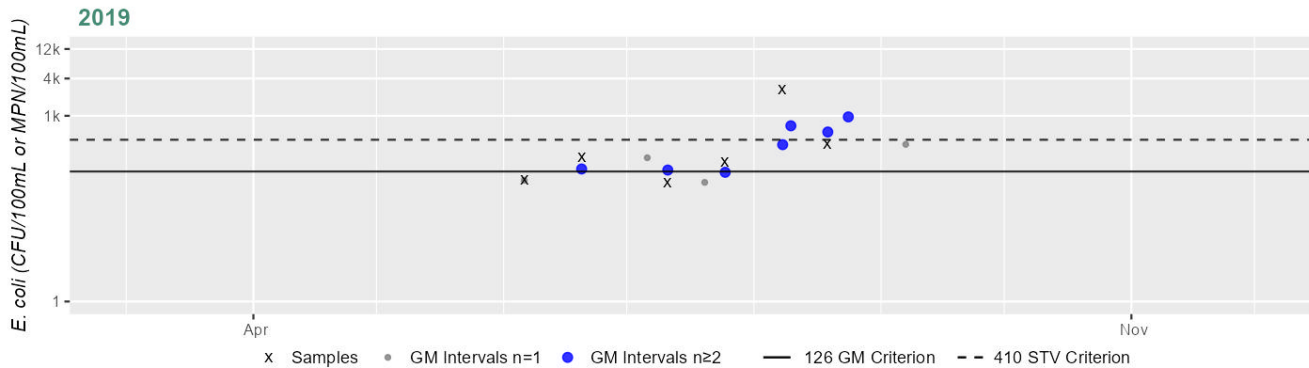
Variable*	Result
Samples	2
SeasGM	138
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2835 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



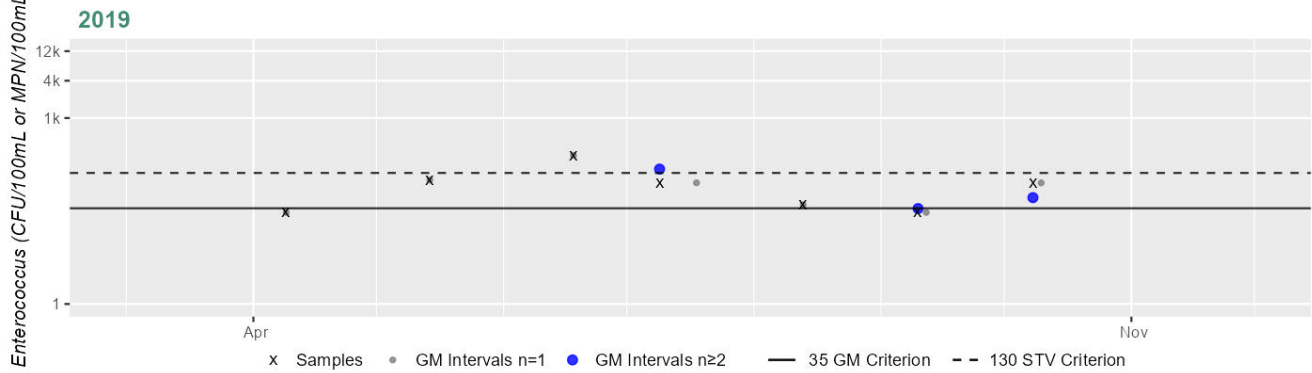
Variable*	Result
Samples	6
SeasGM	253
#GMI	7
#GMI Ex	6
%GMI Ex	85%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
85%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station TRWA_TMR-02 - Enterococcus

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	7
SeasGM	68
#GMI	3
#GMI Ex	2
%GMI Ex	66%
n>STV	1
%n>STV	14%

Cumulative %GMI Exceedance

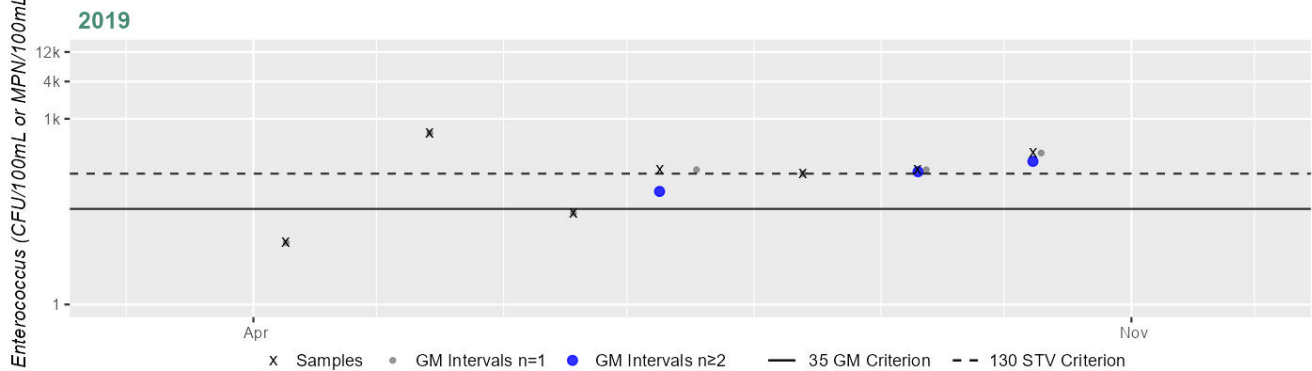
Current (2011-2022)

66%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station TRWA_TMR-03 - Enterococcus

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	7
SeasGM	105
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	4
%n>STV	57%

Cumulative %GMI Exceedance

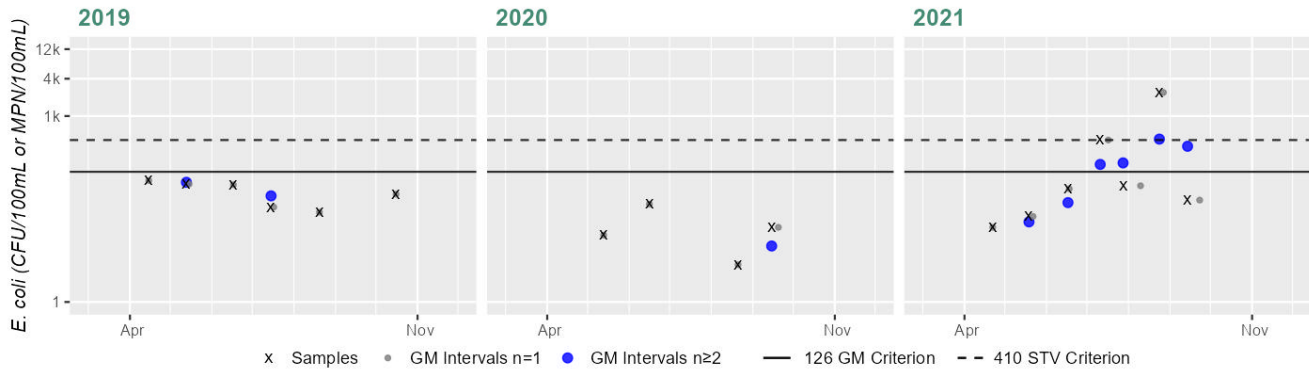
Current (2011-2022)

100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station USGS-01109060 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	55
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	4
SeasGM	13
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	7
SeasGM	97
#GMI	6
#GMI Ex	4
%GMI Ex	66%
n>STV	1
%n>STV	14%

Cumulative %GMI Exceedance
Current (2011-2022)
44%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Other Indicators

Summary Statement(s) for USGS 2020 PFAS in Water Column Data (Savoie and Argue 2023) (MassDEP Undated 3)

Summary
Surface water sampling was conducted by the USGS upstream of the MFN Regional WWTF discharge on the Threemile River (MA62-56) at station USGS_01109043 on three dates during August to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).
Surface water sampling was conducted by the USGS downstream of the MFN Regional WWTF discharge on the Threemile River (MA62-56) at station USGS_01109048 on three dates during August to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).

USGS 2020 PFAS in Water Column Data Collected Upstream and Downstream of Wastewater Treatment Facilities (Savoie and Argue 2023) (MassDEP Undated 3)

[The ΣPFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here). * indicates the ΣPFAS6 concentration is qualified since data for one or more individual PFAS6 analytes were qualified. A concentration with a "<" was less than the reporting detection limit (RDL) and the RDL was used to calculate the ΣPFAS6. E = qualifier "value is estimated"; V = qualifier "value affected by field or laboratory contamination"]

Station Code	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	ΣPFAS6 ng/L
USGS-01109043	8/24/2020	9.87	E11.8	1.9	2.76	2.99	3.24	31.8*
USGS-01109043	9/25/2020	11.9	E9.98	1.96	2.26	3.68	3.6	31.9*
USGS-01109043	10/14/2020	10.6	8.8	1.97	E1.53	4.54	2.98	28.2*
USGS-01109048	8/24/2020	8.95	E7.45	E1.78	E1.38	14.1	3.74	26.6*
USGS-01109048	9/25/2020	10.6	E8.34	E1.38	E2.53	6.81	4.68	27.8*
USGS-01109048	10/14/2020	7.14	5.63	E1.24	E1.11	4.82	2.86	19.5*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES
2024/26 Use Attainment Summary	

The Secondary Contact Recreation Use for the Threemile River (MA62-56) is assessed as Fully Supporting based on a re-evaluation of bacteria data collected at two stations in 2019-2021. An Alert is being identified for *Escherichia coli* (*E. coli*) based on bacteria data collected at Crane St & Norton Ave in 2019. MassDEP and USGS staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in this Threemile River AU from 2001-2021 at 10 stations. Samples were collected from the following stations/sample years from upstream to downstream: near the upstream end of the AU at W2835 [Crane St, Norton] from Jun-Aug 2019 (n=6), a quarter of the way down at W0821 [Norton Ave, Taunton] in 2001 & 2006 (historic n=3-4/yr) then 2017 & 2019 (current n=2-6/yr), W2742 [southwest from western end of Country Way, ~1/2 mile downstream from Norton Ave, Taunton] from Aug-Sep 2017 (n=2), halfway down at W2743 [Tremont St (Rt. 140), Taunton] from Aug-Sep 2017 (n=2), three-quarters of the way down at W1508 [Cohannet St, Taunton] from May-Oct 2006 (historic n=4) then Jun-Aug 2019 (current n=6), and close to the downstream end at W2306 [~1200 ft upstream from Warren Blvd/Joseph E Warner Blvd, Dighton/Taunton (on S bank at decrepit footbridge downstream of Three Mile River Dam, National ID MA01170)] from Jun-Aug 2011 (n=2), W2307 [Warner Blvd/Joseph E Warren Blvd, Dighton/Taunton] from Jun-Aug 2011 (n=2), USGS-01109060 [~800ft south of Joseph E Warren Blvd] in 2019-2021 (n=8-12/yr), W2308 [upstream at Spring St, Dighton] from Jun-Oct 2011 (n=3), W2309 [downstream at S St/Spring St, Taunton/Dighton] from Jun-Oct 2011 (n=3). While *E. coli* data from 6 stations are too limited to assess the Secondary Contact Recreation Use, bacteria data from the remaining 4 stations are sufficient. Water quality in the upper stretch of the watershed was comparatively worse than stations further down in the watershed i.e., analysis of the single year limited frequency *E. coli* datasets from W2835 & W0821 indicated 57 & 71% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV in both cases (with max concentrations of 2,670 & 69,000 CFU) and the overall GMs were 253 & 595 CFU/100ml respectively. However, analysis of the single year limited frequency *E. coli* dataset from W1508 indicated 14% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV, but the overall GM was only 222 CFU/100ml. Also, analysis of the multi-year moderate frequency *E. coli* dataset from USGS-01109060 indicated 0 out of 3 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml, 0 yrs had ≥2 samples exceed the 794 CFU/100ml STV, and cumulatively across years only 9% of intervals had GMs >244 CFU/100ml. In conclusion, the *E. coli* data collected in both the historic & the current IR window for Threemile River are indicative of good water quality conditions (specifically data from stations W1508 and USGS-01109060 in the current IR window), but an Alert is being identified for *E. coli* based on the data collected at stations W2835 and W0821.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0821	MassDEP	Water Quality	Threemile River	[Norton Avenue (near Harvey Street), Taunton]	41.933320	-71.154267
W1508	MassDEP	Water Quality	Threemile River	[Cohannet Street bridge, Taunton]	41.885905	-71.134117

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2306	MassDEP	Water Quality	Threemile River	[approximately 1200 feet upstream from Warren Boulevard/Joseph E Warner Boulevard, Dighton/Taunton (on south bank at decrepit footbridge downstream of Three Mile River Dam, National Id MA01170)]	41.867736	-71.129091
W2307	MassDEP	Water Quality	Threemile River	[Warner Boulevard/Joseph E Warren Boulevard, Dighton/Taunton]	41.866890	-71.125192
W2308	MassDEP	Water Quality	Threemile River	[upstream at Spring Street , Dighton (river braid does not appear on USGS 1985 Assonet quadrangle)]	41.864590	-71.122284
W2309	MassDEP	Water Quality	Threemile River	[downstream at South Street/Spring Street, Taunton/Dighton]	41.864362	-71.121382
W2742	MassDEP	Water Quality	Threemile River	[southwest from western end of Country Way, approximately 1/2 mile downstream from Norton Avenue, Taunton]	41.927222	-71.150784
W2743	MassDEP	Water Quality	Threemile River	[Tremont Street (Route 140), Taunton]	41.910206	-71.128830
W2835	MassDEP	Water Quality	Threemile River	[Crane Street, Norton]	41.946818	-71.160671
USGS-01109060	USGS Massachusetts Water Science Center	Water Quality	Threemile River	Threemile River At North Dighton, MA	41.866212	-71.122824

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

(MassDEP Undated 9) (MassDEP Undated 4) (USGS 2024) (MassDEP Undated 2)

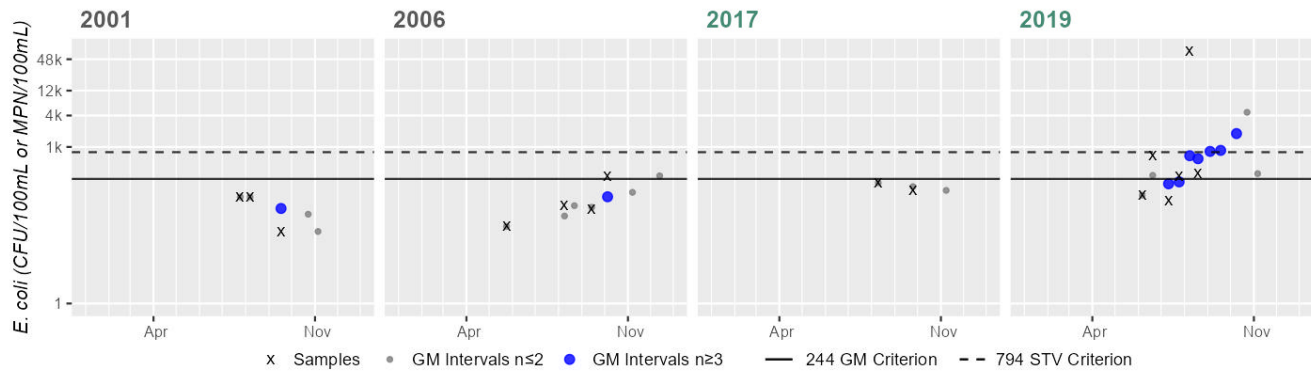
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0821	MassDEP	E. coli	07/25/01	09/17/01	3	24	110	66
W0821	MassDEP	E. coli	05/24/06	10/05/06	4	30	280	79
W0821	MassDEP	E. coli	08/10/17	09/25/17	2	147	205	173
W0821	MassDEP	E. coli	06/06/19	08/19/19	6	93	69000	595
W1508	MassDEP	E. coli	05/24/06	10/05/06	4	45	110	66
W1508	MassDEP	E. coli	06/06/19	08/19/19	6	88	1050	222
W2306	MassDEP	E. coli	06/02/11	08/24/11	2	119	179	145
W2307	MassDEP	E. coli	06/02/11	08/24/11	2	72	120	92
W2308	MassDEP	E. coli	06/02/11	10/18/11	3	20	275	91
W2309	MassDEP	E. coli	06/02/11	10/18/11	3	24	108	56
W2742	MassDEP	E. coli	08/10/17	09/25/17	2	135	265	189
W2743	MassDEP	E. coli	08/10/17	09/25/17	2	88	219	138
W2835	MassDEP	E. coli	06/06/19	08/19/19	6	84	2670	253
USGS-01109060	USGS Massachusetts Water Science Center	E. coli	01/29/19	12/10/19	10	23	250	59
USGS-01109060	USGS Massachusetts Water Science Center	E. coli	01/13/20	12/07/20	8	4	280	29

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
USGS-01109060	USGS Massachusetts Water Science Center	E. coli	01/27/21	12/13/21	12	16	2400	82

Station MASSDEP_W0821 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	3
SeasGM	66
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	4
SeasGM	79
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	2
SeasGM	173
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	595
#GMI	7
#GMI Ex	5
%GMI Ex	71%
n>STV	1
%n>STV	16%

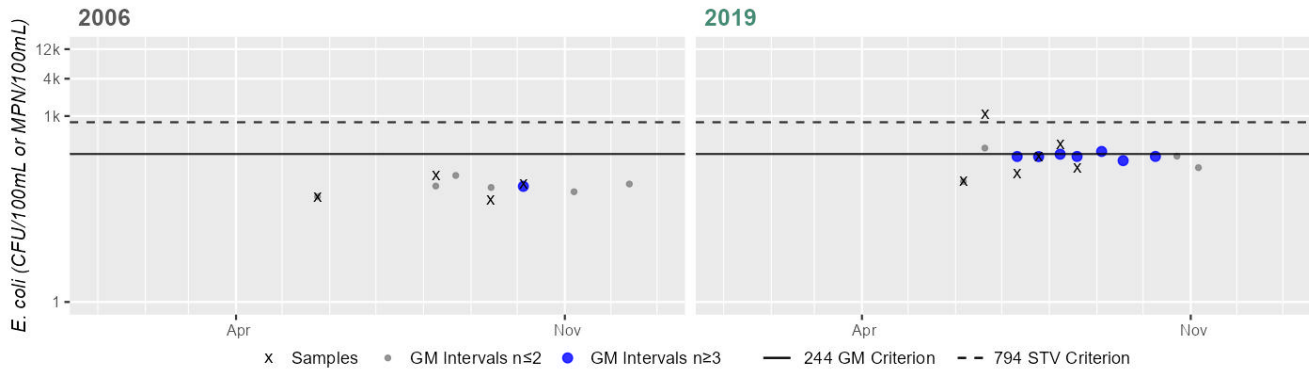
Cumulative %GMI Exceedance
Historic (1997-2010)
0%

Cumulative %GMI Exceedance
Current (2011-2022)
71%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1508 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	4
SeasGM	66
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	222
#GMI	7
#GMI Ex	1
%GMI Ex	14%
n>STV	1
%n>STV	16%

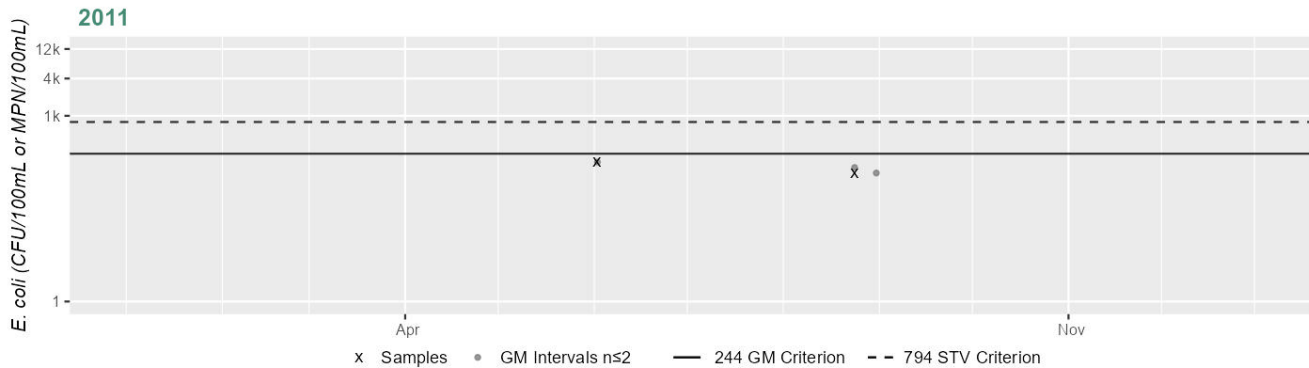
Cumulative %GMI Exceedance
Historic (1997-2010)
0%

Cumulative %GMI Exceedance
Current (2011-2022)
14%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2306 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



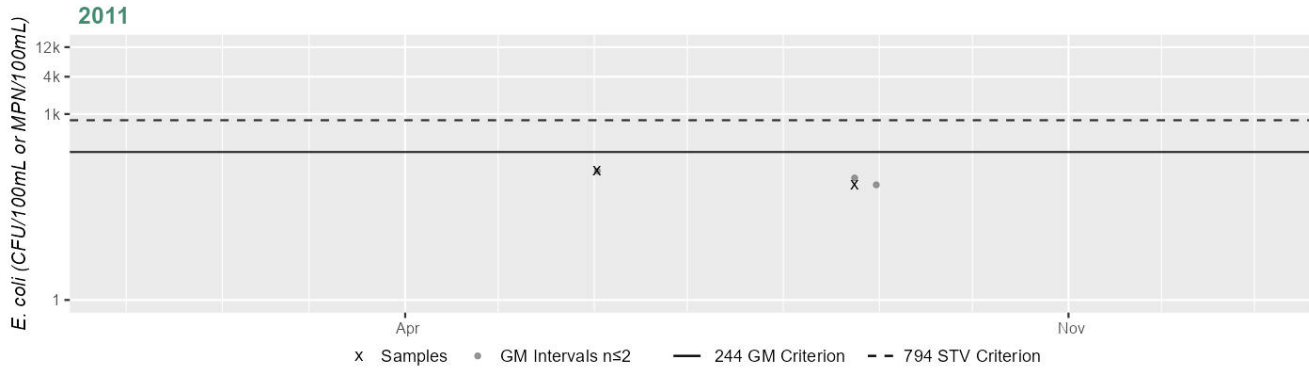
Variable*	Result
Samples	2
SeasGM	145
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2307 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



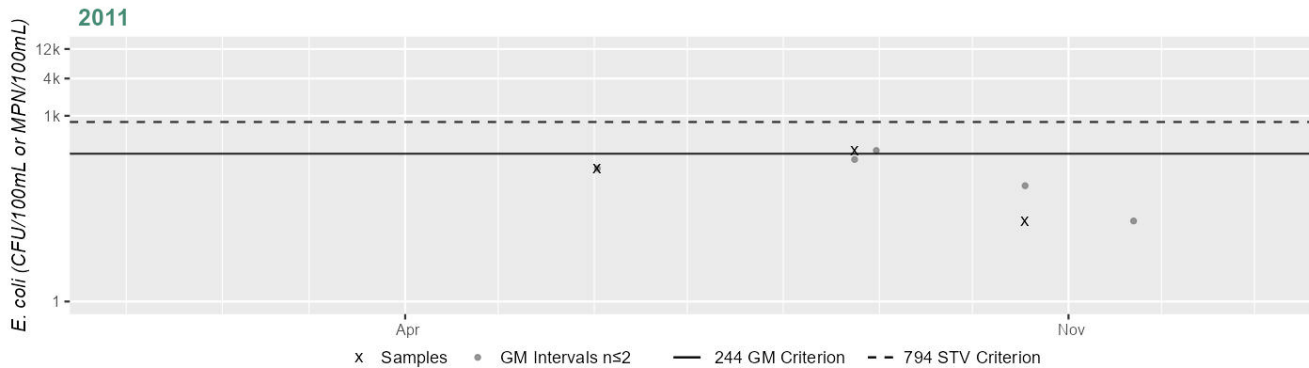
Variable*	Result
Samples	2
SeasGM	92
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2308 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



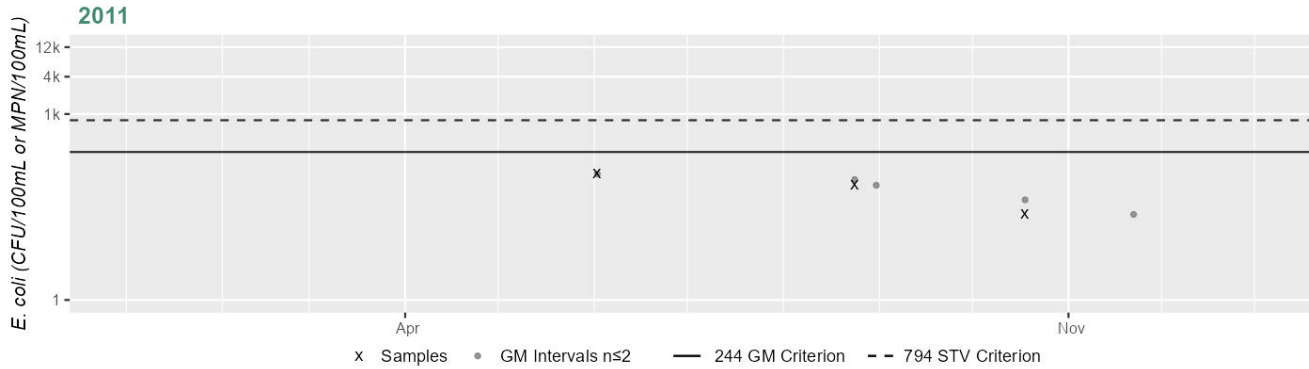
Variable*	Result
Samples	3
SeasGM	91
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2309 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



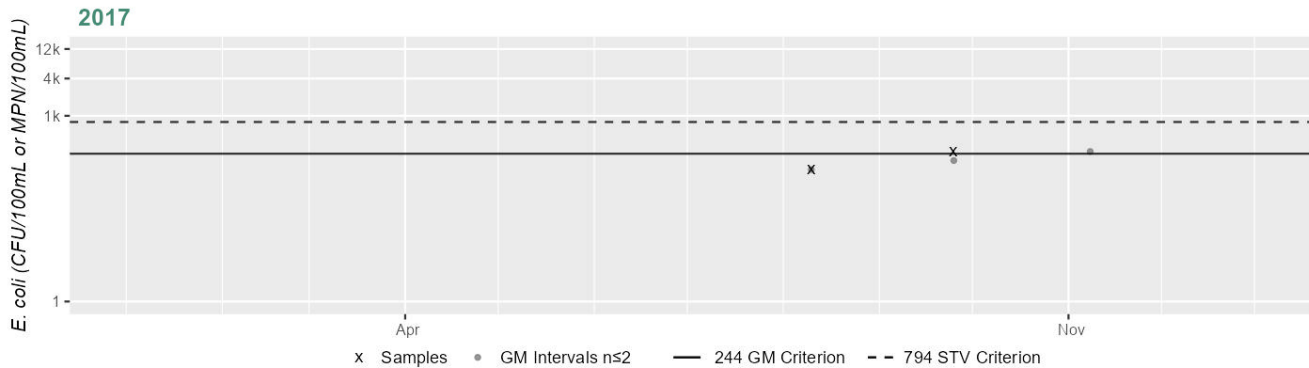
Variable*	Result
Samples	3
SeasGM	56
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2742 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



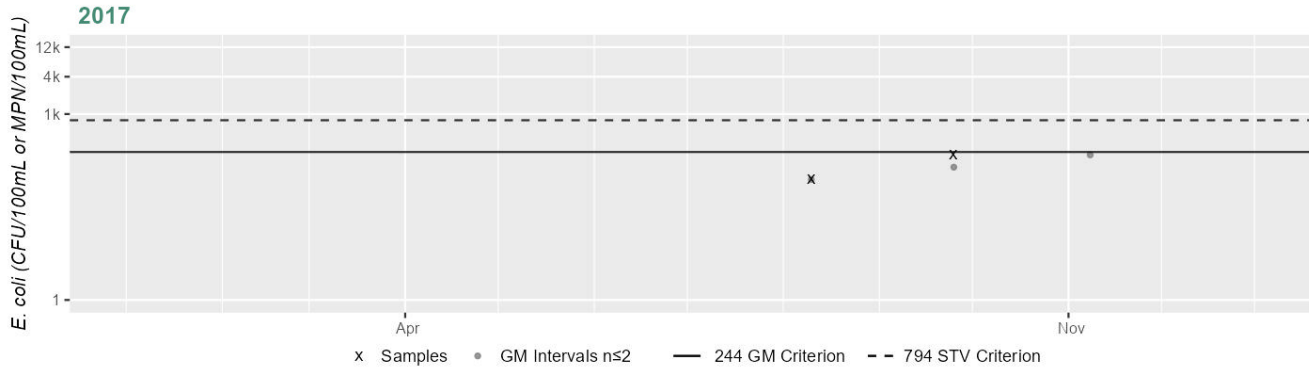
Variable*	Result
Samples	2
SeasGM	189
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2743 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



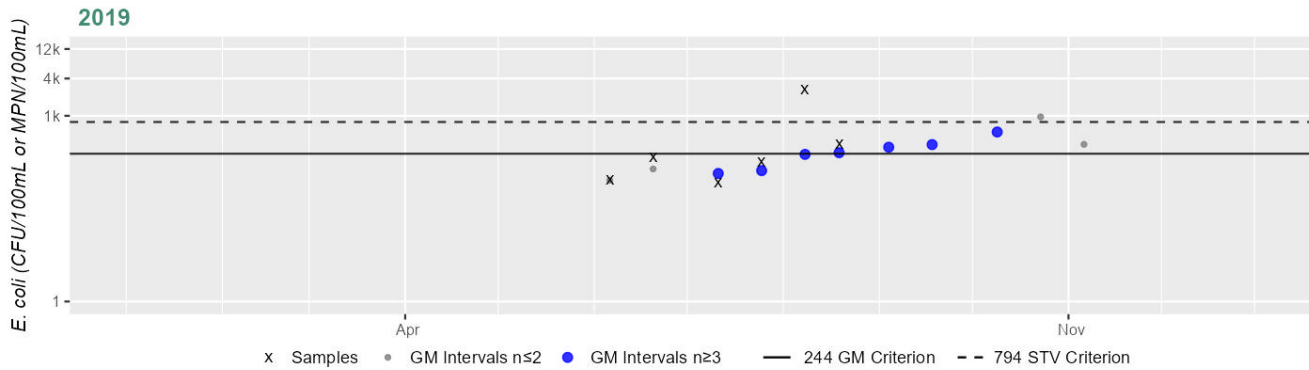
Variable*	Result
Samples	2
SeasGM	138
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2835 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



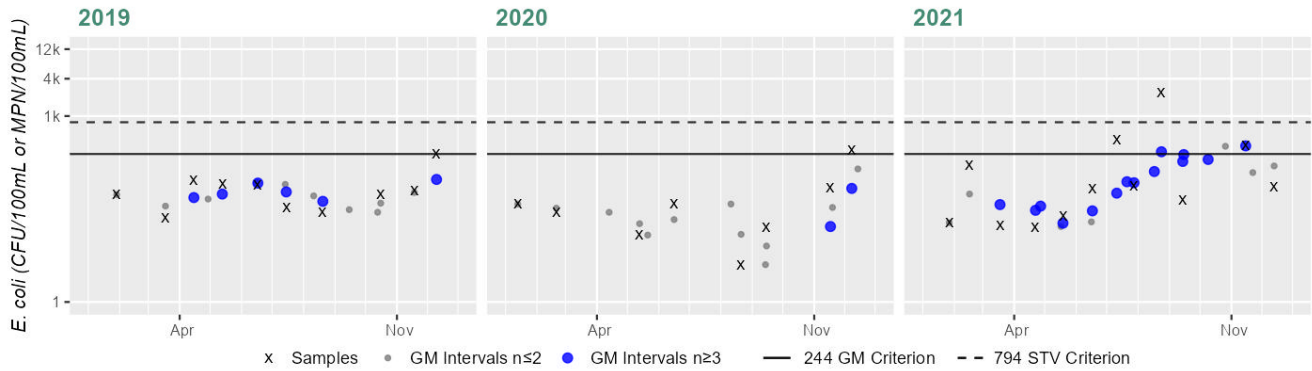
Variable*	Result
Samples	6
SeasGM	253
#GMI	7
#GMI Ex	4
%GMI Ex	57%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
 57%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station USGS-01109060 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	10
SeasGM	59
#GMI	6
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	8
SeasGM	29
#GMI	2
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	12
SeasGM	82
#GMI	14
#GMI Ex	2
%GMI Ex	14%
n>STV	1
%n>STV	8%

Cumulative %GMI Exceedance
Current (2011-2022)
 9%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Threemile River (MA62-57)

Location:	From dam (NATID: MA03083) behind 66 South Street (Harodite Finishing Co.), Taunton/Dighton to mouth at confluence with the Taunton River, Taunton/Dighton (formerly part of 2004 segment: Three Mile River MA62-16).
AU Type:	ESTUARY
AU Size:	0.02 SQUARE MILES
Classification/Qualifier:	SB: SFR

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	4a	Enterococcus	40310	Changed
5	4a	Fecal Coliform	40310	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
Enterococcus	Source Unknown (N)	--	--	--	--	X	X
Fecal Coliform	Source Unknown (N)	--	--	X	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Enterococcus	TMDL approved or established by EPA (4a)	Impairment covered under TMDL: Final Pathogen TMDL for the Taunton River Watershed (Report CN 256.0, approved 6/16/2011, ATTAINS Action ID: 40310)

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Threemile River (MA62-57) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
Threemile River (MA62-57): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0163 sq mi (76%). The sum of the approved, conditionally approved, and restricted shellfish growing areas represents 0 sq mi (0%). The prohibited shellfish growing area represents 0.0163 sq mi (76%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as either entirely prohibited or a combination of prohibited and approved, conditionally approved, and/or restricted. There is insufficient information available to delist the existing Fecal Coliform impairment so the Shellfish Harvesting Use is evaluated as Not Supporting.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
MHB2.1	Taunton River	Prohibited	0.01629	75.5%

Aesthetic

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

There is insufficient information to assess the Aesthetics Use for Threemile River (MA62-57). MassDEP staff recorded aesthetics observations at three stations throughout this Threemile River AU during the summer of 2011 as part of the MassDEP Bacteria Source Tracking (BST) Project. The station descriptions from upstream to downstream are as follows: close to the upstream end of the AU east of Lincoln Avenue in Dighton ~800 ft downstream from the Harodite Dam (National ID MA03083) on the Dighton/Taunton border (W2310); and in the downstream half of the AU at Old Somerset Avenue in Dighton/Taunton (W2311) and at the abandoned railroad trestle ~600 ft upstream of the confluence with the Taunton River in Dighton/Taunton (W2312). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded at any of the stations; however, the data were extremely limited (n=2/station).

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2310	MassDEP	Water Quality	Threemile River	[east of Lincoln Avenue, Dighton, approximately 800 feet downstream from the Harodite Dam (National Id MA03083), on the Dighton/Taunton border]	41.860725	-71.121843
W2311	MassDEP	Water Quality	Threemile River	[Old Somerset Avenue, Dighton/Taunton]	41.856001	-71.116017
W2312	MassDEP	Water Quality	Threemile River	[abandoned railroad trestle approximately 600 feet upstream of confluence with Taunton River, Dighton/Taunton]	41.855054	-71.111013

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2310	2011	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2310 on Threemile River (MA62-57) during 2 site visits between Jun 2011 and Aug 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2311	2011	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2311 on Threemile River (MA62-57) during 2 site visits between Jun 2011 and Aug 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2312	2011	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2312 on Threemile River (MA62-57) during 2 site visits between Jun 2011 and Aug 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2310	2011	2	2	0
W2311	2011	2	2	0
W2312	2011	2	2	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2310	Threemile River	2011	Aquatic Plant Density, Overall	None	2	2
W2310	Threemile River	2011	Color	None	2	2
W2310	Threemile River	2011	Odor	None	2	2
W2310	Threemile River	2011	Periphyton Density, Filamentous	None	1	2
W2310	Threemile River	2011	Periphyton Density, Filamentous	Unobservable	1	2
W2310	Threemile River	2011	Periphyton Density, Film	Moderate	1	2
W2310	Threemile River	2011	Periphyton Density, Film	Sparse	1	2
W2310	Threemile River	2011	Turbidity	Moderately Turbid	2	2
W2311	Threemile River	2011	Aquatic Plant Density, Overall	None	1	2
W2311	Threemile River	2011	Aquatic Plant Density, Overall	Sparse	1	2
W2311	Threemile River	2011	Color	None	2	2
W2311	Threemile River	2011	Odor	None	2	2
W2311	Threemile River	2011	Periphyton Density, Filamentous	None	1	2
W2311	Threemile River	2011	Periphyton Density, Filamentous	Unobservable	1	2
W2311	Threemile River	2011	Periphyton Density, Film	Moderate	2	2
W2311	Threemile River	2011	Turbidity	Moderately Turbid	2	2
W2312	Threemile River	2011	Aquatic Plant Density, Overall	None	2	2
W2312	Threemile River	2011	Color	None	2	2
W2312	Threemile River	2011	Odor	None	2	2
W2312	Threemile River	2011	Periphyton Density, Filamentous	None	1	2
W2312	Threemile River	2011	Periphyton Density, Filamentous	Sparse	1	2
W2312	Threemile River	2011	Periphyton Density, Film	Moderate	2	2
W2312	Threemile River	2011	Turbidity	Moderately Turbid	2	2

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for the Threemile River (MA62-57) continues to be assessed as Not Supporting based on bacteria data collected at one station in 2019. The prior <i>Enterococcus</i> impairment is being carried forward based on bacteria data exceeding thresholds at one station in 2019. The shellfish growing areas (0.0163 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), so these data were too limited to assess Primary Contact Recreation Use for Threemile River based on shellfish classification data. Taunton River Watershed Alliance (TRWA) staff/volunteers collected <i>Enterococcus</i> bacteria samples three-quarters of the way down the AU at TRWA_TMR-01 [Rt 138, Somerset Ave] from Apr-Oct 2019 (n=7). Analysis of the single year moderate frequency <i>Enterococcus</i> dataset from this station indicated 100% of intervals had GMs >35 CFU/100ml and 4 samples exceeded the 130 CFU/100ml STV (maximum 300 CFU). The bacteria data from TRWA_TMR-01 are indicative of an <i>Enterococcus</i> impairment.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
TRWA_TMR-01	Taunton River Watershed Alliance	Water Quality	Three River	Three Mile R. Br, Rt 138, Somerset Ave.	41.855528	-71.115556

Bacteria Data

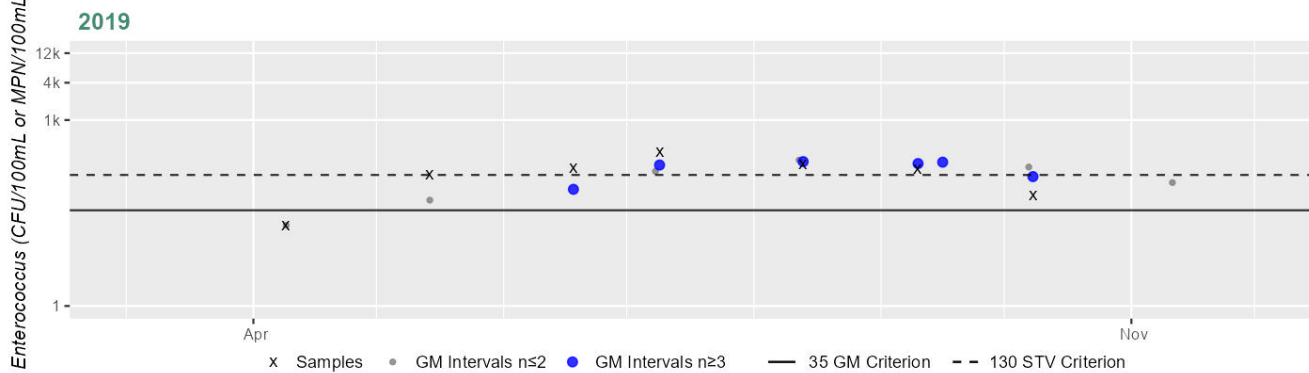
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (TRWA 2020) (MassDEP Undated 3)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
TRWA_TMR-01	Taunton River Watershed Association	Enterococci	04/09/19	10/08/19	7	20	300	113

Station TRWA_TMR-01 - Enterococcus

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	7
SeasGM	113
#GMI	6
#GMI Ex	6
%GMI Ex	100%
n>STV	4
%n>STV	57%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Summary Statement for 2011-2019 MassDEP Bacteria Source Tracking (BST) Data (MassDEP Undated 1)

Summary
BST work was conducted in 2011 at 6 sites on the Three Mile River AU (MA62-57), with dry weather <i>E. coli</i> concentrations ranging 55 - 180MPN. The BST program recommended (based on 2011 data) that segment MA62-57 undergo a de-listing assessment.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Threemile River (MA62-57): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0163 sq mi (76%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	

The Secondary Contact Recreation Use for the Threemile River (MA62-57) continues to be assessed as Not Supporting based on a re-evaluation of bacteria data collected at one station in 2019. The prior *Enterococcus* impairment is being carried forward based on bacteria data exceeding thresholds at one station in 2019. The shellfish growing areas (0.0163 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), so these data were too limited to assess Secondary Contact Recreation Use for Threemile River based on shellfish classification data. Taunton River Watershed Alliance (TRWA) staff/volunteers collected *Enterococcus* bacteria samples in the Threemile River at TRWA_TMR-01 [Rt 138, Somerset Ave] from Apr-Oct 2019 (n=7). Analysis of the single year moderate frequency *Enterococcus* dataset from this station indicated 100% of intervals had GMs >68 CFU/100ml and 1 sample exceeded the 252 CFU/100ml STV (300 CFU). The bacteria data from TRWA_TMR-01 are indicative of an *Enterococcus* impairment.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
TRWA_TMR-01	Taunton River Watershed Alliance	Water Quality	Three River	Three Mile R. Br, Rt 138, Somerset Ave.	41.855528	-71.115556

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

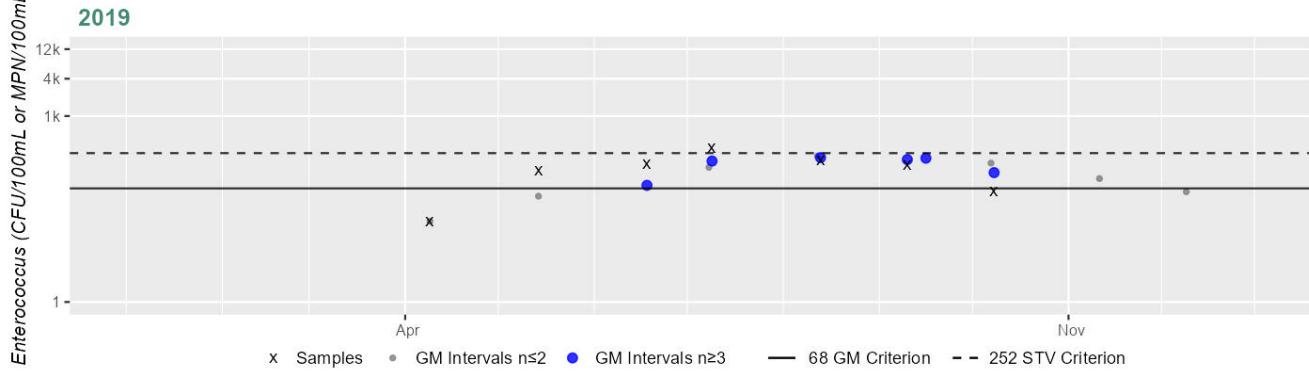
(TRWA 2020) (MassDEP Undated 2)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
TRWA_TMR-01	Taunton River Watershed Association	Enterococci	04/09/19	10/08/19	7	20	300	113

Station TRWA_TMR-01 - Enterococcus

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	7
SeasGM	113
#GMI	6
#GMI Ex	6
%GMI Ex	100%
n>STV	1
%n>STV	14%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary

Threemile River (MA62-57): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0163 sq mi (76%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than "approved", the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Thurston Street Pond (MA62192)

Location:	Wrentham.
AU Type:	FRESHWATER LAKE
AU Size:	7 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Thurston Street Pond (MA62192) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Tispaquin Pond (MA62195)

Location:	Middleborough.
AU Type:	FRESHWATER LAKE
AU Size:	195 ACRES
Classification/Qualifier:	B

No usable data were available for Tispaquin Pond (MA62195) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Town River (MA62-11)

Location:	Headwaters, outlet Lake Nippenicket, Bridgewater to Route 28 bridge, West Bridgewater.
AU Type:	RIVER
AU Size:	4.5 MILES
Classification/Qualifier:	B

No usable data were available for Town River (MA62-11) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fish Passage Barrier*)	--	Unchanged

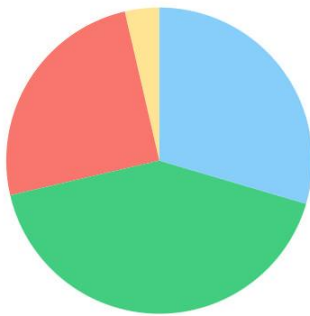
Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--

Town River (MA62-12)

Location:	Route 28 bridge, West Bridgewater to Bridgewater WWTP (NPDES: MA0100641) discharge, Bridgewater.
AU Type:	RIVER
AU Size:	3.9 MILES
Classification/Qualifier:	B

Town River (MA62-12)

Watershed Area: 55.87 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	55.87	9.19	16.86	2.66
Agriculture	3.6%	9.7%	4.5%	12.9%
Developed	25%	27.5%	17.2%	18%
Natural	41.8%	32.1%	41%	28%
Wetland	29.6%	30.8%	37.3%	41.1%
Impervious	12.7%	12.9%	8.5%	8.4%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	5	(Fish Passage Barrier*)	--	Unchanged
4c	5	Escherichia Coli (E. Coli)	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Town River (MA62-12) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Town River AU (MA62-12) is assessed as Fully Supporting based on the general lack of objectionable conditions documented by MassDEP staff at one station surveyed in the summer of 2019. MassDEP staff recorded aesthetics observations at one station close to the downstream end of this Town River AU ~900 feet downstream/east of Broad St (Rt. 18), Bridgewater (W2831) during the summer of 2019 for selected monitoring (n=8). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2831	MassDEP	Water Quality	Town River	[approximately 900 feet downstream/east of Broad Street (Route 18), Bridgewater]	41.995028	-70.970756

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2831	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2831 on Town River (MA62-12) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2831	2019	8	5	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2831	Town River	2019	Aesthetics Impaired?	No	8	8
W2831	Town River	2019	Aquatic Plant Density, Overall	None	4	8
W2831	Town River	2019	Aquatic Plant Density, Overall	Sparse	1	8
W2831	Town River	2019	Aquatic Plant Density, Overall	Unobservable	3	8
W2831	Town River	2019	Color	Light Yellow/Tan	7	8
W2831	Town River	2019	Color	Reddish	1	8
W2831	Town River	2019	Objectionable Deposits	No	6	8
W2831	Town River	2019	Objectionable Deposits	Unobservable	1	8
W2831	Town River	2019	Objectionable Deposits	Yes	1	8
W2831	Town River	2019	Odor	None	7	8
W2831	Town River	2019	Odor	Unobservable	1	8
W2831	Town River	2019	Periphyton Density, Filamentous	None	5	8
W2831	Town River	2019	Periphyton Density, Filamentous	Unobservable	3	8
W2831	Town River	2019	Periphyton Density, Film	None	5	8
W2831	Town River	2019	Periphyton Density, Film	Unobservable	3	8
W2831	Town River	2019	Scum	No	8	8
W2831	Town River	2019	Turbidity	Moderately Turbid	1	8
W2831	Town River	2019	Turbidity	None	4	8
W2831	Town River	2019	Turbidity	Slightly Turbid	3	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Town River (MA62-12) is assessed as Not Supporting. An *Escherichia coli* (*E. coli*) impairment is being added due to bacteria data exceeding thresholds at one station in 2019. MassDEP staff collected *E. coli* bacteria samples close to the downstream end of this Town River AU at W2831 [~900 ft downstream/east of Broad St (Rt. 18), Bridgewater] from Jun-Aug 2019 (n=6). Analysis of the single year limited frequency dataset from this station indicated 100% of intervals had GMs >126 CFU/100ml, 1 sample exceeded the 410 CFU/100ml STV (1,410 CFU), and the seasonal GM was 182 CFU/100ml. The *E. coli* data collected from W2831 are indicative of an *E. coli* impairment. In addition, surface water sampling was conducted by the USGS upstream of the Bridgewater WWTF discharge on the Town River at station USGS_01107100 on three dates during September to October 2020, as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2831	MassDEP	Water Quality	Town River	[approximately 900 feet downstream/east of Broad Street (Route 18), Bridgewater]	41.995028	-70.970756
USGS-01107100	USGS Massachusetts Water Science Center	Water Quality	Town River	TOWN RIVER AT BRIDGEWATER, MA; upstream of Bridgewater WWTF	41.997000	-70.973000

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

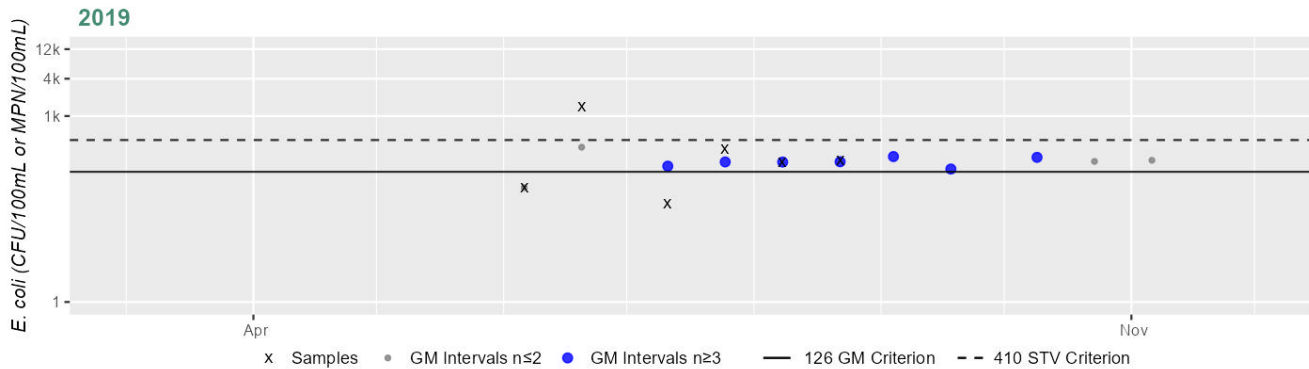
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2831	MassDEP	E. coli	06/06/19	08/22/19	6	38	1410	182

Station MASSDEP_W2831 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	182
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Other Indicators

Summary Statement(s) for USGS 2020 PFAS in Water Column Data (Savoie and Argue 2023) (MassDEP Undated 3)

Summary
Surface water sampling was conducted by the USGS upstream of the Bridgewater WWTF discharge on the Town River (MA62-12) at station USGS_01107100 on three dates during September to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).

USGS 2020 PFAS in Water Column Data Collected Upstream and Downstream of Wastewater Treatment Facilities (Savoie and Argue 2023) (MassDEP Undated 3)

[The ΣPFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here). * indicates the ΣPFAS6 concentration is qualified since data for one or more individual PFAS6 analytes were qualified. A concentration with a "<" was less than the reporting detection limit (RDL) and the RDL was used to calculate the ΣPFAS6. E = qualifier "value is estimated"; V = qualifier "value affected by field or laboratory contamination"]

Station Code	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	ΣPFAS6 ng/L
USGS-01107100	9/1/2020	7.89	E16.2	E1.32	4.45	4.47	3.84	33.9*
USGS-01107100	9/24/2020	7.94	E15.1	E1.13	5.46	4.48	3.82	33.9*
USGS-01107100	10/21/2020	E6.04	E16.8	V1.22	8.84	4.85	4.8	37.3*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
<p>Too limited bacteria data are available to assess the Secondary Contact Recreation Use for the Town River (MA62-12) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected <i>E. coli</i> bacteria samples close to the downstream end of this Town River AU at W2831 [~900 ft downstream/east of Broad St (Rt. 18), Bridgewater] from Jun-Aug 2019 (n=6). Analysis of the single year limited frequency dataset from this station indicated 0% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV (1,410 CFU) and the overall GM was 182 CFU/100ml. Because <i>E. coli</i> data from W2831 are single year, limited frequency and analysis of the data resulted in a GM below the threshold but also an exceedance of the STV threshold, the data are too limited to assess the Secondary Contact Recreation Use.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2831	MassDEP	Water Quality	Town River	[approximately 900 feet downstream/east of Broad Street (Route 18), Bridgewater]	41.995028	-70.970756

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

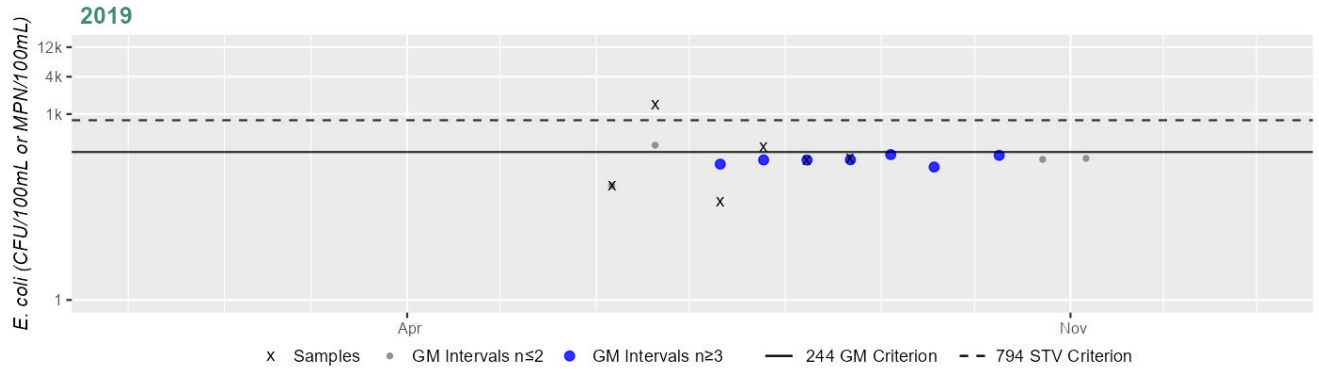
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2831	MassDEP	E. coli	06/06/19	08/22/19	6	38	1410	182

Station MASSDEP_W2831 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	182
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

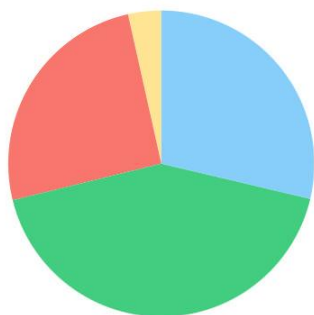
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Town River (MA62-13)

Location:	From Bridgewater WWTP (NPDES: MA0100641) discharge, Bridgewater to mouth at confluence with the Matfield River forming headwaters Taunton River, Bridgewater.
AU Type:	RIVER
AU Size:	2.3 MILES
Classification/Qualifier:	B: WWF

Town River (MA62-13)

Watershed Area: 60.16 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	60.16	8.11	18.14	2.10
Agriculture	3.5%	1.9%	4.3%	1.4%
Developed	25.3%	35.5%	16.9%	21.8%
Natural	42.5%	45.8%	41.8%	47.3%
Wetland	28.7%	16.9%	36.9%	29.5%
Impervious	12.7%	16%	8.3%	9.7%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Non-Native Aquatic Plants*)	--	Unchanged
5	5	Benthic Macroinvertebrates	--	Unchanged
5	5	Enterococcus	--	Unchanged
5	5	Escherichia Coli (E. Coli)	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--
Enterococcus	Source Unknown (N)	--	--	--	X	--
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Town River (MA62-13) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO
2024/26 Use Attainment Summary	
The Aesthetics Use for Town River (MA62-13) is assessed as Fully Supporting based on the lack of objectionable conditions documented by MassDEP staff at one station surveyed in the summers of 2013 and 2019. MassDEP staff recorded aesthetics observations at one station in the downstream half of this Town River AU ~25 ft upstream/west from Hayward St. in Bridgewater (W2405), as part of the MAP2 wadeable streams monitoring project, during the summer of 2013 (n=8) and during the summer of 2019 for selected monitoring (n=8). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though minor trash was observed on two occasions in 2013.	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2405	MassDEP	Water Quality	Town River	[approximately 25 feet upstream/west from Hayward Street, Bridgewater]	41.997462	-70.953869

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2405	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2405 on Town River (MA62-13) during 8 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted objectionable deposits (n=2).
W2405	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2405 on Town River (MA62-13) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2405	2013	8	4	0
W2405	2019	8	3	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2405	Town River	2013	Aesthetics Impaired?	No	8	8
W2405	Town River	2013	Aquatic Plant Density, Overall	Moderate	4	8
W2405	Town River	2013	Aquatic Plant Density, Overall	Sparse	1	8
W2405	Town River	2013	Aquatic Plant Density, Overall	Unobservable	3	8
W2405	Town River	2013	Color	Brownish	1	8
W2405	Town River	2013	Color	Light Yellow/Tan	6	8
W2405	Town River	2013	Color	None	1	8
W2405	Town River	2013	Objectionable Deposits	No	6	8
W2405	Town River	2013	Objectionable Deposits	Yes	2	8
W2405	Town River	2013	Odor	Musty (Basement)	2	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2405	Town River	2013	Odor	None	6	8
W2405	Town River	2013	Periphyton Density, Filamentous	Moderate	1	8
W2405	Town River	2013	Periphyton Density, Filamentous	None	2	8
W2405	Town River	2013	Periphyton Density, Filamentous	Sparse	1	8
W2405	Town River	2013	Periphyton Density, Filamentous	Unobservable	4	8
W2405	Town River	2013	Periphyton Density, Film	Moderate	1	8
W2405	Town River	2013	Periphyton Density, Film	None	3	8
W2405	Town River	2013	Periphyton Density, Film	Unobservable	4	8
W2405	Town River	2013	Scum	No	7	8
W2405	Town River	2013	Scum	Yes	1	8
W2405	Town River	2013	Turbidity	None	3	8
W2405	Town River	2013	Turbidity	Slightly Turbid	4	8
W2405	Town River	2013	Turbidity	Unobservable	1	8
W2405	Town River	2019	Aesthetics Impaired?	No	8	8
W2405	Town River	2019	Aquatic Plant Density, Overall	None	2	8
W2405	Town River	2019	Aquatic Plant Density, Overall	Sparse	2	8
W2405	Town River	2019	Aquatic Plant Density, Overall	Unobservable	4	8
W2405	Town River	2019	Color	Light Yellow/Tan	7	8
W2405	Town River	2019	Color	Reddish	1	8
W2405	Town River	2019	Objectionable Deposits	No	7	8
W2405	Town River	2019	Objectionable Deposits	Unobservable	1	8
W2405	Town River	2019	Odor	Effluent (Treated)	1	8
W2405	Town River	2019	Odor	None	7	8
W2405	Town River	2019	Periphyton Density, Filamentous	None	3	8
W2405	Town River	2019	Periphyton Density, Filamentous	Unobservable	5	8
W2405	Town River	2019	Periphyton Density, Film	None	3	8
W2405	Town River	2019	Periphyton Density, Film	Unobservable	5	8
W2405	Town River	2019	Scum	No	7	8
W2405	Town River	2019	Scum	Yes	1	8
W2405	Town River	2019	Turbidity	None	4	8
W2405	Town River	2019	Turbidity	Slightly Turbid	4	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Town River (MA62-13) continues to be assessed as Not Supporting. The prior *Enterococcus* impairment is being carried forward based on bacteria data exceeding thresholds at one station in 2019. A new *Escherichia coli* (*E. coli*) impairment is being added due to bacteria data exceeding thresholds at one station in 2013 & 2019. The prior Alert identified for *Escherichia coli* (*E. coli*) is being removed in light of the new impairment for the same issue.

MassDEP and Taunton River Watershed Alliance (TRWA) staff/volunteers collected *E. coli* (EC) and *Enterococcus* (Ent) bacteria samples at two stations in the downstream half of this Town River AU in 2013 & 2019, with the stations/sample years as follows: W2405 [~25 ft upstream/west from Hayward St, Bridgewater] in 2013 and 2019 (EC n=5-6/yr) and TRWA_TWH-01 [Hayward St bridge, Bridgewater] in 2019 (EC n=7). Analysis of the multi-year limited frequency *E. coli* dataset from W2405 indicated 2 out of 2 sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml (66% & 100% in 2013 & 2019 respectively) and cumulatively across years 90% of intervals had GMs >126 CFU/100ml. Additionally in 2019 three samples exceeded the 410 CFU/100ml STV (maximum 1,990 CFU). Analysis of the single year moderate frequency *Enterococcus* dataset from TRWA_TWH-01 indicated 100% of intervals had GMs >35 CFU/100ml and 2 samples exceeded the 130 CFU/100ml STV (maximum 1,810 CFU). The bacteria data from W2405 and TRWA_TWH-01 are indicative of *E. coli* and *Enterococcus* impairments respectively. In addition, surface water sampling was conducted by the USGS also at Hayward St (downstream of the Bridgewater WWTF discharge on the Town River) at station USGS_01107102, on three dates during September to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2405	MassDEP	Water Quality	Town River	[approximately 25 feet upstream/west from Hayward Street, Bridgewater]	41.997462	-70.953869
TRWA_TWH-01	Taunton River Watershed Alliance	Water Quality	Town River	Town R., Br, Hayward St., Bridgewater	41.997585	-70.953649
USGS-01107102	USGS Massachusetts Water Science Center	Water Quality	Town River	TOWN RIVER AT HAYWARD ST, BRIDGEWATER, MA; downstream of Bridgewater WWTF	41.998000	-70.954000

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (30-day Interval Analysis)

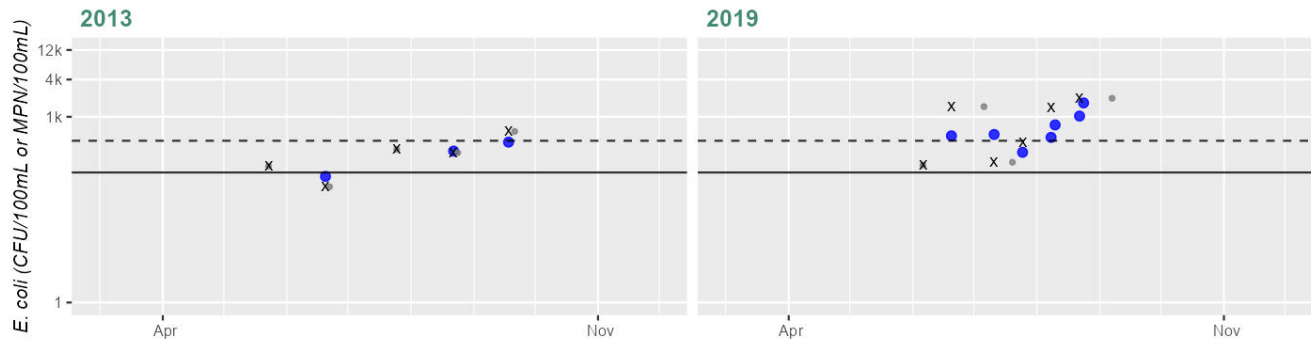
(MassDEP Undated 9) (MassDEP Undated 5) (TRWA 2020) (MassDEP Undated 3)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2405	MassDEP	E. coli	05/23/13	09/18/13	5	74	580	221
W2405	MassDEP	E. coli	06/06/19	08/22/19	6	166	1990	603
TRWA_TWH-01	Taunton River Watershed Association	Enterococcus	04/09/19	10/08/19	7	20	1810	147

Station MASSDEP_W2405 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



x Samples • GM Intervals n=1 ● GM Intervals n≥2 — 126 GM Criterion - - 410 STV Criterion

Variable*	Result
Samples	5
SeasGM	221
#GMI	3
#GMI Ex	2
%GMI Ex	66%
n>STV	1
%n>STV	20%

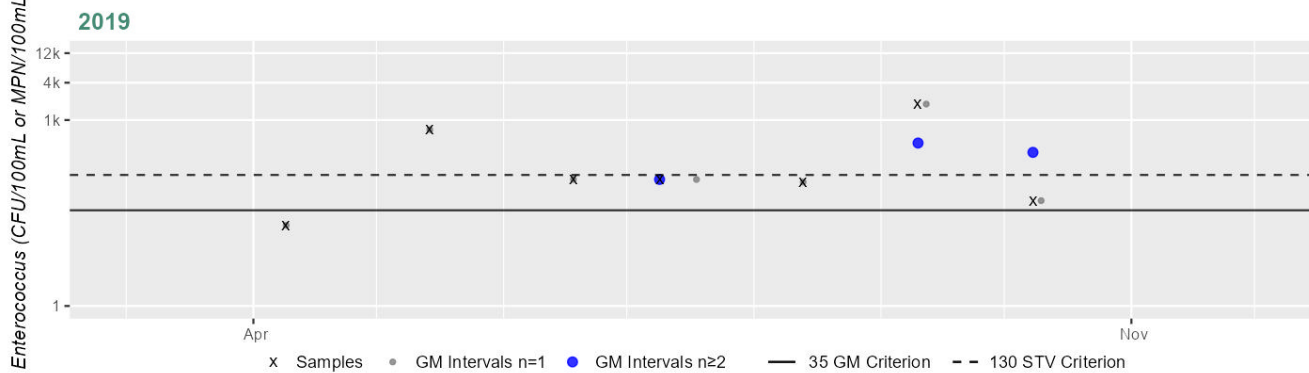
Variable*	Result
Samples	6
SeasGM	603
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	3
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
90%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station TRWA_TWH-01 - Enterococcus

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	7
SeasGM	147
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	2
%n>STV	28%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Other Indicators

Summary Statement(s) for USGS 2020 PFAS in Water Column Data (Savoie and Argue 2023) (MassDEP Undated 3)

Summary
Surface water sampling was conducted by the USGS downstream of the Bridgewater WWTF discharge on the Town River (MA62-13) at station USGS_01107102 on three dates during September to October 2020 as part of a MassDEP funded project to evaluate 24 PFAS analytes in ambient water samples upstream and downstream of wastewater treatment facilities. The concentrations of six of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS) were all less than the 90 ng/L (ppt) recreational screening value (HFPO-DA/GenX was not analyzed in this study).

USGS 2020 PFAS in Water Column Data Collected Upstream and Downstream of Wastewater Treatment Facilities (Savoie and Argue 2023) (MassDEP Undated 3)

[The ΣPFAS6 equals the sum of PFOA, PFOS, PFNA, PFHxS, PFDA, PFHpA (not all shown individually here). * indicates the ΣPFAS6 concentration is qualified since data for one or more individual PFAS6 analytes were qualified. A concentration with a "<" was less than the reporting detection limit (RDL) and the RDL was used to calculate the ΣPFAS6. E = qualifier "value is estimated"; V = qualifier "value affected by field or laboratory contamination"]

Station Code	Sample Date	PFOA ng/L	PFOS ng/L	PFNA ng/L	PFHxS ng/L	PFBA ng/L	PFBS ng/L	ΣPFAS6 ng/L
USGS-01107102	9/1/2020	8.16	E14.1	E1.35	3.8	5.04	5.07	31.5*
USGS-01107102	9/24/2020	8.59	E11.3	E1.13	3.91	4.07	4.46	28.9*
USGS-01107102	10/21/2020	E6.22	E14.6	V1.19	7.53	4.68	4.67	33.9*

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for the Town River (MA62-13) is assessed as Not Supporting. An <i>Escherichia coli</i> (<i>E. coli</i>) impairment is being added based on a re-evaluation of bacteria data exceeding thresholds, at one station in 2013 & 2019. MassDEP staff collected <i>E. coli</i> bacteria samples in the downstream half of this Town River AU at W2405 [~25 ft upstream/west from Hayward St, Bridgewater] in 2013 and 2019 (n=5-6/yr). Analysis of the multi-year limited frequency dataset from this station indicated 2 out of 2 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml (33% & 100% in 2013 and 2019 respectively) and cumulatively across years 80% of intervals had GMs >244 CFU/100ml. Additionally in 2019 three samples exceeded the 410 CFU/100ml STV (maximum 1,990 CFU). The bacteria data from W2405 are indicative of an <i>E. coli</i> impairment.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2405	MassDEP	Water Quality	Town River	[approximately 25 feet upstream/west from Hayward Street, Bridgewater]	41.997462	-70.953869

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

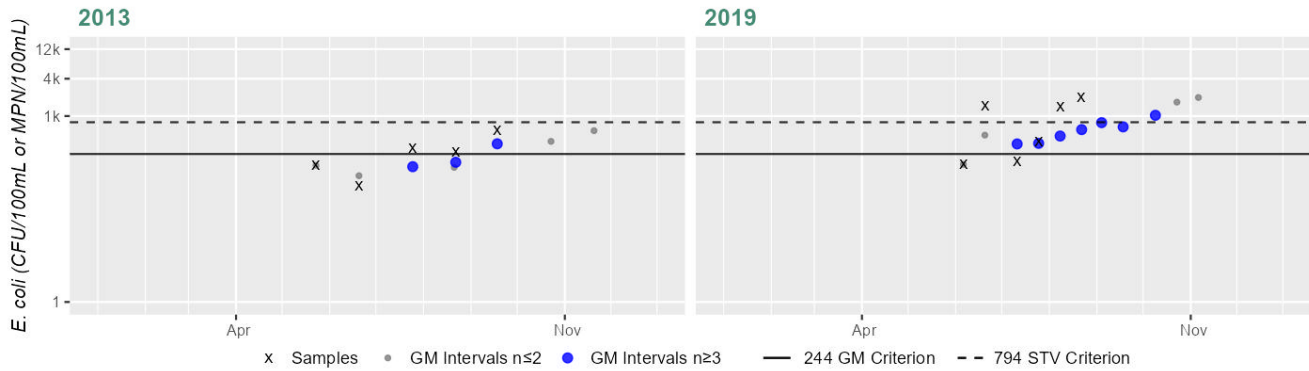
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2405	MassDEP	E. coli	05/23/13	09/18/13	5	74	580	221
W2405	MassDEP	E. coli	06/06/19	08/22/19	6	166	1990	603

Station MASSDEP_W2405 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	221
#GMI	3
#GMI Ex	1
%GMI Ex	33%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	6
SeasGM	603
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	3
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
 80%

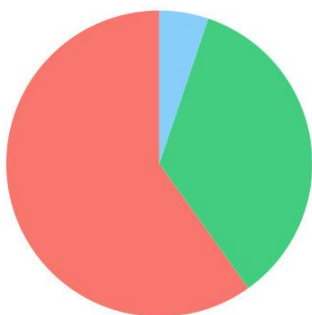
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Trout Brook (MA62-07)

Location:	Headwaters, perennial portion, northeast of Argyle Avenue and west of Conrail Line, Avon to mouth at confluence with Salisbury Brook forming headwaters Salisbury Plain River, Brockton.
AU Type:	RIVER
AU Size:	3.4 MILES
Classification/Qualifier:	B

Trout Brook (MA62-07)

Watershed Area: 6.97 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	6.97	5.59	1.52	1.09
Agriculture	0%	0%	0%	0%
Developed	59.9%	64.6%	42.7%	49%
Natural	34.9%	30.8%	40.6%	33.3%
Wetland	5.2%	4.6%	16.7%	17.6%
Impervious	35.4%	38.3%	24%	27.2%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Habitat Assessment*)	--	Unchanged
5	5	Benthic Macroinvertebrates	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	Escherichia Coli (E. Coli)	40308	Unchanged
5	5	Fecal Coliform	40308	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Habitat Assessment*)	Source Unknown (N)	X	--	--	--	--
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
Escherichia Coli (E. Coli)	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	X
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	X
Fecal Coliform	Discharges from Municipal Separate Storm Sewer Systems (MS4) (N)	--	--	--	X	X
Fecal Coliform	Source Unknown (N)	--	--	--	X	X

Recommendations

2024/26 Recommendations
<p>2016IR [Aquatic Plants, Low] It is recommended that additional aesthetics observations be collected for Trout Brook (MA62-07). Additional information regarding the dense macrophyte cover in a small impoundment upstream of Howard Street {W1535} is recommended, to investigate whether the macrophyte coverages are natural or symptomatic of nutrient enrichment. This issue was first observed in 2006 and no additional aesthetics observations have been recorded in this area since that time. This is of low priority;</p> <p>2024/26IR [Trash, Low] It is recommended that additional aesthetics observations be collected for Trout Brook (MA62-07) in particular between Crescent and Summer St. {W1493}, since abundant trash was reported on many occasions at this station in 2019. Should this AU be impaired for Aesthetics? This is of low priority;</p> <p>2024/26IR [Bacteria, Low] Additional high frequency monitoring should be conducted for Trout Brook (MA62-07) in particular in the area of Court Street {W1492} to confirm if this AU should be impaired for <i>Enterococcus</i>. An Alert was identified for <i>Enterococcus</i> based on the single sample collected at {W1492} in 2018, because it was extremely elevated (1,400 CFU). This AU is already impaired for <i>E. coli</i> and Fecal Coliform. This is of low priority.</p>

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary

Fish toxics sampling has not been conducted, so the Fish Consumption Use for Trout Brook (MA62-07) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary

The Aesthetics Use for Trout Brook (MA62-07) will continue to be assessed as Fully Supporting based on observations at eight stations in 2011-2013, 2018 & 2019. The Alert for Aquatic Plants (Macrophytes) based on macrophyte cover observed in a small impoundment upstream of Howard Street (W1535) in 2006 is being carried forward, since additional aesthetics observations have not been recorded in this area since that time. A new Alert for Trash is being added due to the observations of abundant trash between Crescent and Summer St. (W1493) in 2019. MassDEP staff recorded aesthetics observations at eight stations along Trout Brook in Brockton, during the summers of 2011, 2012, 2013, 2018 and 2019 as part of the MassDEP Bacteria Source Tracking (BST) project (limited observations with n=1-3/yr) and during the summer of 2019 for selected monitoring (n=8). The station descriptions from upstream to downstream are as follows: ~400 ft upstream of Ames St. (W2299), just upstream of the culvert going under Ames St. (W2301), ~200ft south of Ames St. (where culverted brook re-emerges) (W1534), at Elliot St. crossing (W1533), at Court St. bridge (W1492), at Center St. (Rt. 123) (W1621), at the trail crossing in Snow Park (~1000 ft downstream of Rt. 123) (W1622) and close to the downstream end of the AU between Crescent and Summer St. (downstream of discharge pipe under Crescent St.) (W1493). There were generally no persistent objectionable conditions (odors, deposits, growth, or turbidity) recorded by MassDEP staff at most sites at any time, although at site W1493 field staff did note moderate turbidity in 2013 as well as moderate to abundant trash during every site visit in 2019 (i.e. n=8). In addition, MassDEP field staff did raise an aesthetics flag in August 2019 at the same station, due to the abundant trash observed.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1492	MassDEP	Water Quality	Trout Brook	[Court Street bridge, Brockton]	42.086202	-71.013320
W1493	MassDEP	Water Quality	Trout Brook	[between Crescent and Summer streets (downstream of discharge pipe under Crescent Street), Brockton]	42.079646	-71.009307
W1533	MassDEP	Water Quality	Trout Brook	[Elliot Street crossing, Brockton]	42.090856	-71.012184
W1534	MassDEP	Water Quality	Trout Brook	[approximately 200 feet south of Ames Street (where culverted brook re-emerges), Brockton]	42.101749	-71.016937
W1621	MassDEP	Water Quality	Trout Brook	[downstream at Center Street (Route 123), Brockton]	42.083929	-71.012232

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1622	MassDEP	Water Quality	Trout Brook	[trail crossing in Snow Park (approximately 1000 feet downstream of Route 123), Brockton]	42.082115	-71.010018
W2299	MassDEP	Water Quality	Trout Brook	[approximately 400 feet upstream of Ames Street and approximately 25 feet upstream of unnamed tributary entering eastern bank, Brockton]	42.103391	-71.017731
W2301	MassDEP	Water Quality	Trout Brook	[just upstream of culvert going under Ames Street, Brockton (culvert entrance approximately 400 feet upstream/north of road)]	42.103212	-71.017611

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W1492	2018	1	Aesthetic observations were made by MassDEP field sampling crews at Station W1492 on Trout Brook (MA62-07) during 1 site visit on Aug 01, 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W1492	2019	2	Aesthetic observations were made by MassDEP field sampling crews at Station W1492 on Trout Brook (MA62-07) during 2 site visits between May 2019 and Aug 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W1493	2013	3	Aesthetic observations were made by MassDEP field sampling crews at Station W1493 on Trout Brook (MA62-07) during 3 site visits between Jul 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted moderate turbidity (n=3).
W1493	2018	3	Aesthetic observations were made by MassDEP field sampling crews at Station W1493 on Trout Brook (MA62-07) during 3 site visits between Jun 2018 and Aug 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W1493	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W1493 on Trout Brook (MA62-07) during 8 site visits between May 2019 and Sep 2019. There were some objectionable conditions recorded, including abundant trash (n=5). Field staff also noted an aesthetics impairment flag (n=1) and objectionable deposits (n=8). These conditions are indicative of an Alert status.
W1533	2018	2	Aesthetic observations were made by MassDEP field sampling crews at Station W1533 on Trout Brook (MA62-07) during 2 site visits between Jul 2018 and Aug 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W1534	2018	2	Aesthetic observations were made by MassDEP field sampling crews at Station W1534 on Trout Brook (MA62-07) during 2 site visits between Jun 2018 and Jul 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W1621	2013	3	Aesthetic observations were made by MassDEP field sampling crews at Station W1621 on Trout Brook (MA62-07) during 3 site visits between Jul 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W1622	2018	2	Aesthetic observations were made by MassDEP field sampling crews at Station W1622 on Trout Brook (MA62-07) during 2 site visits between Jul 2018 and Aug 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2299	2011	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2299 on Trout Brook (MA62-07) during 2 site visits between Jun 2011 and Aug 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2299	2012	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2299 on Trout Brook (MA62-07) during 2 site visits in Jun 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2299	2013	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2299 on Trout Brook (MA62-07) during 2 site visits between Jul 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2301	2011	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2301 on Trout Brook (MA62-07) during 2 site visits between Jun 2011 and Aug 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2301	2013	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2301 on Trout Brook (MA62-07) during 2 site visits between Jul 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W1492	2018	1	1	0
W1493	2013	3	3	0
W1493	2018	3	3	0
W1493	2019	8	8	0
W1533	2018	2	2	0
W1534	2018	2	2	0
W1621	2013	3	3	0
W1622	2018	2	2	0
W2299	2011	2	2	0
W2299	2012	2	2	0
W2299	2013	2	2	0

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2301	2011	2	2	0
W2301	2013	2	2	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1492	Trout Brook	2018	Aquatic Plant Density, Overall	None	1	1
W1492	Trout Brook	2018	Color	None	1	1
W1492	Trout Brook	2018	Odor	None	1	1
W1492	Trout Brook	2018	Periphyton Density, Filamentous	None	1	1
W1492	Trout Brook	2018	Periphyton Density, Film	None	1	1
W1492	Trout Brook	2018	Turbidity	Slightly Turbid	1	1
W1492	Trout Brook	2019	Color	Light Yellow/Tan	1	2
W1492	Trout Brook	2019	Color	None	1	2
W1492	Trout Brook	2019	Odor	None	2	2
W1492	Trout Brook	2019	Turbidity	Slightly Turbid	2	2
W1493	Trout Brook	2013	Aquatic Plant Density, Overall	None	3	3
W1493	Trout Brook	2013	Color	None	3	3
W1493	Trout Brook	2013	Odor	None	2	3
W1493	Trout Brook	2013	Odor	Septic	1	3
W1493	Trout Brook	2013	Periphyton Density, Filamentous	None	3	3
W1493	Trout Brook	2013	Periphyton Density, Film	Moderate	1	3
W1493	Trout Brook	2013	Periphyton Density, Film	Sparse	2	3
W1493	Trout Brook	2013	Turbidity	Moderately Turbid	3	3
W1493	Trout Brook	2018	Aquatic Plant Density, Overall	None	1	3
W1493	Trout Brook	2018	Aquatic Plant Density, Overall	Sparse	2	3
W1493	Trout Brook	2018	Color	Light Yellow/Tan	1	3
W1493	Trout Brook	2018	Color	None	2	3
W1493	Trout Brook	2018	Odor	Musty (Basement)	1	3
W1493	Trout Brook	2018	Odor	None	2	3
W1493	Trout Brook	2018	Periphyton Density, Filamentous	None	3	3
W1493	Trout Brook	2018	Periphyton Density, Film	Moderate	1	3
W1493	Trout Brook	2018	Periphyton Density, Film	Sparse	2	3
W1493	Trout Brook	2018	Turbidity	Slightly Turbid	3	3
W1493	Trout Brook	2019	Aesthetics Impaired?	No	7	8
W1493	Trout Brook	2019	Aesthetics Impaired?	Yes	1	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1493	Trout Brook	2019	Aquatic Plant Density, Overall	Moderate	1	8
W1493	Trout Brook	2019	Aquatic Plant Density, Overall	None	7	8
W1493	Trout Brook	2019	Color	Light Yellow/Tan	4	8
W1493	Trout Brook	2019	Color	None	4	8
W1493	Trout Brook	2019	Objectionable Deposits	Yes	8	8
W1493	Trout Brook	2019	Odor	Musty (Basement)	1	8
W1493	Trout Brook	2019	Odor	None	7	8
W1493	Trout Brook	2019	Periphyton Density, Filamentous	None	7	8
W1493	Trout Brook	2019	Periphyton Density, Filamentous	Sparse	1	8
W1493	Trout Brook	2019	Periphyton Density, Film	None	8	8
W1493	Trout Brook	2019	Scum	No	8	8
W1493	Trout Brook	2019	Turbidity	None	5	8
W1493	Trout Brook	2019	Turbidity	Slightly Turbid	3	8
W1533	Trout Brook	2018	Aquatic Plant Density, Overall	Sparse	2	2
W1533	Trout Brook	2018	Color	None	2	2
W1533	Trout Brook	2018	Odor	None	2	2
W1533	Trout Brook	2018	Periphyton Density, Filamentous	None	2	2
W1533	Trout Brook	2018	Periphyton Density, Film	Moderate	1	2
W1533	Trout Brook	2018	Periphyton Density, Film	Sparse	1	2
W1533	Trout Brook	2018	Turbidity	Slightly Turbid	2	2
W1534	Trout Brook	2018	Aquatic Plant Density, Overall	Sparse	2	2
W1534	Trout Brook	2018	Color	None	2	2
W1534	Trout Brook	2018	Odor	None	2	2
W1534	Trout Brook	2018	Periphyton Density, Filamentous	None	2	2
W1534	Trout Brook	2018	Periphyton Density, Film	Sparse	2	2
W1534	Trout Brook	2018	Turbidity	Slightly Turbid	2	2
W1621	Trout Brook	2013	Aquatic Plant Density, Overall	None	3	3
W1621	Trout Brook	2013	Color	None	3	3
W1621	Trout Brook	2013	Odor	Musty (Basement)	1	3
W1621	Trout Brook	2013	Odor	None	2	3
W1621	Trout Brook	2013	Periphyton Density, Filamentous	None	3	3
W1621	Trout Brook	2013	Periphyton Density, Film	Sparse	3	3
W1621	Trout Brook	2013	Turbidity	Moderately Turbid	2	3
W1621	Trout Brook	2013	Turbidity	Slightly Turbid	1	3

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W1622	Trout Brook	2018	Aquatic Plant Density, Overall	Sparse	2	2
W1622	Trout Brook	2018	Color	None	2	2
W1622	Trout Brook	2018	Odor	None	2	2
W1622	Trout Brook	2018	Periphyton Density, Filamentous	None	2	2
W1622	Trout Brook	2018	Periphyton Density, Film	Moderate	1	2
W1622	Trout Brook	2018	Periphyton Density, Film	Sparse	1	2
W1622	Trout Brook	2018	Turbidity	Slightly Turbid	2	2
W2299	Trout Brook	2011	Aquatic Plant Density, Overall	Sparse	2	2
W2299	Trout Brook	2011	Color	None	2	2
W2299	Trout Brook	2011	Odor	None	1	2
W2299	Trout Brook	2011	Odor	Other (Metallic)	1	2
W2299	Trout Brook	2011	Periphyton Density, Filamentous	None	1	2
W2299	Trout Brook	2011	Periphyton Density, Filamentous	Sparse	1	2
W2299	Trout Brook	2011	Periphyton Density, Film	None	1	2
W2299	Trout Brook	2011	Periphyton Density, Film	Sparse	1	2
W2299	Trout Brook	2011	Turbidity	Slightly Turbid	2	2
W2299	Trout Brook	2012	Aquatic Plant Density, Overall	Dense	1	2
W2299	Trout Brook	2012	Aquatic Plant Density, Overall	Moderate	1	2
W2299	Trout Brook	2012	Color	None	2	2
W2299	Trout Brook	2012	Odor	None	2	2
W2299	Trout Brook	2012	Periphyton Density, Filamentous	None	2	2
W2299	Trout Brook	2012	Periphyton Density, Film	None	1	2
W2299	Trout Brook	2012	Periphyton Density, Film	Sparse	1	2
W2299	Trout Brook	2012	Turbidity	Slightly Turbid	2	2
W2299	Trout Brook	2013	Aquatic Plant Density, Overall	None	1	2
W2299	Trout Brook	2013	Aquatic Plant Density, Overall	Sparse	1	2
W2299	Trout Brook	2013	Color	None	2	2
W2299	Trout Brook	2013	Odor	None	2	2
W2299	Trout Brook	2013	Periphyton Density, Filamentous	None	2	2
W2299	Trout Brook	2013	Periphyton Density, Film	None	1	2
W2299	Trout Brook	2013	Periphyton Density, Film	Sparse	1	2
W2299	Trout Brook	2013	Turbidity	Slightly Turbid	2	2

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2301	Trout Brook	2011	Aquatic Plant Density, Overall	None	1	2
W2301	Trout Brook	2011	Aquatic Plant Density, Overall	Sparse	1	2
W2301	Trout Brook	2011	Color	None	2	2
W2301	Trout Brook	2011	Odor	None	2	2
W2301	Trout Brook	2011	Periphyton Density, Filamentous	None	1	2
W2301	Trout Brook	2011	Periphyton Density, Filamentous	Sparse	1	2
W2301	Trout Brook	2011	Periphyton Density, Film	None	1	2
W2301	Trout Brook	2011	Periphyton Density, Film	Sparse	1	2
W2301	Trout Brook	2011	Turbidity	Slightly Turbid	2	2
W2301	Trout Brook	2013	Aquatic Plant Density, Overall	None	1	2
W2301	Trout Brook	2013	Aquatic Plant Density, Overall	Sparse	1	2
W2301	Trout Brook	2013	Color	None	2	2
W2301	Trout Brook	2013	Odor	None	2	2
W2301	Trout Brook	2013	Periphyton Density, Filamentous	None	2	2
W2301	Trout Brook	2013	Periphyton Density, Film	None	1	2
W2301	Trout Brook	2013	Periphyton Density, Film	Sparse	1	2
W2301	Trout Brook	2013	Turbidity	Slightly Turbid	2	2

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	YES

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Trout Brook (MA62-07) continues to be assessed as Not Supporting. The prior *Escherichia coli* (*E. coli*) impairment is being carried forward based on bacteria data exceeding thresholds at two stations in 2013, 2018 & 2019. The prior Fecal Coliform impairment is being carried forward. An Alert is being identified for *Enterococcus* based on bacteria data exceeding thresholds at the Court St bridge in 2018-2019. The Alert for Aquatic Plants (Macrophytes) is being removed from the Recreational Uses but continues to be maintained under the Aesthetics Use. MassDEP staff collected *E. coli* (EC) and *Enterococcus* (Ent) bacteria samples in Trout Brook from 2011-2019 at 10 stations in Brockton. Samples were collected from the following stations/sample years from upstream to downstream: approximately halfway down the AU at W2299 [~400 ft upstream of Ames St & ~25 ft upstream of unnamed tributary entering E. bank] in 2011-2013 (EC n=2/yr & Ent n=1/yr), W2301 [just upstream of culvert under Ames St (culvert entrance ~400 ft upstream/N of Rd)] in 2011 and 2013 (EC n=2/yr), W1534 [~200 ft S of Ames St (where culverted brook re-emerges)] from 2018 (EC n=2), W1533 [Elliot St] from 2018 (EC n=2), W1492 [Court St] in 2018-2019 (EC n=1-2/yr & Ent n=1), W1621 [downstream at Center St (Rt. 123)] from 2013 (EC n=3), W1622 [trail crossing in Snow Park (~1000 ft downstream of Rt. 123)] from 2018 (EC n=2), W1493 [between Crescent & Summer Sts (downstream of discharge pipe under Crescent St)] in 2013 and 2018-2019 (EC n=3-6/yr). While *E. coli* data from 6 stations are too limited to assess the Primary Contact Recreation Use, bacteria data from the remaining 4 stations are sufficient. Analysis of the single year limited frequency *E. coli* dataset from W1621 indicated 100% of intervals had GMs >126 CFU/100ml, 3 samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 1,173 CFU/100ml. Analysis of the multi-year limited frequency *E. coli* dataset from W1493 indicated 3 out of 3 sufficient data yrs had intervals where >20% of the GMs were >126 CFU/100ml (100% in 2013 & 2018-2019), 3 yrs had ≥2 samples exceed the 410 CFU/100ml STV (2013 and 2018-2019, n=3-6), and cumulatively across years 100% of intervals had GMs >126 CFU/100ml. The bacteria data from W1621 and W1493 are indicative of an *E. coli* impairment. While the available *Enterococcus* data at station W1492 are too limited to assess according to the 2024 CALM, it should be noted that the single sample (collected in 2018) was extremely elevated at 1,400 CFU (clearly exceeding the 130 CFU/100ml STV). Consequently, an Alert is being identified for *Enterococcus* on Trout Brook. MassDEP Bacteria Source Tracking (BST) was conducted in 2011-2019 at 15 sites along Trout Brook, with most of that data summarized above. Three hotspot areas were identified: 1) just North of Ames St (one human source corrected on Field St between Morgan & Dyer St in 2012; one human source corrected on Bellavue Ave in 2015). 2) Just downstream of Court Street; human marker analysis was run on samples collected at Court Street in August 2018, the results indicated “weak” evidence of a human source (location of source narrowed down to a storm drain outfall pipe ~600ft upstream of Court St). 3) Just downstream of Crescent St. bridge (location of source narrowed down to storm drain outfall pipe under bridge; human sources corrected on Sprague Ave & Jacob St in 2014/2015). After these corrective actions were complete elevated bacteria concentrations continued to be observed intermittently at all hotspot areas and the city continues to monitor/sample all city drain outfall pipes, source tracking when necessary.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W1492	MassDEP	Water Quality	Trout Brook	[Court Street bridge, Brockton]	42.086202	-71.013320
W1493	MassDEP	Water Quality	Trout Brook	[between Crescent and Summer streets (downstream of discharge pipe under Crescent Street), Brockton]	42.079646	-71.009307
W1533	MassDEP	Water Quality	Trout Brook	[Elliot Street crossing, Brockton]	42.090856	-71.012184
W1534	MassDEP	Water Quality	Trout Brook	[approximately 200 feet south of Ames Street (where culverted brook re-emerges), Brockton]	42.101749	-71.016937
W1621	MassDEP	Water Quality	Trout Brook	[downstream at Center Street (Route 123), Brockton]	42.083929	-71.012232
W1622	MassDEP	Water Quality	Trout Brook	[trail crossing in Snow Park (approximately 1000 feet downstream of Route 123), Brockton]	42.082115	-71.010018
W2299	MassDEP	Water Quality	Trout Brook	[approximately 400 feet upstream of Ames Street and approximately 25 feet upstream of unnamed tributary entering eastern bank, Brockton]	42.103391	-71.017731
W2301	MassDEP	Water Quality	Trout Brook	[just upstream of culvert going under Ames Street, Brockton (culvert entrance approximately 400 feet upstream/north of road)]	42.103212	-71.017611

Bacteria Data

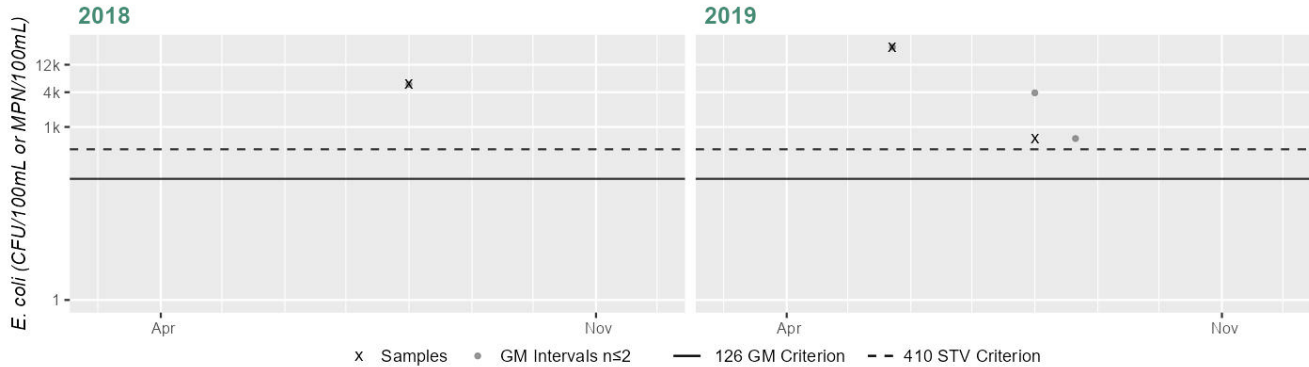
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis) (MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1492	MassDEP	E. coli	08/01/18	08/01/18	1	5480	5480	5480
W1492	MassDEP	Enterococci	08/08/18	08/08/18	1	1400	1400	1399
W1492	MassDEP	E. coli	05/23/19	08/01/19	2	630	24196	3904
W1493	MassDEP	E. coli	07/17/13	09/19/13	3	809	3130	1983
W1493	MassDEP	E. coli	06/27/18	08/01/18	3	1790	10500	3603
W1493	MassDEP	E. coli	06/13/19	08/29/19	6	727	7470	2305
W1533	MassDEP	E. coli	07/16/18	08/01/18	2	301	583	418
W1534	MassDEP	E. coli	06/18/18	07/16/18	2	1130	1350	1235
W1621	MassDEP	E. coli	07/17/13	09/19/13	3	1080	1280	1173
W1622	MassDEP	E. coli	07/16/18	08/01/18	2	1960	2140	2048
W2299	MassDEP	E. coli	06/08/11	08/03/11	2	1730	24196	6469
W2299	MassDEP	Enterococci	09/28/11	09/28/11	1	670	670	669
W2299	MassDEP	E. coli	06/12/12	06/19/12	2	24196	24200	24197
W2299	MassDEP	E. coli	07/17/13	09/19/13	2	464	1790	911
W2299	MassDEP	Enterococci	10/01/13	10/01/13	1	290	290	289
W2301	MassDEP	E. coli	06/08/11	08/03/11	2	2419	2419	2419
W2301	MassDEP	E. coli	07/17/13	09/19/13	2	3650	19860	8514

Station MASSDEP_W1492 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	5480
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	100%

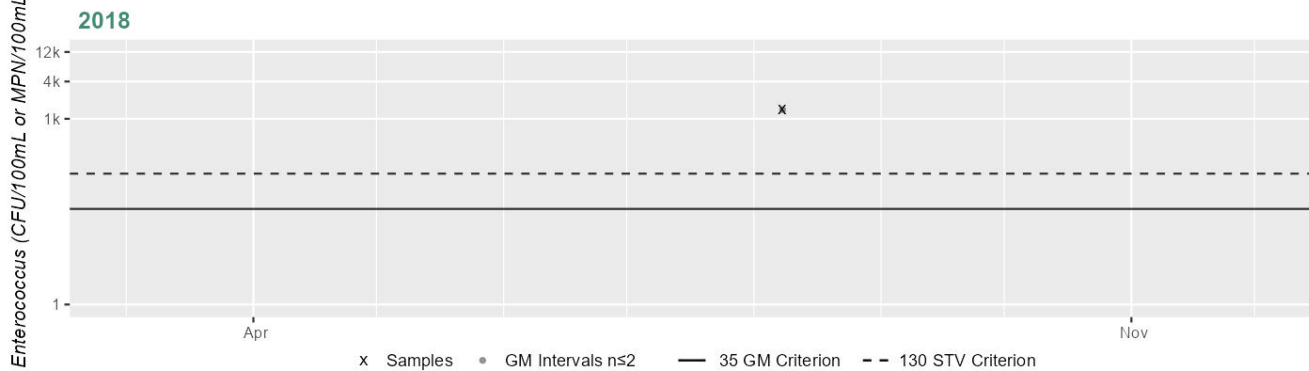
Variable*	Result
Samples	2
SeasGM	3904
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1492 - Enterococcus

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



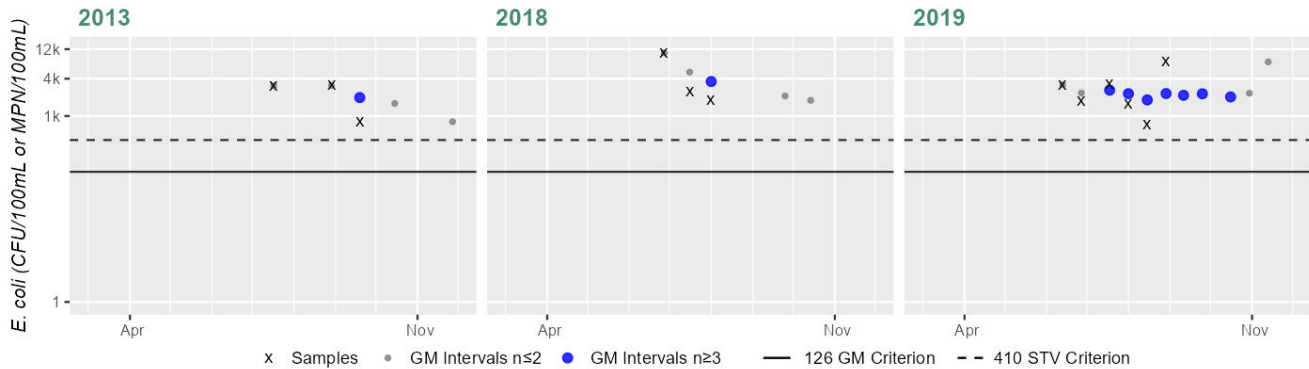
Variable*	Result
Samples	1
SeasGM	1400
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1493 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	3
SeasGM	1983
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	3
%n>STV	100%

Variable*	Result
Samples	3
SeasGM	3603
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	3
%n>STV	100%

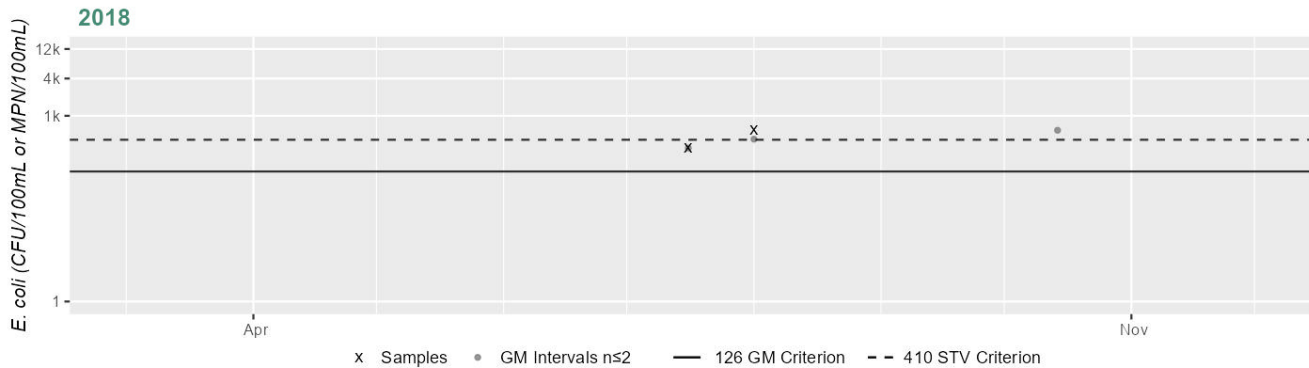
Variable*	Result
Samples	6
SeasGM	2305
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	6
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
 100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1533 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



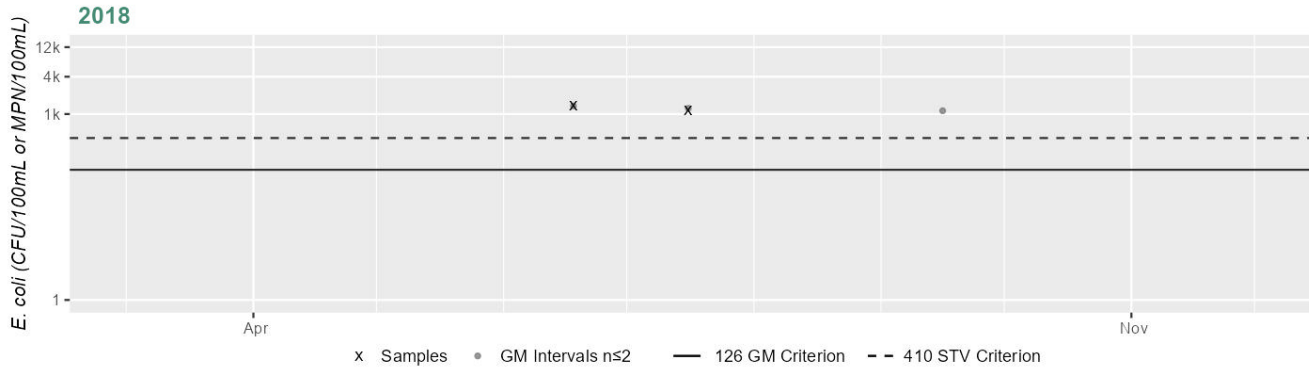
Variable*	Result
Samples	2
SeasGM	418
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1534 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



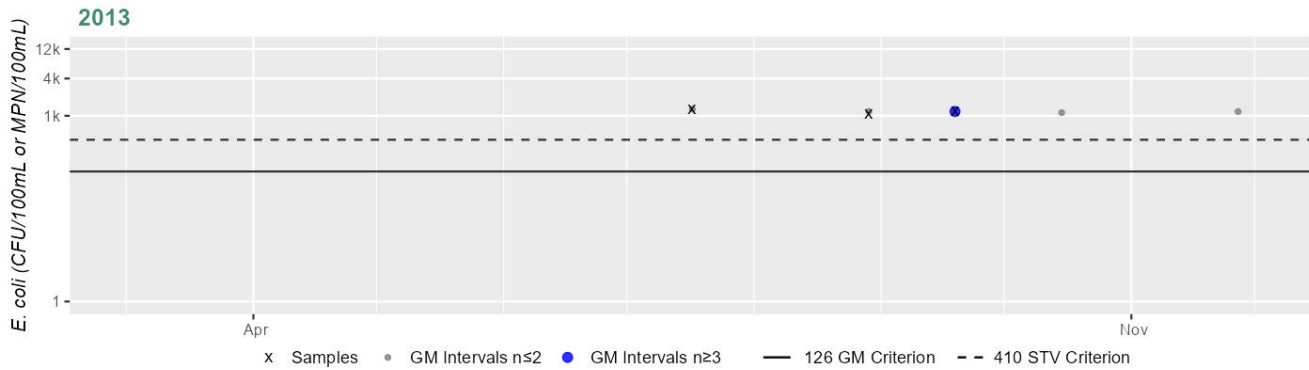
Variable*	Result
Samples	2
SeasGM	1235
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1621 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



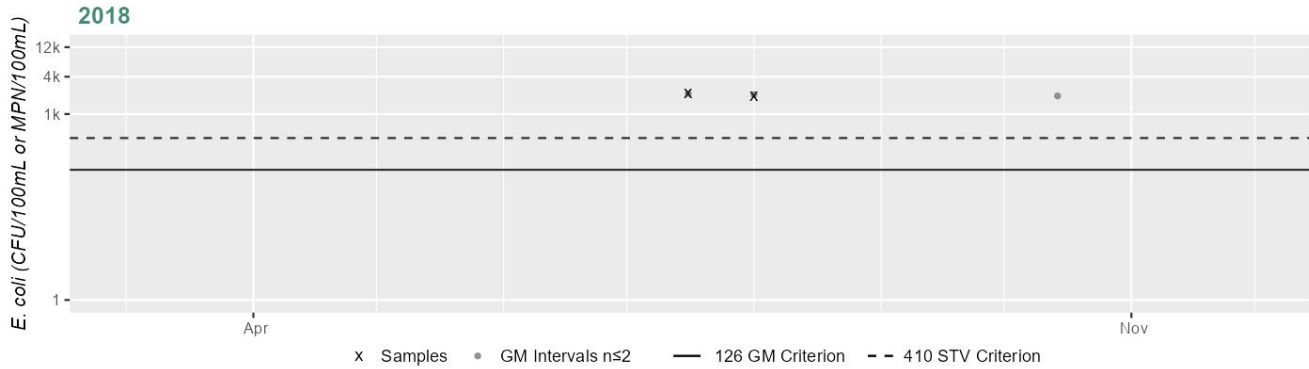
Variable*	Result
Samples	3
SeasGM	1173
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	3
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1622 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



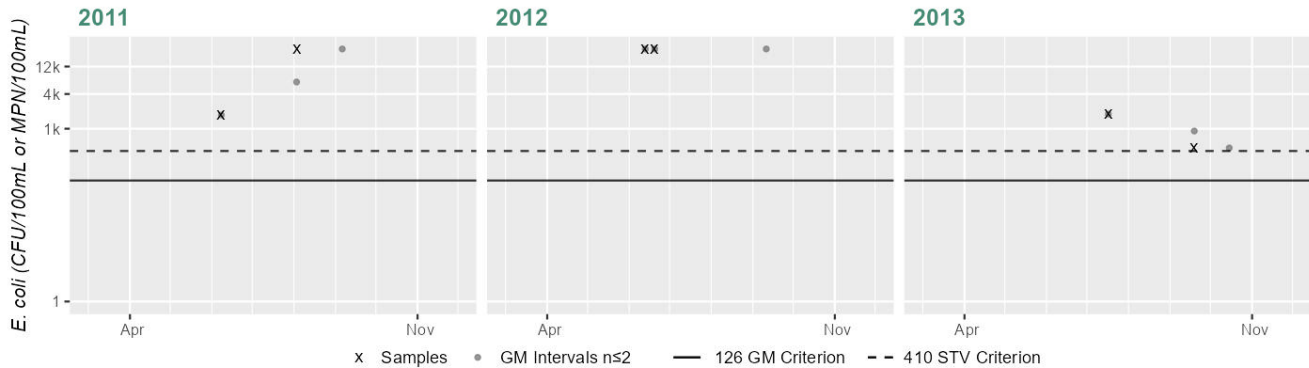
Variable*	Result
Samples	2
SeasGM	2048
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2299 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	6469
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Variable*	Result
Samples	2
SeasGM	24197
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

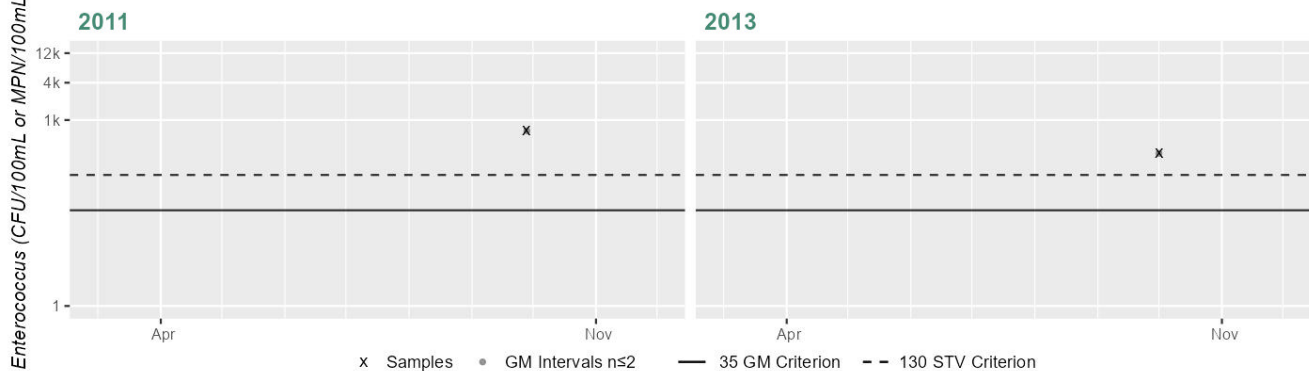
Variable*	Result
Samples	2
SeasGM	911
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2299 - Enterococcus

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	670
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	100%

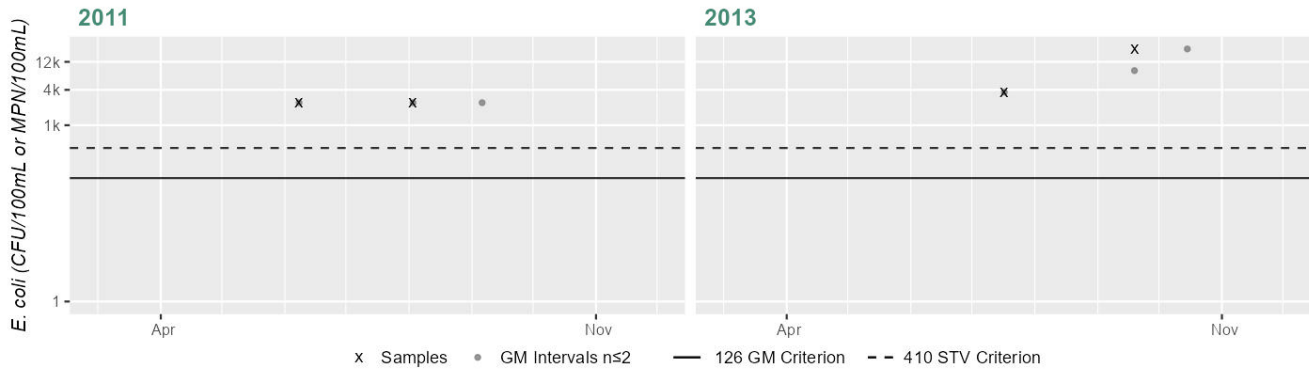
Variable*	Result
Samples	1
SeasGM	290
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2301 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	2419
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Variable*	Result
Samples	2
SeasGM	8514
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Summary Statement for 2011-2019 MassDEP Bacteria Source Tracking (BST) Data (MassDEP Undated 1)

Summary

Prior to 2011, BST work was conducted along the Trout Brook AU (MA62-07) and on one unnamed tributary, with a max dry weather *E. coli* concentration of 5,794MPN downstream of Crescent Street. Additional BST work was conducted in 2011-2019 at 15 sites along Trout Brook, with *E. coli* concentrations ranging <10 to 24,196MPN and on two unnamed tributaries at the upstream end of the AU, with a max *E. coli* concentration of 24,196MPN. Three hotspot areas were identified: 1) just North of Ames St (1 human source corrected on Field St between Morgan & Dyer St in 2012; 1 human source corrected on Bellvue Ave in 2015). 2) Just downstream of Court Street; human marker analysis was run on samples collected at Court Street in August 2018, the results indicated “weak” evidence of a human source (location of source narrowed down to a storm drain outfall pipe ~600ft upstream of Court St). 3) Just downstream of Crescent St. bridge (location of source narrowed down to storm drain outfall pipe under bridge; human sources corrected on Sprague Ave and Jacob Street St in 2014/2015). Elevated bacteria concentrations continue to be observed intermittently at all hotspot areas and the City continues to watch/sample all City drain outfall pipes, source tracking when necessary.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	

The Secondary Contact Recreation Use for Trout Brook (MA62-07) continues to be assessed as Not Supporting. The prior *Escherichia coli* (*E. coli*) impairment is being carried forward based on a re-evaluation of bacteria data exceeding thresholds at 2 stations in 2013, 2018 & 2019. The prior Fecal Coliform impairment is also being carried forward. The Alert for Aquatic Plants (Macrophytes) is being removed from the Recreational Uses but continues to be maintained under the Aesthetics Use. MassDEP staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in Trout Brook from 2006-2019 at 11 stations in Brockton (unless otherwise noted). Samples were collected from the following stations/sample years from upstream to downstream: W1536 [Connelly Rd crossing, Avon] from May-Aug 2006 (n=4), W1535 [Howard St] from May-Oct 2006 (n=6), W2299 [~400 ft US of Ames St & ~25 ft US of unnamed trib on E. bank] in 2011-2013 (n=2/yr), W2301 [US of culvert going under Ames St (culvert entrance ~400 ft US of Rd)] in 2011 and 2013 (n=2/yr), W1534 [~200 ft S of Ames St] from May-Oct 2006 (historic n=6) & Jun-Jul 2018 (current n=2), W1533 [Elliot St crossing] from May-Aug 2006 (historic n=6) and Jul-Aug 2018 (current n=2), W1613 [at rail crossing near the N. end of N Manchester St] from Jul-Aug 2006 (n=2), W1492 [Court St] from May-Oct 2006 (historic n=7) and 2018-2019 (current n=1-2/yr), W1621 [downstream at Center St] from Jul-Sep 2006 (historic n=3) and Jul-Sep 2013 (current n=3), W1622 [trail crossing in Snow Park (~1000 ft DS of Rt. 123)] from Jul-Sep 2006 (historic n=3) and Jul-Aug 2018 (current n=2), W1493 [btw Crescent & Summer St (DS of discharge pipe under Crescent St)] from May-Oct 2006 (historic n=11) and 2013 and 2018-2019 (current n=3-6/yr). Since data from the current IR window is indicative of poor water quality, only the analysis for data in the current IR window will be summarized here. While *E. coli* data from 6 stations sampled during the current IR window are too limited to assess the Secondary Contact Recreation Use, bacteria data from the remaining 2 stations in the current IR window are sufficient. Analysis of the single year limited frequency *E. coli* dataset from W1621 indicated 100% of intervals had GMs >244 CFU/100ml, 3 samples exceeded the 794 CFU/100ml STV, and the overall GM was 1,173 CFU/100ml. Analysis of the multi-year limited frequency *E. coli* dataset from W1493 indicated 3 out of 3 sufficient data yrs had intervals where >20% of the GMs were >244 CFU/100ml (100% in 2013 & 2018-2019), 3 yrs had ≥ 2 samples exceed the 794 CFU/100ml STV (2013 & 2018-2019, n=3-5), and cumulatively across years 100% of intervals had GMs >244 CFU/100ml. The bacteria data from W1621 and W1493 are indicative of an *E. coli* impairment. Based on sufficient data yrs, the *E. coli* data collected in both the historic & the current IR window for Trout Brook are all indicative of poor water quality conditions. MassDEP Bacteria Source Tracking (BST) was conducted in 2011-2019 at 15 sites along Trout Brook. Three hotspot areas were identified: 1) just North of Ames St (one human source corrected on Field St between Morgan & Dyer St in 2012; one human source corrected on Bellavue Ave in 2015). 2) Just downstream of Court Street; human marker analysis was run on samples collected at Court Street in August 2018, the results indicated “weak” evidence of a human source (location of source narrowed down to a storm drain outfall pipe ~600ft upstream of Court St). 3) Just downstream of Crescent St. bridge (location of source narrowed down to storm drain outfall pipe under bridge; human sources corrected on Sprague Ave & Jacob St in 2014/2015). After these corrective actions were complete elevated bacteria concentrations continued to be observed intermittently at all hotspot areas and the City continues to monitor/sample all City drain outfall pipes, source tracking when necessary.

Monitoring Stations

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W1533	MassDEP	Water Quality	Trout Brook	[Elliot Street crossing, Brockton]	42.090856	-71.012184
W1534	MassDEP	Water Quality	Trout Brook	[approximately 200 feet south of Ames Street (where culverted brook re-emerges), Brockton]	42.101749	-71.016937
W1535	MassDEP	Water Quality	Trout Brook	[Howard Street (Route 37), above culvert entrance, below pond, Brockton]	42.108390	-71.023558
W1536	MassDEP	Water Quality	Trout Brook	[Connelly Road crossing, Avon]	42.118330	-71.027429
W1613	MassDEP	Water Quality	Trout Brook	[at the railroad crossing near the northern end of North Manchester Street, Brockton]	42.089413	-71.011691
W1621	MassDEP	Water Quality	Trout Brook	[downstream at Center Street (Route 123), Brockton]	42.083929	-71.012232
W1622	MassDEP	Water Quality	Trout Brook	[trail crossing in Snow Park (approximately 1000 feet downstream of Route 123), Brockton]	42.082115	-71.010018
W2299	MassDEP	Water Quality	Trout Brook	[approximately 400 feet upstream of Ames Street and approximately 25 feet upstream of unnamed tributary entering eastern bank, Brockton]	42.103391	-71.017731
W2301	MassDEP	Water Quality	Trout Brook	[just upstream of culvert going under Ames Street, Brockton (culvert entrance approximately 400 feet upstream/north of road)]	42.103212	-71.017611

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

(MassDEP Undated 9) (MassDEP Undated 4)

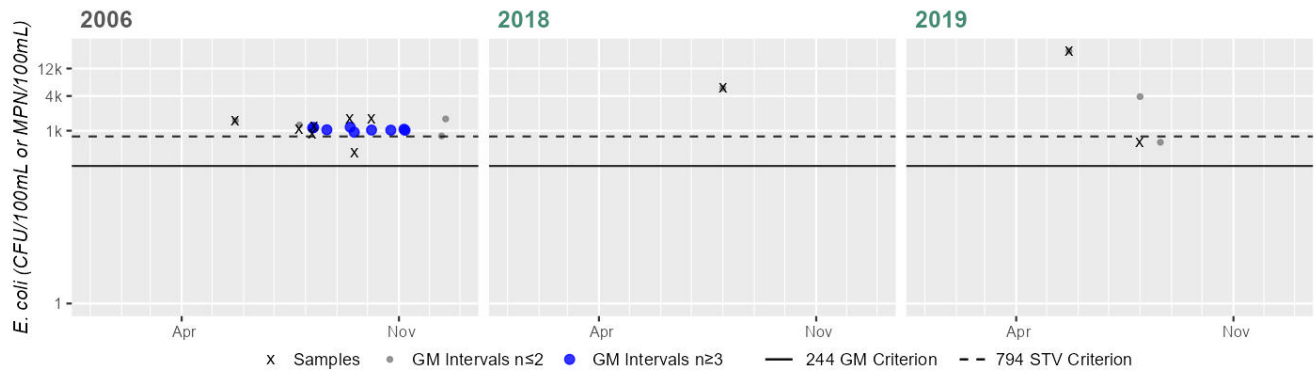
[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1492	MassDEP	E. coli	05/24/06	10/05/06	7	410	1600	1083
W1492	MassDEP	E. coli	08/01/18	08/01/18	1	5480	5480	5480
W1492	MassDEP	E. coli	05/23/19	08/01/19	2	630	24196	3904
W1493	MassDEP	E. coli	05/10/06	10/05/06	11	1600	241960	6104
W1493	MassDEP	E. coli	07/17/13	09/19/13	3	809	3130	1983
W1493	MassDEP	E. coli	06/27/18	08/01/18	3	1790	10500	3603
W1493	MassDEP	E. coli	06/13/19	08/29/19	6	727	7470	2305
W1533	MassDEP	E. coli	05/10/06	08/15/06	6	225	20140	1139
W1533	MassDEP	E. coli	07/16/18	08/01/18	2	301	583	418
W1534	MassDEP	E. coli	05/10/06	10/26/06	6	537	28510	2903
W1534	MassDEP	E. coli	06/18/18	07/16/18	2	1130	1350	1235
W1535	MassDEP	E. coli	05/10/06	10/26/06	6	68	57330	1065
W1536	MassDEP	E. coli	05/10/06	08/15/06	4	226	18500	1188
W1613	MassDEP	E. coli	07/26/06	08/08/06	2	276	388	327

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W1621	MassDEP	E. coli	07/26/06	09/18/06	3	776	21870	3449
W1621	MassDEP	E. coli	07/17/13	09/19/13	3	1080	1280	1173
W1622	MassDEP	E. coli	07/26/06	09/18/06	3	1410	3270	2161
W1622	MassDEP	E. coli	07/16/18	08/01/18	2	1960	2140	2048
W2299	MassDEP	E. coli	06/08/11	08/03/11	2	1730	24196	6469
W2299	MassDEP	E. coli	06/12/12	06/19/12	2	24196	24200	24197
W2299	MassDEP	E. coli	07/17/13	09/19/13	2	464	1790	911
W2301	MassDEP	E. coli	06/08/11	08/03/11	2	2419	2419	2419
W2301	MassDEP	E. coli	07/17/13	09/19/13	2	3650	19860	8514

Station MASSDEP_W1492 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	7
SeasGM	1083
#GMI	9
#GMI Ex	9
%GMI Ex	100%
n>STV	6
%n>STV	85%

Variable*	Result
Samples	1
SeasGM	5480
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	100%

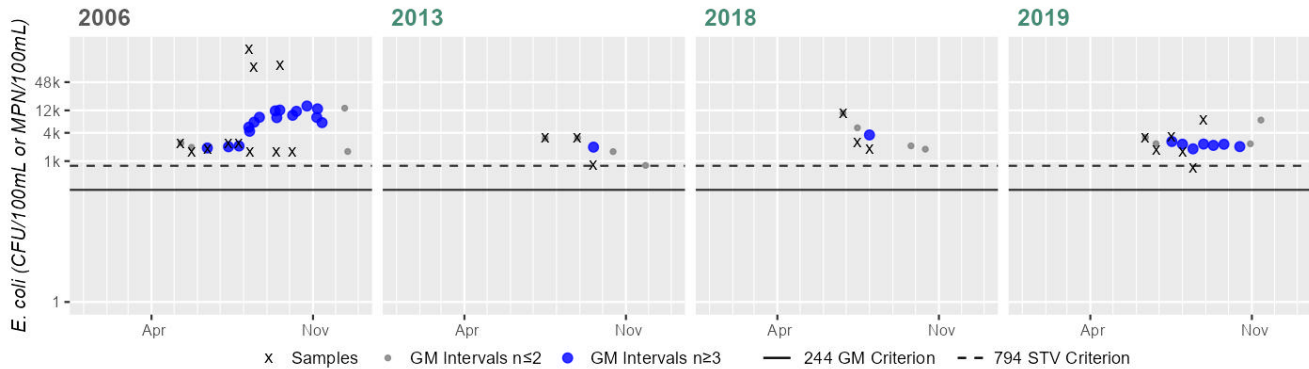
Variable*	Result
Samples	2
SeasGM	3904
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	50%

Cumulative %GMI Exceedance
 Historic (1997-2010) 100%
 Current (2011-2022) 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1493 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	11
SeasGM	6104
#GMI	16
#GMI Ex	16
%GMI Ex	100%
n>STV	11
%n>STV	100%

Variable*	Result
Samples	3
SeasGM	1983
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	3
%n>STV	100%

Variable*	Result
Samples	3
SeasGM	3603
#GMI	1
#GMI Ex	1
%GMI Ex	100%
n>STV	3
%n>STV	100%

Variable*	Result
Samples	6
SeasGM	2305
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	5
%n>STV	83%

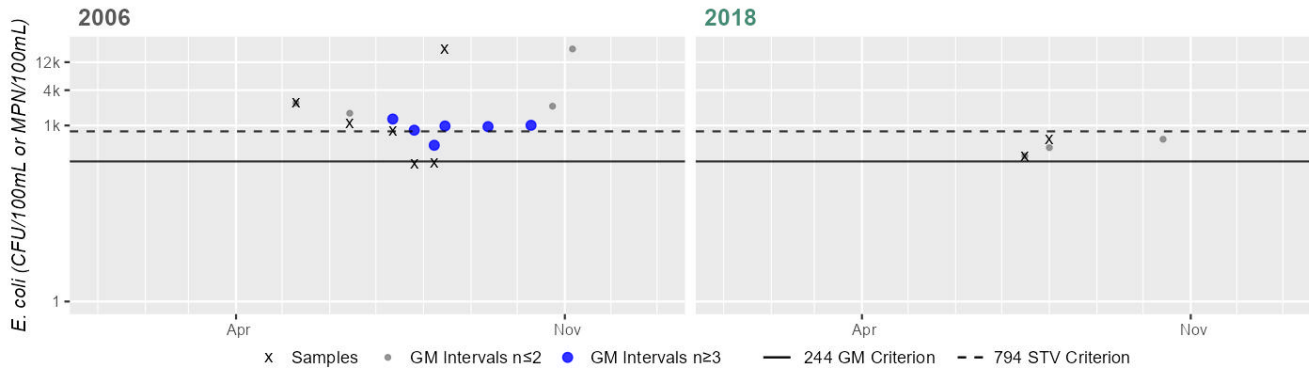
Cumulative %GMI Exceedance
Historic (1997-2010)
100%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1533 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	1139
#GMI	6
#GMI Ex	6
%GMI Ex	100%
n>STV	4
%n>STV	66%

Variable*	Result
Samples	2
SeasGM	418
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

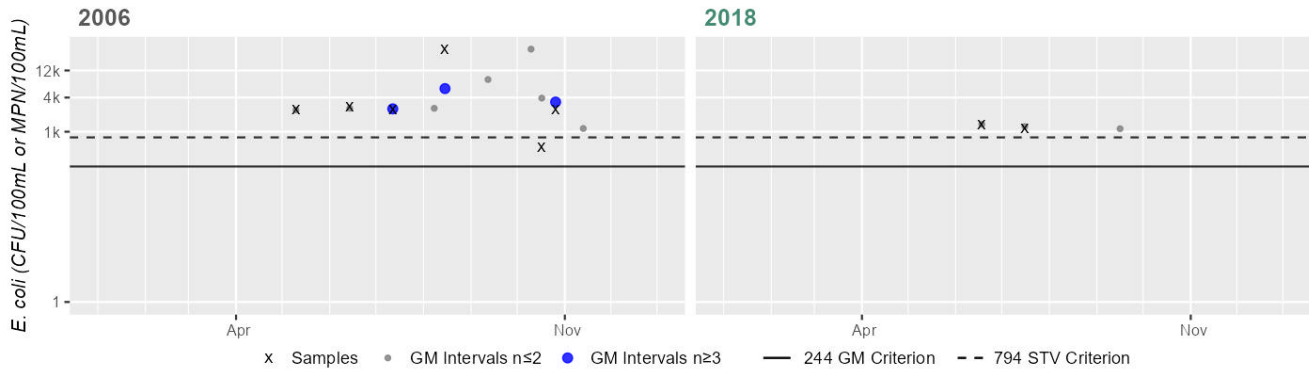
Cumulative %GMI Exceedance
Historic (1997-2010)
100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1534 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	2903
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	5
%n>STV	83%

Variable*	Result
Samples	2
SeasGM	1235
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

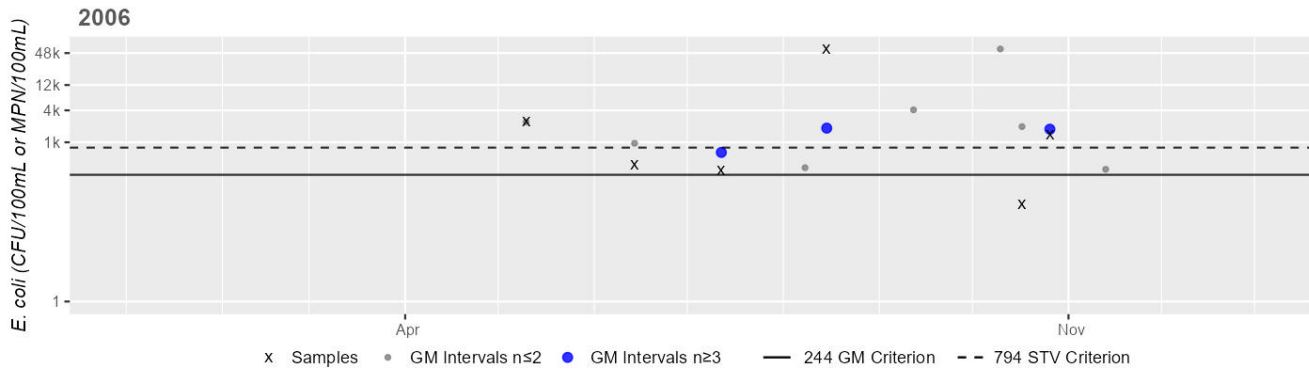
Cumulative %GMI Exceedance
Historic (1997-2010)
100%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1535 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



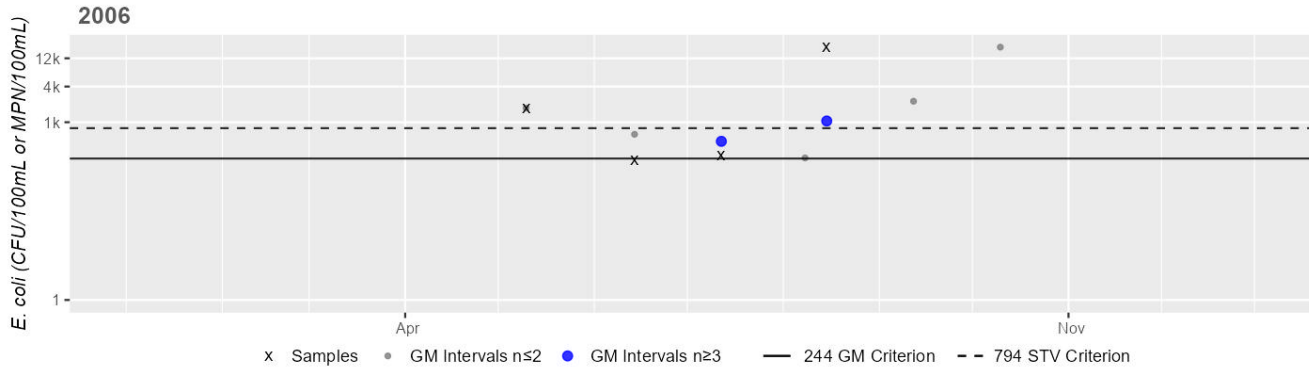
Variable*	Result
Samples	6
SeasGM	1065
#GMI	3
#GMI Ex	3
%GMI Ex	100%
n>STV	3
%n>STV	50%

Cumulative %GMI Exceedance
Historic (1997-2010)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1536 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



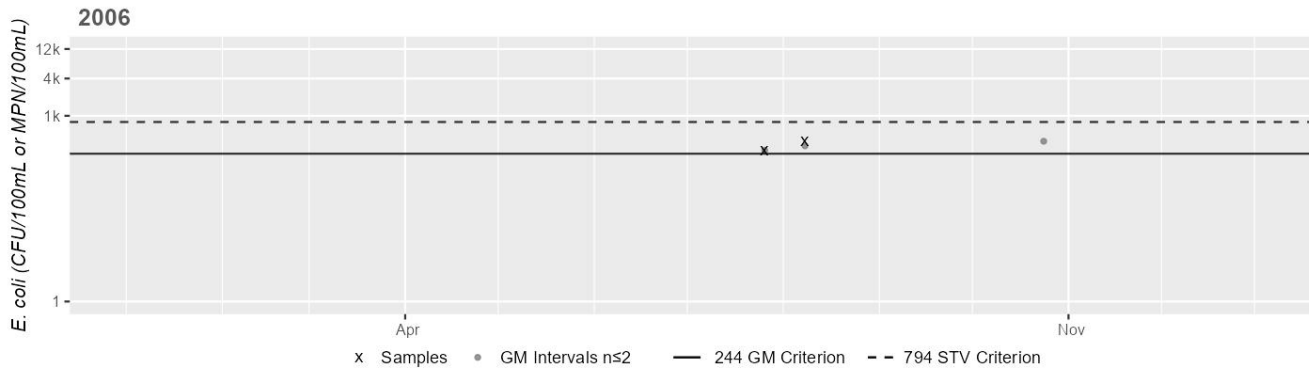
Variable*	Result
Samples	4
SeasGM	1188
#GMI	2
#GMI Ex	2
%GMI Ex	100%
n>STV	2
%n>STV	50%

Cumulative %GMI Exceedance
Historic (1997-2010)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W1613 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



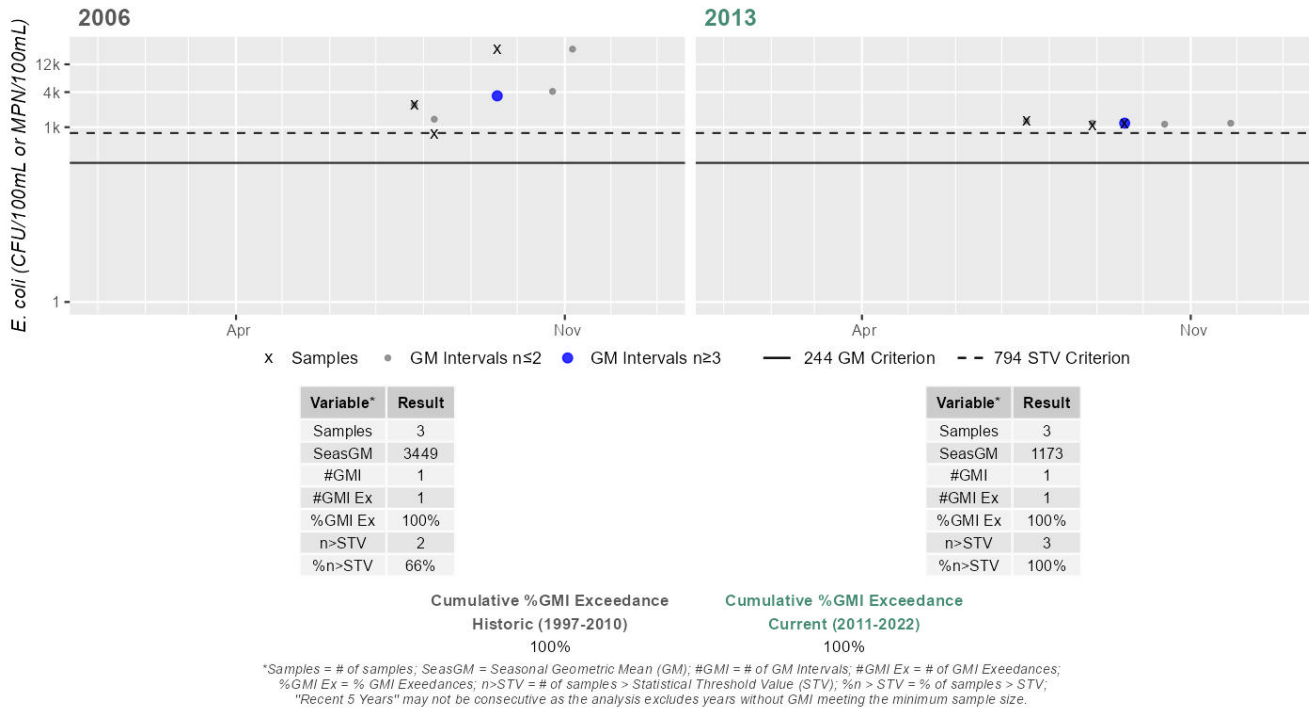
Variable*	Result
Samples	2
SeasGM	327
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

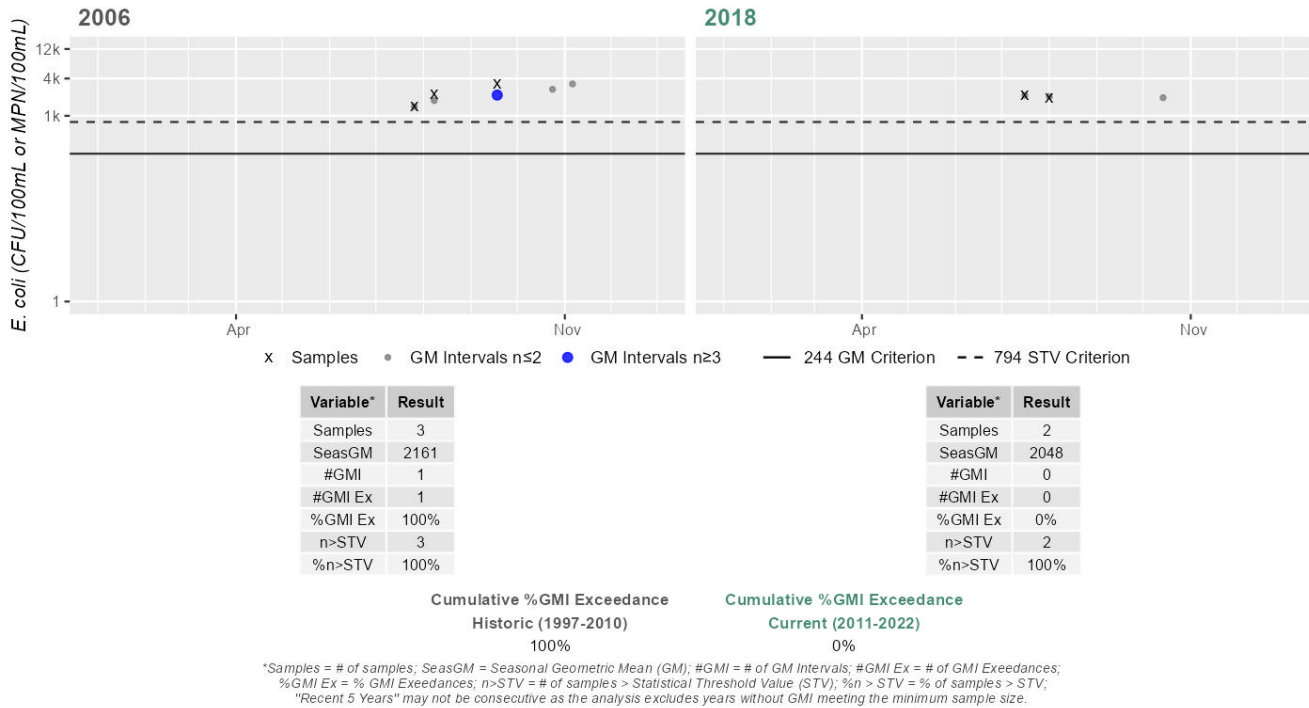
Station MASSDEP_W1621 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



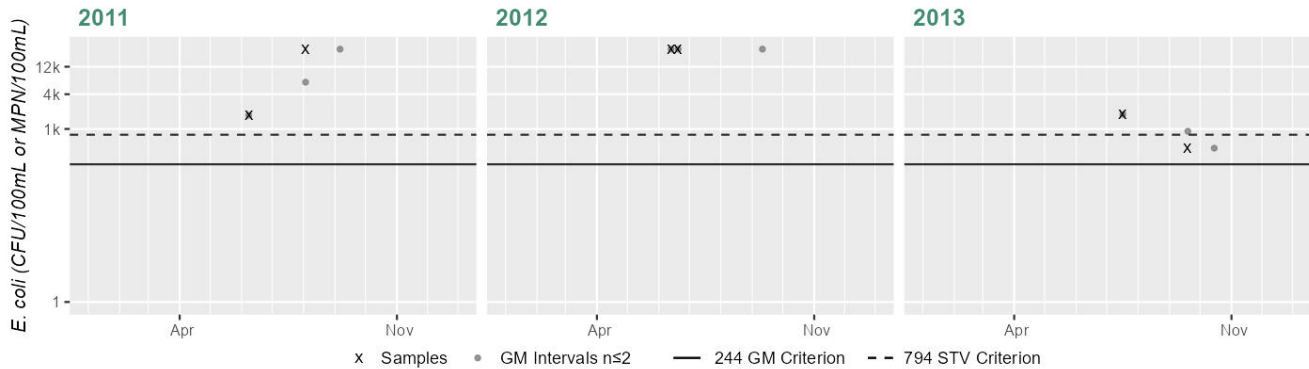
Station MASSDEP_W1622 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Station MASSDEP_W2299 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	6469
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Variable*	Result
Samples	2
SeasGM	24197
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

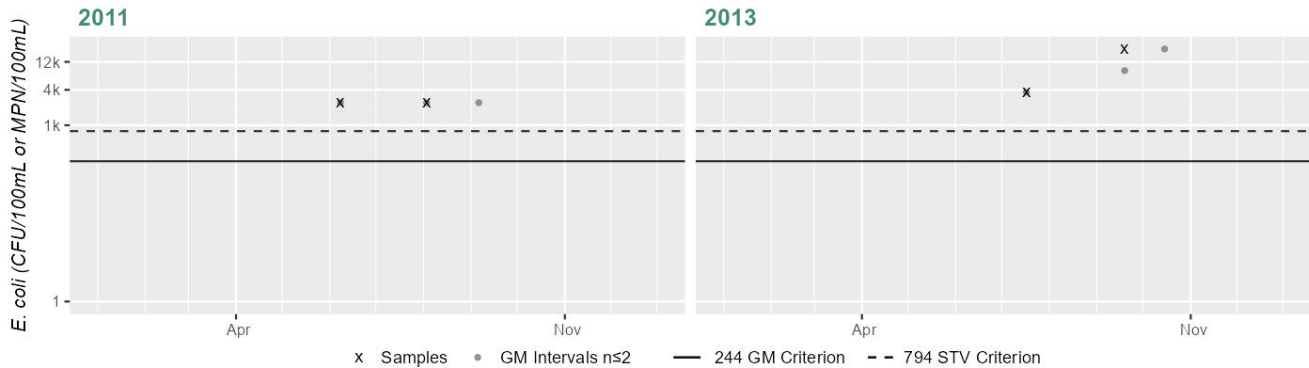
Variable*	Result
Samples	2
SeasGM	911
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	1
%n>STV	50%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2301 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	2
SeasGM	2419
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Variable*	Result
Samples	2
SeasGM	8514
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	2
%n>STV	100%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Turnpike Lake (MA62198)

Location:	Plainville.
AU Type:	FRESHWATER LAKE
AU Size:	99 ACRES
Classification/Qualifier:	A: PWS, ORW (Tributary)

No usable data were available for Turnpike Lake (MA62198) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fanwort*)	--	Unchanged
4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged

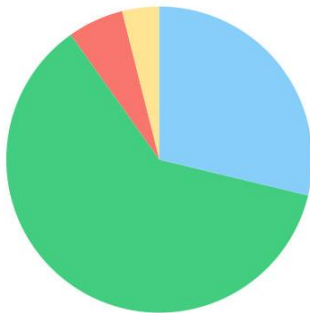
Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Unnamed Tributary (MA62-42)

Location:	Headwaters, south of Slab Bridge Road (in Cedar Swamp portion of Freetown-Fall River State Forest), Freetown to mouth at confluence with Cedar Swamp River, Lakeville.
AU Type:	RIVER
AU Size:	4 MILES
Classification/Qualifier:	B

Unnamed Tributary (MA62-42)

Watershed Area: 5.53 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	5.53	3.64	0.96	0.87
Agriculture	3.9%	6%	18.2%	19.9%
Developed	5.9%	7.8%	6.2%	6.4%
Natural	61.4%	58.6%	40.7%	37.8%
Wetland	28.8%	27.7%	34.9%	35.9%
Impervious	2.2%	2.8%	2.1%	2.1%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Benthic Macroinvertebrates	--	Unchanged
5	5	Fish Bioassessments	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Benthic Macroinvertebrates	Specialty Crop Production (Y)	X	--	--	--	--
Fish Bioassessments	Specialty Crop Production (Y)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Unnamed Tributary (MA62-42) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Unnamed Tributary (MA62-42) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No bacteria or other indicator data for Unnamed Tributary (MA62-42) are available, so the Primary Contact Recreation Use is Not Assessed.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary

No bacteria or other indicator data for Unnamed Tributary (MA62-42) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. MassDEP staff collected *E. coli* bacteria samples in this Unnamed Tributary in 2001 at 2 stations. Samples were collected from the following stations/sample years from upstream to downstream: approximately halfway down the AU at W0824 [at the outlet of the cranberry bog on Howland Rd, Freetown] from Jul-Sep 2001 (n=3), and three quarters of the way down at W0861 [at Mill St, Lakeville] from Aug 2001 (n=1). While historic *E. coli* data from W0861 are too limited according to the 2024 CALM to assess the Secondary Contact Recreation Use, the historic *E. coli* data from W0824 were indicative of good water quality conditions. However, since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0824	MassDEP	Water Quality	Unnamed Tributary	[unnamed tributary to Cedar Swamp River, outlet cranberry bog, Howland Road, Freetown]	41.797329	-71.029369
W0861	MassDEP	Water Quality	Unnamed Tributary	[unnamed tributary to Cedar Swamp River, Mill Street, Lakeville]	41.807057	-71.021556

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

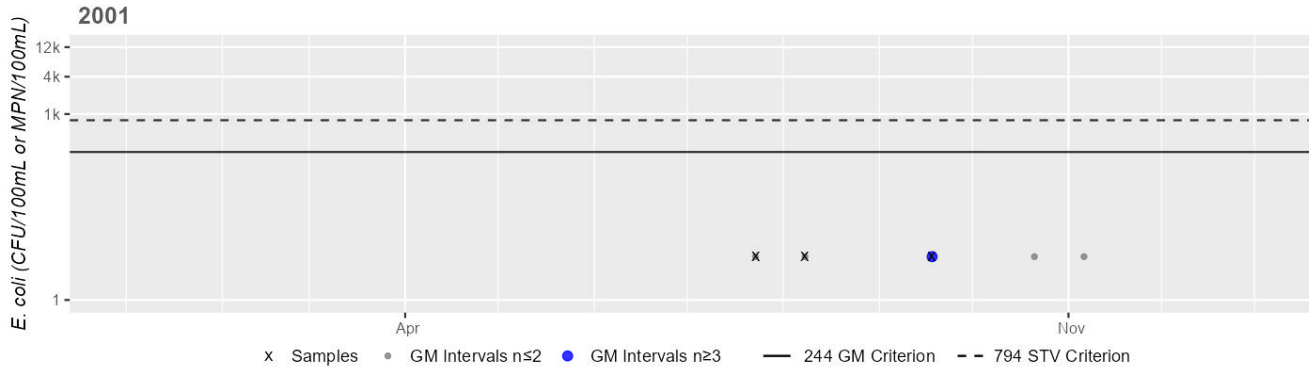
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0824	MassDEP	E. coli	07/23/01	09/18/01	3	5	5	4
W0861	MassDEP	E. coli	08/08/01	08/08/01	1	10	10	10

Station MASSDEP_W0824 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



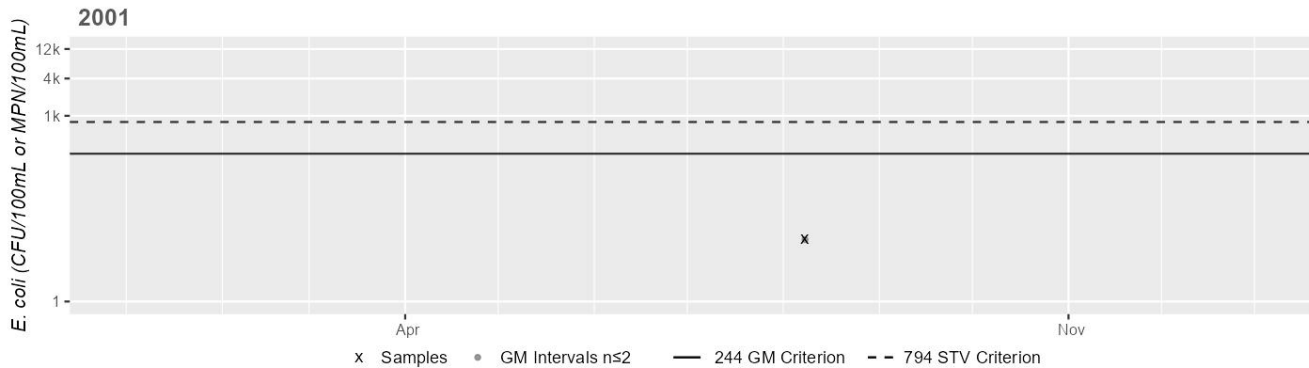
Variable*	Result
Samples	3
SeasGM	5
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W0861 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	10
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Unnamed Tributary (MA62-48)

Location:	Channel from Taunton Municipal Lighting Plant, Taunton to mouth at confluence with the Taunton River, Taunton.
AU Type:	ESTUARY
AU Size:	0.002 SQUARE MILES
Classification/Qualifier:	SA: SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Flow Regime Modification*)	--	Unchanged
5	5	(Physical Substrate Habitat Alterations*)	--	Unchanged
5	5	Benthic Macroinvertebrates	--	Unchanged
5	5	Fish Bioassessments	--	Unchanged
5	5	Temperature	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
(Flow Regime Modification*)	Channel Erosion/Incision from Upstream Hydromodifications (Y)	X	--	--	--	--	--
(Flow Regime Modification*)	Impacts from Hydrostructure Flow Regulation/Modification (Y)	X	--	--	--	--	--
(Flow Regime Modification*)	Industrial Thermal Discharges (Y)	X	--	--	--	--	--
(Physical Substrate Habitat Alterations*)	Channel Erosion/Incision from Upstream Hydromodifications (Y)	X	--	--	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	SH	AES	PCR	SCR
(Physical Substrate Habitat Alterations*)	Impacts from Hydrostructure Flow Regulation/Modification (Y)	X	--	--	--	--	--
(Physical Substrate Habitat Alterations*)	Industrial Thermal Discharges (Y)	X	--	--	--	--	--
Benthic Macroinvertebrates	Channel Erosion/Incision from Upstream Hydromodifications (Y)	X	--	--	--	--	--
Benthic Macroinvertebrates	Impacts from Hydrostructure Flow Regulation/Modification (Y)	X	--	--	--	--	--
Benthic Macroinvertebrates	Industrial Thermal Discharges (Y)	X	--	--	--	--	--
Fish Bioassessments	Channel Erosion/Incision from Upstream Hydromodifications (Y)	X	--	--	--	--	--
Fish Bioassessments	Impacts from Hydrostructure Flow Regulation/Modification (Y)	X	--	--	--	--	--
Fish Bioassessments	Industrial Thermal Discharges (Y)	X	--	--	--	--	--
Temperature	Channel Erosion/Incision from Upstream Hydromodifications (Y)	X	--	--	--	--	--
Temperature	Impacts from Hydrostructure Flow Regulation/Modification (Y)	X	--	--	--	--	--
Temperature	Industrial Thermal Discharges (Y)	X	--	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Unnamed Tributary (MA62-48) is Not Assessed.

Shellfish Harvesting

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
Unnamed Tributary (MA62-48): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0016 sq mi (100%). The approved shellfish growing area represents 0 sq mi (0%). The prohibited shellfish growing area represents 0.0016 sq mi (100%). There is insufficient information available to assess the Shellfish Harvesting Use because the growing areas within this AU are classified as either entirely prohibited or a combination of approved and prohibited.

Shellfish Growing Area Classifications

MassDFG-Division of Marine Fisheries Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
MHB2.1	Taunton River	Prohibited	0.00160	99.6%

Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No data are available, so the Aesthetics Use for Unnamed Tributary (MA62-48) is Not Assessed.

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary

No bacteria data are available to assess the Primary Contact Recreation Use for Unnamed Tributary (MA62-48) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0016 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), so these data were too limited to assess Primary Contact Recreation Use based on shellfish classification data.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Unnamed Tributary (MA62-48): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0016 sq mi (100%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Secondary Contact Recreation Use for Unnamed Tributary (MA62-48) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0016 sq mi) in this AU are less than 100% approved (0 sq mi, 0%), so these data were too limited to assess Secondary Contact Recreation Use based on shellfish classification data.

Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 6)

Summary
Unnamed Tributary (MA62-48): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0016 sq mi (100%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreational Use cannot be assessed for 2024 using the shellfish classification data.

Unnamed Tributary (MA62-69)

Location:	Unnamed Tributary to unnamed tributaries to Poquoy Brook Pond, headwaters in wetland north of Kenneth Welch Drive, Lakeville to mouth at confluence with unnamed tributary east of Route 18 (Bedford Street), Lakeville.
AU Type:	RIVER
AU Size:	0.6 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA62-69) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Unnamed Tributary (MA62-70)

Location:	Unnamed Tributary to Forge River, headwaters outlet Gushee Pond, Raynham to mouth at confluence with Forge River, Raynham (through former 2016 segments: Hewitt Pond MA62088 and Johnson Pond MA62097).
AU Type:	RIVER
AU Size:	3.3 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA62-70) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fanwort*)	--	Unchanged
4c	4c	(Fish Passage Barrier*)	--	Unchanged

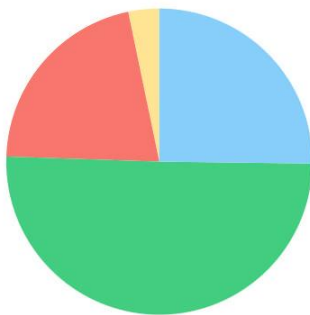
Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--

Unnamed Tributary (MA62-78)

Location:	Unnamed tributary to Canoe River, headwaters, perennial portion east of Essex Street, Norton to mouth at confluence with Canoe River, Norton.
AU Type:	RIVER
AU Size:	1.3 MILES
Classification/Qualifier:	B

Unnamed Tributary (MA62-78)

Watershed Area: 1.39 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	1.39	1.39	0.37	0.37
Agriculture	3.3%	3.3%	1.8%	1.8%
Developed	21.2%	21.2%	12.6%	12.6%
Natural	50.3%	50.3%	38.1%	38.1%
Wetland	25.2%	25.2%	47.6%	47.6%
Impervious	8.8%	8.8%	5.4%	5.4%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Benthic Macroinvertebrates	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Unnamed Tributary (MA62-78) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use of this Unnamed Tributary AU (MA62-78) is assessed as Fully Supporting based on the lack of objectionable conditions observed during summer 2013. MassDEP staff recorded aesthetics observations at one station in the downstream half of this Unnamed Tributary (to the Canoe River), south of Rt. 495, ~430 ft downstream/southeast of Newcomb St. in Norton (W2393) during the summer of 2013 as part of the MAP2 wadeable streams monitoring project (n=8). There were generally no noted objectionable conditions (odors, deposits, growths, or turbidity) recorded during the surveys.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2393	MassDEP	Water Quality	Unnamed Tributary	[unnamed tributary to Canoe River, south of Interstate 495, approximately 430 feet downstream/southeast of Newcomb Street, Norton]	41.989495	-71.173717

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2393	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2393 on Unnamed Tributary (MA62-78) during 8 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2393	2013	8	8	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2393	Unnamed Tributary	2013	Aesthetics Impaired?	No	6	8
W2393	Unnamed Tributary	2013	Aesthetics Impaired?	NR	2	8
W2393	Unnamed Tributary	2013	Aquatic Plant Density, Overall	Moderate	1	8
W2393	Unnamed Tributary	2013	Aquatic Plant Density, Overall	None	3	8
W2393	Unnamed Tributary	2013	Aquatic Plant Density, Overall	Sparse	4	8
W2393	Unnamed Tributary	2013	Color	Brownish	1	8
W2393	Unnamed Tributary	2013	Color	Light Yellow/Tan	4	8
W2393	Unnamed Tributary	2013	Color	None	2	8
W2393	Unnamed Tributary	2013	Color	Reddish	1	8
W2393	Unnamed Tributary	2013	Objectionable Deposits	No	7	8
W2393	Unnamed Tributary	2013	Objectionable Deposits	Yes	1	8
W2393	Unnamed Tributary	2013	Odor	Musty (Basement)	1	8
W2393	Unnamed Tributary	2013	Odor	None	7	8
W2393	Unnamed Tributary	2013	Periphyton Density, Filamentous	None	8	8
W2393	Unnamed Tributary	2013	Periphyton Density, Film	None	7	8
W2393	Unnamed Tributary	2013	Periphyton Density, Film	Sparse	1	8
W2393	Unnamed Tributary	2013	Scum	No	7	8
W2393	Unnamed Tributary	2013	Scum	Yes	1	8
W2393	Unnamed Tributary	2013	Turbidity	None	7	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2393	Unnamed Tributary	2013	Turbidity	Slightly Turbid	1	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for Unnamed Tributary (MA62-78) continues to be assessed as Fully Supporting. MassDEP staff collected <i>E. coli</i> bacteria samples in this Unnamed Tributary (to the Canoe River), at W2393 [south of Interstate 495, ~430 ft downstream/southeast of Newcomb St, Norton] from May-Sep 2013 (n=5). Analysis of the single year limited frequency dataset from this station indicated none of the intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was only 68 CFU/100ml. <i>E. coli</i> data from W2393 were indicative of good water quality conditions.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2393	MassDEP	Water Quality	Unnamed Tributary	[unnamed tributary to Canoe River, south of Interstate 495, approximately 430 feet downstream/southeast of Newcomb Street, Norton]	41.989495	-71.173717

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

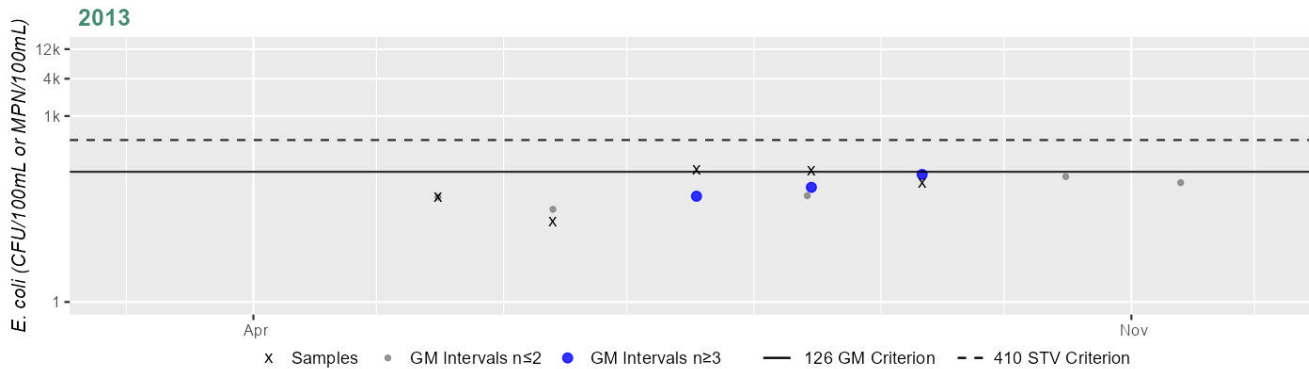
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2393	MassDEP	E. coli	05/16/13	09/11/13	5	20	134	68

Station MASSDEP_W2393 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	68
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Unnamed Tributary (MA62-78) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data from 1 station in 2013. MassDEP staff collected *E. coli* bacteria samples in this Unnamed Tributary (to the Canoe River), at W2393 [south of Interstate 495, ~430 ft downstream/southeast of Newcomb St, Norton] from May-Sep 2013 (n=5). Analysis of the single year limited frequency dataset from this station indicated none of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 68 CFU/100ml, which is indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2393	MassDEP	Water Quality	Unnamed Tributary	[unnamed tributary to Canoe River, south of Interstate 495, approximately 430 feet downstream/southeast of Newcomb Street, Norton]	41.989495	-71.173717

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

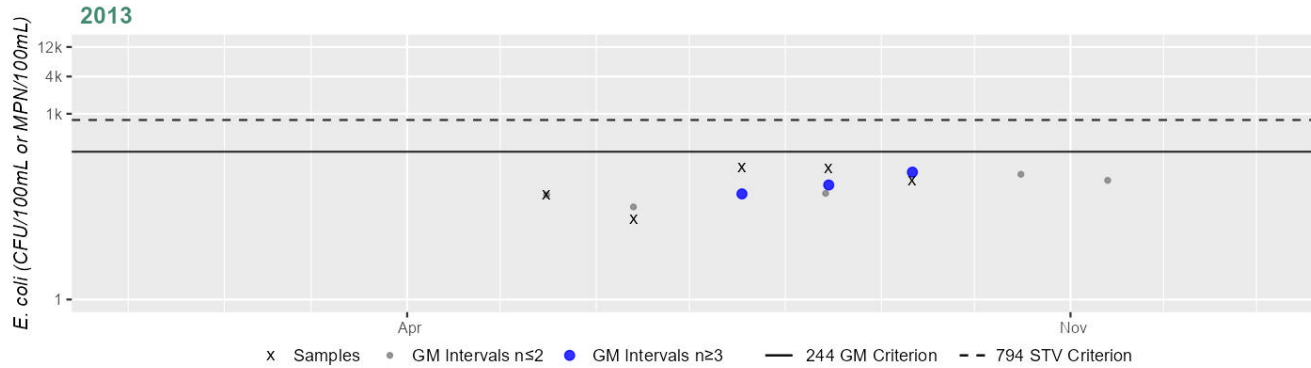
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2393	MassDEP	E. coli	05/16/13	09/11/13	5	20	134	68

Station MASSDEP_W2393 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	68
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 Recent 5 Years may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Unnamed Tributary (MA62-80)

Location:	Unnamed tributary (locally considered portion of Stump Brook) between Plymouth Street Pond and Robbins Pond, East Bridgewater.
AU Type:	RIVER
AU Size:	0.1 MILES
Classification/Qualifier:	B

No usable data were available for Unnamed Tributary (MA62-80) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fish Passage Barrier*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--

Upper Leach Pond (MA62123)

Location:	(Mountain Street Pond) Sharon.
AU Type:	FRESHWATER LAKE
AU Size:	28 ACRES
Classification/Qualifier:	B

No usable data were available for Upper Leach Pond (MA62123) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Upper Porter Pond (MA62200)

Location:	Brockton.
AU Type:	FRESHWATER LAKE
AU Size:	11 ACRES
Classification/Qualifier:	B

No usable data were available for Upper Porter Pond (MA62200) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fanwort*)	--	Unchanged

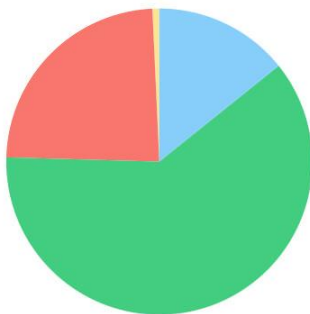
Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Wading River (MA62-47)

Location:	Headwaters, outlet Furnace Lake, Foxborough to Balcolm Street, Mansfield (through former 2014 pond segments: Robinson Pond MA62163, Blakes Pond MA62221) (formerly part of 2004 segment: Wading River MA62-17). Note: 1987 Wrentham quad depicts the Wading River as flowing from the outlet of Lake Mirimichi rather than Furnace Lake (Foundry Pond), with the portion between the outlet of Furnace Lake to the confluence with the Wading River identified as the Cocasset River).
AU Type:	RIVER
AU Size:	5 MILES
Classification/Qualifier:	A: PWS, ORW

Wading River (MA62-47)

Watershed Area: 20.32 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	20.32	5.98	10.11	3.25
Agriculture	0.7%	0.3%	0.8%	0.5%
Developed	23.8%	27%	16.1%	16.7%
Natural	61.2%	56.1%	58.8%	55.3%
Wetland	14.2%	16.5%	24.2%	27.4%
Impervious	11.3%	12.5%	7.8%	7.7%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Algae	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Algae	Source Unknown (N)	--	--	X	X	X

Recommendations

2024/26 Recommendations
2016IR [Aesthetics, Low] Historically, Dense Algae was observed halfway down this Wading River AU (MA62-47) at West Street, Mansfield {W0819} in 2006. Additional aesthetics monitoring is recommended for Wading River at West Street, to confirm whether excessive filamentous algae remains a problem. This is a low priority;

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Wading River (MA62-47) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	
No new data are available to evaluate the Aesthetics Use for Wading River (MA62-47). The Aesthetics Use will continue to be assessed as Not Supporting with the Algae impairment being carried forward. Historically, dense algae was observed halfway down the AU at West Street, Mansfield (W0819) in 2006 (MassDEP Undated 8). A recommendation will be made for additional aesthetics monitoring to confirm whether excessive filamentous algae remains a problem in this AU.	

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO
2024/26 Use Attainment Summary	
No bacteria or other indicator data for the Wading River (MA62-47) are available, so the Primary Contact Recreation Use continues to be assessed as Not Supporting. The prior Algae impairment (from the Aesthetics Use) is being carried forward.	

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for the Wading River (MA62-47) continues to be assessed as Not Supporting. The prior Algae impairment (from the Aesthetics Use) is being carried forward. MassDEP staff collected <i>E. coli</i> bacteria samples halfway down this Wading River AU at W0819 [West St, Mansfield] in 2001 and 2006 (n=1-4/yr). Analysis of the historic single year limited frequency <i>E. coli</i> dataset from 2006 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 84 CFU/100ml. Historic <i>E. coli</i> data from W0819 were indicative of good water quality conditions; however, since these data were collected prior to the current IR window (2011-2022) the Secondary Contact Recreation Use cannot be positively assessed using bacteria data.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0819	MassDEP	Water Quality	Wading River	[West Street, Mansfield]	42.018856	-71.266702

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

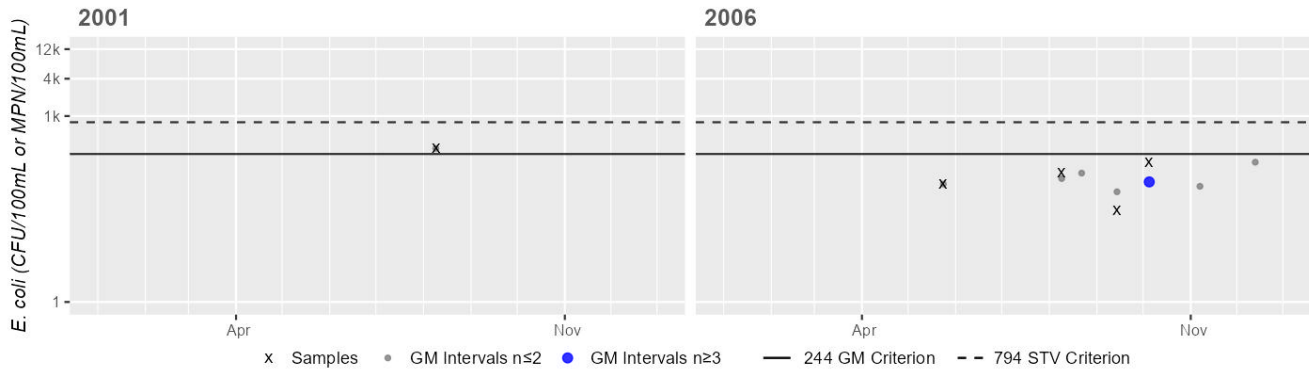
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0819	MassDEP	E. coli	08/09/01	08/09/01	1	300	300	299
W0819	MassDEP	E. coli	05/24/06	10/05/06	4	30	180	84

Station MASSDEP_W0819 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	1
SeasGM	300
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	4
SeasGM	84
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

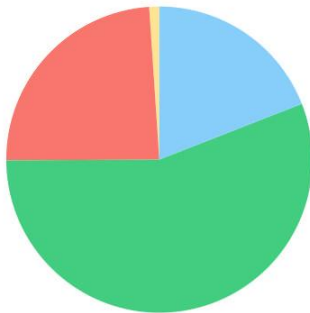
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Wading River (MA62-60)

Location:	From Balcolm Street, Mansfield to inlet Barrowsville Pond, Norton (through former 2014 segment: Sweets Pond MA62185) (formerly part of 2014 segment: Wading River MA62-49 [MA62-17 (2004)]).
AU Type:	RIVER
AU Size:	5.8 MILES
Classification/Qualifier:	B: WWF

Wading River (MA62-60)

Watershed Area: 37.13 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	37.12	9.97	16.10	3.32
Agriculture	1.1%	1.3%	1%	1.3%
Developed	24%	20.9%	17.6%	14.4%
Natural	55.9%	50.2%	53.1%	44.4%
Wetland	19.1%	27.6%	28.3%	39.9%
Impervious	11.4%	8.7%	8.6%	5.8%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Wading River (MA62-60) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
The Aesthetics Use for Wading River (MA62-60) continues to be assessed as Fully Supporting based on the lack of objectionable conditions observed during the summer of 2013. MassDEP staff recorded aesthetics observations at one station in the downstream half of this Wading River AU ~340 ft upstream/northwest from Rt. 123 (West Main St.) in Norton (W2373) during the summer of 2013 as part of the MAP2 Wadeable Streams Monitoring Project (n=8). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded during the surveys.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2373	MassDEP	Water Quality	Wading River	[approximately 340 feet upstream/northwest from Route 123 (West Main Street), Norton]	41.952551	-71.224761

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2373	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2373 on Wading River (MA62-60) during 8 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2373	2013	8	4	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2373	Wading River	2013	Aesthetics Impaired?	No	4	8
W2373	Wading River	2013	Aesthetics Impaired?	NR	4	8
W2373	Wading River	2013	Aquatic Plant Density, Overall	Dense	1	8
W2373	Wading River	2013	Aquatic Plant Density, Overall	None	3	8
W2373	Wading River	2013	Aquatic Plant Density, Overall	NR	1	8
W2373	Wading River	2013	Aquatic Plant Density, Overall	Sparse	1	8
W2373	Wading River	2013	Aquatic Plant Density, Overall	Unobservable	2	8
W2373	Wading River	2013	Color	Light Yellow/Tan	5	8
W2373	Wading River	2013	Color	None	3	8
W2373	Wading River	2013	Objectionable Deposits	No	7	8
W2373	Wading River	2013	Objectionable Deposits	Yes	1	8
W2373	Wading River	2013	Odor	None	8	8
W2373	Wading River	2013	Periphyton Density, Filamentous	None	3	8
W2373	Wading River	2013	Periphyton Density, Filamentous	NR	1	8
W2373	Wading River	2013	Periphyton Density, Filamentous	Unobservable	4	8
W2373	Wading River	2013	Periphyton Density, Film	None	3	8
W2373	Wading River	2013	Periphyton Density, Film	Sparse	1	8
W2373	Wading River	2013	Periphyton Density, Film	Unobservable	4	8
W2373	Wading River	2013	Scum	No	8	8
W2373	Wading River	2013	Turbidity	None	8	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for the Wading River (MA62-60) continues to be assessed as Fully Supporting based on bacteria data collected in 2013 at 1 station. MassDEP staff collected *E. coli* bacteria samples three-quarters of the way down this Wading River AU at W2373 [~340 ft upstream/northwest from Rt. 123 (West Main St), Norton] from May-Sep 2013 (n=5). Analysis of this single year limited frequency *E. coli* dataset indicated 33% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 107 CFU/100ml. *E. coli* data from W2373 were indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2373	MassDEP	Water Quality	Wading River	[approximately 340 feet upstream/northwest from Route 123 (West Main Street), Norton]	41.952551	-71.224761

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

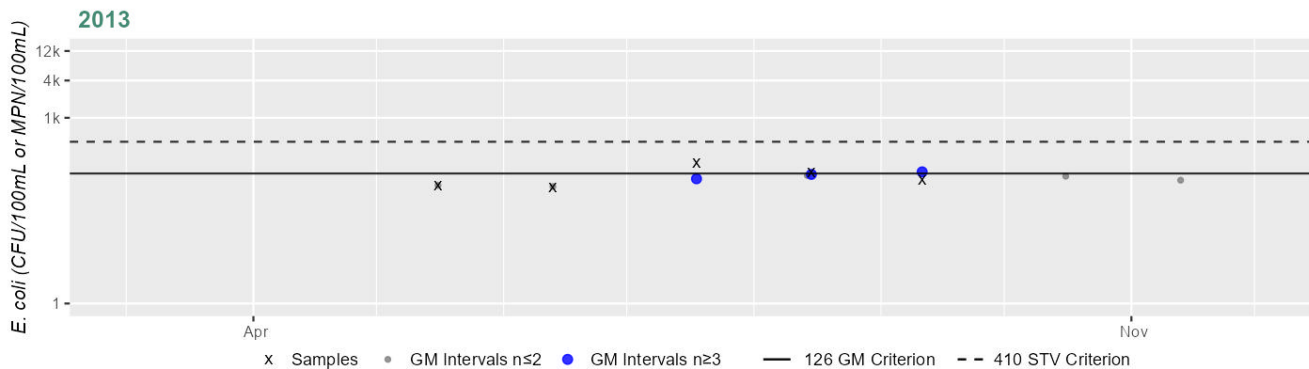
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2373	MassDEP	E. coli	05/16/13	09/11/13	5	74	185	107

Station MASSDEP_W2373 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	107
#GMI	3
#GMI Ex	1
%GMI Ex	33%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)
33%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for the Wading River (MA62-60) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2013 at 1 station. MassDEP staff collected <i>E. coli</i> bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in this Wading River AU from 2001-2013 at 3 stations. Samples were collected from the following stations/sample years from upstream to downstream: two-thirds of the way down the AU at W0863 [Walker St, Norton] from Aug 2001 (n=1), and about three-quarters of the way down the AU at W2373 [~340 ft upstream/northwest from Rt. 123 (West Main St), Norton] from May-Sep 2013 (n=5) and W0823 [Rt. 123, Norton] in 2001 and 2006 (n=3-4/yr). Analysis of data collected in the current IR window, i.e. the single year limited frequency <i>E. coli</i> dataset from W2373, indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 107 CFU/100ml. Overall based on the sufficient data yrs, the <i>E. coli</i> data collected in both the historic & the current IR window for the Wading River are all indicative of good water quality conditions.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0823	MassDEP	Water Quality	Wading River	[Route 123, Norton]	41.951851	-71.223728
W0863	MassDEP	Water Quality	Wading River	[Walker Street, Norton]	41.964435	-71.236678
W2373	MassDEP	Water Quality	Wading River	[approximately 340 feet upstream/northwest from Route 123 (West Main Street), Norton]	41.952551	-71.224761

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

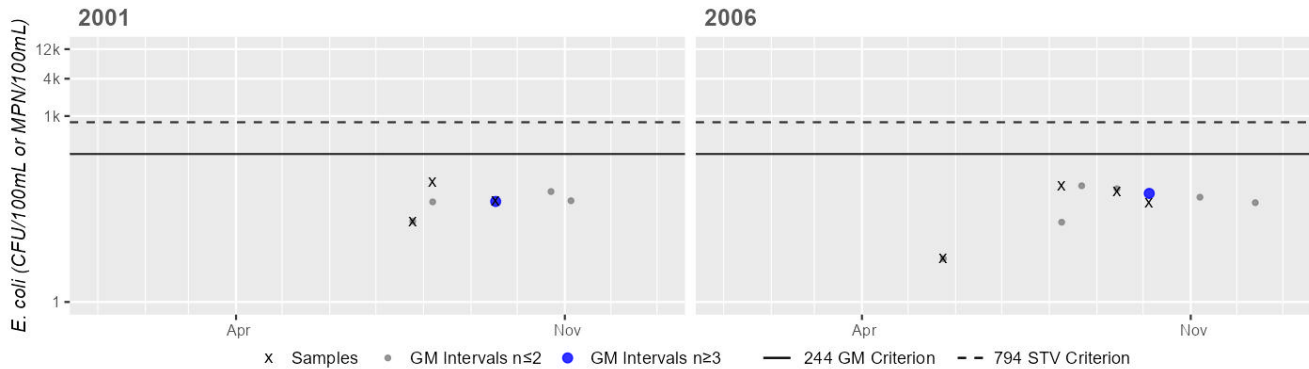
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0823	MassDEP	E. coli	07/25/01	09/17/01	3	20	85	41
W0823	MassDEP	E. coli	05/24/06	10/05/06	4	5	75	30
W0863	MassDEP	E. coli	08/07/01	08/07/01	1	190	190	190
W2373	MassDEP	E. coli	05/16/13	09/11/13	5	74	185	107

Station MASSDEP_W0823 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	3
SeasGM	41
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

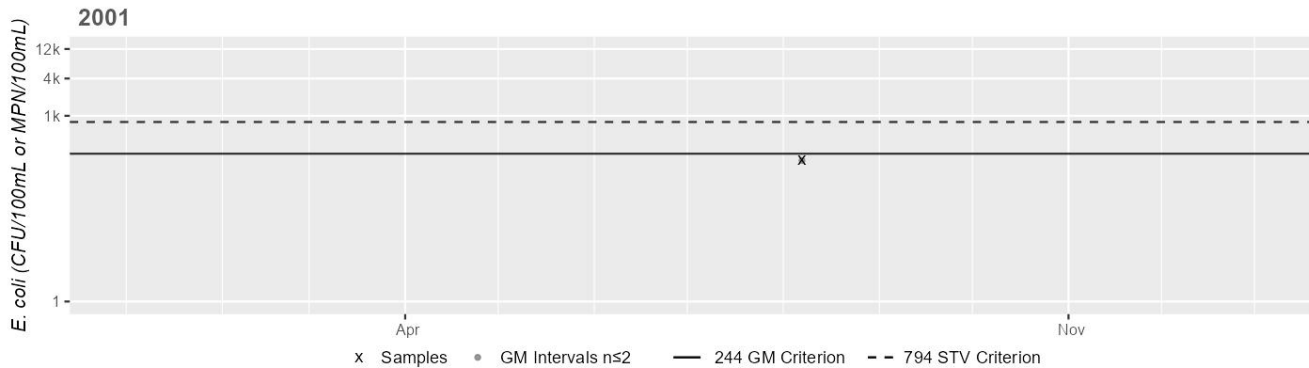
Variable*	Result
Samples	4
SeasGM	30
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W0863 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



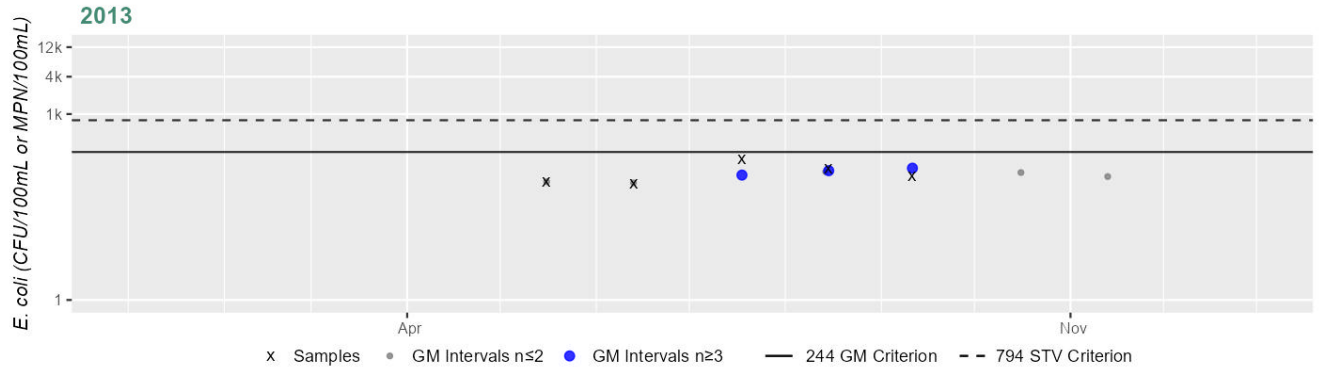
Variable*	Result
Samples	1
SeasGM	190
#GMI	0
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Historic (1997-2010)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2373 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	107
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

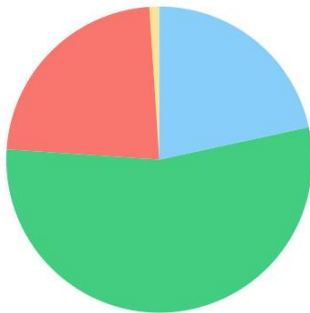
*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Wading River (MA62-61)

Location:	From outlet Barrowsville Pond, Norton to mouth at confluence with Rumford River, forming headwaters Threemile River, Norton (formerly part of 2014 segment: Wading River MA62-49 [MA62-17 (2004)]).
AU Type:	RIVER
AU Size:	3.5 MILES
Classification/Qualifier:	B: WWF

Wading River (MA62-61)

Watershed Area: 44.42 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	44.41	6.30	17.59	1.71
Agriculture	1%	0.6%	1%	1.1%
Developed	22.9%	20.8%	17.5%	18%
Natural	54.5%	53.2%	53%	52.4%
Wetland	21.6%	25.4%	28.5%	28.5%
Impervious	10.7%	8.5%	8.4%	7.3%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Benthic Macroinvertebrates	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--

Recommendations

2024/26 Recommendations
2024/26 [Bacteria, Low] Additional high frequency monitoring should be conducted for Wading River (MA62-61) in particular in the area of Rt. 140, Norton {W0858} to confirm if this AU should be impaired for <i>Escherichia coli</i> (<i>E. coli</i>). An Alert was identified for <i>E. coli</i> based on the data collected at {W0858} in 2019. Note that data from two other stations in 2013 and 2019 were indicative of good water quality conditions. This is a low priority;

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No
2024/26 Use Attainment Summary	
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Wading River (MA62-61) is Not Assessed.	

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO
2024/26 Use Attainment Summary	
<p>The Aesthetics Use for this Wading River (MA62-61) continues to be assessed as Fully Supporting based on the lack of observed objectionable conditions during the summers of 2013 & 2019. MassDEP staff recorded aesthetics observations at three stations in Norton, throughout this Wading River AU during the summer of 2013 as part of the MAP2 wadeable streams monitoring project and for selected monitoring during the summer of 2019. The station descriptions from upstream to downstream are as follows: at the upstream end of the AU south of Barrows St, ~125 feet downstream of confluence of Barrowsville Pond outlets (W2894, n=8 in 2019); at Rt. 140, (W0858, n =8 in 2019) and ~1150 ft downstream/northeast from Rt.140 (Taunton Avenue) (W2407, n=8 in 2013). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded during the surveys.</p>	

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0858	MassDEP	Water Quality	Wading River	[Route 140, Norton]	41.947101	-71.176950

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2407	MassDEP	Water Quality	Wading River	[approximately 1150 feet downstream/northeast from Route 140 (Taunton Avenue), Norton]	41.949458	-71.175526
W2894	MassDEP	Water Quality	Wading River	[south of Barrows Street, approximately 125 feet downstream of confluence of Barrowsville Pond outlets, Norton]	41.946727	-71.200840

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W0858	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W0858 on Wading River (MA62-61) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2407	2013	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2407 on Wading River (MA62-61) during 8 site visits between May 2013 and Sep 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2894	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2894 on Wading River (MA62-61) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W0858	2019	8	7	1
W2407	2013	8	5	0
W2894	2019	8	8	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0858	Wading River	2019	Aesthetics Impaired?	No	8	8
W0858	Wading River	2019	Aquatic Plant Density, Overall	None	4	8
W0858	Wading River	2019	Aquatic Plant Density, Overall	Sparse	3	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0858	Wading River	2019	Aquatic Plant Density, Overall	Unobservable	1	8
W0858	Wading River	2019	Color	Light Yellow/Tan	6	8
W0858	Wading River	2019	Color	None	2	8
W0858	Wading River	2019	Objectionable Deposits	No	7	8
W0858	Wading River	2019	Objectionable Deposits	Unobservable	1	8
W0858	Wading River	2019	Odor	None	8	8
W0858	Wading River	2019	Periphyton Density, Filamentous	Dense	1	8
W0858	Wading River	2019	Periphyton Density, Filamentous	None	4	8
W0858	Wading River	2019	Periphyton Density, Filamentous	Sparse	2	8
W0858	Wading River	2019	Periphyton Density, Filamentous	Unobservable	1	8
W0858	Wading River	2019	Periphyton Density, Film	None	3	8
W0858	Wading River	2019	Periphyton Density, Film	Sparse	4	8
W0858	Wading River	2019	Periphyton Density, Film	Unobservable	1	8
W0858	Wading River	2019	Scum	No	8	8
W0858	Wading River	2019	Turbidity	None	5	8
W0858	Wading River	2019	Turbidity	Slightly Turbid	3	8
W2407	Wading River	2013	Aesthetics Impaired?	No	2	8
W2407	Wading River	2013	Aesthetics Impaired?	NR	6	8
W2407	Wading River	2013	Aquatic Plant Density, Overall	None	5	8
W2407	Wading River	2013	Aquatic Plant Density, Overall	Unobservable	3	8
W2407	Wading River	2013	Color	Brownish	1	8
W2407	Wading River	2013	Color	Dark Tan	1	8
W2407	Wading River	2013	Color	Light Yellow/Tan	3	8
W2407	Wading River	2013	Color	None	1	8
W2407	Wading River	2013	Color	Reddish	2	8
W2407	Wading River	2013	Objectionable Deposits	No	7	8
W2407	Wading River	2013	Objectionable Deposits	Unobservable	1	8
W2407	Wading River	2013	Odor	None	8	8
W2407	Wading River	2013	Periphyton Density, Filamentous	None	5	8
W2407	Wading River	2013	Periphyton Density, Filamentous	Unobservable	3	8
W2407	Wading River	2013	Periphyton Density, Film	Moderate	1	8
W2407	Wading River	2013	Periphyton Density, Film	None	2	8
W2407	Wading River	2013	Periphyton Density, Film	Sparse	2	8
W2407	Wading River	2013	Periphyton Density, Film	Unobservable	3	8
W2407	Wading River	2013	Scum	No	6	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2407	Wading River	2013	Scum	Yes	2	8
W2407	Wading River	2013	Turbidity	None	7	8
W2407	Wading River	2013	Turbidity	Slightly Turbid	1	8
W2894	Wading River	2019	Aesthetics Impaired?	No	8	8
W2894	Wading River	2019	Aquatic Plant Density, Overall	None	1	8
W2894	Wading River	2019	Aquatic Plant Density, Overall	Sparse	7	8
W2894	Wading River	2019	Color	Light Yellow/Tan	4	8
W2894	Wading River	2019	Color	None	3	8
W2894	Wading River	2019	Color	Reddish	1	8
W2894	Wading River	2019	Objectionable Deposits	No	7	8
W2894	Wading River	2019	Objectionable Deposits	Yes	1	8
W2894	Wading River	2019	Odor	Musty (Basement)	1	8
W2894	Wading River	2019	Odor	None	7	8
W2894	Wading River	2019	Periphyton Density, Filamentous	Moderate	2	8
W2894	Wading River	2019	Periphyton Density, Filamentous	None	4	8
W2894	Wading River	2019	Periphyton Density, Filamentous	Sparse	2	8
W2894	Wading River	2019	Periphyton Density, Film	None	7	8
W2894	Wading River	2019	Periphyton Density, Film	Sparse	1	8
W2894	Wading River	2019	Scum	No	8	8
W2894	Wading River	2019	Turbidity	None	6	8
W2894	Wading River	2019	Turbidity	Slightly Turbid	2	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES
2024/26 Use Attainment Summary	

The Primary Contact Recreation Use for the Wading River (MA62-61) continues to be assessed as Fully Supporting based on bacteria data collected in 2013 & 2019 at three stations, although an Alert is being identified for *Escherichia coli* (*E. coli*) based on data collected at Rt. 140, Norton in 2019. MassDEP staff collected *E. coli* bacteria samples for this Wading River AU in 2013 & 2019 at 3 stations. Samples were collected from the following stations/sample years from upstream to downstream: the upstream end of the AU at W2894 [S of Barrows St, ~125 ft downstream of confluence of Barrowsville Pond outlets, Norton] from Jun-Aug 2019 (n=6), and three-quarters of the way down at W0858 [Rt. 140, Norton] from Jun-Aug 2019 (n=6) and W2407 [~1150 ft downstream/NE from Rt. 140 (Taunton Avenue), Norton] from May-Sep 2013 (n=5). Analysis of the single year limited frequency *E. coli* datasets at all three stations are as follows: W2894 indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 45 CFU/100ml. At W0858 analysis indicated 71% of intervals had GMs >126 CFU/100ml, 1 sample exceeded the 410 CFU/100ml STV, and the seasonal GM was 153 CFU/100ml; at W2407 analysis indicated 0% of intervals had GMs >126 CFU/100ml, no samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 75 CFU/100ml. While *E. coli* data from W2894 and W2407 were indicative of generally good water quality conditions, an Alert is being identified for *E. coli* based on the data collected at W0858.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0858	MassDEP	Water Quality	Wading River	[Route 140, Norton]	41.947101	-71.176950
W2407	MassDEP	Water Quality	Wading River	[approximately 1150 feet downstream/northeast from Route 140 (Taunton Avenue), Norton]	41.949458	-71.175526
W2894	MassDEP	Water Quality	Wading River	[south of Barrows Street, approximately 125 feet downstream of confluence of Barrowsville Pond outlets, Norton]	41.946727	-71.200840

Bacteria Data

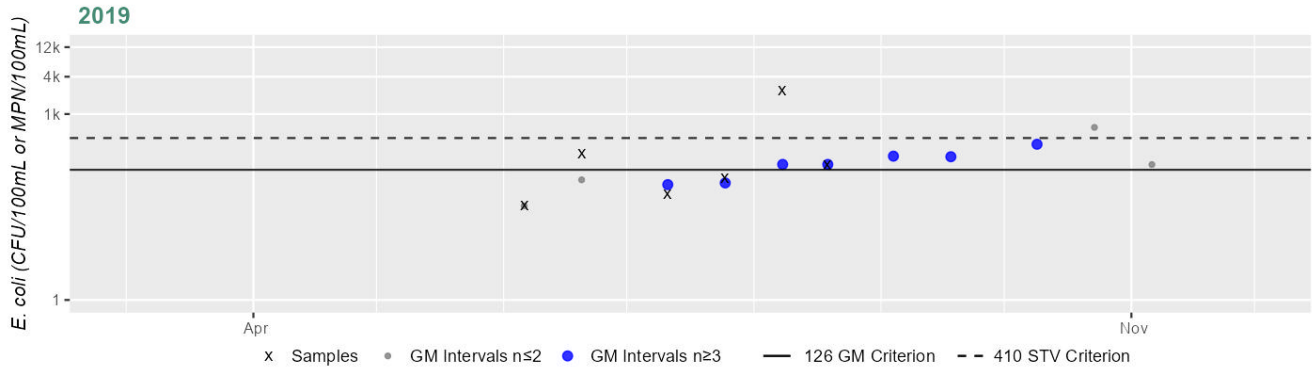
Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)
 (MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0858	MassDEP	E. coli	06/06/19	08/19/19	6	33	2420	153
W2407	MassDEP	E. coli	05/16/13	09/11/13	5	41	109	75
W2894	MassDEP	E. coli	06/06/19	08/19/19	6	12	190	45

Station MASSDEP_W0858 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



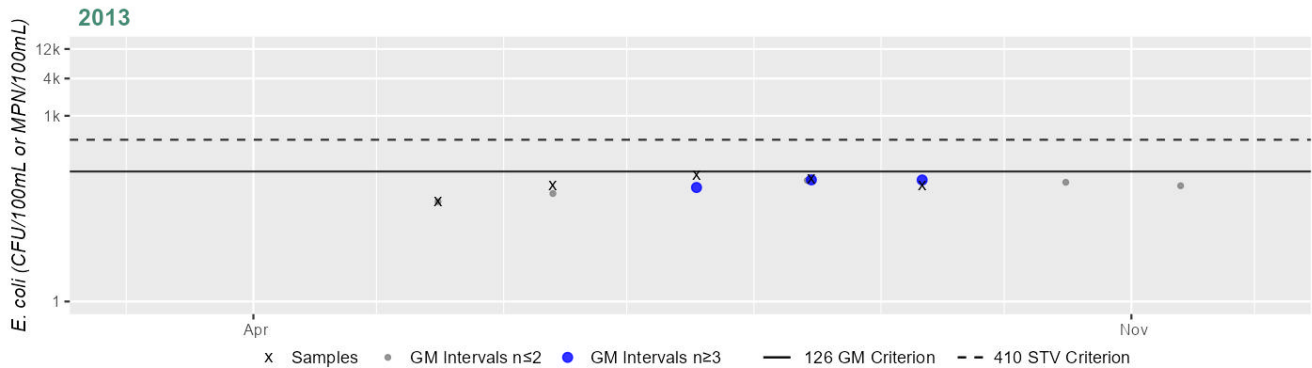
Variable*	Result
Samples	6
SeasGM	153
#GMI	7
#GMI Ex	5
%GMI Ex	71%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
Current (2011-2022)
71%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2407 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



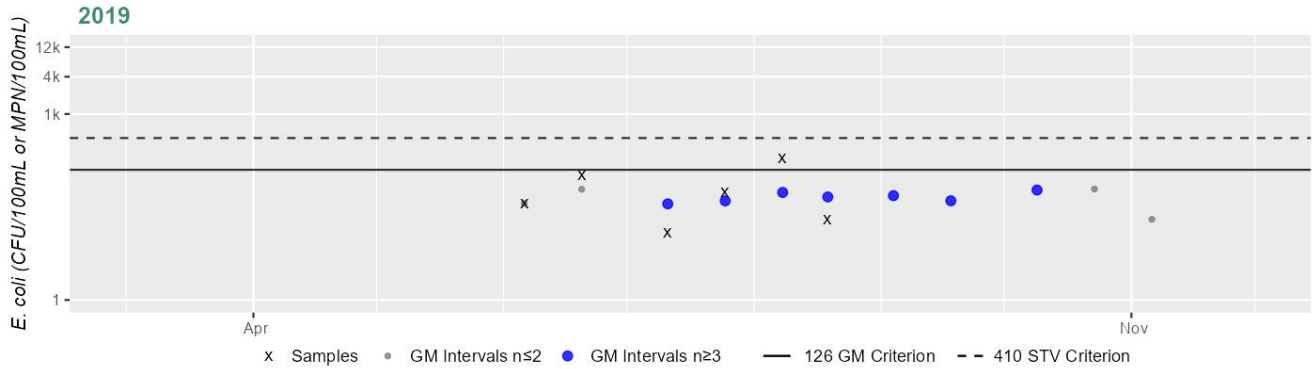
Variable*	Result
Samples	5
SeasGM	75
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2894 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	45
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
Current (2011-2022)
 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO
2024/26 Use Attainment Summary	

The Secondary Contact Recreation Use for the Wading River (MA62-61) continues to be assessed as Fully Supporting based on a re-evaluation of bacteria data collected in 2013-2019 at three stations. MassDEP staff collected *E. coli* bacteria samples in both the historic (1997-2010) & the current IR window (2011-2022) in this Wading River AU from 2001-2019 at 3 stations. Samples were collected from the following stations/sample years from upstream to downstream: the upstream end of the AU at W2894 [S of Barrows St, ~125 ft downstream of confluence of Barrowsville Pond outlets, Norton] from Jun-Aug 2019 (n=6), three-quarters of the way down at W0858 [Rt. 140, Norton] in 2001 and 2006 (historic n=3-4/yr) and Jun-Aug 2019 (current n=6) and W2407 [~1150 ft downstream/NE from Rt. 140 (Taunton Avenue), Norton] from May-Sep 2013 (n=5). Analysis of the current IR window single year limited frequency *E. coli* datasets at all three stations are as follows: W2894 indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 45 CFU/100ml. At W0858 analysis indicated 14% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV, and the overall GM was 153 CFU/100ml; at W2407 analysis indicated 0% of intervals had GMs >244 CFU/100ml, no samples exceeded the 794 CFU/100ml STV, and the overall GM was 75 CFU/100ml. Overall the *E. coli* data collected in both the historic & the current IR window for this Wading River AU are all indicative of good water quality conditions.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0858	MassDEP	Water Quality	Wading River	[Route 140, Norton]	41.947101	-71.176950
W2407	MassDEP	Water Quality	Wading River	[approximately 1150 feet downstream/northeast from Route 140 (Taunton Avenue), Norton]	41.949458	-71.175526
W2894	MassDEP	Water Quality	Wading River	[south of Barrows Street, approximately 125 feet downstream of confluence of Barrowsville Pond outlets, Norton]	41.946727	-71.200840

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

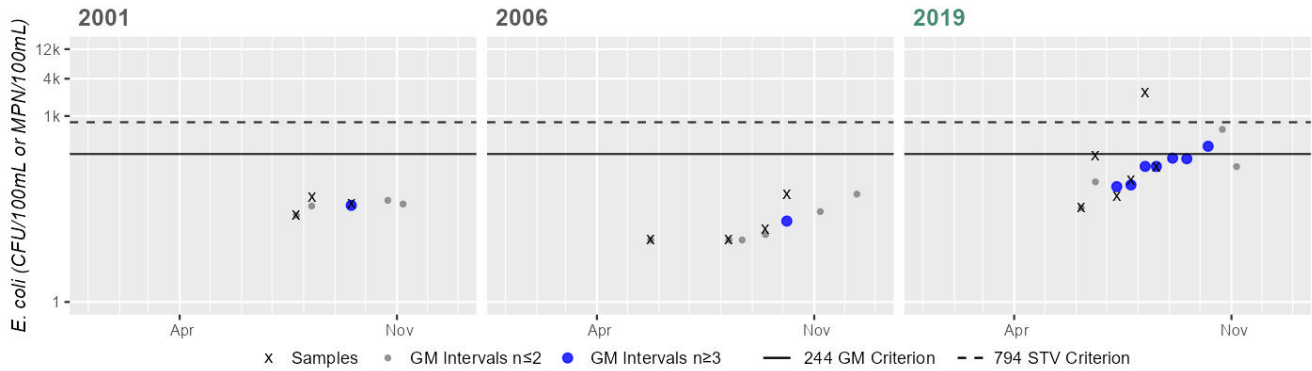
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W0858	MassDEP	E. coli	07/25/01	09/17/01	3	25	50	36
W0858	MassDEP	E. coli	05/24/06	10/05/06	4	10	55	16
W0858	MassDEP	E. coli	06/06/19	08/19/19	6	33	2420	153
W2407	MassDEP	E. coli	05/16/13	09/11/13	5	41	109	75
W2894	MassDEP	E. coli	06/06/19	08/19/19	6	12	190	45

Station MASSDEP_W0858 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	3
SeasGM	36
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Variable*	Result
Samples	4
SeasGM	16
#GMI	1
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

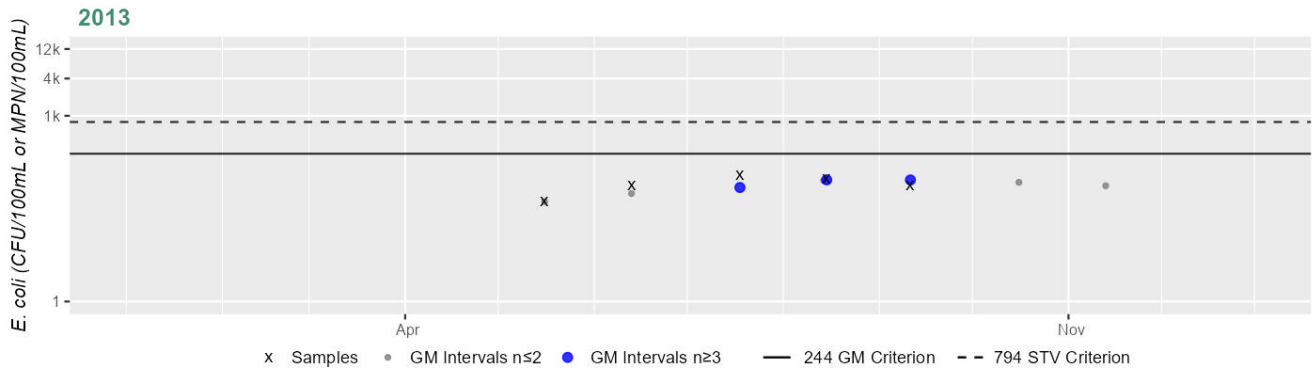
Variable*	Result
Samples	6
SeasGM	153
#GMI	7
#GMI Ex	1
%GMI Ex	14%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance
 Historic (1997-2010) 0%
 Cumulative %GMI Exceedance
 Current (2011-2022) 14%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2407 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



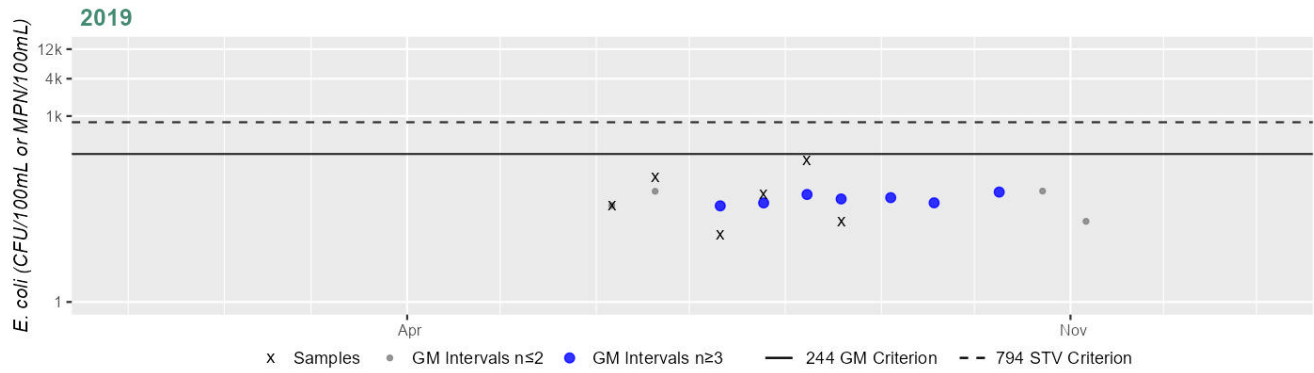
Variable*	Result
Samples	5
SeasGM	75
#GMI	3
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance
 Current (2011-2022) 0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Station MASSDEP_W2894 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	45
#GMI	7
#GMI Ex	0
%GMI Ex	0%
n>STV	0
%n>STV	0%

Cumulative %GMI Exceedance

Current (2011-2022)

0%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Waldo Lake (MA62201)

Location:	Avon/Brockton.
AU Type:	FRESHWATER LAKE
AU Size:	72 ACRES
Classification/Qualifier:	B

No usable data were available for Waldo Lake (MA62201) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fanwort*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Watson Pond (MA62205)

Location:	Taunton.
AU Type:	FRESHWATER LAKE
AU Size:	78 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Aquatic Plants (Macrophytes)*)	--	Added
5	5	(Fanwort*)	--	Unchanged
5	5	Algae	--	Removed
5	5	Dissolved Oxygen	--	Unchanged
5	5	Enterococcus	--	Unchanged
5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
5	5	PFAS in Fish Tissue	--	Added
5	5	Phosphorus, Total	--	Unchanged
5	5	Transparency / Clarity	--	Removed

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Aquatic Plants (Macrophytes)*)	Source Unknown (N)	--	--	X	X	X
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
Enterococcus	Source Unknown (N)	--	--	--	X	--
Nutrient/Eutrophication Biological Indicators	Source Unknown (N)	X	--	--	--	--
PFAS in Fish Tissue	Source Unknown (N)	--	X	--	--	--

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Phosphorus, Total	Source Unknown (N)	X	--	--	--	--

Supporting Information for Removed Impairments

2022 Removed Impairment	Removal Reason	Removal Comment
Algae	Applicable WQS attained; reason for recovery unspecified	<p>Watson Pond (MA62205) was first listed for the impairment of Excess Algal Growth (ADB code) in 2010 based on a MassDEP 2001 Baseline Lakes survey (Mattson and Haque 2004) & (MassDEP 2005); overall field notes for the survey reported “very heavy green algal blooms in water column and blue-greens in windblown coves”. Date specific fieldsheet data (MassDEP 2001) for the survey at the Index-deep hole station W0947 indicated: 6/27/01 moderate pin point floc; 7/26/01 dense pin point floc; 8/28/01 dense clumps algal scums and a surface bloom of algae were noted at the deep hole and the boat ramp; 10/4/01 moderate algae suspended in the water column . Additionally in 2001 at W0947 elevated Chlorophyll-a was reported (ranged 14.3-45.0 mg/m³, n=3) contributing to the Excess Algal Growth impairment and Total Phosphorus was also reported (ranged 0.042-0.098 mg/l, n=4) resulting in an impairment of the Aquatic Life Use. The more specific code of “Algae” was then applied to this AU for the final 2016 reporting cycle submittal to EPA’s new ATTAINS database. Most recently aesthetics observations were recorded in 2018 by MassDEP at two stations in the pond as part of the MAP2 lake monitoring project; at the Index-deep hole station W0947 (n=3) and at the eastern edge of pond, from picnic area west off Bay Street station W2782/MAP2L-295S (n=5), little to no algal growth was observed from May through September. In addition it should be noted that MassDEP staff collected other water quality data at W0947 in 2018 (MassDEP Undated 9) which also indicated an improvement in conditions at Watson Pond; i.e. Chlorophyll-a ranged 2.3-9.3 mg/m³ (n=3) and Total Phosphorus ranged 0.0092-0.021 mg/l (n=3). Based on the lack of Algae observed by MassDEP staff at both the deep hole and shoreline in 2018, the Algae cause of impairment is being delisted for Watson Pond (MA62205).</p>

2022 Removed Impairment	Removal Reason	Removal Comment
Transparency / Clarity	Applicable WQS attained; reason for recovery unspecified	<p>Watson Pond (MA62205) was first listed for the impairment of Turbidity (WBS code) in 1998 based on a MassDEP 1996 synoptic survey (MassDEP 1996); when notes indicated “transparency below the safety criteria i.e. <4ft Secchi disk depth”. The impairment code changed to “Secchi disk transparency” in the ADB during the 2010 reporting cycle, confirmed by data collected for the MassDEP 2001 Baseline Lakes survey (Mattson and Haque 2004) & (MassDEP 2005). Four Secchi disk measurements were taken at the Index-deep hole station (W0947) and two of those measurements failed to meet the 4ft/1.2m threshold (0.8 and 0.5m in August and October respectively). Additionally in 2001 at W0947 elevated Total Phosphorus was reported (ranged 0.042-0.098 mg/l, n=4) resulting in an impairment of the Aquatic Life Use and Chlorophyll-a was also elevated (ranged 14.3-45.0 mg/m³, n=3) contributing to an Excess Algal Growth impairment of the Aesthetics and Recreation Uses at that time. The more specific code of “Transparency/Clarity” was then applied to this AU for the final 2016 reporting cycle submittal to EPA’s new ATTAINS database. Most recently Secchi depth data collected in 2018 by MassDEP staff at the Index-deep hole station W0947/MAP2L-295 indicated water clarity meeting the 1.2m (4ft) threshold (n=3, 1.3-2.8m). In addition it should be noted that MassDEP staff collected other water quality data at W0947 in 2018 (MassDEP Undated 9) which also indicated an improvement in conditions at Watson Pond; i.e. Chlorophyll-a ranged 2.3-9.3 mg/m³ (n=3) and Total Phosphorus ranged 0.0092-0.021 mg/l (n=3). Based on the Secchi disk measurements meeting the 1.2m (4ft) threshold as per the 2024 CALM, the Transparency/Clarity cause of impairment is being delisted for Watson Pond (MA62205).</p>

Algae

During the MassDEP surveys in 2001 moderate chlorophyll levels and field observations of moderate/dense algal populations were documented. The Recreational and Aesthetic uses were assessed as impaired because of the excessive algal growth

Data table from 2001 Taunton Water Quality Assessment Report. Appendix C, Table C3. (MassDEP 2005)

Watson Pond (PALIS: 62205) Unique ID: W0947 Station: A
 Description: Deep hole, center of pond, approximately 275 feet south from north central shore, Taunton

Date	Secchi m	Secchi Time 24hr	Station Depth m	OWMID	QAQC	Time 24hr	Sample Depth m	Alkalinity mg/l	TP mg/l	Apparent Color PCU	Chl a mg/m3
6/27/2001	1.6	13:50	3.0	LB-1238	--	**	0.5	11	0.042b	50	--
				LB-1239	--	**	2.5	15	0.065b	85	--
				LB-1240	--	**	0 - 2.5	--	--	14.3	--
7/26/2001	1.6	11:38	10.0	LB-1331	--	11:00	0.5	14	0.048b	49h	--
				LB-1332	--	11:20	2.5	17	0.098b	100h	--
				LB-1333	--	11:50	0 - 2.5	--	--	27.1	--
8/28/2001	0.8	13:10	3.0	LB-1424	--	**	0.5	21	0.058	55	--
				LB-1425	--	**	**	16	0.067	75	--
				LB-1426	--	**	0 - **	--	--	45.0	--
10/4/2001	0.5	09:00	3.0	LB-1862	LB-1863	09:12	0.5	--	0.064	--	--
				LB-1863	LB-1862	09:14	0.5	--	0.069	--	--

2001 field sheets: (MassDEP Undated 9)

Massachusetts Department of Environmental Protection/Division of Watershed Management
Lakes and Ponds Field Sheet

Project: Watson Pond Station: A
 PALIS #: 62205 General weather conditions last 3 days at: sky clear
 Lake: Watson Pond Town: Taunton Station ID #: A
 Date: 6/27/01 Time (24 hr): 13:50 Photon taken? Yes No
 Description of Station Access: 550 yds. off road on the west side of the pond
 Station Description: Deep hole, center of pond, approximately 275 feet south from north central shore
 Lake level staff gage reading and shore type (if available): Water level 3.0 m

Current Weather
 Partly sunny
 Partly cloudy
 Mostly cloudy
 Overcast
 Foggy
 Drizzly
 Light rain
 Heavy rain
 Sleet
 Snow

Wind Direction
 Calm
 North
 Northeast
 East
 Southeast
 South
 Southwest
 West

Wave Height
 0-2 in
 2.5-5 in
 5-10 in
 10-15 in
 15-20 in
 >20 in

Presence of Algae (0-1 meter)
 None
 Sparse
 Moderate
 Dense (uniformly distributed)
 Dense (clumped patches)
 Floating scum (continuous surface bloom)
Algae Description (describe shape, spherical, filamentous, etc.)
pin point floc

Density of Aquatic Plants (check all that apply)
 None
 Submersible (note why in description)
 Sparse (individual plants, scattered)
 Moderate (individual plants close together, scattered groups)
 Dense (continuous coverage)
 Emergent
 Floating
 Submerged
Aquatic Plant Description (the plants in general vicinity of site; note genus and species if known)
None

Whole Lake Information (fill out for the lake as a whole; check multiple boxes if applicable and note location of observations)
 Scum? Yes No
 Description of Scum(s):
 Observed Use(s) (include indications of use even if not observed): none swimming boating water intake fishing other
 Description of Observed Use(s) (include numbers or indicators of use): 1st condition
 Objectable Deposits: None Floating Muck Garbage/trash Aquatic weeds Floculent mass (rust colored or other) other
 Description of Objectable Deposits (type, extent and area affected):
 Shoreline Erosion: Yes No (describe any shoreline erosion observed; note location; look for existing and potential slope failures, landslides)
 Description of Erosion:
 Wildlife Sightings: none fish mammals birds reptiles (snakes, turtles) waterfowl amphibians (frog, salamander) other
 Description of Wildlife Sightings (include numbers or indicators of use): 1st condition
 Potential Pollution Sources: None waste water pipes garbage/trash dumping land clearing green lawns shoreline residences other
 Description of Potential Pollution Sources: None

SAMPLE DATA
 Bottle Sample(s) collected? Yes No
 Time (24 hr): 13:50
 Secchi depth (m): 1.6
 Secchi viewfinder used? Yes No
 Secchi on bottom? Yes No
 Secchi taken in twilight? Yes No
 Station Maximum Depth (m): 3.0
 Maximum Depth Method: Secchi disk line Lead line Sonar Survey rod Other

Notes: Forgot to use new Van Born in bag
* Sediment composite sample LB1783
taken from site A 11 feet muck, B 8 feet muck
and C 7 feet muck in muck.

OWMID #	Sample Depth (m)	Metres	Analyte/Bottle Group										Sample Type	QAQC	
			Bioassay (A)	Bioassay (B)	Bioassay (C)	Bioassay (D)	Bioassay (E)	Bioassay (F)	Bioassay (G)	Bioassay (H)	Bioassay (I)	Bioassay (J)			Grab
LB 1237	0.5	X	X	X	X	X	X	X	X	X	X	X	X	X	3
LB 1238	0.5	X	X	X	X	X	X	X	X	X	X	X	X	X	3
LB 1239	2.5	X	X	X	X	X	X	X	X	X	X	X	X	X	3
LB 1240	2.5	X	X	X	X	X	X	X	X	X	X	X	X	X	3
LB 1783	1.0	X	X	X	X	X	X	X	X	X	X	X	X	X	1

HYDROLAB DATA
 Record last readings per HydroLab SOP. Take QC duplicate sets of readings at 10% of sites, and use another field sheet form if necessary.
 If DWM data vessel, water only last readings at depth. If DWM crew 3 readings at one station interval, use additional field sheets.
 OWMID #: W0947 Station #: A Date: 6/27/01 Time: 13:50 Notes: 1.5 m DO variable @ 0.5 m depth

Time	Temp (°C)	DO (mg/l)	Depth (meters)	Sound (µS/cm)	pH	% Sat	Turb (ntu)	TDS (mg/l)	Redox (mV)
1347	28.11	7.43	0.5	115.5	7.23	118.9	-	0.0733	22.8
1358	26.27	8.31	1.5	116.5	6.65	75.9	-	0.0737	24.6
1405	24.32	6.17	2.4	118.3	6.08	2.2	-	0.0757	26.4

Cooler Temperature (post sampling at DWM Lab): _____

6/27/01 moderate pin point floc were noted

Station Sheet **3 of 3**

General Information (fill out prior to departure)
 Project: Bassville Lakes
 PALIS # 62025
 Lake Watson Rd
 Town Taunton
 Station ID # A
 Sampling Crew full name (initials ok for year round DWM employees)
 Lead: RAT Others: Lisa B
 General weather conditions last 3 days at: _____
 date: _____ Sky: _____ WindType: _____ Temp: _____
 Time (24 hr): _____
 Description of Station Access (include point sign)
DEM beach
 Station Description (describe precisely where samples are taken)
deep hole ~ 2.5 m
 Lake level staff gage reading and source type (if available)

Current Weather
 Clear
 Partly sunny
 Partly cloudy
 Mostly cloudy
 Overcast
 Foggy
 Drizzly
 Light rain
 Heavy rain
 Sleet
 Snow

Air Temperature
 70-79
 80-89
 90-100

Wind Conditions
 Calm (0-1 mph)
 Slight breeze (1-5 mph)
 Moderate winds (6-15 mph)
 Gusty (16-25 mph)
 Strong winds (> 25 mph)

Water Clarity
 Clear
 Slightly turbid
 Highly turbid
 Suspended
 Opaque

Water Color (color at 1/2 secchi depth as it appears on white secchi pants)
 Clear/Blue
 Grayish
 Brownish
 Blackish
 Light yellow/tan
 Dark tan
 Light green tint
 Green
 Blue-Green
 Reddish
 Other

Water Level
 Low (estimate minus ___ feet)
 Normal
 High (estimate plus ___ feet)

Presence of Algae (0-1 meter)
 None
 Sparse
 Moderate
 Dense (uniformly distributed)
 Dense (clumped patches)
 Floating scums (continuous surface bloom)

Density of Aquatic Plants (check all that apply)
 None
 Unobservable (note why in description)
 Sparse (individual plants, scattered)
 Moderate (individual plants close together, scattered groups)
 Dense (continuous coverage)

Algae Description (describe shape, spherical, filamentous, flocculent, and note genus/species if known):
pinpoint floc

Aquatic Plant Description (list plants in general vicinity of site, note genus and species if known):
lily pads

Whole Lake Information (fill out for the lake as a whole, check multiple boxes if applicable and note locations of observations)
 Seams: yes no (include oil sheens, pollen/dust blankets and similar floating layers that reduce aesthetics)
 Description of Seams: _____
 Observed Uses (include indications of use even if not observed): none swimming boating water intake fishing other
 Description of Observed Uses: _____
 Objectable Deposits: none floating sunken garbage/trash aquatic weeds flocculent mass (rust colored or other) other
 Description of Objectable Deposits: _____
 Shoreline Erosion: yes no (describe any shoreline erosion observed, note location; look for existing and potential slope failures, landslides)
 Description of Erosion: _____
 Wildlife Sightings: none fish mammals birds reptiles (snakes, turtles) waterfowl amphibians (frogs, salamanders) other
 Description of Wildlife Sightings: _____
 Potential Pollution Sources: none waste outfall pipes garbage/trash dumping land clearing green lawns shoreline residences other
 Description of Potential Pollution Sources: back on shore
 For office use only Field Sheet Log # _____ Unique ID # WP947 E-197 9/00/05 Revision Date June 2001

SAMPLE DATA
 Bottle Sample(s) collected? Yes No
 Secchi depth (m) 1.18
 Secchi viewfinder used? Yes No
 Secchi on bottom? Yes No
 Secchi in weeds? Yes No
 Secchi taken in sunlight? Yes No
 Station Maximum Depth (m) 1.0
 Maximum Depth Method: Secchi disk line Lead line Sonar Survey rod Other

Matrix
 Effluent Surface Water Sediment (Z)
 Water Chlorophyll (C) Nutrients* (N)
 Solids (S) Bacteria (B) Chlorophyll a (A) Zooplankton (Z)
 Other** Other**

Analyte/Bottle Group
 Bacteria (B) Chlorophyll a (A) Zooplankton (Z)
 Other** Other**

Sample Type
 Grab Composite
 Manual Grab Yankin/Kominer
 Petri Petri Depth Integrated Grab Composite
 Other** Other**

QA/QC
 Field Blank Duplicate** Other**

OWMID #	Sample Time	Matrix	Depth (m)	Effluent	Surface Water	Sediment (Z)	Water	Chlorophyll (C)	Nutrients* (N)	Solids (S)	Bacteria (B)	Chlorophyll a (A)	Zooplankton (Z)	Other**	Other**	Total # of bottles
LB1331	1108	0.5	2.0	X	X	X	X	X	X	X	X	X	X	X	X	3
LB1332	1120	2.5	2.5	X	X	X	X	X	X	X	X	X	X	X	X	3
LB1333	1150	2.5	2.5	X	X	X	X	X	X	X	X	X	X	X	X	1

HYDROLAB DATA
 Record last readings per Hydrolab SCP. Take QC duplicate sets of readings at 10% of sites, and use another field sheet form if necessary.
 (If DWM data stored, write only last reading at depth. If DWM error 1 readings at one minute intervals, use additional field sheets)
 OWMID # 1333 Notes: sample time for LB1331 - LB1333 approx 1:30
 Sonda # 31160
 Duplicate readings taken? Yes No

Time	Temp (C)	DO (mg/l)	Depth (meters)	Sound (duBcm)	pH	% Sat	Turb (ntu)	TDS (mg/l)	Redox (mv)
1109	22.41	8.14	0.5	118.4	6.88	101.8		0.076	3.56
1122	22.32	8.02	1.0	118.8	6.98	100.8		0.076	3.04
1127	22.35	8.09	1.5	119.7	7.00	100.5		0.076	
1132	22.46								
1133	22.46								
1138	22.74	8.04	2.0	119.1	6.37	66.1		0.0762	3.59
1138	23.74	8.04	2.5	132.5	6.34	61.4		0.0848	1.35

7/26/01 dense pin point floc

Station Sheet **3 of 3**

General Information (fill out prior to departure)
 Project: Bassville Lakes
 PALIS # 62025
 Lake Watson Rd
 Town Taunton
 Station ID # A
 Sampling Crew full name (initials ok for year round DWM employees)
 Lead: 01970 Others: Bungartur
 General weather conditions last 3 days at: _____
 date: _____ Sky: _____ WindType: _____ Temp: _____
 Time (24 hr): _____
 Description of Station Access (include point sign)
boat access ramp
 Station Description (describe precisely where samples are taken)
deep hole
 Lake level staff gage reading and source type (if available)

Current Weather
 Clear
 Partly sunny
 Partly cloudy
 Mostly cloudy
 Overcast
 Foggy
 Drizzly
 Light rain
 Heavy rain
 Sleet
 Snow

Air Temperature
 70-79
 80-89
 90-100

Wind Conditions
 Calm (0-1 mph)
 Slight breeze (1-5 mph)
 Moderate winds (6-15 mph)
 Gusty (16-25 mph)
 Strong winds (> 25 mph)

Water Clarity
 Clear
 Slightly turbid
 Highly turbid
 Suspended
 Opaque

Water Color (color at 1/2 secchi depth as it appears on white secchi pants)
 Clear/Blue
 Grayish
 Brownish
 Blackish
 Light yellow/tan
 Dark tan
 Light green tint
 Green
 Blue-Green
 Reddish
 Other

Water Level
 Low (estimate minus ___ feet)
 Normal
 High (estimate plus ___ feet)

Presence of Algae (0-1 meter)
 None
 Sparse
 Moderate
 Dense (uniformly distributed)
 Dense (clumped patches)
 Floating scums (continuous surface bloom)

Density of Aquatic Plants (check all that apply)
 None
 Unobservable (note why in description)
 Sparse (individual plants, scattered)
 Moderate (individual plants close together, scattered groups)
 Dense (continuous coverage)

Algae Description (describe shape, spherical, filamentous, flocculent, and note genus/species if known):
clumps of algae

Aquatic Plant Description (list plants in general vicinity of site, note genus and species if known):
lily pads around perimeter

Whole Lake Information (fill out for the lake as a whole, check multiple boxes if applicable and note locations of observations)
 Seams: yes no (include oil sheens, pollen/dust blankets and similar floating layers that reduce aesthetics)
 Description of Seams: _____
 Observed Uses (include indications of use even if not observed): none swimming boating water intake fishing other
 Description of Observed Uses: _____
 Objectable Deposits: none floating sunken garbage/trash aquatic weeds flocculent mass (rust colored or other) other
 Description of Objectable Deposits: _____
 Shoreline Erosion: yes no (describe any shoreline erosion observed, note location; look for existing and potential slope failures, landslides)
 Description of Erosion: _____
 Wildlife Sightings: none fish mammals birds reptiles (snakes, turtles) waterfowl amphibians (frogs, salamanders) other
 Description of Wildlife Sightings: _____
 Potential Pollution Sources: none waste outfall pipes garbage/trash dumping land clearing green lawns shoreline residences other
 Description of Potential Pollution Sources: pump station exhausts, road
 For office use only Field Sheet Log # _____ Unique ID # WP947 E-197 9/00/05 Revision Date June 2001

SAMPLE DATA
 Bottle Sample(s) collected? Yes No
 Secchi depth (m) 1.30
 Secchi viewfinder used? Yes No
 Secchi on bottom? Yes No
 Secchi in weeds? Yes No
 Secchi taken in sunlight? Yes No
 Station Maximum Depth (m) 1.5
 Maximum Depth Method: Secchi disk line Lead line Sonar Survey rod Other

Matrix
 Effluent Surface Water Sediment (Z)
 Water Chlorophyll (C) Nutrients* (N)
 Solids (S) Bacteria (B) Chlorophyll a (A) Zooplankton (Z)
 Other** Other**

Analyte/Bottle Group
 Bacteria (B) Chlorophyll a (A) Zooplankton (Z)
 Other** Other**

Sample Type
 Grab Composite
 Manual Grab Yankin/Kominer
 Petri Petri Depth Integrated Grab Composite
 Other** Other**

QA/QC
 Field Blank Duplicate** Other**

OWMID #	Sample Time	Matrix	Depth (m)	Effluent	Surface Water	Sediment (Z)	Water	Chlorophyll (C)	Nutrients* (N)	Solids (S)	Bacteria (B)	Chlorophyll a (A)	Zooplankton (Z)	Other**	Other**	Total # of bottles
LB1424	0.5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3
LB1425		X	X	X	X	X	X	X	X	X	X	X	X	X	X	3
LB1426		X	X	X	X	X	X	X	X	X	X	X	X	X	X	1
LB1611		X	X	X	X	X	X	X	X	X	X	X	X	X	X	1

HYDROLAB DATA
 Record last readings per Hydrolab SCP. Take QC duplicate sets of readings at 10% of sites, and use another field sheet form if necessary.
 (If DWM data stored, write only last reading at depth. If DWM error 1 readings at one minute intervals, use additional field sheets)
 OWMID # 1427 Notes: at 0.5 m + 0.2
 Sonda # 31160
 Duplicate readings taken? Yes No

Time	Temp (C)	DO (mg/l)	Depth (meters)	Sound (duBcm)	pH	% Sat	Turb (ntu)	TDS (mg/l)	Redox (mv)
1350	25.91	8.25	0.5	116.9	6.82	100.0		0.078	2.748
1356	25.03	6.28	1.5	116.9	6.48	74.9		0.078	3.25
1303	24.08	8.05	2.5	129.5	6.15	61.5		0.0829	1.71

8/28/01 dense clumps algal scums and a surface bloom of algae were noted at the deep hole and the boat ramp

Massachusetts Department of Environmental Protection/Division of Watershed Management
Lakes and Ponds Field Sheet

Station Sheet L of 9

General Information (fill out prior to departure)
 Project 2001-1-2-3 General weather conditions last 3 days at: _____
 PALIS # 12205 date: _____ Sky: _____ Wind Type: _____ Temp: _____ Adv: _____
 Lake W. Lake Pond Town Taunton
 Station ID # Site A Sampling Crew full name (initials ok for year-round DWM employees) _____
 Lead Karen G. G. G. Others: V. E. E.

Station Information (fill out at station)
 Date 10/10 Time (24 hr) 0700 Photos taken? Yes No
 Description of Station Access (include posted signs)
Public area on edge of water pond site park
 Station Description (describe precisely where samples are taken)
Site A deep hole of 10 feet 500 m up
 Lake level staff gauge reading and source type (if available)

Current Weather
 Clear (F) Partly sunny Partly cloudy Mostly cloudy Overcast Foggy Drizzly Light rain Heavy rain Snow

Air Temperature (°F) 20-30 30-40 40-50 50-60 60-70 70-80 80-90 90-100

Wind Conditions
 Calm (0-1 mph) Slight breeze (1-5 mph) Moderate winds (5-15 mph) Gusts (15-25 mph) Strong winds (>25 mph)

Other (surface) (check all that apply)
 None Salts (some egg) Fluffy Slightly turbid Highly turbid Chlorine Petroleum Menstrual Rotting vegetation Other _____

Water Clarity (check all that apply)
 Clear Clayish Brownish Blackish Light yellow/tan Dark tan Light green tint Green Blue-green Reddish Other _____

Water Color (enter at 1% depth)
 Clear/Blue Clayish Brownish Blackish Light yellow/tan Dark tan Light green tint Green Blue-green Reddish Other _____

Wind Direction (blowing from the...)
 Calm North Northeast East Southeast South Southwest West

Wave Height (ft) Calm (0 in) 0-2 in 2-5 in 5-10 in 10-15 in 15-20 in >20 in

Presence of Algae (0-1 meter)
 None Sparse Moderate Dense (uniformly distributed) Dense (clumped/patchy) Floating scum (continuous surface bloom)

Density of Aquatic Plants (check all that apply)
 Sparse Moderate Dense (individual plants close together, scattered groups) Dense (continuous coverage) Floating Submerged Emergent

Aquatic Plant Description (fill plants in general vicinity of site; note genus and species if known)
Very clear, some weeds observed
Very clear, some weeds observed

Whole Lake Information (fill out for the lake as a whole; check multiple boxes if applicable and note locations of observations)
 Seams? Yes No (include oil sheen, pollen/dust blotches and similar floating layers that reduce aesthetics)
 Description of Seams:
 Observed Use? (include indications of use even if not observed) none swimming boating water intake fishing other _____
 Description of Observed Use? (include numbers or indicators of Use?) Boat + swimming + ...
 Object/obscure Deposits none floating sunken garbage/trash aquatic weeds flocculent mass (rust colored or other) other _____
 Description of Object/obscure Deposits (type, extent and area affected...)
 Shoreline Erosion yes no (describe any shoreline erosion observed, note location; look for existing and potential slope failures, landslides)
 Description of Erosion:
 Wildlife Sightings none fish mammals birds reptiles (snakes, turtles) waterfowl amphibians (frogs, salamanders) other _____
 Description of Wildlife Sightings (include numbers or indicators of Use?) Cow + ...
 Potential Pollution Sources none waste/wall pipes garbage/trash dumping land clearing green lawns shoreline residences other _____
 Description of Potential Pollution Sources Pond area, recreational use

For office use only: Field Sheet Log # _____ Unique ID # W0947 Revision Date June 2001

SAMPLE DATA

Bottle Sample(s) collected? Yes No Notes: _____
 Secchi Time (24 hr) 0700
 Secchi depth (m) 5 m
 Secchi viewfinder used? Yes No
 Secchi on bottom? Yes No
 Secchi in weeds? Yes No
 Secchi taken in sunlight? Yes No
 Station Maximum Depth (m) 10 ft 3 in
 Maximum Depth Method Secchi disk line Lead line Sonar Survey rod Other _____

OWMID #	Sample Time	Depth (m)	pH	Temperature (°C)	Dissolved Oxygen (mg/L)	Conductivity (µS/cm)	Total Solids (mg/L)	Total Phosphorus (µg/L)	Total Nitrogen (mg/L)	Chlorophyll a (µg/L)	Algae (A)	Zooplankton (Z)	Color (PCU)	Sample Type				Total # of bottles
														Grab	Composite	Depth Integrated	Grab Composite	
<u>LB 1861</u>	<u>0700</u>	<u>5 m</u>	<u>7.2</u>	<u>12</u>	<u>1.5</u>	<u>150</u>	<u>1.2</u>	<u>0.1</u>	<u>0.5</u>	<u>1.0</u>	<u>1</u>	<u>1</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>1</u>
<u>LB 1862</u>	<u>0712</u>	<u>5 m</u>	<u>7.2</u>	<u>12</u>	<u>1.5</u>	<u>150</u>	<u>1.2</u>	<u>0.1</u>	<u>0.5</u>	<u>1.0</u>	<u>1</u>	<u>1</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>1</u>
<u>LB 1863</u>	<u>0714</u>	<u>5 m</u>	<u>7.2</u>	<u>12</u>	<u>1.5</u>	<u>150</u>	<u>1.2</u>	<u>0.1</u>	<u>0.5</u>	<u>1.0</u>	<u>1</u>	<u>1</u>	<u>1</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>1</u>

* preservatives used (for water matrix matrices) (check one) H₂SO₄ HCl
 describe in notes
 *** for duplicate samples: use different IDs for each sample; check "Duplicate" column for each and leave blank lines before and after duplicate sets

HYDROLAB DATA Record last readings per HydroLab SOP. Take QC duplicate sets of readings at 10% of sites, and use another field sheet form if necessary.
 if DWM data shared, write only last readings at depth. If DFW enter 3 readings at one minute intervals, use additional field sheet(s).

OWMID # _____
 Sonda # _____
 Surveyor # _____
 Duplicate readings taken? Yes No
 Duplicate OWMIDs: _____

Time	Temp (°C)	pH	Depth (meters)	Sound (µS/cm)	pH	% Sat	Turb (µg/L)	TSS (mg/L)	Redox (mV)
<u>None</u>	<u>12</u>	<u>7.2</u>							

10/4/01 moderate algae suspended in the water column

Transparency / Clarity

See Data table from 2001 Taunton Water Quality Assessment Report and 2001 MassDEP Field sheets included above in "Algae" Supporting Information for Removed Impairments

(MassDEP 1996) MassDEP 1996 synoptic survey

WBHD: MA62205 WATERSHED: Taunton(S2) (Printed 05/13/96)
 NAME: Watson Pond TYPE: Lake/Pond CLASS: B
 CODE: 62205 SIZE: 94.00(acres) ORW: Yes or No
 Water Supply?: Yes or No

LATITUDE: (415700/710710)
 LONGITUDE:
 Lake/Pond Name: Watson Pond, Taunton
 Ecoregion Name: 0
 Description:

Assessment Date: 9112 7909 Begin Sampling: 8908 Water Quality Limited?: YES or NO
 Cycle: 94-98 End Sampling: 8908 303(d) List?: YES or NO

Lake Specific Information
 Significantly Publicly Owned: Y H 1996 Significantly Publicly Owned: or N
 Trophic Status: O M E H D U
 Trophic Trend: I S D U
 Acidity/Toxics Trend: I S D U
 Acidity Effects: I V N U

Uses	Support	Threat	Partial	Non-Sup	Not-Asses	Not-Attain
OVERALL USE SUPPORT		94.00	99.0	94.00		
ALUS						
FISH CONSUMPTION					94.00	
PRIMARY CONTACT				94.00		
SECONDARY CONTACT	84.00	10.00				
Aesthetics		94.00				

Nonattainment Causes
 Code Size Magnitude 1996 Code Size Magnitude
 9900- Nutrients 94.00 M
 1200- Organic enrichment/Low DO 94.00 S
 2200- Noxious aquatic plants 94.00 H
 2600- Exotic species 94.00 M

Nonattainment Sources
 Code Size Magnitude 1996 Code Size Magnitude
 8500- CONTAMINATED SEDIMENTS 94.00 M
 9000- SOURCE UNKNOWN 94.00 H

Assessment Type
 (Assessment Category => Monitored) 1996 Assessment Category => M (E) NA
 B05, B10, R15, R20

Media/Pollutants Assessed (Toxics Monitoring => Y) 1996 Toxics Monitoring => YES or NO

Comments:
 VERY HIGH TOTAL PHOSPHORUS LEVELS, VERY DENSE GROWTHS OF AQUATIC MACROPHYTES (PRIMARILY CABOMBA CAROLINIANA AND NYMPHAEA SP.) COVER THE ENTIRE LITTORAL ZONE, OXYGEN DEPLETION IN THE BOTTOM WATERS, AND BLUE-GREEN "BLOOMS" REDUCE TRANSPARENCY TO BELOW THE SAFETY CRITERIA (4 FT. SECCHI DISK).
 1976 - SAME DATA USED FOR ASSESSMENT, NON-NATIVE PRESENCE OF NON-NATIVE CONSIDERED AN IMBALANCE TO COMMUNITY.
 E. coli 10/31/76
 Page 424

WBHD: MA 62205 WATERSHED: Taunton (Printed 06/01/96)
 NAME: Watson Pond TYPE: Lake/Pond CLASS: B/
 CODE: SIZE: 94.0 acres ORW: Yes or No
 Water Supply?: Yes or No

LATITUDE:
 LONGITUDE:
 Lake/Pond Name:
 Ecoregion Name:
 Description: Watson Pond, Taunton

Assessment Date: 9209 Begin Sampling: 9608 Water Quality Limited?: YES or NO
 Cycle: 98-98 End Sampling: 9608 303(d) List?: YES or NO

Lake Specific Information
 Significantly Publicly Owned: or N
 Trophic Status: O M E H D U
 Trophic Trend: I S D U
 Acidity/Toxics Trend: I S D U
 Acidity Effects: I V N U

Uses	Support	Threat	Partial	Non-Sup	Not-Asses	Not-Attain
OVERALL USE SUPPORT			94.0	20.0		
ALUS						
FISH CONSUMPTION			94.0			
PRIMARY CONTACT					94.0	
SECONDARY CONTACT	75.0		94.0			
Aesthetics	74.0		74.0	20.0		
ALUS Chem/Phys						
ALUS Toxicity						

Nonattainment Causes
 Code Size Magnitude 1996 Code Size Magnitude
 2200 20.0 M
 2600 94.0 M
 2300 75.0 S
 2300 94.0 S

Nonattainment Sources
 Code Size Magnitude 1996 Code Size Magnitude
 9000 94.0 H

Assessment Type
 1996 Assessment Category => M, E, NA
 B05, C15, R20, R35
 B25, C35, R45

Media/Pollutants Assessed 1996 Toxics Monitoring => YES or NO

Comments:
 1998: 5 August 1996 synoptic survey indicated about 20% of the surface covered with very dense floating or emergent vegetation, including the non-native species Cabomba caroliniana. DFM base line survey on 26 July 1994 indicated oxygen depletion (< 2.5 mg/l) below 1.5 meters. Very dense vegetation (mostly submergent) throughout most of the pond, and high total phosphorus values and transparency below the safety criteria (< 4ft Secchi disk).

Recommendations

2024/26 Recommendations

2024/26IR [Bacteria, Medium] Additional high frequency monitoring should be conducted for Watson Pond (MA62205) in particular at the Shoreline station at eastern edge of pond, from picnic area West off Bay St, Taunton {W2782/MAP2L-295S}, to confirm if Watson Pond should be impaired for *Escherichia coli* (*E. coli*). An Alert was identified for *E. coli* based on 5 samples collected at W2782 in 2018. Note that this pond is already impaired for *Enterococcus*, but it would be useful to also sample/test for *Enterococcus* in Watson Pond since beach closures at the DCR beach (Beach ID: 4961) have lessened in recent years (most recent concern was 18% of the season posted in 2015) and it was based on MDPH beach closure data in 2012 that this pond was impaired for *Enterococcus* in the first place. This is a medium priority;

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Supporting	No

2024/26 Use Attainment Summary

The Fish Consumption Use for Watson Pond (MA62205) is assessed as Not Supporting with a new impairment being added for PFAS in Fish Tissue. Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Watson Pond (MA62205) at station F0391 in 2018 as part of the probabilistic lake surveys (MAP2). Additionally, fish toxics sampling was conducted at Watson Pond (MA62205) in Taunton as part of a June 2022 MDPH study assessing 40 PFAS analytes in fish tissue samples collected from lakes and ponds in state parks. MDPH issued a site-specific advisory for PFAS in Watson Pond in their February 2023 Freshwater Fish Consumption Advisory List and retained it in the 2025 list. The public should refer to the most recent MDPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations. No source of PFAS has been identified at this time.

Fish Consumption Advisories

Summary of Fish Toxics Sampling and Resulting Fish Consumption Advisories (MA DPH 2025) (MA DPH 2023b) (MassDEP Undated 7)

Summary Statement

Fish toxics sampling for mercury, organochlorine pesticides, and metals was performed by MassDEP WPP biologists in Watson Pond (MA62205) at station F0391 in 2018 as part of the probabilistic lake surveys (MAP2). Additionally, fish toxics sampling was conducted at Watson Pond (MA62205) in Taunton as part of a June 2022 MDPH study assessing 40 PFAS analytes in fish tissue samples collected from lakes and ponds in state parks. Because of elevated PFAS measured in fish filets, MDPH issued site-specific fish consumption advisories for Watson Pond in their February 2023 Freshwater Fish Consumption Advisory List and retained them in the 2025 list. The site-specific DPH advisories are indicative of a Fish Consumption Use impairment for PFAS in Fish Tissue for Watson Pond (MA62205).

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Watson Pond (MA62205) is assessed as Not Supporting. A new impairment is being added for Aquatic Plants (Macrophytes) non-pollutant, based on the observations from a MassDEP MAP2 macrophyte mapping survey in summer 2018. The prior Algae impairment is being delisted since little to no algal growth was observed at the pond (at both the deep hole and shoreline) by MassDEP staff during eight visits in 2018 (see removal statement). The Transparency / Clarity impairment is also being delisted (see Primary Recreation Use summary for more details). MassDEP staff recorded aesthetics observations as part of the MAP2 lake monitoring project in summer 2018 at two stations in Taunton, for this Watson Pond AU; at the eastern edge of pond, from picnic area west off Bay Street (W2782/MAP2L-295S, n=5) and at the deep hole index station, center of pond, ~275 feet south from north central shore (W0947/MAP2L-295, n=3). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, or littoral zone duckweed recorded in ten shoreline plots (n=1). However, during the MAP2 macrophyte mapping survey in Sep 2018 (n=1), greater than 25% (51.8%) of the waterbody was determined to have an aquatic macrophyte biovolume >50% and field staff also raised an aesthetics impairment flag due to dense aquatic plants (macrophytes).

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0947	MassDEP	Water Quality	Watson Pond	[deep hole, center of pond, approximately 275 feet south from north central shore, Taunton]	41.951426	-71.119134
W2782	MassDEP	Water Quality	Watson Pond	[eastern edge of pond, from picnic area west off Bay Street, Taunton]	41.949853	-71.115624

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W0947	2018	3	Aesthetic observations were made by MassDEP field sampling crews at Station W0947 (MAP2L-295) on Watson Pond (MA62205) during 3 site visits between Jun 2018 and Aug 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted dense/very dense aquatic plants (n=2). During the MAP2 macrophyte mapping survey (n=1) in Sep 2018, greater than 25% (51.8%) of the waterbody was determined to have an aquatic macrophyte biovolume >50% and the survey also noted an aesthetics impairment flag due to aquatic plants (macrophytes). The observations from the MAP2 survey are indicative of an Aesthetics Use impairment.

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2782	2018	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2782 (MAP2L-295S) on Watson Pond (MA62205) during 5 site visits between May 2018 and Sep 2018. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. During the MAP2 littoral survey (n=1), duckweed was not noted in any of the 10 shoreline plots.

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W0947	Watson Pond	2018	Aesthetics Impaired?	No	3	3
W0947	Watson Pond	2018	Aquatic Plant Density, Overall	Dense	1	3
W0947	Watson Pond	2018	Aquatic Plant Density, Overall	Moderate	1	3
W0947	Watson Pond	2018	Aquatic Plant Density, Overall	Very Dense	1	3
W0947	Watson Pond	2018	Color	Light Yellow/Tan	1	3
W0947	Watson Pond	2018	Color	None	2	3
W0947	Watson Pond	2018	Objectionable Deposits	No	3	3
W0947	Watson Pond	2018	Odor	None	2	3
W0947	Watson Pond	2018	Odor	Sulfide (rotten egg)	1	3
W0947	Watson Pond	2018	Scum	No	3	3
W0947	Watson Pond	2018	Turbidity	None	2	3
W0947	Watson Pond	2018	Turbidity	Slightly Turbid	1	3
W2782	Watson Pond	2018	Aesthetics Impaired?	No	5	5
W2782	Watson Pond	2018	Color	None	5	5
W2782	Watson Pond	2018	Objectionable Deposits	No	5	5
W2782	Watson Pond	2018	Odor	None	5	5
W2782	Watson Pond	2018	Scum	No	5	5
W2782	Watson Pond	2018	Turbidity	None	5	5

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	YES
2024/26 Use Attainment Summary	

The Primary Contact Recreation Use for Watson Pond (MA62205) continues to be assessed as Not Supporting with the prior *Enterococcus* impairment carried forward. An Alert is being identified for *Escherichia coli* (*E. coli*) based on data collected at the eastern edge of the pond in 2018, and a recommendation will be made for additional monitoring. An Aquatic Plants (Macrophytes) impairment is being added (from the Aesthetics Use). The Transparency / Clarity impairment is being delisted since three Secchi depth measurements at the Index-deep hole station met the threshold in 2018 (see removal statement). The prior Algae impairment is also being delisted (see Aesthetics Use summary for more details). MassDEP staff collected *E. coli* bacteria samples in Watson Pond at W2782/MAP2L-295S [Shoreline station at eastern edge of pond, from picnic area West off Bay St, Taunton] from May-Sep 2018 (n=5). Analysis of this single year limited frequency *E. coli* dataset indicated 50% of intervals had GMs >126 CFU/100ml, 1 sample exceeded the 410 CFU/100ml STV (max concentration of 1,700 CFU/100ml) and the seasonal GM was 166 CFU/100ml, which is indicative of an Alert status. It should be noted that while according to MDPH Beach Closure data the DCR beach at Watsons Pond [Beach ID: 4961] was rarely, if at all, posted for swimming from 2018-2022 (max 18% bathing season posted in 2015), the pond was first listed for *Enterococcus* bacteria based on the MDPH Beach Closure data at this same beach in 2012 (29% of the season posted). In light of MDPH postings at the DCR beach exceeding the 10% threshold within the assessment window (in 2015) and the elevated *E. coli* concentrations reported by MassDEP staff in 2018, the *Enterococcus* impairment cannot be delisted at this time. MassDEP also collected Secchi depth and cyanobacteria cell count data in 2018 at W0947/MAP2L-295 [Index-deep hole], and cyanobacteria cell count and cyanotoxins data in 2018 at W2782. Secchi depth data at station W0947 (station depth=3 m) indicated water clarity meeting the 1.2m (4ft) threshold (n=3, 1.3-2.8m). The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples (n=6). Analysis of microcystins and cylindrospermopsin samples from the shoreline station W2782 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L. Surface water sampling was also conducted as part of a May 2022 MDPH study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies in state parks. The average concentrations of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS, HFPO-DA/GenX) were all less than the 90 ng/L (ppt) recreational screening value (maximum average 2.1 ng/L PFOA).

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W0947	MassDEP	Water Quality	Watson Pond	[deep hole, center of pond, approximately 275 feet south from north central shore, Taunton]	41.951426	-71.119134
W2782	MassDEP	Water Quality	Watson Pond	[eastern edge of pond, from picnic area west off Bay Street, Taunton]	41.949853	-71.115624

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (30-day Interval Analysis)

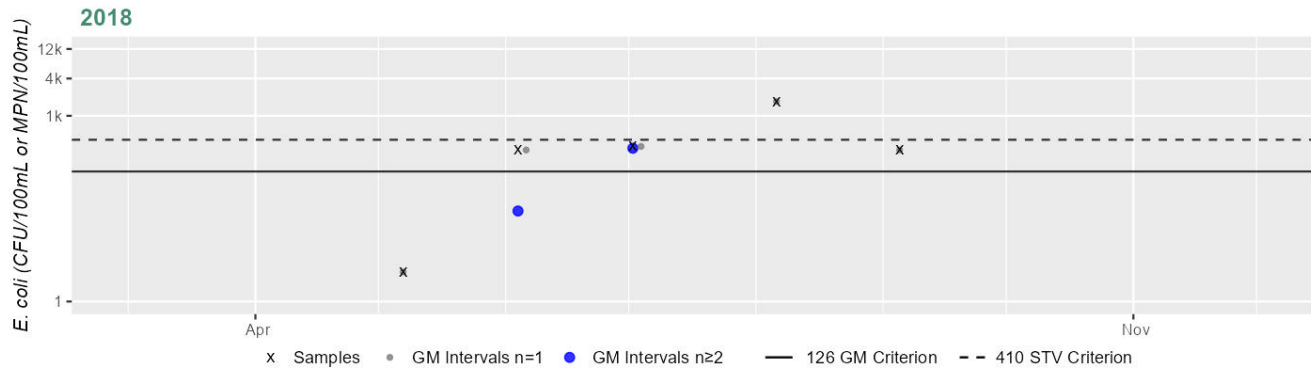
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2782	MassDEP	E. coli	05/07/18	09/05/18	5	3	1700	166

Station MASSDEP_W2782 - Escherichia coli

Daily Maximum Samples & 30 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	166
#GMI	2
#GMI Ex	1
%GMI Ex	50%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance

Current (2011-2022)

50%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Beach Postings

MDPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022) (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 3)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
4961	Watsons Pond (DCR)/ Taunton	41.94965, -71.11530	41.94989, -71.11510	2%	18%	0%	0%	0%	2%	7%	0%	7%	1

Other Indicators

Summary Statement for 2011-2022 Cyanobacteria Cell Count and Cyanotoxin Data, and Secchi Depth Data (MassDEP Undated 9) (MassDEP Undated 5)

Data Year(s)	Summary
2018	In Watson Pond (MA62205) in 2018, MassDEP collected Secchi and cyanobacteria cell count data at W0947 [MAP2L-295, Index-deep hole], and cyanobacteria cell count and cyanotoxin data at W2782 [MAP2L-295S, Shoreline]. At station W0947 (station depth=3 m) the Secchi depth measurements ranged from 1.3-2.8 m (n=3) indicating water clarity meeting the 1.2 m (4 ft) threshold. The cyanobacteria cell count did not exceed 70,000 cells/mL in any of the water samples (n=6). Analysis of microcystins and cylindrospermopsin samples from the shoreline station W2782 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L.

MassDEP Cyanobacteria Cell Count Data Collected at Lakes and Impoundments (2016-2018) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Waterbody	Station Type	Data Year	Sample Count	Count >70,000 cells/mL	Exceedance Date(s)
W0947	Watson Pond	Index	2018	3	0	NA
W2782	Watson Pond	Shoreline	2018	3	0	NA

Summary of MDPH 2021 and 2022 PFAS in Water Column Data

Data Sources: (MA DPH 2023a, MA DPH 2023b)

Surface water sampling was conducted at Watson Pond Beach on Watson Pond (MA62205) in Taunton as part of a May 2022 MDPH study assessing 40 PFAS analytes in surface water and fish tissue samples collected from waterbodies in state parks. The average concentrations of the seven analytes with individual toxicity criteria (PFOA, PFOS, PFNA, PFHxS, PFBA, PFBS, HFPO-DA/GenX) were all less than the 90 ng/L (ppt) recreational screening value (maximum average 2.1 ng/L PFOA).

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Watson Pond (MA62205) continues to be assessed as Not Supporting, with a new Aquatic Plants (Macrophytes) impairment being added (from the Aesthetics Use). The Transparency / Clarity impairment is being delisted since three Secchi depth measurements at the Index-deep hole station met the threshold in 2018 (see removal statement). The prior Algae impairment is also being delisted (see Aesthetics Use summary for more details). MassDEP staff collected *E. coli* bacteria samples in this Watson Pond AU at W2782/ MAP2L-295S [Shoreline station at eastern edge of pond, from picnic area West off Bay St, Taunton] from May-Sep 2018 (n=5). Analysis of this single year limited frequency *E. coli* dataset indicated 66% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV, and the overall GM was 166 CFU/100ml. *E. coli* data from W2782 are not indicative of poor water quality conditions. Additionally, according to MDPH Beach Closure data, the DCR beach at Watsons Pond [Beach ID: 4961] was rarely, if at all, posted for swimming from 2018-2022 (max 18% bathing season posted in 2015). MassDEP also collected cyanobacteria cell count data in 2018 at W0947/MAP2L-295 [Index-deep hole], and cyanobacteria cell count and cyanotoxins data at W2782. The cyanobacteria cell count did not exceed 70,000 cells/ml in any of the water samples (n=6). Analysis of microcystins and cylindrospermopsin samples from the shoreline station W2782 (n=6) indicated that the cyanotoxin concentrations did not exceed their respective thresholds of 8 µg/L and 15 µg/L.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2782	MassDEP	Water Quality	Watson Pond	[eastern edge of pond, from picnic area west off Bay Street, Taunton]	41.949853	-71.115624

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

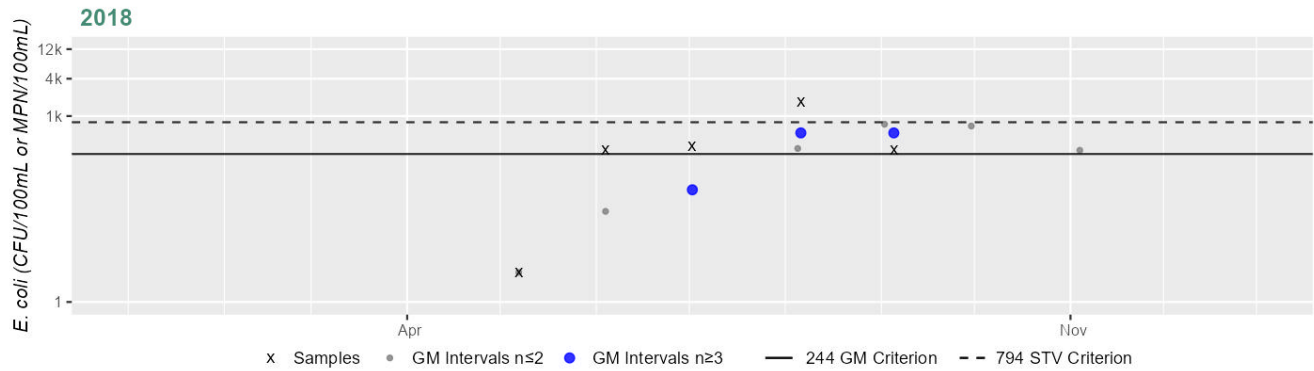
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2782	MassDEP	E. coli	05/07/18	09/05/18	5	3	1700	166

Station MASSDEP_W2782 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	5
SeasGM	166
#GMI	3
#GMI Ex	2
%GMI Ex	66%
n>STV	1
%n>STV	20%

Cumulative %GMI Exceedance

Current (2011-2022)

66%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
 %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
 "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Weir Village North Pond (MA62206)

Location:	west of Carriage Lane, Taunton.
AU Type:	FRESHWATER LAKE
AU Size:	17 ACRES
Classification/Qualifier:	B

No usable data were available for Weir Village North Pond (MA62206) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fish Passage Barrier*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fish Passage Barrier*)	Hydrostructure Impacts on Fish Passage (Y)	X	--	--	--	--

Weir Village South Pond (MA62207)

Location:	northeast of the railroad tracks west of Linden Street, Taunton.
AU Type:	FRESHWATER LAKE
AU Size:	14 ACRES
Classification/Qualifier:	B

No usable data were available for Weir Village South Pond (MA62207) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

West Meadow Pond (MA62208)

Location:	West Bridgewater.
AU Type:	FRESHWATER LAKE
AU Size:	104 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Aquatic Plants (Macrophytes)*)	--	Added
4c	4c	(Non-Native Aquatic Plants*)	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Aquatic Plants (Macrophytes)*)	Source Unknown (N)	--	--	X	X	X
(Non-Native Aquatic Plants*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted recently, so the Fish Consumption Use for West Meadow Pond (MA62208) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

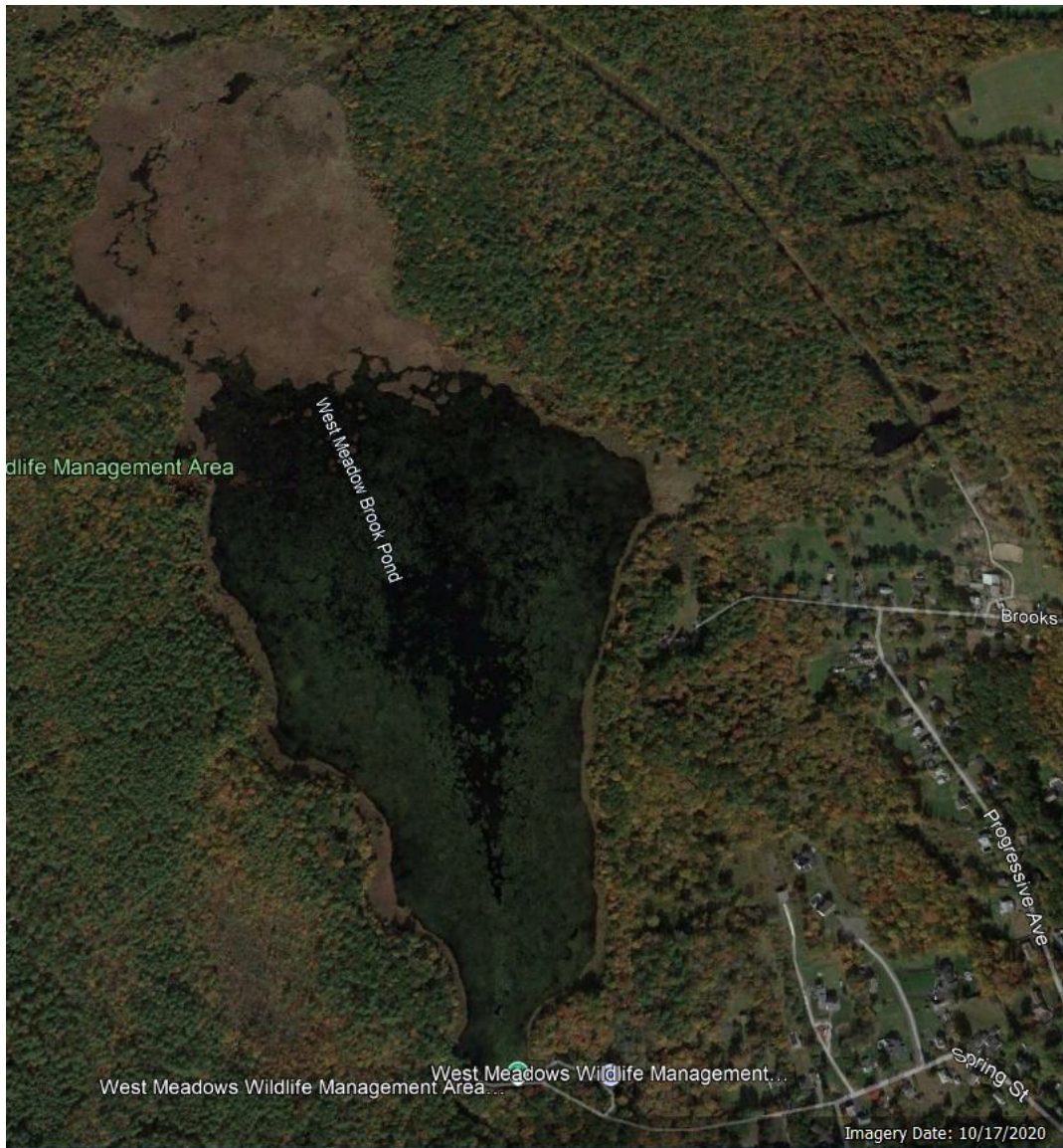
2024/26 Use Attainment Summary
<p>The Aesthetics Use for West Meadow Pond (MA62208) will continue to be assessed as Not Supporting. Since the Non-Native Aquatic Plants impairment was redundantly duplicated across multiple uses for this waterbody, the Non-Native Aquatic Plants impairment is being removed from the Aesthetics Use, but will continue to be maintained under the Aquatic Life Use. Since coverage of Aquatic Plants (submerged and floating-leaf) in West Meadow Pond was estimated at 100% by MassDEP staff during a 1996 synoptic survey (MassDEP 1996) and Google Earth images August 2013 through October 2020 (Google Earth Pro Undated) show this pond is very filled in with submergent and emergent vegetation (>25% coverage), an Aquatic Plants (Macrophytes) non-pollutant impairment is being added in the place of the Non-Native Aquatic Plants impairment at this time. No new data are available to evaluate the Aesthetics Use for West Meadow Pond.</p>

Aesthetic Observations

West Meadow Pond (MA62208) Google Earth Imagery: Pond Outline (2000) Followed by Imagery from 2013 and 2020 Showing Dense/Very Dense Vegetation Covering >25% of the Pond's Surface (Google Earth Pro Undated)







Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>No bacteria or other indicator data for West Meadow Pond (MA62208) are available, so the Primary Contact Recreation Use continues to be assessed as Not Supporting, with an Aquatic Plants (Macrophytes) impairment being added (from the Aesthetics Use). Since the Non-Native Aquatic Plants impairment is being removed from the Aesthetics Use this cycle, this impairment is also being removed from the Primary Contact Recreation Use.</p>

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

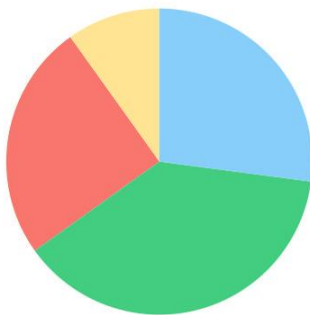
No bacteria or other indicator data for West Meadow Pond (MA62208) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use continues to be assessed as Not Supporting with an Aquatic Plants (Macrophytes) impairment being added (from the Aesthetics Use). Since the Non-Native Aquatic Plants impairment is being removed from the Aesthetics Use this cycle, this impairment is also being removed from the Secondary Contact Recreation Use.

White Oak Brook (MA62-79)

Location:	Headwaters east of Sandy Lane, Hanson to mouth at inlet Monponsett Pond, West Basin (excluding approximately 0.2 miles through Reservoir (White Oak Reservoir) segment MA62157).
AU Type:	RIVER
AU Size:	1.6 MILES
Classification/Qualifier:	A: PWS, ORW (Tributary)

White Oak Brook (MA62-79)

Watershed Area: 1.01 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	1.01	1.01	0.74	0.74
Agriculture	9.9%	9.9%	13.5%	13.5%
Developed	25%	25%	18%	18%
Natural	38%	38%	34.2%	34.2%
Wetland	27.1%	27.1%	34.2%	34.2%
Impervious	10.9%	10.9%	7.3%	7.3%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
2	2	None	--	Unchanged

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for White Oak Brook (MA62-79) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for White Oak Brook (MA62-79) is assessed as Fully Supporting based on the general lack of objectionable conditions observed during summers 2011 through 2015. MassDEP staff recorded aesthetics observations at two stations for this White Oak Brook AU during the summers of 2011-2015 as part of the Baseline Lakes sampling project at Reservoir (White Oak Reservoir); downstream of South Street above the confluence with the Reservoir (White Oak Brook impoundment) in Hanson (W2174) in 2011, 2013, 2014, n=1 and in 2015, n=2 and close to the downstream end of the AU at Pleasant St in Hanson (W2119) in 2011-2014, n=1-3/yr and in 2015, n=5. There were generally no noted objectionable conditions (odors, deposits, growths, or turbidity) recorded during any of the surveys.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2119	MassDEP	Water Quality	White Oak Brook	[Pleasant Street, Hanson]	42.018986	-70.853425
W2174	MassDEP	Water Quality	White Oak Brook	[downstream of South Street above confluence with Reservoir, a White Oak Brook impoundment, Hanson]	42.032145	-70.854283

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2119	2011	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2119 on White Oak Brook (MA62-79) during 3 site visits between Jun 2011 and Aug 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted grey water color (n=2).
W2119	2012	1	Aesthetic observations were made by MassDEP field sampling crews at Station W2119 on White Oak Brook (MA62-79) during 1 site visit on Aug 29, 2012. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted grey water color (n=1). However, aesthetic observations are limited (n<3).
W2119	2013	3	Aesthetic observations were made by MassDEP field sampling crews at Station W2119 on White Oak Brook (MA62-79) during 3 site visits between Jun 2013 and Aug 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted grey water color (n=2).

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2119	2014	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2119 on White Oak Brook (MA62-79) during 2 site visits between Jul 2014 and Aug 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted grey water color (n=1). However, aesthetic observations are limited (n<3).
W2119	2015	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2119 on White Oak Brook (MA62-79) during 5 site visits between May 2015 and Sep 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted grey water color (n=2).
W2174	2011	1	Aesthetic observations were made by MassDEP field sampling crews at Station W2174 on White Oak Brook (MA62-79) during 1 site visit on Jun 13, 2011. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2174	2013	1	Aesthetic observations were made by MassDEP field sampling crews at Station W2174 on White Oak Brook (MA62-79) during 1 site visit on Jun 26, 2013. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded. However, aesthetic observations are limited (n<3).
W2174	2014	1	Aesthetic observations were made by MassDEP field sampling crews at Station W2174 on White Oak Brook (MA62-79) during 1 site visit on Aug 20, 2014. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted an aesthetics impairment flag (n=1) and grey water color (n=1). However, aesthetic observations are limited (n<3).
W2174	2015	2	Aesthetic observations were made by MassDEP field sampling crews at Station W2174 on White Oak Brook (MA62-79) during 2 site visits between Aug 2015 and Sep 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded, though field staff noted grey water color (n=1). However, aesthetic observations are limited (n<3).

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2119	2011	3	3	1
W2119	2012	1	1	0
W2119	2013	3	3	0
W2119	2014	2	1	0
W2119	2015	5	5	0
W2174	2011	1	1	0
W2174	2013	1	1	0
W2174	2014	1	0	0
W2174	2015	2	2	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2119	White Oak Brook	2011	Aquatic Plant Density, Overall	None	1	3
W2119	White Oak Brook	2011	Aquatic Plant Density, Overall	NR	1	3
W2119	White Oak Brook	2011	Aquatic Plant Density, Overall	Sparse	1	3
W2119	White Oak Brook	2011	Color	Brownish	1	3
W2119	White Oak Brook	2011	Color	Greyish	2	3
W2119	White Oak Brook	2011	Objectionable Deposits	No	2	3
W2119	White Oak Brook	2011	Objectionable Deposits	Yes	1	3
W2119	White Oak Brook	2011	Odor	Musty (Basement)	1	3
W2119	White Oak Brook	2011	Odor	None	2	3
W2119	White Oak Brook	2011	Periphyton Density, Filamentous	Moderate	1	3
W2119	White Oak Brook	2011	Periphyton Density, Filamentous	None	1	3
W2119	White Oak Brook	2011	Periphyton Density, Filamentous	Sparse	1	3
W2119	White Oak Brook	2011	Periphyton Density, Film	Dense	1	3
W2119	White Oak Brook	2011	Periphyton Density, Film	None	1	3
W2119	White Oak Brook	2011	Periphyton Density, Film	Sparse	1	3
W2119	White Oak Brook	2011	Scum	No	2	3
W2119	White Oak Brook	2011	Scum	Yes	1	3
W2119	White Oak Brook	2011	Turbidity	None	1	3
W2119	White Oak Brook	2011	Turbidity	Slightly Turbid	2	3
W2119	White Oak Brook	2012	Aquatic Plant Density, Overall	Sparse	1	1
W2119	White Oak Brook	2012	Color	Greyish	1	1
W2119	White Oak Brook	2012	Objectionable Deposits	No	1	1
W2119	White Oak Brook	2012	Odor	None	1	1
W2119	White Oak Brook	2012	Periphyton Density, Filamentous	Sparse	1	1
W2119	White Oak Brook	2012	Periphyton Density, Film	None	1	1
W2119	White Oak Brook	2012	Scum	No	1	1
W2119	White Oak Brook	2012	Turbidity	Slightly Turbid	1	1
W2119	White Oak Brook	2013	Aesthetics Impaired?	No	3	3
W2119	White Oak Brook	2013	Aquatic Plant Density, Overall	Sparse	3	3
W2119	White Oak Brook	2013	Color	Brownish	1	3
W2119	White Oak Brook	2013	Color	Greyish	2	3
W2119	White Oak Brook	2013	Objectionable Deposits	No	3	3
W2119	White Oak Brook	2013	Odor	None	3	3
W2119	White Oak Brook	2013	Periphyton Density, Filamentous	None	2	3

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2119	White Oak Brook	2013	Periphyton Density, Filamentous	Sparse	1	3
W2119	White Oak Brook	2013	Periphyton Density, Film	None	3	3
W2119	White Oak Brook	2013	Scum	No	3	3
W2119	White Oak Brook	2013	Turbidity	Moderately Turbid	1	3
W2119	White Oak Brook	2013	Turbidity	Slightly Turbid	2	3
W2119	White Oak Brook	2014	Aesthetics Impaired?	No	1	2
W2119	White Oak Brook	2014	Aesthetics Impaired?	NR	1	2
W2119	White Oak Brook	2014	Aquatic Plant Density, Overall	Sparse	2	2
W2119	White Oak Brook	2014	Color	Greyish	1	2
W2119	White Oak Brook	2014	Color	None	1	2
W2119	White Oak Brook	2014	Objectionable Deposits	No	2	2
W2119	White Oak Brook	2014	Odor	None	2	2
W2119	White Oak Brook	2014	Periphyton Density, Filamentous	None	1	2
W2119	White Oak Brook	2014	Periphyton Density, Filamentous	NR	1	2
W2119	White Oak Brook	2014	Periphyton Density, Film	None	1	2
W2119	White Oak Brook	2014	Periphyton Density, Film	NR	1	2
W2119	White Oak Brook	2014	Scum	No	2	2
W2119	White Oak Brook	2014	Turbidity	None	1	2
W2119	White Oak Brook	2014	Turbidity	Slightly Turbid	1	2
W2119	White Oak Brook	2015	Aesthetics Impaired?	No	4	5
W2119	White Oak Brook	2015	Aesthetics Impaired?	NR	1	5
W2119	White Oak Brook	2015	Aquatic Plant Density, Overall	None	1	5
W2119	White Oak Brook	2015	Aquatic Plant Density, Overall	NR	2	5
W2119	White Oak Brook	2015	Aquatic Plant Density, Overall	Sparse	2	5
W2119	White Oak Brook	2015	Color	Brownish	1	5
W2119	White Oak Brook	2015	Color	Greyish	2	5
W2119	White Oak Brook	2015	Color	Light Yellow/Tan	2	5
W2119	White Oak Brook	2015	Objectionable Deposits	No	5	5
W2119	White Oak Brook	2015	Odor	None	5	5
W2119	White Oak Brook	2015	Periphyton Density, Filamentous	Moderate	2	5
W2119	White Oak Brook	2015	Periphyton Density, Filamentous	None	1	5
W2119	White Oak Brook	2015	Periphyton Density, Filamentous	Sparse	2	5
W2119	White Oak Brook	2015	Periphyton Density, Film	None	4	5
W2119	White Oak Brook	2015	Periphyton Density, Film	Sparse	1	5

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2119	White Oak Brook	2015	Scum	No	4	5
W2119	White Oak Brook	2015	Scum	Yes	1	5
W2119	White Oak Brook	2015	Turbidity	None	2	5
W2119	White Oak Brook	2015	Turbidity	Slightly Turbid	3	5
W2174	White Oak Brook	2011	Aquatic Plant Density, Overall	None	1	1
W2174	White Oak Brook	2011	Color	Brownish	1	1
W2174	White Oak Brook	2011	Objectionable Deposits	No	1	1
W2174	White Oak Brook	2011	Odor	NR	1	1
W2174	White Oak Brook	2011	Periphyton Density, Filamentous	Sparse	1	1
W2174	White Oak Brook	2011	Periphyton Density, Film	Sparse	1	1
W2174	White Oak Brook	2011	Scum	No	1	1
W2174	White Oak Brook	2011	Turbidity	Slightly Turbid	1	1
W2174	White Oak Brook	2013	Aesthetics Impaired?	No	1	1
W2174	White Oak Brook	2013	Aquatic Plant Density, Overall	Very Dense	1	1
W2174	White Oak Brook	2013	Color	Brownish	1	1
W2174	White Oak Brook	2013	Objectionable Deposits	No	1	1
W2174	White Oak Brook	2013	Odor	None	1	1
W2174	White Oak Brook	2013	Periphyton Density, Filamentous	None	1	1
W2174	White Oak Brook	2013	Periphyton Density, Film	None	1	1
W2174	White Oak Brook	2013	Scum	Yes	1	1
W2174	White Oak Brook	2013	Turbidity	Slightly Turbid	1	1
W2174	White Oak Brook	2014	Aesthetics Impaired?	Yes	1	1
W2174	White Oak Brook	2014	Aquatic Plant Density, Overall	Very Dense	1	1
W2174	White Oak Brook	2014	Color	Greyish	1	1
W2174	White Oak Brook	2014	Objectionable Deposits	Yes	1	1
W2174	White Oak Brook	2014	Odor	None	1	1
W2174	White Oak Brook	2014	Periphyton Density, Filamentous	Unobservable	1	1
W2174	White Oak Brook	2014	Periphyton Density, Film	Unobservable	1	1
W2174	White Oak Brook	2014	Scum	Yes	1	1
W2174	White Oak Brook	2014	Turbidity	Moderately Turbid	1	1
W2174	White Oak Brook	2015	Aesthetics Impaired?	No	1	2
W2174	White Oak Brook	2015	Aesthetics Impaired?	NR	1	2
W2174	White Oak Brook	2015	Aquatic Plant Density, Overall	Sparse	1	2
W2174	White Oak Brook	2015	Aquatic Plant Density, Overall	Very Dense	1	2
W2174	White Oak Brook	2015	Color	Greyish	1	2
W2174	White Oak Brook	2015	Color	Light Yellow/Tan	1	2

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2174	White Oak Brook	2015	Objectionable Deposits	No	2	2
W2174	White Oak Brook	2015	Odor	None	2	2
W2174	White Oak Brook	2015	Periphyton Density, Filamentous	None	2	2
W2174	White Oak Brook	2015	Periphyton Density, Film	None	1	2
W2174	White Oak Brook	2015	Periphyton Density, Film	Sparse	1	2
W2174	White Oak Brook	2015	Scum	No	2	2
W2174	White Oak Brook	2015	Turbidity	None	1	2
W2174	White Oak Brook	2015	Turbidity	Slightly Turbid	1	2

Primary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Primary Contact Recreation Use for White Oak Brook (MA62-79) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
No bacteria data are available to assess the Secondary Contact Recreation Use for White Oak Brook (MA62-79) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information.

Whiteville Pond (MA62211)

Location:	Mansfield.
AU Type:	FRESHWATER LAKE
AU Size:	14 ACRES
Classification/Qualifier:	B

No usable data were available for Whiteville Pond (MA62211) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Winnecunnet Pond (MA62213)

Location:	Norton.
AU Type:	FRESHWATER LAKE
AU Size:	150 ACRES
Classification/Qualifier:	B

No usable data were available for Winnecunnet Pond (MA62213) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	4c	(Fanwort*)	--	Unchanged

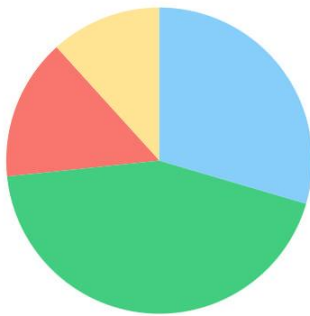
Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--

Winnetuxet River (MA62-24)

Location:	Headwaters, confluence of Muddy Pond Brook and Doten Brook, Carver to mouth at confluence with the Taunton River, Halifax.
AU Type:	RIVER
AU Size:	12.1 MILES
Classification/Qualifier:	B

Winnetuxet River (MA62-24)

Watershed Area: 40.57 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	40.57	11.48	14.21	3.44
Agriculture	11.7%	18.2%	15.1%	14.9%
Developed	14.9%	10%	10.4%	5.5%
Natural	43.8%	30.4%	40.5%	29.3%
Wetland	29.5%	41.4%	34%	50.2%
Impervious	5.7%	3.8%	3.5%	2%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	5	Escherichia Coli (E. Coli)	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Escherichia Coli (E. Coli)	Source Unknown (N)	--	--	--	X	--

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
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Not Assessed	No
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2024/26 Use Attainment Summary

Fish toxics sampling has not been conducted, so the Fish Consumption Use for Winnetuxet River (MA62-24) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics Use for Winnetuxet River (MA62-24) is assessed as Fully Supporting based on the lack of objectionable conditions documented by MassDEP staff at one station surveyed in the summer of 2019. MassDEP staff recorded aesthetics observations at one station in the downstream half of this Winnetuxet River AU at River Street in Halifax (W2834), during the summer of 2019 for selected monitoring (n=8). There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2834	MassDEP	Water Quality	Winnetuxet River	[River Street, Halifax]	41.969325	-70.883436

Aesthetic Observations

Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 5)

[Note: scums of natural origins (e.g. pollen blankets or natural foams) are excluded.]

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2834	2019	8	Aesthetic observations were made by MassDEP field sampling crews at Station W2834 on Winnetuxet River (MA62-24) during 8 site visits between May 2019 and Sep 2019. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.

Observations of Filamentous/Film Algae at MassDEP Stations (2011-2020) (MassDEP Undated 9) (MassDEP Undated 5)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2834	2019	8	4	0

MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 9)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2834	Winnetuxet River	2019	Aesthetics Impaired?	No	8	8
W2834	Winnetuxet River	2019	Aquatic Plant Density, Overall	None	1	8
W2834	Winnetuxet River	2019	Aquatic Plant Density, Overall	Sparse	3	8
W2834	Winnetuxet River	2019	Aquatic Plant Density, Overall	Unobservable	4	8
W2834	Winnetuxet River	2019	Color	Brownish	1	8
W2834	Winnetuxet River	2019	Color	Light Yellow/Tan	6	8
W2834	Winnetuxet River	2019	Color	Reddish	1	8
W2834	Winnetuxet River	2019	Objectionable Deposits	No	7	8
W2834	Winnetuxet River	2019	Objectionable Deposits	Unobservable	1	8
W2834	Winnetuxet River	2019	Odor	Musty (Basement)	1	8
W2834	Winnetuxet River	2019	Odor	None	6	8
W2834	Winnetuxet River	2019	Odor	Unobservable	1	8
W2834	Winnetuxet River	2019	Periphyton Density, Filamentous	Moderate	1	8
W2834	Winnetuxet River	2019	Periphyton Density, Filamentous	None	2	8
W2834	Winnetuxet River	2019	Periphyton Density, Filamentous	Sparse	1	8
W2834	Winnetuxet River	2019	Periphyton Density, Filamentous	Unobservable	4	8
W2834	Winnetuxet River	2019	Periphyton Density, Film	Moderate	1	8
W2834	Winnetuxet River	2019	Periphyton Density, Film	None	2	8
W2834	Winnetuxet River	2019	Periphyton Density, Film	Sparse	1	8
W2834	Winnetuxet River	2019	Periphyton Density, Film	Unobservable	4	8
W2834	Winnetuxet River	2019	Scum	No	7	8
W2834	Winnetuxet River	2019	Scum	Yes	1	8

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2834	Winnetuxet River	2019	Turbidity	Moderately Turbid	2	8
W2834	Winnetuxet River	2019	Turbidity	None	3	8
W2834	Winnetuxet River	2019	Turbidity	Slightly Turbid	2	8
W2834	Winnetuxet River	2019	Turbidity	Unobservable	1	8

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for the Winnetuxet River (MA62-24) is assessed as Not Supporting based on bacteria data collected in 2019 at 1 station, with an <i>Escherichia coli</i> (<i>E. coli</i>) impairment being added. MassDEP staff collected <i>E. coli</i> bacteria samples three quarters of the way down Winnetuxet River at W2834 [River St, Halifax] from Jun-Aug 2019 (n=6). Analysis of the single year limited frequency <i>E. coli</i> dataset from this station indicated 100% of intervals had GMs >126 CFU/100ml, 2 samples exceeded the 410 CFU/100ml STV, and the seasonal GM was 229 CFU/100ml. These data are indicative of an <i>E. coli</i> impairment.</p>

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2834	MassDEP	Water Quality	Winnetuxet River	[River Street, Halifax]	41.969325	-70.883436

Bacteria Data

Bacteria Data Collected by MassDEP (2011-2020) and External Data Providers (2011-2022) (90-day Interval Analysis)

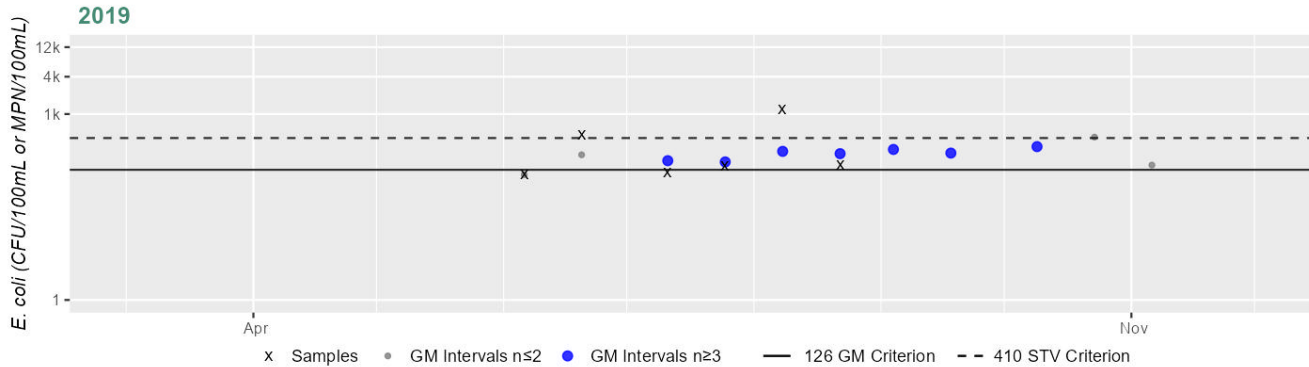
(MassDEP Undated 9) (MassDEP Undated 5)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2834	MassDEP	E. coli	06/06/19	08/22/19	6	105	1200	229

Station MASSDEP_W2834 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	229
#GMI	7
#GMI Ex	7
%GMI Ex	100%
n>STV	2
%n>STV	33%

Cumulative %GMI Exceedance
Current (2011-2022)
100%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances; %GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV; "Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Insufficient Information	NO

2024/26 Use Attainment Summary
Too limited bacteria data are available to assess the Secondary Contact Recreation Use for the Winnetuxet River (MA62-24) and available aesthetics observations for this AU did not result in any impairment, so it is assessed as having Insufficient Information. MassDEP staff collected <i>E. coli</i> bacteria samples in the Winnetuxet River at W2834 [River St, Halifax] from Jun-Aug 2019 (n=6). Analysis of the single year limited frequency dataset from this station indicated 42% of intervals had GMs >244 CFU/100ml, 1 sample exceeded the 794 CFU/100ml STV (1,200 CFU/100ml), and the overall GM was 229 CFU/100ml. <i>E. coli</i> data from W2834 are too limited according to the 2024 CALM to assess the Secondary Contact Recreation Use because this single year, limited frequency dataset included both a GM that is below the threshold and STV exceedance of the threshold.

Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2834	MassDEP	Water Quality	Winnetuxet River	[River Street, Halifax]	41.969325	-70.883436

Bacteria Data

Bacteria Data Collected by MassDEP (1997-2020) and External Data Providers (1997-2022) (90-day Interval Analysis)

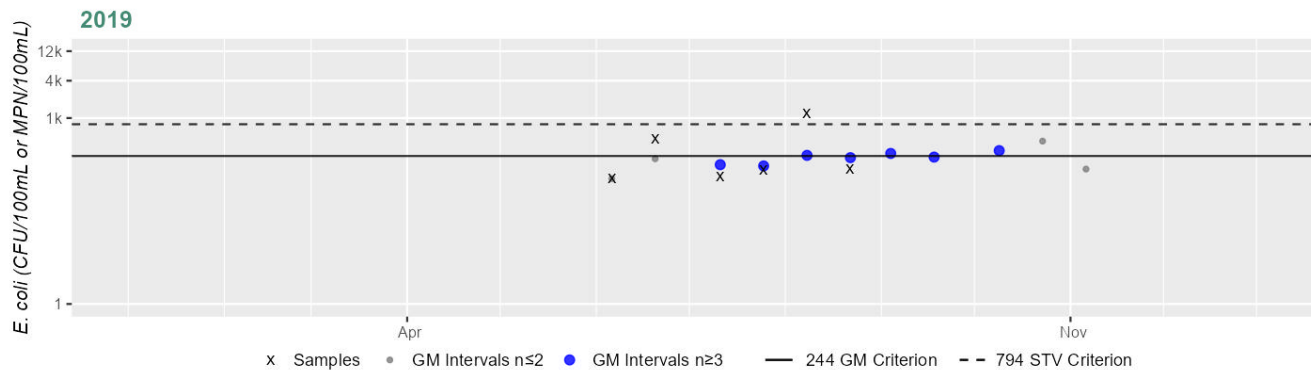
(MassDEP Undated 9) (MassDEP Undated 4)

[Result units are CFU/100mL or MPN/100mL]

Station Code	Organization	Indicator	Start Date	End Date	Sample Count	Minimum Sample Result	Maximum Sample Result	Seasonal Geometric Mean
W2834	MassDEP	E. coli	06/06/19	08/22/19	6	105	1200	229

Station MASSDEP_W2834 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Secondary Contact Recreation Season



Variable*	Result
Samples	6
SeasGM	229
#GMI	7
#GMI Ex	3
%GMI Ex	42%
n>STV	1
%n>STV	16%

Cumulative %GMI Exceedance

Current (2011-2022)
42%

*Samples = # of samples; SeasGM = Seasonal Geometric Mean (GM); #GMI = # of GM Intervals; #GMI Ex = # of GMI Exceedances;
%GMI Ex = % GMI Exceedances; n>STV = # of samples > Statistical Threshold Value (STV); %n > STV = % of samples > STV;
"Recent 5 Years" may not be consecutive as the analysis excludes years without GMI meeting the minimum sample size.

Wolomolopoag Pond (MA62216)

Location:	Sharon.
AU Type:	FRESHWATER LAKE
AU Size:	13 ACRES
Classification/Qualifier:	B

No usable data were available for Wolomolopoag Pond (MA62216) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
3	3	None	--	Unchanged

Woods Pond (MA62220)

Location:	Middleborough.
AU Type:	FRESHWATER LAKE
AU Size:	51 ACRES
Classification/Qualifier:	B

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Fanwort*)	--	Unchanged
5	5	Turbidity	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Fanwort*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Turbidity	Source Unknown (N)	--	--	X	X	X

Designated Use Attainment Decisions

Fish Consumption

2024/26 Use Attainment	Alert
Not Assessed	No

2024/26 Use Attainment Summary
Fish toxics sampling has not been conducted, so the Fish Consumption Use for Woods Pond (MA62220) is Not Assessed.

Aesthetic

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Aesthetics use for Woods Pond (MA62220) continues to be assessed as Not Supporting with the Turbidity impairment being carried forward. During the period 2015 through 2022, C-HAB postings for Woods Pond were reported to MDPH based on visual observations for 12 days in 2018 and no blooms were reported in other years. The prior Alert identified for Harmful Algal Blooms is being removed as no extended blooms (>20 days in duration) based on cell count data were reported in recent years. No new data are available to assess the status of the Aesthetic Use for this Woods Pond AU.

Algal Bloom Information

Cyanobacteria Harmful Algal Bloom (C-HAB) Summary Statements for 2015-2022 MDPH Data (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

C-HAB Summary Statement

During the period 2015 through 2022, C-HAB postings for Woods Pond (MA62220) were reported to MDPH based on visual observations for 12 days in 2018. No blooms were reported in other years. Since no extended blooms (>20 days in duration) based on cell count data were reported in recent years, an impairment decision will not be made at this time based on C-HAB postings.

Cyanobacteria Harmful Algal Bloom (C-HAB) Data (2015-2022) Provided by MDPH (Bailey, Logan April 26, 2023) (MassDEP Undated 2)

Waterbody	Town	Posting Days 2015	Posting Days 2016	Posting Days 2017	Posting Days 2018	Posting Days 2019	Posting Days 2020	Posting Days 2021	Posting Days 2022
Woods Pond	Middleborough				12				

Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Primary Contact Recreation Use for Woods Pond (MA62220) continues to be assessed as Not Supporting. The prior Turbidity impairment (from the Aesthetics Use) is being carried forward. During the period 2015 through 2022, C-HAB postings for Woods Pond were reported to MDPH based on visual observations for 12 days in 2018 and no blooms were reported in other years. The prior Alert identified for Harmful Algal Blooms is being removed as no extended blooms (>20 days in duration) based on cell count data were reported in recent years. No new data are available to assess the status of the Primary Contact Recreation Use for Woods Pond.

Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Woods Pond (MA62220) continues to be assessed as Not Supporting. The prior Turbidity impairment (from the Aesthetics Use) is being carried forward. During the period 2015 through 2022, C-HAB postings for Woods Pond were reported to MDPH based on visual observations for 12 days in 2018 and no blooms were reported in other years. The prior Alert identified for Harmful Algal Blooms is being removed as no extended blooms (>20 days in duration) based on cell count data were reported in recent years. No new data are available to assess the status of the Secondary Contact Recreation Use for Woods Pond.

Data Sources

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- MassDEP. "Open file analysis of MassDEP WPP water quality data collected between 1997 and 2020 using 2024 CALM guidance." Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA, Undated 4.
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