

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

**Appendix 32  
Parker River Basin and Coastal Drainage Area  
Assessment and Listing Decision Summary**

**Prepared by:  
Watershed Planning Program  
Division of Watershed Management, Bureau of Water Resources  
Massachusetts Department of Environmental Protection**

**Commonwealth of Massachusetts  
Executive Office of Energy and Environmental Affairs  
Rebecca L. Tepper, Secretary  
Massachusetts Department of Environmental Protection  
Bonnie Heiple, Commissioner  
Bureau of Water Resources  
Kathleen M. Baskin, Assistant Commissioner**

**December 2025**

**CN 625.0**



## **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.

## **Acknowledgements**

The 2024/2026 Integrated Report (IR) could not have been produced without the dedicated efforts of program staff and input from other Executive Office of Energy and Environmental Affairs (EEA) staff, EPA colleagues, and stakeholder groups. Many thanks to WPP staff who worked directly on the assessments and supporting tasks (e.g., GIS support, data reviews, data analyses, ATTAINS and reports), including Mason Saleeba, Jenny Peet, Jenny Sheppard, Kari Winfield, Stephanie Figary, Bob Smith, Tim Gardner, Anna Mayor, Shervon De Leon, Matt Reardon, Richard Chase, and Richard Carey. Many thanks to WPP field sampling crews, WPP interns, laboratory staff at the Wall Experiment Station, and external data providers who all played important roles in generating the water quality data used to inform decisions.

## **Disclaimer**

References to trade names, commercial products, manufacturers, or distributors in this report constituted neither endorsement nor recommendation by MassDEP.

## **Contact Information**

Watershed Planning Program  
Division of Watershed Management, Bureau of Water Resources  
Massachusetts Department of Environmental Protection  
8 New Bond Street, Worcester, MA 01606  
[Watershed Planning Program website](#)  
Email address: [dep.wpp@mass.gov](mailto:dep.wpp@mass.gov)

## **Notice of Availability**

[This report is available on the Massachusetts Department of Environmental Protection website.](#)

## 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 [].

## Table of Contents

2024 Cycle Impairment Changes.....	1
Baldpate Pond (MA91001).....	4
Designated Use Attainment Decisions.....	4
Bull Brook (MA91-04).....	6
Bull Brook Reservoir (MA91002).....	7
Central Street Pond (MA91003) .....	8
Crane Pond (MA91004) .....	9
Dow Brook Reservoir (MA91005).....	10
Eagle Hill River (MA91-06) .....	11
Designated Use Attainment Decisions.....	11
Egypt River (MA91-13) .....	14
Egypt River (MA91-14) .....	15
Designated Use Attainment Decisions.....	15
Jackman Brook (MA91-07).....	18
Designated Use Attainment Decisions.....	18
Little Crane Pond (MA91007) .....	23
Little River (MA91-11).....	24
Designated Use Attainment Decisions.....	24
Mill River (MA91-08).....	27
Designated Use Attainment Decisions.....	28
Mill River (MA91-09).....	32
Designated Use Attainment Decisions.....	32
Ox Pasture Brook (MA91-10) .....	35
Paine Creek (MA91-03) .....	36
Designated Use Attainment Decisions.....	36
Parker River (MA91-01).....	39
Recommendations .....	40
Designated Use Attainment Decisions.....	40
Parker River (MA91-02).....	44

Designated Use Attainment Decisions.....	44
Penn Brook (MA91-16) .....	47
Recommendations .....	48
Designated Use Attainment Decisions.....	48
Pentucket Pond (MA91010) .....	51
Designated Use Attainment Decisions.....	51
Plum Island River (MA91-15).....	53
Designated Use Attainment Decisions.....	53
Plum Island Sound (MA91-12).....	56
Designated Use Attainment Decisions.....	56
Quills Pond (MA91011) .....	60
Rock Pond (MA91012).....	61
Designated Use Attainment Decisions.....	61
Rowley River (MA91-05) .....	63
Designated Use Attainment Decisions.....	63
Sperrys Pond (MA91013).....	66
State Street Pond (MA91014).....	67
Wilson Pond (MA91017).....	68
Data Sources .....	69

## 2024/26 Cycle Impairment Changes

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Baldpate Pond	MA91001	5	5	(Curly-leaf Pondweed*)	--	Unchanged
Baldpate Pond	MA91001	5	5	(Fanwort*)	--	Unchanged
Baldpate Pond	MA91001	5	5	Dissolved Oxygen	--	Unchanged
Baldpate Pond	MA91001	5	5	Mercury in Fish Tissue	--	Unchanged
Bull Brook	MA91-04	2	2	None	--	Unchanged
Bull Brook Reservoir	MA91002	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Central Street Pond	MA91003	3	3	None	--	Unchanged
Crane Pond	MA91004	3	3	None	--	Unchanged
Dow Brook Reservoir	MA91005	3	3	None	--	Unchanged
Eagle Hill River	MA91-06	4a	4a	Fecal Coliform	R1_MA_2021_001	Unchanged
Egypt River	MA91-13	4c	4c	(Fish Passage Barrier*)	--	Unchanged
Egypt River	MA91-14	4a	4a	Fecal Coliform	R1_MA_2021_001	Unchanged
Jackman Brook	MA91-07	5	5	Benthic Macroinvertebrates	--	Unchanged
Little Crane Pond	MA91007	3	3	None	--	Unchanged
Little River	MA91-11	4a	4a	Fecal Coliform	R1_MA_2021_001	Unchanged
Mill River	MA91-08	5	5	(Fish Passage Barrier*)	--	Unchanged
Mill River	MA91-08	5	5	(Water Chestnut*)	--	Unchanged

Waterbody	AU_ID	AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
Mill River	MA91-08	5	5	Algae	--	Unchanged
Mill River	MA91-08	5	5	Benthic Macroinvertebrates	--	Unchanged
Mill River	MA91-08	5	5	Dissolved Oxygen	--	Unchanged
Mill River	MA91-08	5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged
Mill River	MA91-09	4a	4a	Fecal Coliform	R1_MA_2021_001	Unchanged
Ox Pasture Brook	MA91-10	2	2	None	--	Unchanged
Paine Creek	MA91-03	4a	4a	Fecal Coliform	R1_MA_2021_001	Unchanged
Parker River	MA91-01	4c	5	(Dewatering*)	--	Unchanged
Parker River	MA91-01	4c	5	(Fish Passage Barrier*)	--	Unchanged
Parker River	MA91-01	4c	5	Escherichia Coli (E. Coli)	--	Added
Parker River	MA91-02	4a	4a	Fecal Coliform	R1_MA_2021_001	Unchanged
Penn Brook	MA91-16	5	5	Benthic Macroinvertebrates	--	Unchanged
Penn Brook	MA91-16	5	5	Dissolved Oxygen	--	Unchanged
Pentucket Pond	MA91010	5	5	(Fanwort*)	--	Unchanged
Pentucket Pond	MA91010	5	5	Mercury in Fish Tissue	--	Unchanged
Plum Island River	MA91-15	4a	4a	Fecal Coliform	R1_MA_2021_001	Unchanged
Plum Island Sound	MA91-12	4a	4a	Fecal Coliform	R1_MA_2021_001	Unchanged
Quills Pond	MA91011	3	3	None	--	Unchanged
Rock Pond	MA91012	5	5	Mercury in Fish Tissue	--	Unchanged

<b>Waterbody</b>	<b>AU_ID</b>	<b>AU Category 2022</b>	<b>AU Category 2024/26</b>	<b>Impairment</b>	<b>ATTAINS Action ID</b>	<b>Impairment Change Summary</b>
Rowley River	MA91-05	4a	4a	Fecal Coliform	R1_MA_2021_00 1	Unchanged
Sperrys Pond	MA91013	3	3	None	--	Unchanged
State Street Pond	MA91014	4c	4c	(Fanwort*)	--	Unchanged
Wilson Pond	MA91017	3	3	None	--	Unchanged



## Baldpate Pond (MA91001)

<b>Location:</b>	Boxford.
<b>AU Type:</b>	FRESHWATER LAKE
<b>AU Size:</b>	60 ACRES
<b>Classification/Qualifier:</b>	B

<b>AU Category 2022</b>	<b>AU Category 2024/26</b>	<b>Impairment</b>	<b>ATTAINS Action ID</b>	<b>Impairment Change Summary</b>
5	5	(Curly-leaf Pondweed*)	--	Unchanged
5	5	(Fanwort*)	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	Mercury in Fish Tissue	--	Unchanged

<b>Impairment</b>	<b>Source (Confirmed Y/N)</b>	<b>ALU</b>	<b>FC</b>	<b>AES</b>	<b>PCR</b>	<b>SCR</b>
(Curly-leaf Pondweed*)	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	--	--	--	--
Mercury in Fish Tissue	Atmospheric Deposition (N)	--	X	--	--	--

## Designated Use Attainment Decisions

### Fish Consumption

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Supporting	No

<b>2024/26 Use Attainment Summary</b>
The Fish Consumption Use for Baldpate Pond (MA91001) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. MA DPH retained a site-specific advisory for Baldpate Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent DPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.

## Aesthetic

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Assessed	NO
<b>2024/26 Use Attainment Summary</b>	
No aesthetics data are available to assess the status of the Aesthetics Use for Baldpate Pond (MA91001), so it is Not Assessed.	

## Primary Contact Recreation

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Assessed	NO
<b>2024/26 Use Attainment Summary</b>	
No bacteria or other indicator data are available for Baldpate Pond (MA91001), so the Primary Contact Recreation Use is Not Assessed.	

## Secondary Contact Recreation

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Assessed	NO
<b>2024/26 Use Attainment Summary</b>	
No bacteria or other indicator data are available for Baldpate Pond (MA91001) in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.	

## Bull Brook (MA91-04)

<b>Location:</b>	Headwaters south of Linebrook Road, Ipswich to mouth at inlet Bull Brook Reservoir, Ipswich.
<b>AU Type:</b>	RIVER
<b>AU Size:</b>	1.4 MILES
<b>Classification/Qualifier:</b>	A: PWS, ORW (Tributary)

No usable data were available for Bull Brook (MA91-04) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

## Bull Brook Reservoir (MA91002)

<b>Location:</b>	Ipswich.
<b>AU Type:</b>	FRESHWATER LAKE
<b>AU Size:</b>	7 ACRES
<b>Classification/Qualifier:</b>	A: PWS, ORW

No usable data were available for Bull Brook Reservoir (MA91002) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

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

## Central Street Pond (MA91003)

<b>Location:</b>	Rowley.
<b>AU Type:</b>	FRESHWATER LAKE
<b>AU Size:</b>	3 ACRES
<b>Classification/Qualifier:</b>	B: ORW (also tributary to SA SFO ORW)

No usable data were available for Central Street Pond (MA91003) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

## Crane Pond (MA91004)

<b>Location:</b>	Groveland.
<b>AU Type:</b>	FRESHWATER LAKE
<b>AU Size:</b>	22 ACRES
<b>Classification/Qualifier:</b>	B: WWF, HQW (impoundment on river designated B/WWF/HQW)

No usable data were available for Crane Pond (MA91004) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

## Dow Brook Reservoir (MA91005)

<b>Location:</b>	Ipswich.
<b>AU Type:</b>	FRESHWATER LAKE
<b>AU Size:</b>	16 ACRES
<b>Classification/Qualifier:</b>	A: PWS, ORW

No usable data were available for Dow Brook Reservoir (MA91005) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

## Eagle Hill River (MA91-06)

<b>Location:</b>	Headwaters north of Town Hill, east of Town Farm Road, Ipswich to the mouth at Plum Island Sound, Ipswich.
<b>AU Type:</b>	ESTUARY
<b>AU Size:</b>	0.35 SQUARE MILES
<b>Classification/Qualifier:</b>	SA: ORW

<b>AU Category 2022</b>	<b>AU Category 2024/26</b>	<b>Impairment</b>	<b>ATTAINS Action ID</b>	<b>Impairment Change Summary</b>
4a	4a	Fecal Coliform	R1_MA_2021_001	Unchanged

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

## Designated Use Attainment Decisions

### Fish Consumption

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Assessed	No

<b>2024/26 Use Attainment Summary</b>
Fish toxics sampling has not been conducted in the estuarine Eagle Hill River (MA91-06), so the Fish Consumption Use is Not Assessed.

### Shellfish Harvesting

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Supporting	NO

<b>2024/26 Use Attainment Summary</b>
---------------------------------------



Eagle Hill River (MA91-06): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3443 sq mi (97%). 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 5)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
N4.0	Plum Island Sound	Conditionally Approved	0.02332	6.6%
N4.1	Eagle Hill River	Conditionally Approved	0.30660	86.8%
N4.5	Greens Point Creek	Prohibited	0.01138	3.2%
N4.8	North Ridge Mooring Area	Prohibited	0.00301	0.9%

### Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

#### 2024/26 Use Attainment Summary

No aesthetics observation data are available, so the Aesthetics Use for the estuarine Eagle Hill River (MA91-06) 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 estuarine Eagle Hill River (MA91-06) so it is assessed as having Insufficient Information. The shellfish growing areas (0.3443 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). There is Insufficient Information to assess the Primary Contact Recreation Use of the Eagle Hill River (MA91-06) using the shellfish classification data.

### Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 5)

Summary
Eagle Hill River (MA91-06): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3443 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 Recreation 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 estuarine Eagle Hill River (MA91-06) so it is assessed as having Insufficient Information. The shellfish growing areas (0.3443 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). There is Insufficient Information to assess the Secondary Contact Recreation Use of Eagle Hill River (MA91-06) using the shellfish classification data.

## Shellfish Growing Area Classifications

**Summary Statement for MassDFG Shellfish Growing Area Classification Data** (MassGIS 2024) (MassDEP Undated 5)

Summary
Eagle Hill River (MA91-06): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3443 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 Recreation Use cannot be assessed for 2024 using the shellfish classification data.

## Egypt River (MA91-13)

<b>Location:</b>	Outlet Bull Brook Reservoir, Ipswich to tidally influenced area approximately 600 feet downstream from High Street (Route 1A), Ipswich.
<b>AU Type:</b>	RIVER
<b>AU Size:</b>	0.3 MILES
<b>Classification/Qualifier:</b>	B: ORW

No usable data were available for Egypt River (MA91-13) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

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

## Egypt River (MA91-14)

<b>Location:</b>	From tidally influenced area approximately 600 feet downstream from High Street (Route 1A), Ipswich to mouth at confluence with Rowley River, Rowley/Ipswich.
<b>AU Type:</b>	ESTUARY
<b>AU Size:</b>	0.04 SQUARE MILES
<b>Classification/Qualifier:</b>	SA: ORW

<b>AU Category 2022</b>	<b>AU Category 2024/26</b>	<b>Impairment</b>	<b>ATTAINS Action ID</b>	<b>Impairment Change Summary</b>
4a	4a	Fecal Coliform	R1_MA_2021_001	Unchanged

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

## Designated Use Attainment Decisions

### Fish Consumption

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Assessed	No

<b>2024/26 Use Attainment Summary</b>
Fish toxics sampling has not been conducted in this estuarine Egypt River AU (MA91-14), so the Fish Consumption Use is Not Assessed.

### Shellfish Harvesting

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Supporting	NO

<b>2024/26 Use Attainment Summary</b>
---------------------------------------

Egypt River (MA91-14): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0257 sq mi (62%). The approved shellfish growing area represents 0 sq mi (0%). The prohibited shellfish growing area represents 0.0257 sq mi (62%). 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 5)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
N4.2	Upper Rowley River	Prohibited	0.02566	62.1%

### Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

#### 2024/26 Use Attainment Summary

No aesthetics observation data are available, so the Aesthetics Use for this estuarine Egypt River AU (MA91-14) 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 this estuarine Egypt River AU (MA91-14) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0257 sq mi) in this AU are less than 100% approved growing areas (0 sq mi, 0%). There is insufficient information to assess the Primary Contact Recreation Use of this Egypt River AU (MA91-14) using the shellfish classification data.

### Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 5)

#### Summary

Egypt River (MA91-14): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0257 sq mi (62%). 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 Recreation 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 this estuarine Egypt River AU (MA91-14) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0257 sq mi) in this AU are less than 100% approved growing areas (0 sq mi, 0%). There is insufficient information to assess the Secondary Contact Recreation Use of this Egypt River AU (MA91-14) using the shellfish classification data.

**Shellfish Growing Area Classifications**

**Summary Statement for MassDFG Shellfish Growing Area Classification Data** (MassGIS 2024) (MassDEP Undated 5)

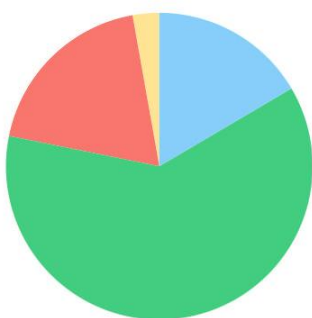
Summary
Egypt River (MA91-14): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0257 sq mi (62%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreation Use cannot be assessed for 2024 using the shellfish classification data.

## Jackman Brook (MA91-07)

<b>Location:</b>	Perennial portion northeast of intersection of Jewett and Tenney streets, Georgetown to mouth at confluence with Wheeler Brook, Georgetown.
<b>AU Type:</b>	RIVER
<b>AU Size:</b>	0.8 MILES
<b>Classification/Qualifier:</b>	B

### Jackman Brook (MA91-07)

Watershed Area: 2.34 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	2.34	2.34	1.05	1.05
Agriculture	2.8%	2.8%	2.4%	2.4%
Developed	19%	19%	15.1%	15.1%
Natural	61.6%	61.6%	56.1%	56.1%
Wetland	16.5%	16.5%	26.4%	26.4%
Impervious	10.9%	10.9%	9.3%	9.3%

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	--	--	--	--

## 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 in Jackman Brook (MA91-07), so the Fish Consumption Use is Not Assessed.

## Aesthetic

2024/26 Use Attainment	Alert
Fully Supporting	NO

#### 2024/26 Use Attainment Summary

The Aesthetics Use for Jackman Brook (MA91-07) is assessed as Fully Supporting based on the observations of MassDEP field crews at W2517 during summer 2015. MassDEP staff recorded aesthetics observations at one station in Jackman Brook during summer 2015 (n=5), in the upstream half of the AU ~1200 feet upstream/south of Jackman Street, Georgetown (W2517/MAP2-673). There were generally no noted objectionable conditions (odors, deposits, growths, or turbidity) recorded.

## Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2517	MassDEP	Water Quality	Jackman Brook	[approximately 1200 feet upstream/south of Jackman Street, Georgetown]	42.735035	-70.942730

## Aesthetic Observations

### Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 4)

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

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2517	2015	5	Aesthetic observations were made by MassDEP field sampling crews at Station W2517 on Jackman Brook (MA91-07) during 5 site visits between May 2015 and Sep 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 7) (MassDEP Undated 4)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2517	2015	5	4	0

### MassDEP Aesthetics Observations (2011-2020) (MassDEP Undated 7)



Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2517	Jackman Brook	2015	Aesthetics Impaired?	No	5	5
W2517	Jackman Brook	2015	Aquatic Plant Density, Overall	None	5	5
W2517	Jackman Brook	2015	Color	Light Yellow/Tan	2	5
W2517	Jackman Brook	2015	Color	None	2	5
W2517	Jackman Brook	2015	Color	NR	1	5
W2517	Jackman Brook	2015	Objectionable Deposits	No	5	5
W2517	Jackman Brook	2015	Odor	None	5	5
W2517	Jackman Brook	2015	Periphyton Density, Filamentous	None	4	5
W2517	Jackman Brook	2015	Periphyton Density, Filamentous	NR	1	5
W2517	Jackman Brook	2015	Periphyton Density, Film	None	4	5
W2517	Jackman Brook	2015	Periphyton Density, Film	NR	1	5
W2517	Jackman Brook	2015	Scum	No	4	5
W2517	Jackman Brook	2015	Scum	NR	1	5
W2517	Jackman Brook	2015	Turbidity	Moderately Turbid	1	5
W2517	Jackman Brook	2015	Turbidity	None	4	5

## Primary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

2024/26 Use Attainment Summary
<p>The Primary Contact Recreation Use for Jackman Brook (MA91-07) continues to be assessed as Fully Supporting based on <i>E. coli</i> data collected at W2517 during summer 2015. MassDEP staff collected <i>E. coli</i> bacteria samples in the upstream half of Jackman Brook (MA91-07) at W2517 [~1200 ft upstream/S of Jackman St in Georgetown] from May-Sep 2015 (n=5). Analysis of this limited frequency <i>E. coli</i> dataset indicated no intervals had GMs &gt;126 CFU/100mL and no samples exceeded the 410 CFU/100mL STV (the seasonal GM was 75 CFU/100mL). These data were indicative of good water quality conditions.</p>

## Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2517	MassDEP	Water Quality	Jackman Brook	[approximately 1200 feet upstream/south of Jackman Street, Georgetown]	42.735035	-70.942730

## Bacteria Data

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

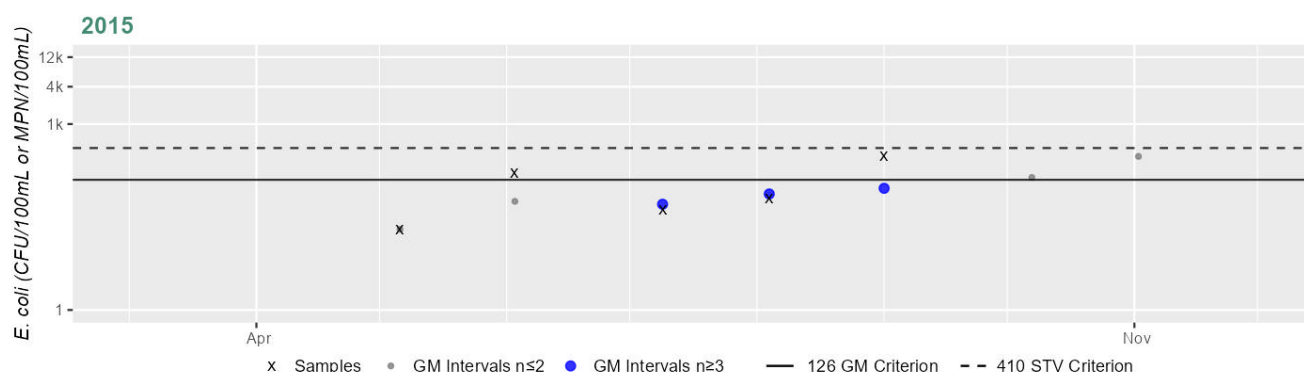
(MassDEP Undated 7) (MassDEP Undated 4)

[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
W2517	MassDEP	E. coli	05/06/15	09/01/15	5	20	300	75

#### Station MASSDEP\_W2517 - 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.

## Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO

### 2024/26 Use Attainment Summary

The Secondary Contact Recreation Use for Jackman Brook (MA91-07) continues to be assessed as Fully Supporting based on *E. coli* data collected at W2517 during summer 2015. MassDEP staff collected *E. coli* bacteria samples in the upstream half of Jackman Brook (MA91-07) at W2517 [~1200 ft upstream/S of Jackman St, Georgetown] from May-Sep 2015 (n=5). Analysis of this limited frequency *E. coli* dataset indicated no intervals had GMs >244 CFU/100mL and no samples exceeded the 794 CFU/100mL STV (the overall GM was 75 CFU/100mL). These data were indicative of good water quality conditions.

## Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2517	MassDEP	Water Quality	Jackman Brook	[approximately 1200 feet upstream/south of Jackman Street, Georgetown]	42.735035	-70.942730

## Bacteria Data

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

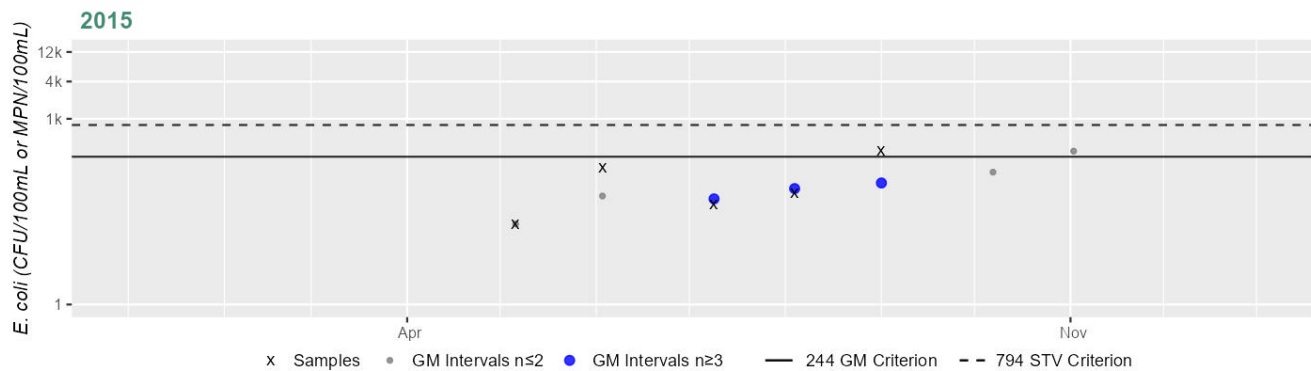
(MassDEP Undated 7) (MassDEP Undated 3)

[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
W2517	MassDEP	E. coli	05/06/15	09/01/15	5	20	300	75

### Station MASSDEP\_W2517 - 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.

## Little Crane Pond (MA91007)

<b>Location:</b>	West Newbury.
<b>AU Type:</b>	FRESHWATER LAKE
<b>AU Size:</b>	4 ACRES
<b>Classification/Qualifier:</b>	B

No usable data were available for Little Crane Pond (MA91007) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

## Little River (MA91-11)

<b>Location:</b>	from tidally influenced area approximately 100 feet downstream from Hanover Street, Newbury to mouth at confluence with Parker River, Newbury.
<b>AU Type:</b>	ESTUARY
<b>AU Size:</b>	0.08 SQUARE MILES
<b>Classification/Qualifier:</b>	SA: ORW, SFO (Tributary to SA SFO ORW)

<b>AU Category 2022</b>	<b>AU Category 2024/26</b>	<b>Impairment</b>	<b>ATTAINS Action ID</b>	<b>Impairment Change Summary</b>
4a	4a	Fecal Coliform	R1_MA_2021_001	Unchanged

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

## Designated Use Attainment Decisions

### Fish Consumption

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Assessed	No

<b>2024/26 Use Attainment Summary</b>
Fish toxics sampling has not been conducted in the estuarine Little River (MA91-11), so the Fish Consumption Use is Not Assessed.

### Shellfish Harvesting

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Supporting	NO

<b>2024/26 Use Attainment Summary</b>
---------------------------------------

Little River (MA91-11): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0375 sq mi (46%). The approved shellfish growing area represents 0 sq mi (0%). The prohibited shellfish growing area represents 0.0375 sq mi (46%). 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 5)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
N4.3		Prohibited	0.03755	45.9%

### Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

#### 2024/26 Use Attainment Summary

No aesthetics observation data are available, so the Aesthetics Use for the estuarine Little River (MA91-11) 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 estuarine Little River (MA91-11) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0375 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). There is Insufficient Information to assess the Primary Contact Recreation Use of the Little River (MA91-11) using the shellfish classification data.

### Shellfish Growing Area Classifications

**Summary Statement for MassDFG Shellfish Growing Area Classification Data** (MassGIS 2024) (MassDEP Undated 5)

#### Summary

Little River (MA91-11): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0375 sq mi (46%). 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 Recreation 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 estuarine Little River (MA91-11) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0375 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). There is Insufficient Information to assess the Secondary Contact Recreation Use of the Little River (MA91-11) using the shellfish classification data.

## Shellfish Growing Area Classifications

**Summary Statement for MassDFG Shellfish Growing Area Classification Data** (MassGIS 2024) (MassDEP Undated 5)

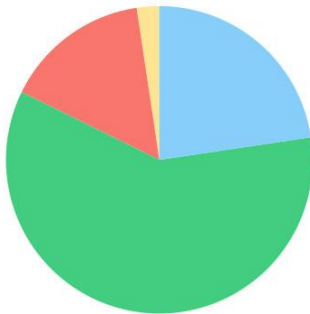
Summary
Little River (MA91-11): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0375 sq mi (46%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreation Use cannot be assessed for 2024 using the shellfish classification data.

## Mill River (MA91-08)

<b>Location:</b>	Headwaters - Outlet of small unnamed pond between Route 95 and Rowley Road, Boxford to tidally influenced area approximately 1200 feet upstream from Route 1, Rowley/Newbury (through former 2008 segment: Upper Mill Pond MA91015 and through former 2010 segment: Lower Mill Pond MA91008).
<b>AU Type:</b>	RIVER
<b>AU Size:</b>	6.7 MILES
<b>Classification/Qualifier:</b>	B: ORW, WWF

### Mill River (MA91-08)

Watershed Area: 12.88 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	12.88	6.53	5.22	2.62
Agriculture	2.4%	3.4%	2.6%	3.6%
Developed	15.4%	15.4%	10.6%	10.6%
Natural	59.6%	60%	50.6%	50.3%
Wetland	22.7%	21.3%	36.2%	35.5%
Impervious	7.3%	7.2%	5%	4.4%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Fish Passage Barrier*)	--	Unchanged
5	5	(Water Chestnut*)	--	Unchanged
5	5	Algae	--	Unchanged
5	5	Benthic Macroinvertebrates	--	Unchanged
5	5	Dissolved Oxygen	--	Unchanged
5	5	Nutrient/Eutrophication Biological Indicators	--	Unchanged



<b>Impairment</b>	<b>Source (Confirmed Y/N)</b>	<b>ALU</b>	<b>FC</b>	<b>AES</b>	<b>PCR</b>	<b>SCR</b>
(Fish Passage Barrier*)	Dam or Impoundment (Y)	X	--	--	--	--
(Water Chestnut*)	Introduction of Non-native Organisms (Accidental or Intentional) (Y)	X	--	--	--	--
Algae	Source Unknown (N)	--	--	X	X	X
Benthic Macroinvertebrates	Source Unknown (N)	X	--	--	--	--
Dissolved Oxygen	Source Unknown (N)	X	--	--	--	--
Nutrient/Eutrophication Biological Indicators	Source Unknown (N)	--	--	X	X	X

## Designated Use Attainment Decisions

### Fish Consumption

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Assessed	No
<b>2024/26 Use Attainment Summary</b>	
Fish toxics sampling has not been conducted in this Mill River AU (MA91-08), so the Fish Consumption Use is Not Assessed.	

### Aesthetic

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Supporting	NO
<b>2024/26 Use Attainment Summary</b>	

The Aesthetics Use for this freshwater Mill River AU (MA91-08) is assessed as Not Supporting with the prior Algae and Nutrient/Eutrophication Biological Indicators impairments being carried forward.

MassDEP staff recorded aesthetics observations at one station close to the downstream end of this Mill River AU, approximately 4300 feet upstream/south of Glen Street, Rowley (W2543) during the summers of 2015 (n=4) and 2016 (n=4). Generally, no noted objectionable conditions (odors, deposits, growths, or turbidity) were recorded in either year. Mill River (MA91-08) includes two run-of-river impoundments, Upper Mill Pond (formerly MA91015) and Lower Mill Pond (formerly MA91008). As noted in the 2022 IR (MassDEP 2023), the Aquatic Plants (Macrophytes) impairment for these ponds (originally Noxious Aquatic Plants in 1996, later remapped to Aquatic Plants (Macrophytes) during the 2010 IR cycle) was converted to Nutrient/Eutrophication Biological Indicators. The Aquatic Plants (Macrophytes) impairment was based on synoptic surveys conducted by MassDEP staff in June 1994, when it was noted that the ponds were mostly/entirely covered with aquatic macrophytes, including the non-rooted, floating species, *Lemna/Wolffia* spp. and *Spirodela* sp. The 2022 IR (MassDEP 2023) also noted that Google Earth images from summer 2013, 2014, 2015 and 2022 showed high amounts of plant coverage in the ponds and these impoundments account for roughly 12% of this Mill River AU (MA91-08); thus the Aquatic Plants (Macrophytes) impairment was converted to Nutrient/Eutrophication Biological Indicators. Since the observations of good aesthetics conditions recorded in 2015 and 2016 were not in located in the Upper Mill and Lower Mill Pond areas of the AU, the existing impairments cannot be removed at this time.

## Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2543	MassDEP	Water Quality	Mill River	[approximately 4300 feet upstream/south of Glen Street, Rowley]	42.733424	-70.904624

## Aesthetic Observations

### Aesthetics Summary Statements for MassDEP Stations (2011-2020) (MassDEP Undated 4)

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

Station Code	Data Year	Field Sheet Count	Aesthetics Summary Statement
W2543	2015	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2543 on Mill River (MA91-08) during 4 site visits between May 2015 and Aug 2015. There were generally no persistent objectionable conditions (odors, deposits, growths, or turbidity) recorded.
W2543	2016	4	Aesthetic observations were made by MassDEP field sampling crews at Station W2543 on Mill River (MA91-08) during 4 site visits between May 2016 and Aug 2016. 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 7) (MassDEP Undated 4)

Station Code	Data Year	Field Sheet Count	Field Sheet Count w/ Film & Filamentous Algae Observations	Dense/ Very Dense Film/ Filamentous Algae
W2543	2015	4	3	0
W2543	2016	4	3	0

**MassDEP Aesthetics Observations (2011-2020)** (MassDEP Undated 7)

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2543	Mill River	2015	Aesthetics Impaired?	No	4	4
W2543	Mill River	2015	Aquatic Plant Density, Overall	Sparse	3	4
W2543	Mill River	2015	Aquatic Plant Density, Overall	Unobservable	1	4
W2543	Mill River	2015	Color	Light Yellow/Tan	4	4
W2543	Mill River	2015	Objectionable Deposits	No	4	4
W2543	Mill River	2015	Odor	None	4	4
W2543	Mill River	2015	Periphyton Density, Filamentous	None	3	4
W2543	Mill River	2015	Periphyton Density, Filamentous	Unobservable	1	4
W2543	Mill River	2015	Periphyton Density, Film	None	3	4
W2543	Mill River	2015	Periphyton Density, Film	Unobservable	1	4
W2543	Mill River	2015	Scum	No	3	4
W2543	Mill River	2015	Scum	Yes	1	4
W2543	Mill River	2015	Turbidity	Moderately Turbid	1	4
W2543	Mill River	2015	Turbidity	None	2	4
W2543	Mill River	2015	Turbidity	Slightly Turbid	1	4
W2543	Mill River	2016	Aesthetics Impaired?	No	4	4
W2543	Mill River	2016	Aquatic Plant Density, Overall	Sparse	4	4
W2543	Mill River	2016	Color	Brownish	1	4
W2543	Mill River	2016	Color	Light Yellow/Tan	3	4
W2543	Mill River	2016	Objectionable Deposits	No	4	4
W2543	Mill River	2016	Odor	Musty (Basement)	1	4
W2543	Mill River	2016	Odor	None	3	4
W2543	Mill River	2016	Periphyton Density, Filamentous	None	3	4
W2543	Mill River	2016	Periphyton Density, Filamentous	Unobservable	1	4
W2543	Mill River	2016	Periphyton Density, Film	None	2	4
W2543	Mill River	2016	Periphyton Density, Film	Sparse	1	4
W2543	Mill River	2016	Periphyton Density, Film	Unobservable	1	4
W2543	Mill River	2016	Scum	No	3	4

Station Code	Waterbody	Data Year	Parameter	Result	Result Count	Total Field Sheet Count
W2543	Mill River	2016	Scum	Yes	1	4
W2543	Mill River	2016	Turbidity	Moderately Turbid	1	4
W2543	Mill River	2016	Turbidity	None	1	4
W2543	Mill River	2016	Turbidity	Slightly Turbid	2	4

## Primary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Primary Contact Recreation Use for this freshwater Mill River AU (MA91-08) continues to be assessed as Not Supporting. The prior Algae and Nutrient/Eutrophication Biological Indicators impairments (from the Aesthetics Use) are being carried forward.

## Secondary Contact Recreation

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
The Secondary Contact Recreation Use for this freshwater Mill River AU (MA91-08) continues to be assessed as Not Supporting. The prior Algae and Nutrient/Eutrophication Biological Indicators impairments (from the Aesthetics Use) are being carried forward.

## Mill River (MA91-09)

<b>Location:</b>	From tidally influenced area approximately 1200 feet upstream from Route 1, Rowley/Newbury to mouth at confluence with Parker River, Newbury.
<b>AU Type:</b>	ESTUARY
<b>AU Size:</b>	0.09 SQUARE MILES
<b>Classification/Qualifier:</b>	SA: ORW, SFO (also tributary to SA SFO ORW)

<b>AU Category 2022</b>	<b>AU Category 2024/26</b>	<b>Impairment</b>	<b>ATTAINS Action ID</b>	<b>Impairment Change Summary</b>
4a	4a	Fecal Coliform	R1_MA_2021_001	Unchanged

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

## Designated Use Attainment Decisions

### Fish Consumption

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Assessed	No

<b>2024/26 Use Attainment Summary</b>
Fish toxics sampling has not been conducted in this estuarine Mill River AU (MA91-09), so the Fish Consumption Use is Not Assessed.

### Shellfish Harvesting

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Supporting	NO

<b>2024/26 Use Attainment Summary</b>
---------------------------------------

Mill River (MA91-09): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0591 sq mi (67%). The approved shellfish growing area represents 0 sq mi (0%). The prohibited shellfish growing area represents 0.0591 sq mi (67%). 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 5)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
N4.4		Prohibited	0.05911	67.4%

### Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

#### 2024/26 Use Attainment Summary

There are no aesthetics observation data available to evaluate the Aesthetics Use for this estuarine Mill River AU (MA91-09), so it 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 this estuarine Mill River AU (MA91-09), so it is assessed as having Insufficient Information.

The shellfish growing areas (0.0591 sq mi) in this AU are less than 100% approved growing areas (0 sq mi, 0%), so there is insufficient information to assess the Primary Contact Recreation Use of this Mill River AU (MA91-09) using the shellfish classification data.

### Shellfish Growing Area Classifications

**Summary Statement for MassDFG Shellfish Growing Area Classification Data** (MassGIS 2024) (MassDEP Undated 5)

#### Summary

Mill River (MA91-09): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0591 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 Recreation 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 this estuarine Mill River AU (MA91-09), so it is assessed as having Insufficient Information. The shellfish growing areas (0.0591 sq mi) in this AU are less than 100% approved growing areas (0 sq mi, 0%), so there is insufficient information to assess the Secondary Contact Recreation Use of this Mill River AU (MA91-09) using the shellfish classification data.

**Shellfish Growing Area Classifications**

**Summary Statement for MassDFG Shellfish Growing Area Classification Data** (MassGIS 2024) (MassDEP Undated 5)

Summary
Mill River (MA91-09): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0591 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.

## Ox Pasture Brook (MA91-10)

<b>Location:</b>	Headwaters - Outlet of small unnamed impoundment east of Bradford Street, Rowley to west of Ox Pasture Hill in the Mill Creek Wildlife Management Area boundary, Rowley.
<b>AU Type:</b>	RIVER
<b>AU Size:</b>	2.4 MILES
<b>Classification/Qualifier:</b>	B: ORW (also tributary to SA SFO ORW)

No usable data were available for Ox Pasture Brook (MA91-10) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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



## Paine Creek (MA91-03)

<b>Location:</b>	Headwaters east of Town Farm Road, Ipswich to confluence with Eagle Hill River, Ipswich.
<b>AU Type:</b>	ESTUARY
<b>AU Size:</b>	0.06 SQUARE MILES
<b>Classification/Qualifier:</b>	SA: ORW

<b>AU Category 2022</b>	<b>AU Category 2024/26</b>	<b>Impairment</b>	<b>ATTAINS Action ID</b>	<b>Impairment Change Summary</b>
4a	4a	Fecal Coliform	R1_MA_2021_001	Unchanged

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

## Designated Use Attainment Decisions

### Fish Consumption

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Assessed	No

<b>2024/26 Use Attainment Summary</b>
Fish toxics sampling has not been conducted in the estuarine Paine Creek (MA91-03), so the Fish Consumption Use is Not Assessed.

### Shellfish Harvesting

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Supporting	NO

<b>2024/26 Use Attainment Summary</b>
---------------------------------------

Paine Creek (MA91-03): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0559 sq mi (90%). 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 5)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
N4.1	Eagle Hill River	Conditionally Approved	0.05591	90.1%

### Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No recent aesthetics observation data are available, so the Aesthetics Use of the estuarine Paine Creek (MA91-03) 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 estuarine Paine Creek (MA91-03) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0559 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). There is Insufficient Information to assess the Primary Contact Recreation Use of Paine Creek (MA91-03) using the shellfish classification data.

### Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 5)

Summary
Paine Creek (MA91-03): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0559 sq mi (90%). 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 Recreation 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 estuarine Paine Creek (MA91-03) so it is assessed as having Insufficient Information. The shellfish growing areas (0.0559 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). There is Insufficient Information to assess the Secondary Contact Recreation Use of Paine Creek (MA91-03) using the shellfish classification data.	

**Shellfish Growing Area Classifications**

**Summary Statement for MassDFG Shellfish Growing Area Classification Data** (MassGIS 2024) (MassDEP Undated 5)

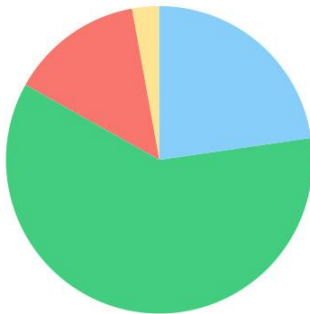
Summary
Paine Creek (MA91-03): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.0559 sq mi (90%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreation Use cannot be assessed for 2024 using the shellfish classification data.

## Parker River (MA91-01)

<b>Location:</b>	Source north of Silver Mine Road, Boxford to Parker River Dam#1 (NATID# MA00241) just upstream of Central Street, Newbury (excluding Sperry Pond segment MA91013, Rock Pond segment MA91012, Pentucket Pond segment MA91010, and Crane Pond segment MA91004).
<b>AU Type:</b>	RIVER
<b>AU Size:</b>	12.3 MILES
<b>Classification/Qualifier:</b>	B: WWF, HQW

### Parker River (MA91-01)

Watershed Area: 24.61 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	24.61	9.16	9.16	3.73
Agriculture	2.9%	2.5%	1.5%	1.1%
Developed	14%	12.7%	10.8%	9.9%
Natural	60.4%	56.2%	51.9%	45.8%
Wetland	22.7%	28.6%	35.7%	43.2%
Impervious	6.6%	6.5%	5.3%	5.3%

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4c	5	(Dewatering*)	--	Unchanged
4c	5	(Fish Passage Barrier*)	--	Unchanged
4c	5	Escherichia Coli (E. Coli)	--	Added

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
(Dewatering*)	Baseflow Depletion from Groundwater Withdrawals (N)	X	--	--	--	--

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	--

## Recommendations

2024/26 Recommendations
2024/2026 IR [ <i>E. coli</i> , low priority] Based on data (collected in 2022) from the 2024/2026 IR cycle, follow-up monitoring is recommended in the vicinity of IRWA_PB04 in the middle of this Parker River AU (MA91-01). Collection of additional bacteria samples, and moderate to high frequency data if possible, is requested to better understand whether the elevated <i>E. coli</i> concentration documented in 2022 (1046 CFU/100mL) is a frequent or infrequent event affecting the Secondary Contact Recreation Use. This is a low priority since a bacteria impairment has already been identified for the Primary Contact Recreation Use. {IRWA_PB04}

## 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 in this Parker River AU (MA91-01), so the Fish Consumption Use is Not Assessed.	

### Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO
2024/26 Use Attainment Summary	
No aesthetics data are available for this Parker River AU (MA91-01), so the Aesthetics Use 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 this Parker River AU (MA91-01) is assessed as Not Supporting. An Escherichia Coli (E. Coli) impairment is being added due to bacteria data not meeting the threshold at IRWA\_PB04 in 2022.

IRWA staff/volunteers collected *E. coli* bacteria samples in the middle of this Parker River AU (MA91-01) just downstream of Pentucket Pond at IRWA\_PB04 [Mill St. in Georgetown] from Jun-Oct 2022 (n=6). Analysis of this limited frequency *E. coli* dataset indicated 100% of intervals had GMs >126 CFU/100mL and 2 samples exceeded the 410 CFU/100mL STV (the seasonal GM was 289 CFU/100mL). *E. coli* data from IRWA\_PB04 are indicative of an Escherichia Coli (E. Coli) impairment.

## Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
IRWA_PB04	Ipswich River Watershed Association	Water Quality	Penn Brook	Mill St., Georgetown	42.732210	-70.986650

## Bacteria Data

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

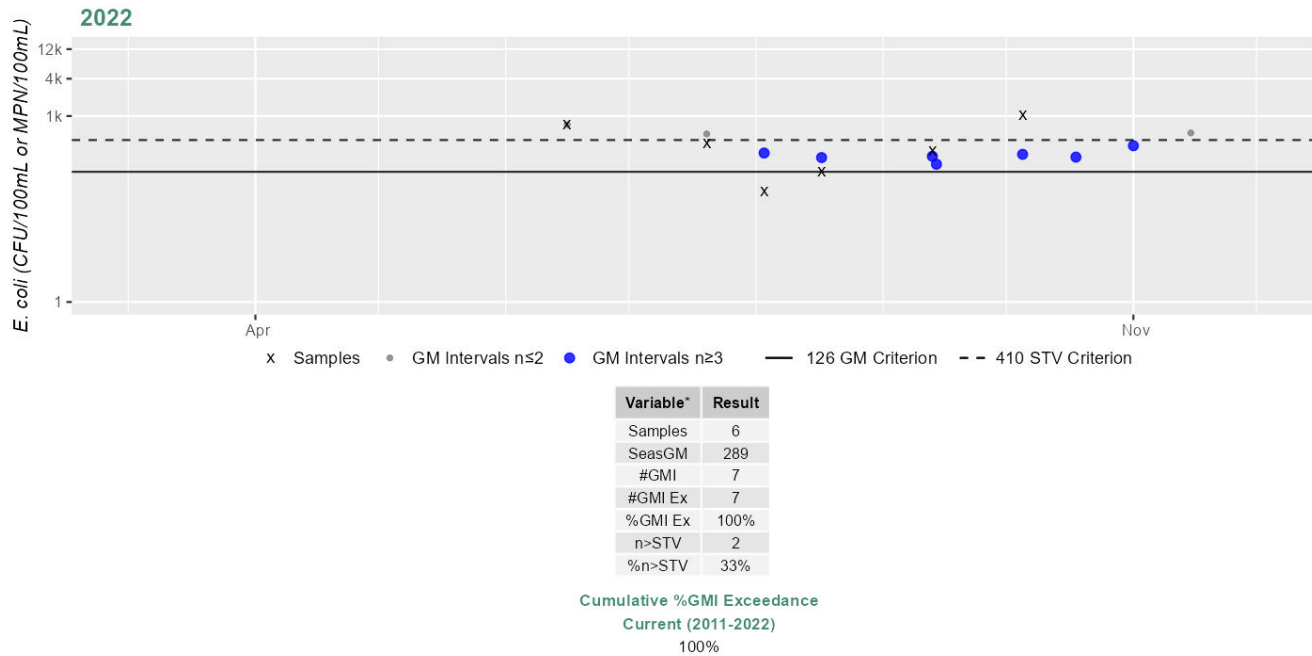
(IRWA 2022) (MassDEP Undated 2)

[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
IRWA_PB04	Ipswich River Watershed Association	E. coli	06/16/22	10/05/22	6	61	1046	289

### Station IRWA\_PB04 - Escherichia coli

Daily Maximum Samples & 90 Day Geometric Means within the Primary 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.

## Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	YES

2024/26 Use Attainment Summary
<p>The Secondary Contact Recreation Use for this Parker River AU (MA91-01) is assessed as Fully Supporting. However, an Alert is being identified for Escherichia Coli (E. Coli) based on bacteria data collected at IRWA_PB04 in 2022.</p> <p>IRWA staff/volunteers collected <i>E. coli</i> bacteria samples in the middle of this Parker River AU (MA91-01) just downstream of Pentucket Pond at IRWA_PB04 [Mill St., Georgetown] from Jun-Oct 2022 (n=6). Analysis of this limited frequency <i>E. coli</i> dataset indicated 28% of intervals had GMs &gt;244 CFU/100mL, 1 sample exceeded the 794 CFU/100mL STV, and the overall GM was 289 CFU/100mL. An alert is being identified for Escherichia Coli (E. Coli) at IRWA_PB04.</p>

## Monitoring Stations

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
IRWA_PB04	Ipswich River Watershed Association	Water Quality	Penn Brook	Mill St., Georgetown	42.732210	-70.986650

## Bacteria Data

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

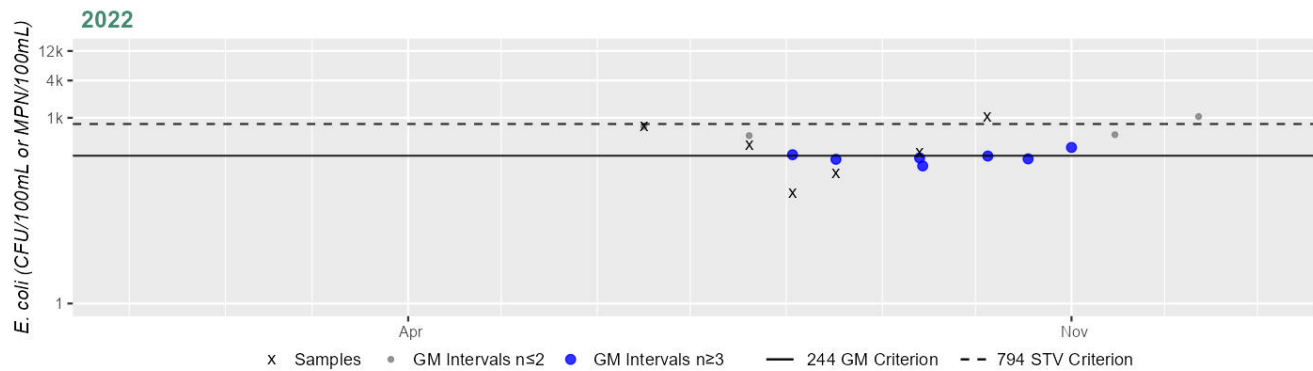
(IRWA 2022) (MassDEP Undated 1)

[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
IRWA_PB04	Ipswich River Watershed Association	E. coli	06/16/22	10/05/22	6	61	1046	289

#### Station IRWA\_PB04 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	289
#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.



## Parker River (MA91-02)

<b>Location:</b>	From Parker River Dam#1 (NATID# MA00241) just upstream of Central Street, Newbury to mouth at Plum Island Sound, Newbury.
<b>AU Type:</b>	ESTUARY
<b>AU Size:</b>	0.6 SQUARE MILES
<b>Classification/Qualifier:</b>	SA: ORW, SFO

<b>AU Category 2022</b>	<b>AU Category 2024/26</b>	<b>Impairment</b>	<b>ATTAINS Action ID</b>	<b>Impairment Change Summary</b>
4a	4a	Fecal Coliform	R1_MA_2021_001	Unchanged

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

## Designated Use Attainment Decisions

### Fish Consumption

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Assessed	No

<b>2024/26 Use Attainment Summary</b>
Fish toxics sampling has not been conducted in this estuarine Parker River AU (MA91-02), so the Fish Consumption Use is Not Assessed.

### Shellfish Harvesting

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Supporting	NO

<b>2024/26 Use Attainment Summary</b>
---------------------------------------

Parker River (MA91-02): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.5222 sq mi (88%). 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 5)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
N4.0	Plum Island Sound	Conditionally Approved	0.00075	0.1%
N4.3		Prohibited	0.14125	23.7%
N4.4		Prohibited	0.14851	24.9%
N4.6	Parker River and Mud Creek	Conditionally Approved	0.23168	38.8%

### Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

#### 2024/26 Use Attainment Summary

No aesthetics observation data are available, so the Aesthetics Use for this estuarine Parker River AU (MA91-02) 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 this estuarine Parker River AU (MA91-02) so it is assessed as having Insufficient Information. The shellfish growing areas (0.5222 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). There is Insufficient Information to assess the Primary Contact Recreation Use of this Parker River AU (MA91-02) using the shellfish classification data.

### Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 5)

Summary
Parker River (MA91-02): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.5222 sq mi (88%). 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 Recreation 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 this estuarine Parker River AU (MA91-02) so it is assessed as having Insufficient Information. The shellfish growing areas (0.5222 sq mi) in this AU are less than 100% approved growing areas (0 sq mi, 0%). There is Insufficient Information to assess the Secondary Contact Recreation Use of this Parker River AU (MA91-02) using the shellfish classification data.	

**Shellfish Growing Area Classifications**

**Summary Statement for MassDFG Shellfish Growing Area Classification Data** (MassGIS 2024) (MassDEP Undated 5)

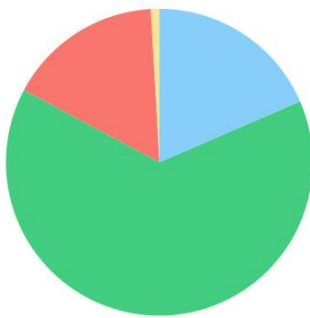
Summary
Parker River (MA91-02): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.5222 sq mi (88%). The approved shellfish growing area represents 0 sq mi (0%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreation Use cannot be assessed for 2024 using the shellfish classification data.

## Penn Brook (MA91-16)

<b>Location:</b>	Headwaters, outlet Baldpate Pond, Boxford to mouth at confluence with Parker River, Georgetown.
<b>AU Type:</b>	RIVER
<b>AU Size:</b>	3 MILES
<b>Classification/Qualifier:</b>	B

### Penn Brook (MA91-16)

Watershed Area: 3.92 square miles



Land Cover Type	Entire Basin	Proximal Subbasin (5 km radius)	Stream Buffer (100 m)	Proximal Stream Buffer
Land Cover Area (square miles)	3.92	3.92	1.52	1.52
Agriculture	0.9%	0.9%	1%	1%
Developed	16.3%	16.3%	11.8%	11.8%
Natural	64.3%	64.3%	55.2%	55.2%
Wetland	18.5%	18.5%	32%	32%
Impervious	8.7%	8.7%	6.4%	6.4%

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

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

## Recommendations

2024/26 Recommendations
2016 IR [Turbidity, low priority] An Alert was previously identified for Turbidity in Penn Brook (MA91-16) in the 2016 IR cycle based on three instances of high turbidity observed in 2010 at MassDEP station W2141 in the downstream half of the brook. Follow-up sampling should be carried out in the vicinity of W2141 as resources permit- this is a low priority. {W2141}

## 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 in Penn Brook (MA91-16), so the Fish Consumption Use is Not Assessed.	

### Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	YES
2024/26 Use Attainment Summary	
No aesthetics data are available to assess the status of the Aesthetics Use for Penn Brook (MA91-16), so it is Not Assessed. The prior Alert identified for Turbidity (based on three instances of high turbidity observed in 2010 at MassDEP station W2141 in the downstream half of the brook) in this waterbody 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 Penn Brook (MA91-16) are available, so the Primary Contact Recreation Use is Not Assessed. The Alert for Turbidity is being removed from the recreational uses but continues to be maintained under the Aesthetics Use.	

### Secondary Contact Recreation

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

No bacteria or other indicator data for Penn Brook (MA91-16) are available in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed. The Alert for Turbidity is being removed from the recreational uses but continues to be maintained under the Aesthetics Use.

MassDEP staff collected historic *E. coli* bacteria samples in the downstream half of Penn Brook (MA91-16) at W2141 [~390 ft upstream of E Main St (Rt. 133), Georgetown] from May-Oct 2010 (n=6). These *E. coli* data were indicative of good water quality conditions (no GM or STV exceedances). However, since they were collected prior to the current IR window (2011-2022), they cannot be used to positively assess the Secondary Contact Recreation Use of Penn Brook.

### **Monitoring Stations**

Station Code	Organization	Type	Water Body	Station Description	Latitude	Longitude
W2141	MassDEP	Water Quality	Penn Brook	[approximately 390 feet upstream of East Main Street (Route 133), Georgetown]	42.718728	-70.984149

### **Bacteria Data**

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

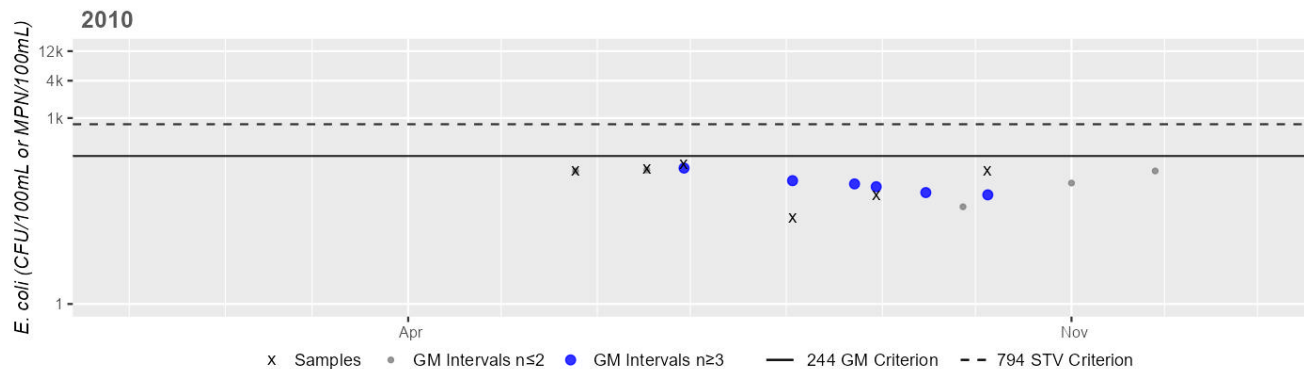
(MassDEP Undated 7) (MassDEP Undated 3)

[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
W2141	MassDEP	E. coli	05/25/10	10/05/10	6	24	180	94

# Station MASSDEP\_W2141 - Escherichia coli

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



Variable*	Result
Samples	6
SeasGM	94
#GMI	6
#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.

## Pentucket Pond (MA91010)

<b>Location:</b>	Georgetown.
<b>AU Type:</b>	FRESHWATER LAKE
<b>AU Size:</b>	92 ACRES
<b>Classification/Qualifier:</b>	B: WWF, HQW (impoundment on river designated B/WWF/HQW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	(Fanwort*)	--	Unchanged
5	5	Mercury in Fish Tissue	--	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 (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 Pentucket Pond (MA91010) continues to be assessed as Not Supporting and the prior Mercury in Fish Tissue impairment is being carried forward. MA DPH retained a site-specific advisory for Pentucket Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent DPH 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 Assessed	NO
2024/26 Use Attainment Summary	
No aesthetics data are available, so the Aesthetics Use for Pentucket Pond (MA91010) 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 are available for Pentucket Pond (MA91010), 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 are available for Pentucket Pond (MA91010) in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.	

## Plum Island River (MA91-15)

<b>Location:</b>	From "high sandy" sandbar just north of the confluence with Pine Island Creek, Newbury to confluence with Plum Island Sound, Newbury (formerly part of 2000 segment: Plum Island River MA84A-23).
<b>AU Type:</b>	ESTUARY
<b>AU Size:</b>	0.39 SQUARE MILES
<b>Classification/Qualifier:</b>	SA: ORW, SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	R1_MA_2021_001	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 in this estuarine Plum Island River AU (MA91-15), so the Fish Consumption Use is Not Assessed.

### Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
--------------------------------

Plum Island River (MA91-15): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3621 sq mi (93%). 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 5)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
N4.0	Plum Island Sound	Conditionally Approved	0.36207	93.2%

### Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

2024/26 Use Attainment Summary
No aesthetics observation data are available, so the Aesthetics Use for this estuarine Plum Island River AU (MA91-15) 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 this estuarine Plum Island River AU (MA91-15) so it is assessed as having Insufficient Information. The shellfish growing areas (0.3621 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). There is Insufficient Information to assess the Primary Contact Recreation Use of this Plum Island River AU (MA91-15) using the shellfish classification data.

### Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 5)

Summary
Plum Island River (MA91-15): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3621 sq mi (93%). 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 Recreation 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 this estuarine Plum Island River AU (MA91-15) so it is assessed as having Insufficient Information. The shellfish growing areas (0.3621 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). There is Insufficient Information to assess the Secondary Contact Recreation Use of this Plum Island River AU (MA91-15) using the shellfish classification data.		

**Shellfish Growing Area Classifications**

**Summary Statement for MassDFG Shellfish Growing Area Classification Data** (MassGIS 2024) (MassDEP Undated 5)

Summary
Plum Island River (MA91-15): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.3621 sq mi (93%). 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.

## Plum Island Sound (MA91-12)

<b>Location:</b>	From the mouth of both the Parker River and Plum Island River, Newbury to the Atlantic Ocean, Ipswich (Includes Ipswich Bay) (formerly reported as 2000 segment: Plum Island Sound MA84A-24).
<b>AU Type:</b>	ESTUARY
<b>AU Size:</b>	4.48 SQUARE MILES
<b>Classification/Qualifier:</b>	SA: ORW, SFO

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
4a	4a	Fecal Coliform	R1_MA_2021_001	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 in this estuarine Plum Island Sound AU (MA91-12), so the Fish Consumption Use is Not Assessed.

### Shellfish Harvesting

2024/26 Use Attainment	Alert
Not Supporting	NO

2024/26 Use Attainment Summary
--------------------------------

Plum Island Sound (MA91-12): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 4.4015 sq mi (98%). The approved shellfish growing area represents 1.0929 sq mi (24%). 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 5)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
N3.0	Plum Island	Approved	0.03484	0.8%
N4.0	Plum Island Sound	Conditionally Approved	2.75009	61.4%
N4.10	Clark Beach	Prohibited	0.05680	1.3%
N4.11	Pavilion Beach Mooring Area	Prohibited	0.02044	0.5%
N4.12	Grape Island Mooring Area	Prohibited	0.02882	0.6%
N4.13	Eel Run Mooring Area	Prohibited	0.01652	0.4%
N4.14	Sandy Point Mooring Area	Prohibited	0.03416	0.8%
N4.6	Parker River and Mud Creek	Conditionally Approved	0.00929	0.2%
N4.7	Rowley River and Rogers Island	Conditionally Approved	0.04052	0.9%
N4.8	North Ridge Mooring Area	Prohibited	0.03670	0.8%
N4.9	Ipswich Bay Yacht Club Mooring Area	Prohibited	0.15541	3.5%
N6.0	Cranes Beach	Approved	1.05807	23.6%
N6.1	Steep Hill Beach	Prohibited	0.15990	3.6%

### Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

#### 2024/26 Use Attainment Summary

No aesthetics observation data are available, so the Aesthetics Use for this estuarine Plum Island Sound AU (MA91-12) 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 this estuarine Plum Island Sound AU (MA91-12) continues to be assessed as Fully Supporting based on beach closure data from four beaches. Plum Island Sound (MA91-12) has 4 beaches with DPH Beach Closure data: Clark [Beach ID: 2921], Pavilion [Beach ID: 2923], Steep Hill [Beach ID: 2922], and Crane [Beach ID: 2924] beaches in Ipswich. None of the beaches were ever posted for swimming from 2014-2022. The shellfish growing areas (4.4015 sq mi) in this AU are less than 100% approved (1.0929 sq mi, 24%). These shellfish classification data, therefore, cannot be used to assess the Primary Contact Recreation Use of Plum Island Sound.

### Beach Postings

**MA DPH Beach Posting Data Summary (% Bathing Season Posted 2014-2022)** (Bailey, Logan Feb. 2, 2021) (Bailey Sept. 10, 2023) (MassDEP Undated 2)

Beach ID	Beach Name/ Town	Left Border (Lat., Long.)	Right Border (Lat., Long.)	2014	2015	2016	2017	2018	2019	2020	2021	2022	# years >10%
2921	Clark/ Ipswich	42.70538, -70.79530	42.70317, -70.79460	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
2922	Steep Hill/ Ipswich	42.69250, -70.78980	42.69099, -70.77950	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
2923	Pavilion/ Ipswich	42.70016, -70.79190	42.69740, -70.79160	0%	0%	0%	0%	0%	0%	0%	0%	0%	0
2924	Crane/ Ipswich	42.69097, -70.77470	42.66260, -70.72950	0%	0%	0%	0%	0%	0%	0%	0%	0%	0

### Shellfish Growing Area Classifications

**Summary Statement for MassDFG Shellfish Growing Area Classification Data** (MassGIS 2024) (MassDEP Undated 5)

Summary
Plum Island Sound (MA91-12): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 4.4015 sq mi (98%). The approved shellfish growing area represents 1.0929 sq mi (24%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Primary Contact Recreation Use cannot be assessed for 2024 using the shellfish classification data.

### Secondary Contact Recreation

2024/26 Use Attainment	Alert
Fully Supporting	NO
2024/26 Use Attainment Summary	

The Secondary Contact Recreation Use for this estuarine Plum Island Sound AU (MA91-12) continues to be assessed as Fully Supporting based on beach closure data from four beaches. Plum Island Sound (MA91-12) has 4 beaches with DPH Beach Closure data: Clark [Beach ID: 2921], Pavilion [Beach ID: 2923], Steep Hill [Beach ID: 2922], and Crane [Beach ID: 2924] beaches in Ipswich. None of the beaches were ever posted for swimming from 2014-2022. The shellfish growing areas (4.4015 sq mi) in this AU are less than 100% approved (1.0929 sq mi, 24%). These shellfish classification data, therefore, cannot be used to assess the Secondary Contact Recreation Use of Plum Island Sound.

### ***Shellfish Growing Area Classifications***

**Summary Statement for MassDFG Shellfish Growing Area Classification Data** (MassGIS 2024) (MassDEP Undated 5)

<b>Summary</b>
Plum Island Sound (MA91-12): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 4.4015 sq mi (98%). The approved shellfish growing area represents 1.0929 sq mi (24%). Because the total of all shellfish growing area classifications is anything less than “approved”, the Secondary Contact Recreation Use cannot be assessed for 2024 using the shellfish classification data.



## Quills Pond (MA91011)

<b>Location:</b>	Newbury.
<b>AU Type:</b>	FRESHWATER LAKE
<b>AU Size:</b>	2 ACRES
<b>Classification/Qualifier:</b>	B

No usable data were available for Quills Pond (MA91011) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

## Rock Pond (MA91012)

<b>Location:</b>	Georgetown.
<b>AU Type:</b>	FRESHWATER LAKE
<b>AU Size:</b>	49 ACRES
<b>Classification/Qualifier:</b>	B: WWF, HQW (impoundment on river designated B/WWF/HQW)

AU Category 2022	AU Category 2024/26	Impairment	ATTAINS Action ID	Impairment Change Summary
5	5	Mercury in Fish Tissue	--	Unchanged

Impairment	Source (Confirmed Y/N)	ALU	FC	AES	PCR	SCR
Mercury in Fish Tissue	Atmospheric Deposition (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 Rock Pond (MA91012) 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 Rock Pond (MA91012) at station F0070 in 2020 as part of the MassDEP Office of Research and Standards Mercury Initiative. MA DPH included a site-specific advisory for Rock Pond in their January 2025 Freshwater Fish Consumption Advisory List. The public should refer to the most recent DPH Freshwater Fish Consumption Advisory List for the most up to date meal advice for sensitive and general populations.</p>

### Fish Consumption Advisories

Summary of Fish Toxics Sampling and Resulting Fish Consumption Advisories (MA DPH 2025) (MassDEP Undated 6)

**Summary Statement**

Fish toxics sampling was conducted in Rock Pond (MA91012) at station F0070 in 2020 as part of the MassDEP Office of Research and Standards Mercury Initiative. MA DPH retained the existing site-specific fish consumption advisories for Mercury associated with Rock 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 Rock Pond (MA91012).

**Aesthetic**

2024/26 Use Attainment	Alert
Not Assessed	NO

**2024/26 Use Attainment Summary**

No aesthetics data are available, so the Aesthetics Use for Rock Pond (MA91012) 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 are available for Rock Pond (MA91012), 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 are available for Rock Pond (MA91012) in the current IR window (2011-2022), so the Secondary Contact Recreation Use is Not Assessed.

## Rowley River (MA91-05)

<b>Location:</b>	Headwaters, confluence with Egypt River, Rowley/Ipswich to mouth at Plum Island Sound, Rowley/Ipswich.
<b>AU Type:</b>	ESTUARY
<b>AU Size:</b>	0.25 SQUARE MILES
<b>Classification/Qualifier:</b>	SA: ORW

<b>AU Category 2022</b>	<b>AU Category 2024/26</b>	<b>Impairment</b>	<b>ATTAINS Action ID</b>	<b>Impairment Change Summary</b>
4a	4a	Fecal Coliform	R1_MA_2021_001	Unchanged

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

## Designated Use Attainment Decisions

### Fish Consumption

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Assessed	No

<b>2024/26 Use Attainment Summary</b>
Fish toxics sampling has not been conducted in the estuarine Rowley River (MA91-05), so the Fish Consumption Use is Not Assessed.

### Shellfish Harvesting

<b>2024/26 Use Attainment</b>	<b>Alert</b>
Not Supporting	NO

<b>2024/26 Use Attainment Summary</b>
---------------------------------------

Rowley River (MA91-05): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2425 sq mi (97%). 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 5)

Area Name	Waterbody/Area Description	Classification	Area (Sq. Mi.)	Area (% of AU)
N4.0	Plum Island Sound	Conditionally Approved	0.00013	0.1%
N4.2	Upper Rowley River	Prohibited	0.01292	5.2%
N4.7	Rowley River and Rogers Island	Conditionally Approved	0.22941	91.4%

### Aesthetic

2024/26 Use Attainment	Alert
Not Assessed	NO

#### 2024/26 Use Attainment Summary

No aesthetics observation data are available, so the Aesthetics Use for the estuarine Rowley River (MA91-05) 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 estuarine Rowley River (MA91-05) so it is assessed as having Insufficient Information. The shellfish growing areas (0.2425 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). There is Insufficient Information to assess the Primary Contact Recreation Use of the Rowley River (MA91-05) using the shellfish classification data.

### Shellfish Growing Area Classifications

Summary Statement for MassDFG Shellfish Growing Area Classification Data (MassGIS 2024) (MassDEP Undated 5)

#### Summary

Rowley River (MA91-05): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2425 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 Recreation 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 estuarine Rowley River (MA91-05) so it is assessed as having Insufficient Information. The shellfish growing areas (0.2425 sq mi) in this AU are less than 100% approved (0 sq mi, 0%). There is Insufficient Information to assess the Secondary Contact Recreation Use of the Rowley River (MA91-05) using the shellfish classification data.	

**Shellfish Growing Area Classifications**

**Summary Statement for MassDFG Shellfish Growing Area Classification Data** (MassGIS 2024) (MassDEP Undated 5)

Summary
Rowley River (MA91-05): The total of all shellfish growing area classifications (MassGIS, 2024) within this AU is 0.2425 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 Recreation Use cannot be assessed for 2024 using the shellfish classification data.

## Sperrys Pond (MA91013)

<b>Location:</b>	Boxford.
<b>AU Type:</b>	FRESHWATER LAKE
<b>AU Size:</b>	26 ACRES
<b>Classification/Qualifier:</b>	B: WWF, HQW (impoundment on river designated B/WWF/HQW)

No usable data were available for Sperrys Pond (MA91013) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

## State Street Pond (MA91014)

<b>Location:</b>	Newburyport.
<b>AU Type:</b>	FRESHWATER LAKE
<b>AU Size:</b>	4 ACRES
<b>Classification/Qualifier:</b>	B

No usable data were available for State Street Pond (MA91014) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

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



## Wilson Pond (MA91017)

<b>Location:</b>	Rowley.
<b>AU Type:</b>	FRESHWATER LAKE
<b>AU Size:</b>	5 ACRES
<b>Classification/Qualifier:</b>	B: ORW, WWF ('and tributaries thereto' to a river designated B/WWF/ORW)

No usable data were available for Wilson Pond (MA91017) for the 2024/26 Integrated Reporting cycle, therefore its category, use attainments, impairments, associated actions, and sources remain unchanged from the previous cycle.

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

## Data Sources

- Bailey, Logan. "DPH 2022 freshwater beach posting data provided to Laurie Kennedy and Dan Davis (MassDEP Watershed Planning Program) via Excel file (FreshwaterBeachPostings\_2022) attached to email (RE: DPH Beach Posting information update needed for 2024 IR)." Additional 2020-2022 freshwater/marine beach posting data downloaded from the Mass Environmental Public Health Tracker tool or EPA BEACON tool, respectively, Environmental Toxicology Program, Bureau of Environmental Health, Massachusetts Department of Public Health, Boston, MA, Sept. 10, 2023.
- Bailey, Logan. "RE: Beaches Bill reporting data." Email to Dan Davis (MassDEP Watershed Planning Program) providing an Excel file (DEP\_BeachDataRequest) with 2014-2019 data for marine and DCR freshwater beaches, Environmental Toxicology Program, Bureau of Environmental Health, Massachusetts Department of Public Health, Boston, MA, Feb. 2, 2021.
- IRWA. "2022 bacteria data submitted to MassDEP WPP portal or downloaded from WQX (last submittal/download 12/23/2022)." Ipswich River Watershed Association, Ipswich, MA, 2022.
- MA DPH. "Freshwater Fish Consumption Advisory List." Bureau of Climate and Environmental Health, Massachusetts Department of Public Health. January 2025.  
<https://www.mass.gov/doc/public-health-freshwater-fish-consumption-advisories-2025-0/download> (accessed January 2025).
- MassDEP. "Final Massachusetts Integrated List of Waters for the Clean Water Act 2022 Reporting Cycle (and associated basin-specific appendices)." CN 568.1, Available at <https://www.mass.gov/doc/final-massachusetts-integrated-list-of-waters-for-the-clean-water-act-2022-reporting-cycle/download>, Watershed Planning Program, Division of Watershed Management, Massachusetts Department of Environmental Protection, Worcester, MA, 2023.
- MassDEP. "Open file analysis of external water quality data (potential date range 1997-2022) using 2024 CALM guidance." Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA, Undated 1.
- MassDEP. "Open file analysis of external water quality data (potential date range 2011-2022) using 2024 CALM guidance." Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA, Undated 2.
- 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 3.

MassDEP. "Open file analysis of MassDEP WPP water quality data collected between 2011 and 2020 using 2024 CALM guidance." Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA, Undated 4.

MassDEP. "Open file analysis of shellfish growing area classifications using 2024 CALM guidance." Data published June 2024 and available on MassGIS website, Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA, Undated 5.

MassDEP. "Open files of fish toxicity testing data, metadata, and GIS datalayers in development." Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA, Undated 6.

MassDEP. "Open files of unpublished, validated water quality monitoring data, field sheet data, and GIS datalayers in development." Watershed Planning Program, Massachusetts Department of Environmental Protection, Worcester, MA, Undated 7.

MassGIS. "MassGIS Data: Designated Shellfish Growing Areas, Data provided by Massachusetts Department of Fish and Game's Division of Marine Fisheries." Bureau of Geographic Information, Boston, MA. June 2024. <https://www.mass.gov/info-details/massgis-data-designated-shellfish-growing-areas> (accessed July 2024).