

How to Answer Common Questions with Available Data Tools

June 5, 2024

Shepherdstown, WV

Available Data Tools

	Easy to Use	Need ATTAINS Login	Available Snapshots	Refresh Frequency	Available Scales
How's My Waterway	Yes	No	Org Final and Later	Approximately Monthly with the Geospatial Service	HUC12, State, and Tribe
ATTAINS Reports	Yes	Yes	All (If State/Tribal User) Org Public Comment and Later (If EPA User)	Instantaneous (If State/Tribal User) Instantaneous Upon Promotion (If EPA User)	State and Tribe
ATTAINS Services	Depends on Comfort with REST Services	No	Org Public Comment and Later	Instantaneous Upon Promotion	State and Tribe
ATTAINS Geospatial Service	Depends on Comfort with GIS Software	No	Org Final and Later	Approximately Monthly	National
Expert Query	Yes, but make sure you are interpreting results correctly	No	Org Final and Later	Weekly	National






How many stream miles in Oregon
are impaired for swimming use?

Use How's My Waterway State Page

State Water Quality Overview Advanced Search

Oregon Water Quality

Choose a Topic:

-  Swimming
-  Eating Fish
-  Aquatic Life
-  Drinking Water
-  Other

Pick your Water Type and Use:

Water Type: Rivers and Streams | **Use:** Water Contact Recreation

Assessed *Rivers and Streams* that support *Water Contact Recreation*

Targeted monitoring provides information on water quality problems for the subset of those waters that were assessed.

Category	Miles
Good	8,735 miles
Impaired	17,455 miles
Insufficient Info	4,237 miles

Year Last Reported: 2020

[Top Reasons for Impairment for Oregon *Rivers and Streams* assessed for *Water Contact Recreation*](#) >

Where are the waters in Oregon that
are impaired for recreation use due
to pathogens?

Use How's My Waterway State Advanced Search

Use this page to find the condition of waterbodies in your state and whether there are plans in place to restore them. The filters below are to help narrow down your search. There are no required fields.

Parameter Groups:

Bacteria and Other Microbes x

Use Groups:

Recreation x

Watershed Names (HUC12):

Select...

Waterbody Names (IDs):

Select...

Integrated Reporting (IR) Category:

- All Waters
- 303(d) Listed Impaired Waters (Category 5)
- Impaired (Category 4 and 5)

Additional Filters:

- Has TMDL

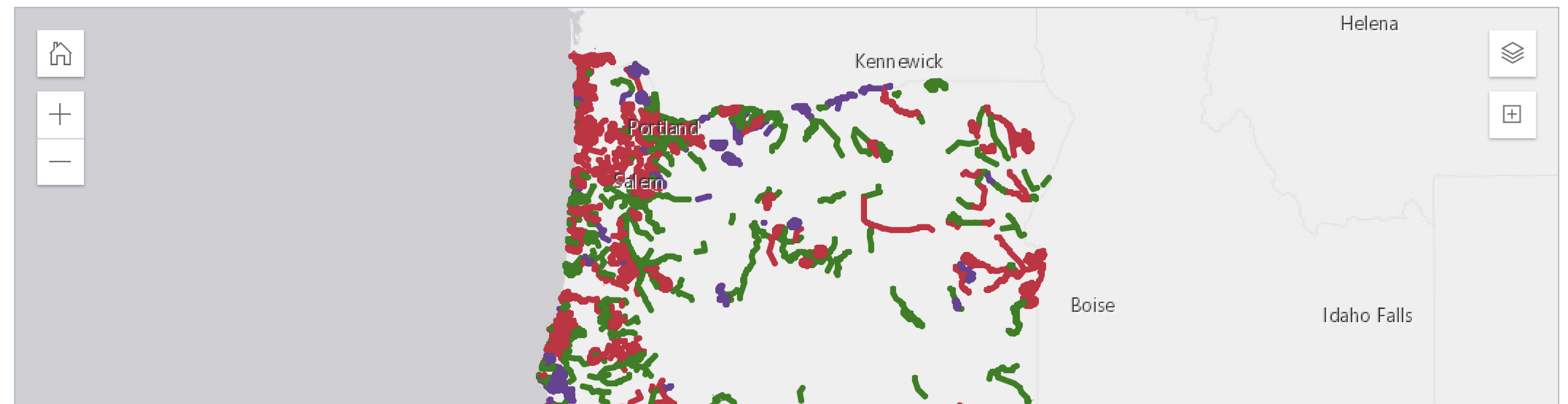
Search

Results: 657 items

Display Waterbodies by:

Bacteria and Other Microbes

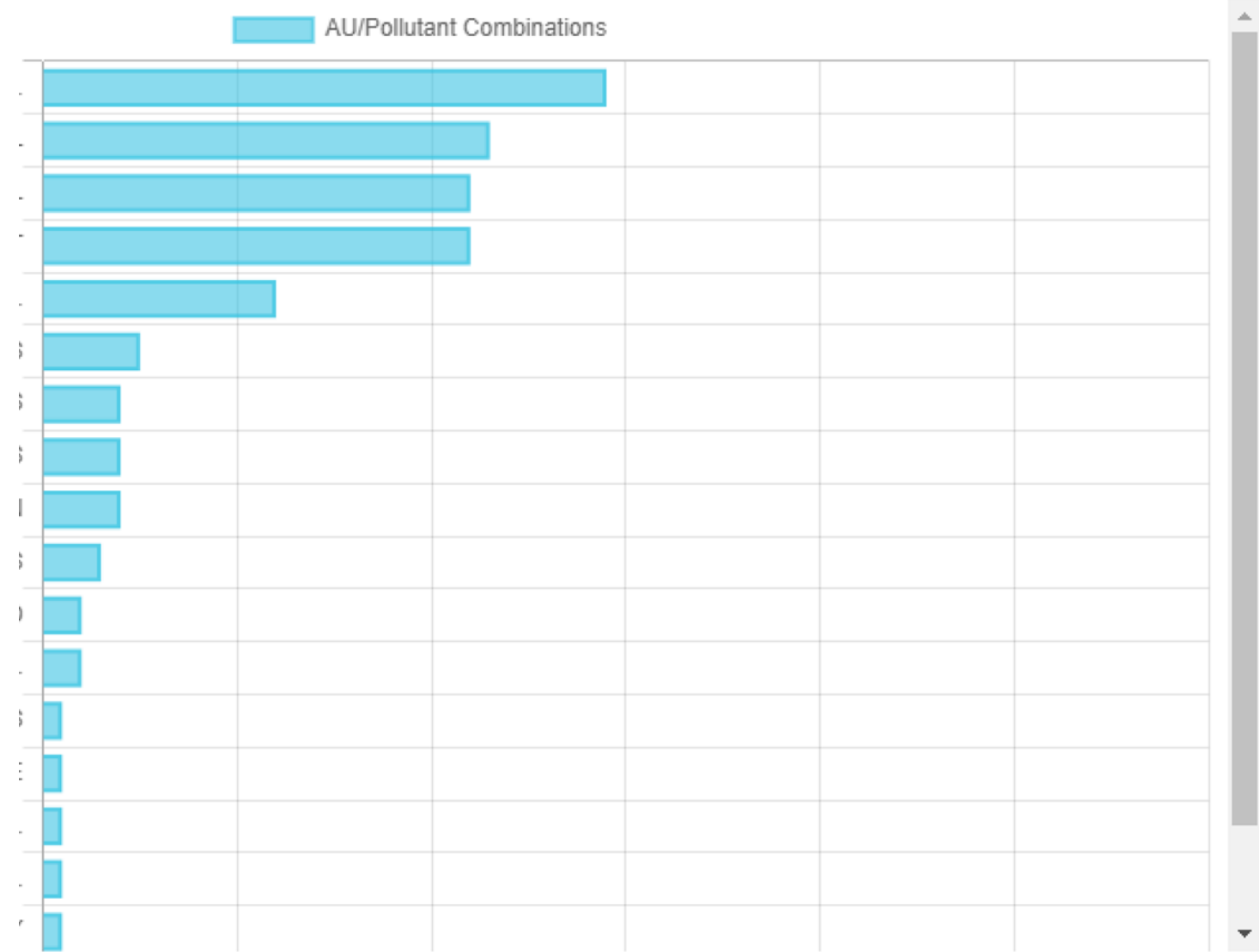
Map List



What are all the TMDLs in Maine?

Use the Actions Report in ATTAINS

Pollutants for Approved TMDLs



Pollutants for Approved TMDLs Summary

Pollutant	AU/Pollutants	AU/Addressed Parameters
POLLUTANTS IN URBAN STORMWATER	29	57
PHOSPHORUS, TOTAL	23	28
NITROGEN, TOTAL	22	27
SEDIMENT	22	27
ESCHERICHIA COLI (E. COLI)	12	12

Watershed Unit Name	Action ID	Action Name	Action TMDL Date	Action Status	EPA FY	Pollutant	Source Type
1779	31577	TRAFTON LAKE	Oct 26, 2006	EPA Final Action	2007	ALGAL BLOOMS	Nonpoint source
1820	31665	MONSON POND	Nov 28, 2006	EPA Final Action	2007	ALGAL BLOOMS	Nonpoint source
1674	30679	CROSS LAKE	Sep 28, 2006	EPA Final Action	2006	ALGAL BLOOMS	Nonpoint source
1776	32030	ECHO LAKE	Feb 05, 2007	EPA Final Action	2007	ALGAL BLOOMS	Nonpoint source

Which waters are new to category 5
this cycle in Montana?







Use the Cycle Comparison Report in ATTAINS

Comparison

Parameters

Category = [5], Previous EPA IR Category = [1, 2, 3, , 4A, 4C]

 Clear Selection 

	Assessment Unit Name 	Previous Assessment Unit Name 	EPA IR Category 	Previous EPA IR Category 	EPA IR
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	Little Sheep Creek		5		ADDED
	Selway Creek	Selway Creek	5	3	CHANG
	Sage Creek		5		ADDED
	Trail Creek		5		ADDED
	Nicholia Creek		5		ADDED
	Cabin Creek		5		ADDED
	Metzel Creek		5		ADDED

7 Records

How many TMDL Projects were approved so far in
FY 2024 in Region 7?

Use ATTAINS Services

Base URL for Actions service

State code indicator

Indicates that a number
should be returned
instead of a list of
TMDLs

<https://attains.epa.gov/attains-public/api/actions?actionTypeCode=tmdl&stateCode=KS&tmdlDateLaterThan=2023-10-1&returnCountOnly=Y>

Action type code indicator

Indicates TMDL was approved in FY 2024

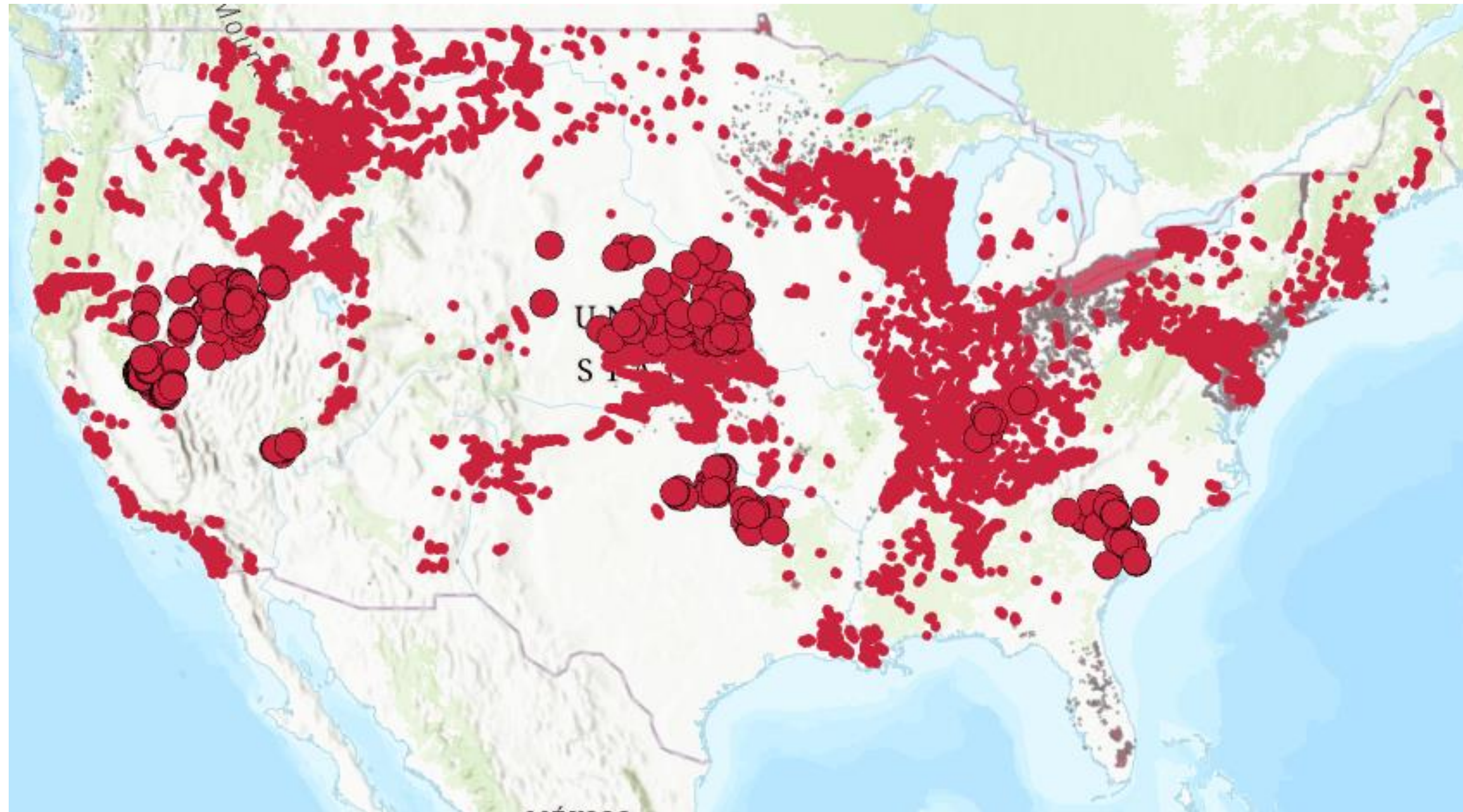
```
{  
  "items": [],  
  "count": 1  
}
```


What is the most commonly reported impairment nationally?

OBJECTID *	ParameterName	FREQUENCY	COUNT_parametername
299	PATHOGENS	26142	26142
347	SILTATION	24691	24691
188	ESCHERICHIA COLI (E...	16089	16089
250	MERCURY	14756	14756
256	METALS	11754	11754
311	PH	11199	11199
176	DISSOLVED OXYGEN	8712	8712
208	FLOW REGIME MODIFI...	8477	8477
197	FECAL COLIFORM	8016	8016
280	NUTRIENTS	7747	7747

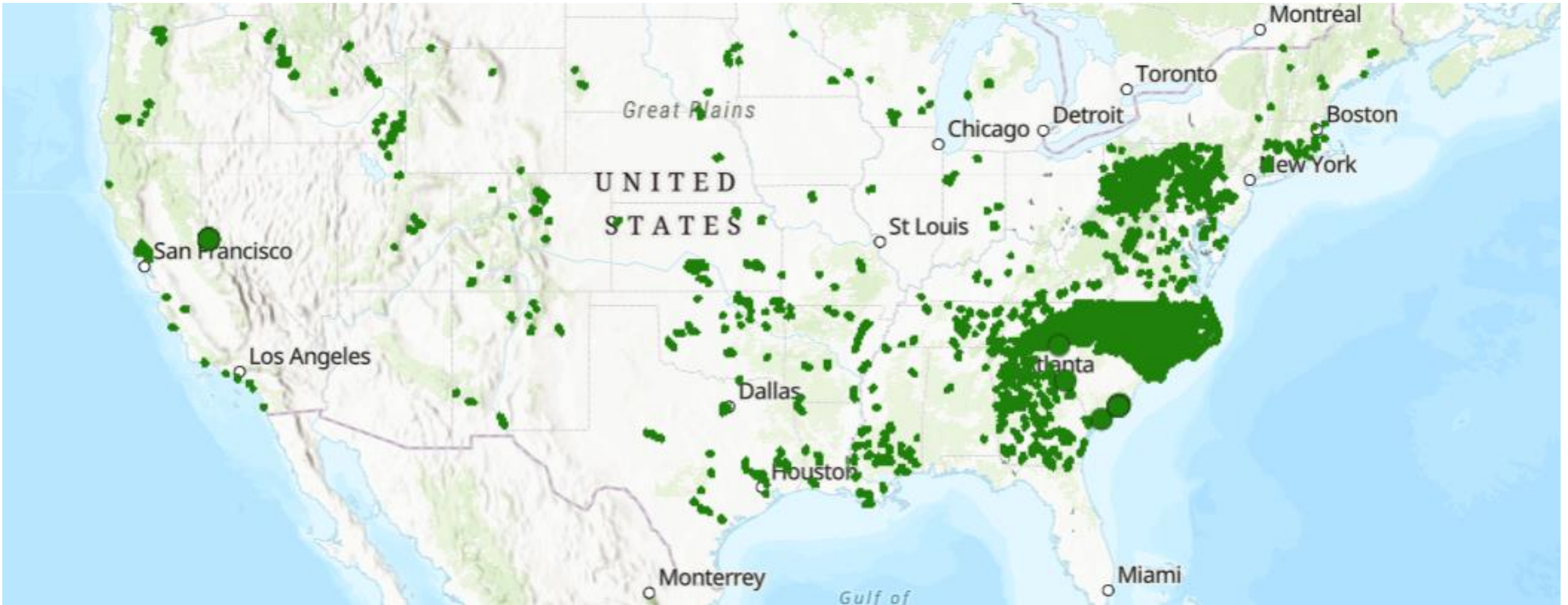
Use the ATTAINS Geospatial Service

Where are the waters impaired for
nutrients nationally?



Use the ATTAINS Geospatial Service

Which waters have a TMDL and are
fully supporting nationally?










Use the ATTAINS Geospatial
Service

~~Where~~ What are the waters impaired
for nutrients nationally?

Parameter Group <input type="text" value="NUTRIENTS x"/>	Parameter Name ⓘ <input type="text" value="Select a Parameter Name..."/>	Parameter Status <input checked="" type="checkbox"/> Cause <input type="checkbox"/> Insufficient Information <input type="checkbox"/> Meeting Criteria <input type="checkbox"/> Observed effect <input type="checkbox"/> Removed	On this page <ol style="list-style-type: none"> Pick a Data Profile Apply Filters Download the Data
Parameter Attainment <input type="text" value="Select a Parameter Attainment..."/>	Parameter IR Category <input type="text" value="Select a Parameter IR Category..."/>	Parameter State IR Category <input type="text" value="Select a Parameter State IR Category..."/>	Search for an Area of Interest Search by Reporting Cycle Search for a specific Assessment Unit Search by Overall Status Search by Use Search by Parameter Search by Associated Action
Delisted <input type="checkbox"/> No <input type="checkbox"/> Yes	Delisted Reason <input type="text" value="Select a Delisted Reason..."/>	Pollutant Indicator <input type="checkbox"/> No <input type="checkbox"/> Yes	
Cycle First Listed from: <input type="text" value="yyyy"/> to: <input type="text" value="yyyy"/>	Alternate Listing ID <input type="text" value="Select an Alternate Listing ID..."/>	Vision 303d Priority <input type="checkbox"/> No <input type="checkbox"/> Yes	
CWA 303d Priority Ranking <input type="checkbox"/> High <input type="checkbox"/> Low <input type="checkbox"/> Medium	Cycle Scheduled for TMDL from: <input type="text" value="yyyy"/> to: <input type="text" value="yyyy"/>	Cycle Expected to Attain from: <input type="text" value="yyyy"/> to: <input type="text" value="yyyy"/>	
Consent Decree Cycle	Season Start Date	Season End Date	

Use Expert Query

What are the impaired waters
(category 4 and 5) nationally?

Download link <i>All downloads are zipped (ZIP) CSV files</i>	Time last refreshed	Number of rows	File size	
			Zipped	Unzipped
Actions Profile 	5/10/2024, 9:54:38 PM	77,547	2.99 MB	21.63 MB
Assessments Profile 	5/10/2024, 9:29:22 PM	8,144,245	138.51 MB	2.56 GB
Assessment Units Profile 	5/10/2024, 8:19:24 PM	2,575,987	57.67 MB	479.09 MB
Assessment Units with Monitoring Locations Profile 	5/10/2024, 8:28:06 PM	2,191,139	62.34 MB	406.36 MB
Catchment Correspondence Profile 	5/11/2024, 1:09:48 AM	107,535,232	601.8 MB	10.79 GB
Sources Profile 	5/10/2024, 9:46:53 PM	2,173,839	39.13 MB	544.83 MB
Total Maximum Daily Load Profile 	5/10/2024, 9:53:55 PM	607,565	11.67 MB	506.77 MB

Use Expert Query

Summary of Suggested Tools

Different Tools work better for different types of questions

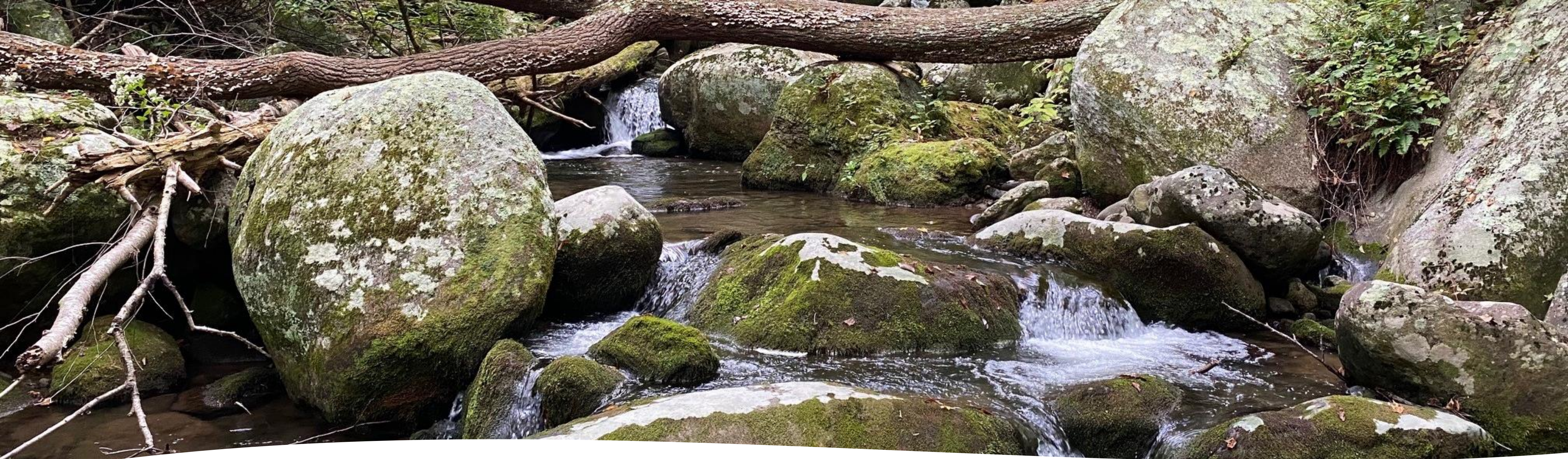
Question	How's My Waterway	ATTAINS Geospatial Service	ATTAINS Reports (Requires Login)	ATTAINS Services	Expert Query	Comment
Where?	Yes, within a state/Org or local area	Yes, at the national or state/Org level	No	No	No	"Where" questions--or questions that involve maps--require geospatial data
Summary	Yes, within a state or local area	Yes, at the Parameter Group or Use Group level	Yes, within an Organization	Depends on the question to be summarized	No	Several tools will provide limited summaries. Expert Query provides rows of data but no summaries.
Query	State Advanced tab allows limited filtering	Yes, at the Parameter Group or Use Group level, at the national or state level. Returns one record per AU	Yes, within an Organization	Limited filtering, and must be included in web service call	Yes	If you want to search or filter for rows of specific data, Expert Query may be your best option, if it is public data. (For non-public data, use Reports module within ATTAINS.) Expert Query allows querying across multiple Organizations or States but may result in very large tabular datasets.

For Further Reference

- How's My Waterway: <https://mywaterway.epa.gov/>
- Expert Query: <https://owapps.epa.gov/expertquery/attains/>
- Public ATTAINS Website: <https://www.epa.gov/waterdata/attains>
- Using ATTAINS Web Services: <https://www.epa.gov/waterdata/get-data-access-public-attains-data#WebServices>
- ATTAINS Geospatial Services: <https://www.epa.gov/waterdata/get-data-access-public-attains-data#AttainsGeo>
- ATTAINS Reports Module: <https://www.epa.gov/waterdata/upload-data-resources-registered-attains-users#reports-module>

Participant Questions

Hands-On



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Questions?