Tools for Automated Data Assessment (TADA)

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Resources

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TADA Data Discovery & Cleaning

WQP Data Download

Some descriptions of how to use option 1 and 2. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Option 1: Retrieve Data from Water Quality Portal (WQP)

A. Query the WQP using the filter options below and then click the "Import WQP Data" button

- County
- Site Type
- Sample Media
- Date Range
- Organization ID
- Characteristic Group
- Characteristics
- Minimum sampling activities per site
- Minimum Results Per Site

B. Or upload a completed WQP template

- Drag file here or choose from folder

C. Or upload other data

- Drag file here or choose from folder

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Data Overview

Your query returned 125,000 results from 25 stations

- Provide counts for each Characteristic Name
- Provide counts for each Station
- Provide counts for each State/Province

After import, TADA automatically performed these cleaning steps:

- Nonduplicate data types
- Removed true duplicate data (9 records removed)
- Removed continuous data (0 records removed)
- Removed all columns with any NA values (0 records removed)
- Removed all data except those with the activity media water + Water

Data Filters

<table>
<thead>
<tr>
<th>Organization/Feature Name</th>
<th>Characteristic Name</th>
<th>Record Count</th>
<th>Record/Result Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>USGS Corvallis Water...</td>
<td>All specific</td>
<td>4,287</td>
<td>68,200</td>
</tr>
<tr>
<td>Colorado Dept. of Public...</td>
<td>All specific</td>
<td>833</td>
<td>1,343</td>
</tr>
<tr>
<td>Colorado River Watch...</td>
<td>All specific</td>
<td>115</td>
<td>17,199</td>
</tr>
<tr>
<td>National Park Service Vi...</td>
<td>All specific</td>
<td>334</td>
<td>92</td>
</tr>
<tr>
<td>EPA National Aquatic...</td>
<td>All specific</td>
<td>114</td>
<td>854</td>
</tr>
<tr>
<td>USGS non-meniscus river...</td>
<td>All specific</td>
<td>20</td>
<td>64</td>
</tr>
<tr>
<td>North American Lake...</td>
<td>All specific</td>
<td>4</td>
<td>6</td>
</tr>
</tbody>
</table>

Summary

- Total Records in Mass. Prior to 1997: 1
- Total Records in Mass. Prior to 2001: 1
- Total Sites Removed: 4
- Total Sites in Mass. Prior to 2001: 1

Site name: Site name goes here
Site number: 12345678
State: CO
Agency: Agency name goes here
Data source: Data source name goes here
Lat/Lon: -100.23456789
Magnitude: 0.1234

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Flagged Sites

<table>
<thead>
<tr>
<th>Function</th>
<th>Summary of flagged stations</th>
<th>Explanation</th>
<th>Remove</th>
</tr>
</thead>
<tbody>
<tr>
<td>InvalidLatLong</td>
<td>4</td>
<td>The location provided for a given station is invalid. Would you like to remove records with invalid lat/lon data?</td>
<td>Yes</td>
</tr>
<tr>
<td>UncommonLatLong</td>
<td>0</td>
<td>The location provided for a given station is uncommon. Would you like to remove records with uncommon lat/lon data?</td>
<td>Yes</td>
</tr>
<tr>
<td>Less32bitDecimal</td>
<td>3</td>
<td>The location provided for a given station is not of high resolution. Would you like to remove records with low resolution lat/lon data?</td>
<td>Yes</td>
</tr>
<tr>
<td>AutoGroup/Newly/Sites_PseudoStation</td>
<td>8</td>
<td>Would you like to create a pseudo site ID (exclude pseudo station ID format or not)? for stations that are within approx. 200 meters of each other? This will treat multiple stations as a single station.</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Apply Changes

Summary

- Total Records in Raw File: 544
- Total Records Removed: 44
- Total Records in Clean File: 496
- Total Sites in Raw File: 20
- Total Sites Removed: 4
- Total Sites in Clean File: 16

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Last Updated on December 8, 2022
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Flagged Sites

<table>
<thead>
<tr>
<th>Flagged Sites</th>
<th>Summary of Flagged Stations</th>
<th>Explanation</th>
<th>Remove?</th>
</tr>
</thead>
<tbody>
<tr>
<td>InaccurateLong</td>
<td>4</td>
<td>The location provided for a given station is invalid. Would you like to remove records with invalid lat/lon data?</td>
<td>No</td>
</tr>
<tr>
<td>UncommonLong</td>
<td>0</td>
<td>The location provided for a given station is uncommon. Would you like to remove records with uncommon lat/lon data?</td>
<td>No</td>
</tr>
<tr>
<td>Less30g/Decimal</td>
<td>5</td>
<td>The location provided for a given station is not of high resolution. Would you like to remove records with low resolution lat/lon data?</td>
<td>No</td>
</tr>
<tr>
<td>AutoGroup/Newly/ Sites_PseudoStation</td>
<td>0</td>
<td>Would you like to create a pseudo site ID (1 include pseudo station ID formatting here) for stations that are within 500 meters of each other? This will treat multiple stations as a single station.</td>
<td>No</td>
</tr>
</tbody>
</table>

Apply Changes

Summary

- Total Records in Raw File: 544
- Total Records Removed: 44
- Total Records in Clean File: 496
- Total Sites in Raw File: 10
- Total Sites Removed: 4
- Total Sites in Clean File: 16

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Flagged Sites

<table>
<thead>
<tr>
<th>Function</th>
<th>Summary of Flagged Stations</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invalid Lat/Long</td>
<td>4</td>
<td>The location provided for a given station is invalid. Would you like to remove records with invalid lat/lon data?</td>
</tr>
<tr>
<td>Unknown Lat/Long</td>
<td>0</td>
<td>The location provided for a given station is unknown. Would you like to remove records with unknown lat/lon data?</td>
</tr>
<tr>
<td>Less than 30&quot; Decimal</td>
<td>5</td>
<td>The location provided for a given station is not of high resolution. Would you like to remove records with low resolution lat/lon data?</td>
</tr>
<tr>
<td>AutoGroup/Newly Sites_PseudoID</td>
<td>0</td>
<td>Would you like to create a pseudo ID (10 character random ID) for stations that are within 0.5 miles of each other? This will treat multiple stations as a single station.</td>
</tr>
</tbody>
</table>

Apply Changes

Summary

- Total Records in Raw File: 544
- Total Records Removed: 44
- Total Records in Clean File: 496
- Total Sites in Raw File: 19
- Total Sites Removed: 4
- Total Sites in Clean File: 16

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### Flagged Results Data

#### Total Flagged Results Data: 120

<table>
<thead>
<tr>
<th>k-function</th>
<th>Summary of flagged results</th>
<th>Explanation</th>
<th>Removed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invalid_Operation</td>
<td>4 (list parameters)</td>
<td>The operation consisted for a given characteristic is not valid. Would you like an overview of invalid operation data?</td>
<td>No</td>
</tr>
<tr>
<td>Invalid_Fraction</td>
<td>3 (list parameters)</td>
<td>Remove invalid fraction data?</td>
<td>No</td>
</tr>
<tr>
<td>Invalid_Unit</td>
<td>5 (list parameters)</td>
<td>Remove data with invalid units for a given characteristic and media combination?</td>
<td>No</td>
</tr>
<tr>
<td>Remove_Data_Units_Unit</td>
<td>1 (list parameters)</td>
<td>Would you like to remove data not meeting unit requirements?</td>
<td>No</td>
</tr>
<tr>
<td>Uncommon_Analytical_Method</td>
<td>5 (list parameters)</td>
<td>Analytical method is uncommon. Remove records with uncommon methods?</td>
<td>No</td>
</tr>
<tr>
<td>QAPP_NonApproved</td>
<td>5 (list parameters)</td>
<td>Records that did not meet QAPP requirements. Would you like to remove records that were not approved?</td>
<td>No</td>
</tr>
<tr>
<td>DatasetIncludes_DepthProfileData</td>
<td>7 (list parameters)</td>
<td>Dataset includes depth profile data. Would you like to remove depth profile data?</td>
<td>No</td>
</tr>
<tr>
<td>DatasetIncludes_AggregateContinuousData</td>
<td>7 (list parameters)</td>
<td>Would you like to remove aggregate, high frequency, continuous data?</td>
<td>No</td>
</tr>
<tr>
<td>RemoveDuplicates_UniqueIdentifier</td>
<td>20 (list parameters)</td>
<td>Would you like to remove duplicate records?</td>
<td>No</td>
</tr>
<tr>
<td>PotentialDuplicates_UniqueIdentifier</td>
<td>6 (list parameters)</td>
<td>Would you like to remove potential duplicates?</td>
<td>No</td>
</tr>
<tr>
<td>ActivityName_Unknown</td>
<td>67 (list parameters)</td>
<td>Would you like to remove data for the media &quot;unknown&quot;?</td>
<td>No</td>
</tr>
<tr>
<td>Result_value_Below_InfluentThreshold</td>
<td>24 (list parameters)</td>
<td>Result value is below the influent threshold. Would you like to remove records that are below threshold?</td>
<td>No</td>
</tr>
<tr>
<td>Result_value_Overload_OverloadThreshold</td>
<td>1 (list parameters)</td>
<td>Result value is above the influent threshold. Would you like to remove records that are above threshold?</td>
<td>No</td>
</tr>
<tr>
<td>ConvertMultiples</td>
<td>Multiple units found (list parameters)</td>
<td>Would you like to convert to a standard unit?</td>
<td>No</td>
</tr>
</tbody>
</table>

#### Summary

- **KDE Points in NW MO**: 144
- **Total Records Removed**: 48
- **Total Records in Clean File**: 496
- **KDE Points in NW MO**: 20
- **Total Sites Removed**: 4
- **Total Sites in Clean File**: 28

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Last Updated: December 11, 2021
Filter Dataset

1. Choose field to filter by

<table>
<thead>
<tr>
<th>Field</th>
<th>Field Definition</th>
<th>Count</th>
<th>Progress</th>
</tr>
</thead>
<tbody>
<tr>
<td>Characteristic Name</td>
<td></td>
<td></td>
<td>Complete</td>
</tr>
<tr>
<td>Activity Comment Text</td>
<td></td>
<td></td>
<td>In progress</td>
</tr>
<tr>
<td>Activity Type Code</td>
<td></td>
<td></td>
<td>Incomplete</td>
</tr>
<tr>
<td>Activity Identifier User Supplied</td>
<td></td>
<td></td>
<td>Incomplete</td>
</tr>
<tr>
<td>Activity Media Name</td>
<td></td>
<td></td>
<td>Complete</td>
</tr>
</tbody>
</table>

2. Filter by Activity Comment Text

<table>
<thead>
<tr>
<th>Field Value</th>
<th>Count</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td>234</td>
<td></td>
</tr>
<tr>
<td>Visual Algae</td>
<td>152</td>
<td></td>
</tr>
<tr>
<td>Wendy Day</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

Summary

- Total Records in Raw File: 544
- Total Records removed: 44
- Total Records in Clean File: 496
- Total Sites in Raw File: 28
- Total Sites in Clean File: 16

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## Transformations

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<table>
<thead>
<tr>
<th>Parameter</th>
<th>Method/Method Name</th>
<th>Transform or Remove Char/Text</th>
<th>TADA Transformation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>Transform</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>Transform</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>Remove</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>Transform</td>
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<td></td>
</tr>
<tr>
<td>Water</td>
<td>Remove</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>Transform</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Summary

- Total Records in Raw File: 544
- Total Records Removed: 48
- Total Records in Clean File: 496

- Total Sites in Raw File: 20
- Total Sites Removed: 4
- Total Sites in Clean File: 16

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Total N and P Analysis

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- Accept recommended N and P transformations
- Use template for N and P transformations
  1. If available, use the total P or total N result for a given day, even if there are other constituents available.
  2. If total P or total N is not available, use the sum of multiple constituents available for the same day as a proxy for TN or TP. The combinations yielding total N are included in the template if you are interested in reviewing them.
  3. If only 1 constituent is available for a given day, use that as a proxy for total N or P.

Download Template for Total N and P Calculations  Upload Edited Template

Summary
- Total Records in Raw File: 544
- Total Records Removed: 48
- Total Records in Clean File: 496
- Total Sites in Raw File: 20
- Total Sites Removed: 4
- Total Sites in Clean File: 16

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Address Non-detections

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Accept global setting for non-detects

Lower limit non-detections: X
Upper limit non-detections: Set equal to the monitoring devices upper limit of detection

Summary

- Total Records in Raw File: 544
- Total Records in Clean File: 496
- Total Sites in Raw File: 20
- Total Sites Removed: 4
- Total Sites in Clean File: 16

Advanced/returning user - spreadsheet driven (parameter/percent non-detection/WQX non-detects metadata specific)

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Explore Results by Parameter & Station

**Parameter & Station**

**Time series by day of year**

**Station**

**Display Station Map**

**Upper Threshold**

**Lower Threshold**

**Year range**

**Health range**

**Color scale**

**Download Chart**

**Download Data**

**Summary Statistics**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Fraction</th>
<th>Speciation</th>
<th>Unit</th>
<th>Site</th>
<th>Mean</th>
<th>Min</th>
<th>Max</th>
<th>Std</th>
<th>$10$</th>
<th>$15$</th>
<th>$20$</th>
<th>$50$ (median)</th>
<th>$75$</th>
<th>$90$</th>
<th>$95$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Sites in Raw File 544</td>
<td>Total Sites Removed 40</td>
<td>Total Sites in Clean File 406</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

**Summary**

- Total Sites in Raw File 544
- Total Sites Removed 40
- Total Sites in Clean File 406

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Output

<table>
<thead>
<tr>
<th>Col 1</th>
<th>Col 2</th>
<th>Col 3</th>
<th>Col 4</th>
<th>Col 5</th>
<th>Col 6</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

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Download All Data Files

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