Overview

- How to Get Access to ATTAINS
- User Roles
- Walk through of the ATTAINS User Interface
- Assessment Cycle Promotion Process
- Finding Data Using ATTAINS Reports
- ATTAINS Data and How’s My Waterway – What data are used and when they appear
How to Get Access to ATTAINS

• User accounts are managed by EPA: Contact your regional Data Management Coordinator (DMC) or the ATTAINS Helpdesk (attains@epa.gov) to request an account

• State/Territory/Tribal Users need an Exchange Network (CDX web) Account (https://cdx.epa.gov/CDX/Login)

• EPA users use their Web Access Management (WAM) or LAN login ID

• Users then provide the following information to the ATTAINS User Administrator:
  • Organization (the state, territory or tribal name; or the EPA Region; or EPA HQ)
  • User ID (this is the CDX account for State/Territory/Tribal users, or the WAM/LAN ID for EPA users)
  • Email address
  • First Name
  • Last Name

• State users who want to flow data through the Exchange Network, must also associate their account with the ATTAINS EN Data flow through the CDX Node Helpdesk (nodehelpdesk@epacdx.net).
How Do I Log In?

Production ATTAINS: https://attains.epa.gov/attains/login

State/Tribal Users → Exchange Network

EPA Users → WAM

Select a Login Method

- Login.gov
- PIV Card

EPA PIV Smartcard Login

Please insert your PIV Card into the card reader before clicking Login button.

This login method is for EPA users only.
Roles for State/Territory/Tribal Users

- Read Only
- Data Entry
- Administrator
Roles for EPA Users

- Read Only (lowest level permissions)
- Administrator (mid-level permissions)
- Reviewer (high-level permissions)

For more information about Roles, refer to the “Roles and Permissions in ATTAINS” document on the ATTAINS Public Website, under the “Upload Data” tab: [https://www.epa.gov/waterdata/attains](https://www.epa.gov/waterdata/attains)
Terminology

- ATTAINS
- Assessment Unit
- Assessment
- Parameter versus Cause
- Actions include TMDLs and other Plans to Restore or Protect the Water
- EPA IR Categories
EPA Integrated Report (IR) Categories

1. Attaining standards

2. Attaining some designated uses, and insufficient or no data and information to determine if remaining uses are attained

3. Insufficient or no data and information to determine if the standard is attained

4. Impaired or threatened for one or more designated uses but not needing a TMDL
   a. TMDL has been completed
   b. Expected to meet standards
   c. Not impaired by a pollutant

5. Impaired or threatened by pollutant(s) for one or more designated uses and requiring a TMDL
   a. Alternative restoration plan in place

305 (b) Report

Impaired Waters

303(d) List
ATTAINS Modules Overview

<table>
<thead>
<tr>
<th>Assessment Units</th>
<th>Assessments</th>
<th>Actions</th>
<th>Reports</th>
<th>Surveys</th>
<th>Administration*</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Assessment Unit (AU)</td>
<td>• Edit Assessment decisions</td>
<td>• Enter and submit TMDLs, 4B Plans, Alternative Restoration Plans, and Protection Plans</td>
<td>• View summary data</td>
<td>• Enter and submit statewide statistical survey results</td>
<td>• Add state-specific Domain values</td>
</tr>
<tr>
<td>• Upload GIS</td>
<td>• Share Cycle</td>
<td>• Add Cycle Documents</td>
<td>• Query and filter for data</td>
<td>• Compare Cycles</td>
<td>• Update descriptive paragraph, metrics and state URLs for How's My Waterway</td>
</tr>
<tr>
<td></td>
<td>• Promote Cycle</td>
<td>• Promote Cycle</td>
<td>• Find AUs missing GIS data</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional Modules:
- Priorities – for entering 303(d) Vision Priorities
- EPA Reports – Only for EPA users, shows Assessment Cycle status across multiple organizations
- Help module – has searchable help topics

*Administration module is only available for state Domain Administrators or EPA User Administrators
Walk-Through of User Interface
Data Promotion Process

- Occurs through ATTAINS User Interface
- Allows users to view data and run reports prior to promotion

**Draft**
- Working dataset
- State/Tribe can choose to share with EPA

**Public Comment**
- Snapshot is created for comparison purposes
- Regions first access unless the cycle was shared in Draft status

**Org Final**
- Snapshot is created for comparison purposes
- Org feels the IR is complete

**EPA Action***
- Region reviews the data for completeness (checklist)
- Opportunity for states to adjust the list based on EPA feedback

* If list is approved, this is EPA Final Action. If partial approval or disapproval, other steps follow.
**Organization-Controlled Statuses**

**Org. Draft**
- State/Tribe can view, edit, and batch upload
- EPA can only view, edit, or batch upload if State/Tribe chooses to share cycle with EPA
- Public cannot view data

**Org. Public Comment**
- State/Tribe can view, edit, and batch upload
- EPA can view data
- Assessment Data accessible through web services, labelled as Org. Public Comment, but *not visible* in How’s My Waterway

**Org. Final Submittal**
- State/Tribe considers cycle complete and submitted to EPA
- EPA can view data
- Data accessible through web services and visible in How’s My Waterway
- EPA can return submission to State/Tribe after completeness review. Once returned, they can edit and re-promote the status. This can be repeated multiple times as necessary.
EPA- Controlled Statuses

**EPA Document Decisions**
- EPA considers the cycle complete
- Any further changes will be recorded as overlistings
- Allows State/Tribe to start work on the next cycle

**EPA Final Action**
- EPA has completed review of cycle
- Web services and How’s My Waterway show the latest status
## Types of ATTAINS Reports

<table>
<thead>
<tr>
<th>Cycle Summary</th>
<th>Cycle Comparison</th>
<th>Assessment Units</th>
<th>Actions Summary</th>
<th>EPA Reports</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Assessments</td>
<td>• Changes at Assessment</td>
<td>• Missing GIS</td>
<td>• TMDLs</td>
<td>• Cycle Status</td>
</tr>
<tr>
<td>• Uses</td>
<td>level</td>
<td></td>
<td>• Actions</td>
<td></td>
</tr>
<tr>
<td>• Parameters</td>
<td>• Changes at Parameter</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Sources</td>
<td>level</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Delistings</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Summary Reports Can Answer…

• How many waters are in Category 5?
• How many waters are Supporting or Not Supporting a specific Use?
• What is the most frequently reported Cause of impairment?
• What water / parameter combos are on the 303(d) list?
• Which parameters were Delisted this cycle?
Comparison Reports Can Answer…

• Which waters have changed EPA IR Category since the prior cycle?

• Which Parameters have changed status since the prior cycle?

• Which Parameters were in Category 5 in the prior cycle and are no longer in Category 5?
<table>
<thead>
<tr>
<th>Types of Data</th>
<th>Location in ATTAINS</th>
<th>When it Appears in HMW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment Unit definitions (AU ID, Name, Water Type, Size)</td>
<td>Assessment Units module</td>
<td>Cycle promoted to Org. Final Submittal</td>
</tr>
<tr>
<td>Geospatial location (Displays uses and parameters by group)</td>
<td>Assessment Units module → Upload GIS</td>
<td>Refreshed at regular intervals for all states promoted to Org Final Submittal since last refresh</td>
</tr>
<tr>
<td>Assessment decisions</td>
<td>Assessments module</td>
<td>Cycle promoted to Org. Final Submittal or EPA Final Action</td>
</tr>
<tr>
<td>TMDLs, 4B, Alternatives, Protection Plan Actions</td>
<td>Actions module</td>
<td>Action is finalized</td>
</tr>
<tr>
<td>HMW Metrics</td>
<td>Administration module → Metrics</td>
<td>Revised HMW Metrics are saved and published by the state</td>
</tr>
<tr>
<td>Survey Results</td>
<td>Surveys Module</td>
<td>Survey is published by the state. A HMW crosswalk table that maps Site-specific Use to Survey Use or Condition is updated</td>
</tr>
</tbody>
</table>
Where Data from ATTAINS appear in How’s My Waterway
Assessment Units

ATTAINS

<table>
<thead>
<tr>
<th>Assessment Unit Identifier</th>
<th>TN05130202023_0200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment Name</td>
<td>Middle Fork Browns Creek</td>
</tr>
<tr>
<td>Status</td>
<td>Active</td>
</tr>
<tr>
<td>Location Description</td>
<td>Middle Fork Browns Creek from Browns Creek to headwaters. Ecoregion 71h Davidson County</td>
</tr>
</tbody>
</table>

Water Types

<table>
<thead>
<tr>
<th>Water Type</th>
<th>Size</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIVER</td>
<td>3.5</td>
<td>Miles</td>
</tr>
</tbody>
</table>

How’s My Waterway

Middle Fork Browns Creek
Assessment Unit ID: TN05130202023_0200

Waterbody Condition: Impaired
Existing Plans for Restoration: No
303(d) Listed: Yes
Year Last Reported: 2020
Organization Name (ID): Tennessee (TDECWR)

What type of water is this?
River (3.5 Miles)

Where is this water located?
Middle Fork Browns Creek from Browns Creek to headwaters. Ecoregion 71h Davidson County
Assessment Units

ATTAINS

How’s My Waterway
Assessments

ATTAINS

How’s My Waterway

Waterbody Report

Decision Rationale

This AU was split from NM-128.A_07 as a result of Hydrology Protocol surveys that documented a perennial reach downstream of Homestead Spring. Hydrology Protocol survey results indicate this AU is perennial. Standards revisions affecting this AU are currently a matter under consideration in the 2020 Triennial Review. NMED will update the AU standards reference appropriately following rule publication and subsequent EPA action.
Assessments

ATTAINS

<table>
<thead>
<tr>
<th>Use Name</th>
<th>Use Support</th>
<th>Threatened</th>
<th>Agency</th>
<th>EPA IR Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limited Aquatic Life</td>
<td>Not Supporting</td>
<td>No</td>
<td>State</td>
<td>5</td>
</tr>
<tr>
<td>Livestock Watering</td>
<td>Not Supporting</td>
<td>No</td>
<td>State</td>
<td>5</td>
</tr>
<tr>
<td>Secondary Contact</td>
<td>Not Assessed</td>
<td>No</td>
<td>State</td>
<td>3</td>
</tr>
<tr>
<td>Wildlife Habitat</td>
<td>Fully Supporting</td>
<td>No</td>
<td>State</td>
<td>2</td>
</tr>
</tbody>
</table>

Parameters

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Parameter Status</th>
<th>EPA IR Category</th>
<th>Delisted</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALPHA PARTICLES</td>
<td>Cause</td>
<td>5</td>
<td>No</td>
</tr>
<tr>
<td>ALUMINUM, TOTAL</td>
<td>Cause</td>
<td>5</td>
<td>No</td>
</tr>
</tbody>
</table>
### Actions

<table>
<thead>
<tr>
<th>Action ID</th>
<th>Action Name</th>
<th>Agency Code</th>
<th>Type</th>
<th>Status</th>
<th>Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>69010</td>
<td>Jemez River Watershed TMDL</td>
<td>State</td>
<td>TMDL</td>
<td>Final</td>
<td>2021-11-24</td>
</tr>
<tr>
<td>66401</td>
<td>TMDL for the Jemez River Watershed</td>
<td>State</td>
<td>TMDL</td>
<td>Final</td>
<td>2016-09-23</td>
</tr>
<tr>
<td>36979</td>
<td>EAST FORK JEMEZ RIVER 2105.A.13 ARSENIC AND TEMP TMDLS</td>
<td>State</td>
<td>TMDL</td>
<td>Final</td>
<td>2009-09-15</td>
</tr>
</tbody>
</table>

### How’s My Waterway

#### Plans to Restore Water Quality

What plans are in place to protect or restore water quality?

*Links below open in a new browser tab.*

<table>
<thead>
<tr>
<th>Plan</th>
<th>Impairments</th>
<th>Type</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jemez River 2105_75 Arsenic and Boron Tmdls</td>
<td>Arsenic, Boron</td>
<td>TMDL</td>
<td>2009-09-15</td>
</tr>
<tr>
<td>Jemez River Watershed Tmdl</td>
<td>Arsenic, Dissolved, Specific Conductivity, Temperature, Turbidity</td>
<td>TMDL</td>
<td>2021-11-24</td>
</tr>
<tr>
<td>Tmdl for the Jemez River Watershed</td>
<td>Escherichia Coli (E. coli), Nitrogen, Total, Phosphorus, Total</td>
<td>TMDL</td>
<td>2016-09-23</td>
</tr>
</tbody>
</table>
Administration

ATTAINS

How’s My Waterway

New Mexico is one of the driest states, averaging less than twenty inches of annual precipitation which ranges from less than eight inches in desert valleys to over thirty inches in the mountains. A little less than 7% of New Mexico’s streams and rivers are perennial, with the remaining 93% being intermittent or ephemeral. The vast majority of lake acreage in New Mexico has been artificially created by dams. New Mexico’s diverse surface waters collect rain water and snowmelt, recharge aquifers, provide important ecological and hydrological connections, support an amazing variety of wildlife and aquatic life, maintain drinking water resources, and also help promote agriculture by providing vital irrigation water. The New Mexico Environment Department Surface Water Quality Bureau prepares the Integrated Report which describes the water quality status of the state’s surface waters, as required by the Clean Water Act. The report provides an evaluation and summary of physical, chemical, and biological characteristics of surface waters related to human recreation, fish and wildlife, and other designated uses, and provides a basis for establishing effective water quality management policies and plans intended to preserve, protect, and improve New Mexico’s surface water quality for present and future generations. More information about New Mexico’s surface water quality can be found at: https://www.env.nm.gov/surface-water-quality/303d-305b/.
Administration

ATTAINS

How’s My Waterway
Administration

ATTAINS

How’s My Waterway

New Mexico by the Numbers

6,250
Assessed Rivers and Streams
miles

7,835
Total IR Categorized Rivers and Streams
miles
Surveys

ATTAINS

How’s My Waterway

State Statistical Survey - 2008

Survey Year: 2008
Survey Status: Final

Survey Water Type Groups

<table>
<thead>
<tr>
<th>Survey Water Group</th>
<th>Subpopulation</th>
<th>Size</th>
<th>Units</th>
<th>Number of Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>STREAM/CREEK/RIVER</td>
<td>Statewide</td>
<td>94000</td>
<td>Miles</td>
<td>51</td>
</tr>
</tbody>
</table>

Survey Water Group - Use Parameters

No Water Group Use Parameters
All Documents
No Documents

Overall water quality in Colorado Rivers and Streams for Aquatic Life Use

Population: Statewide (34,300 miles)

- Good: 54.7% ± 22.0%
- Fair: 25.3% ± 29.5%
- Poor: 19.9% ± 16.0%
- Missing: < 1% ± 1.3%

Survey confidence level: 95%

Stressors surveyed for Aquatic Life Use

- Alteration in Stream Side or Littoral Vegetative Cover
- Fine Sediment
- Loss of Instream Cover
- Nitrogen, Total
- Phosphorus, Total
- Riparian Buffer, Lack of
- Salinity

<table>
<thead>
<tr>
<th>Stressor</th>
<th>Good</th>
<th>Fair</th>
<th>Poor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alteration in Stream Side or Littoral Vegetative Cover</td>
<td>45.0%</td>
<td>45.0%</td>
<td>9.9%</td>
</tr>
<tr>
<td>Fine Sediment</td>
<td>59.6%</td>
<td>21.2%</td>
<td>19.2%</td>
</tr>
<tr>
<td>Loss of Instream Cover</td>
<td>84.3%</td>
<td>15.7%</td>
<td></td>
</tr>
<tr>
<td>Nitrogen, Total</td>
<td>41.0%</td>
<td>59.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>Phosphorus, Total</td>
<td>19.3%</td>
<td>80.6%</td>
<td>0.0%</td>
</tr>
<tr>
<td>Riparian Buffer, Lack of</td>
<td>71.3%</td>
<td>26.1%</td>
<td>2.6%</td>
</tr>
<tr>
<td>Salinity</td>
<td>79.2%</td>
<td>19.8%</td>
<td>1.0%</td>
</tr>
</tbody>
</table>
Additional References

Available from the ATTAINS public website, “Upload Data” tab (https://www.epa.gov/waterdata/attains)

• How to Register for ATTAINS
• How to Sign In to ATTAINS
• Roles and Permissions in ATTAINS
• EPA IR Categories and How ATTAINS Calculates Them
• How to Use ATTAINS Reports to Answer Questions
Data-Related Breakout Sessions
Next Week

• **Sessions Related to ATTAINS**
  • ATTAINS: A Training on Entering Actions (Session 6)
  • ATTAINS and How’s My Waterway: A Secret Sauce Training (Session 7)
  • Deeper Dive on Web Services (Session 8)

• **Other Data Management Sessions**
  • General Data Management Tips (Session 6)
  • How to Manage GIS Data (Session 6)
  • The Basics of Assessment (Session 7)
  • How Continuous Monitoring Data Are Being Used in Assessments (Session 7)
  • Water Quality Exchange (WQX) Ladders (Session 8)
  • Automation Tools in Support of Assessments: Data Harmonization (Session 8)
Questions?

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