

## Tools for Automated Data Assessment (TADA)



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### Resources

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# TADA Data Discovery & Cleaning

## Import Data

### WQP Data Download

#### Data Overview

## 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

Country <sup>1</sup> <input type="text"/>	Site Type <sup>1</sup> <input type="text"/>	Sample Media <sup>1</sup> <input type="text"/>	Date Range <sup>1</sup> Dates should be entered as mm-dd-yyyy, mm-yyyy, or yyyy from: <input type="text"/>
State <sup>1</sup> <input type="text"/>	Organization ID <sup>1</sup> <input type="text"/>	Characteristic Group <sup>1</sup> <input type="text"/>	to: <input type="text"/>
County <sup>1</sup> <input type="text"/>	Site ID <sup>1</sup> <input type="text"/>	Characteristics <sup>1</sup> <input type="text"/>	Minimum Sampling Activities Per Site <sup>1</sup> <input type="text"/>
	HUC <sup>1</sup> <input type="text"/>	Project ID <sup>1</sup> <input type="text"/>	Minimum Results Per Site <sup>1</sup> <input type="text"/>

**Import WQP Data**

#### B. OR Upload a Completed WQP Template

Drag file here or [choose from folder](#)

Upload

### Option 2: Upload Other Data

Do you have data to upload already?

[Download Blank TADA Profile Import Data Template](#) ↓

Drag file here or [choose from folder](#)

Upload

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# Data Discovery & Cleaning

Import Data | Address Flagged Sites & Results | Filter Dataset | Apply Transformations | Address Non-detections | Address Outliers | Explore Results by Parameter & Station | Download Outputs

- Import Data
- WQP Data Download
- Data Overview

## Data Overview

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### Your query returned 125,000 results from 25 stations

- Provide counts for each Characteristic Name
- Provide counts for each Station
- Provide counts for each Data Provider

### After import, TADA automatically performed these cleaning steps:

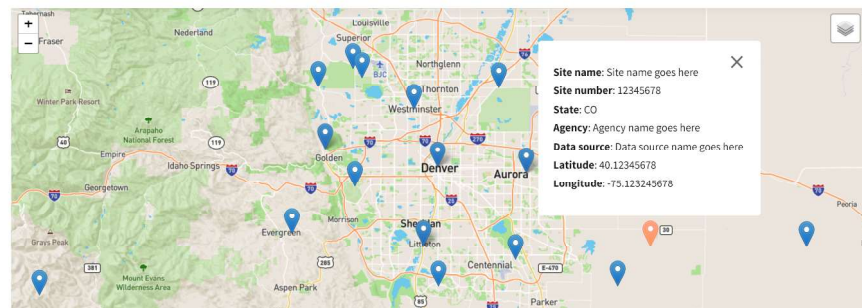
- Corrected data types
- Removed true duplicate data (x records removed)
- Removed continuous data (x records removed)
- Removed all columns with only NA values (x records removed)
- Removed all data except those with the activity media water=Water

## Data Filters

OrganizationFormalName	Record Count	CountOfResult MeasureValue	OrganizationFormalName	CharacteristicName	Record Count	CountOfResult MeasureValue
USGS Colorado Water Sc...	4,387	40,570	All; specific	pH	199	2,278
Colorado Dept. of Public...	863	7,343	All; specific	Specific conductance	185	4,837
Colorado River Watch	515	17,579	All; specific	Calcium	177	1,333
National Park Service W...	134	92	All; specific	Magnesium	176	1,339
EPA National Aquatic Re...	114	854	All; specific	Hardness, Ca, Mg	173	1,690
USGS New Mexico Water...	38	42	All; specific	Sulfate	172	813
North American Lake Ma...	4	6	All; specific	Temperature, water	169	3,964
				Sodium	167	1,021

1-7/7 < Previous Next >

1-100/312 < Previous Next >



### Summary

- Total Records in Raw File: 544
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- 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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# Data Discovery & Cleaning

Import Data | **Address Flagged Sites & Results** | Filter Dataset | Apply Transformations | Address Non-detections | Address Outliers | Explore Results by Parameter & Station | Download Outputs

## Address Flagged Sites & Results

Flagged Sites

Flagged Results Data

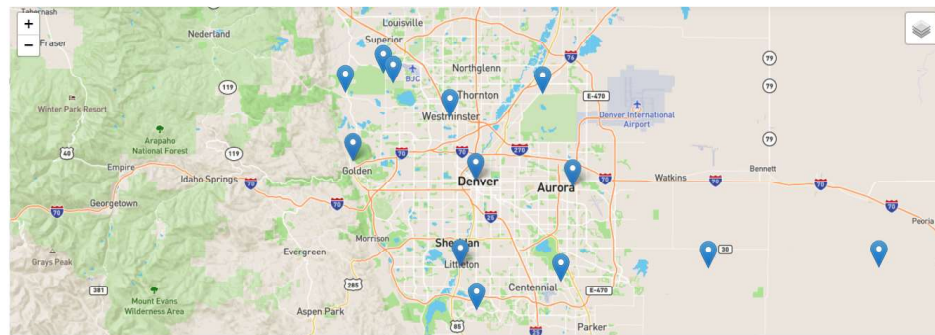
## Flagged Sites

Review list of stations with relevant metadata & group nearby stations if needed. 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.

Total Flagged Sites: 17

R Function	Summary of flagged stations	Explanation	Remove?
InvalidLatLong	4	The lat/lon provided for a given station is not valid. Would you like to remove records with invalid lat lon data?	No <input type="checkbox"/> Yes <input type="checkbox"/>
UncommonLatLong	0	The lat/lon provided for a given station is uncommon. Would you like to remove records with uncommon lat lon data?	No <input type="checkbox"/> Yes <input type="checkbox"/>
Less3DigitDecimal	5	The lat/lon provided for a given station is not of high resolution. Would you like to remove records with low resolution lat lon data?	No <input type="checkbox"/> Yes <input type="checkbox"/>
AutoGroupNearbySites_PseudoSiteID	8	Would you like to create a pseudo site ID (include pseudo station ID formatting here) for stations that are within approximately 100 meters of each other? This will treat multiple stations as a single station.	No <input type="checkbox"/> Yes <input type="checkbox"/>

Apply Changes



### Summary

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## Address Flagged Sites & Results

Flagged Sites

Flagged Results Data

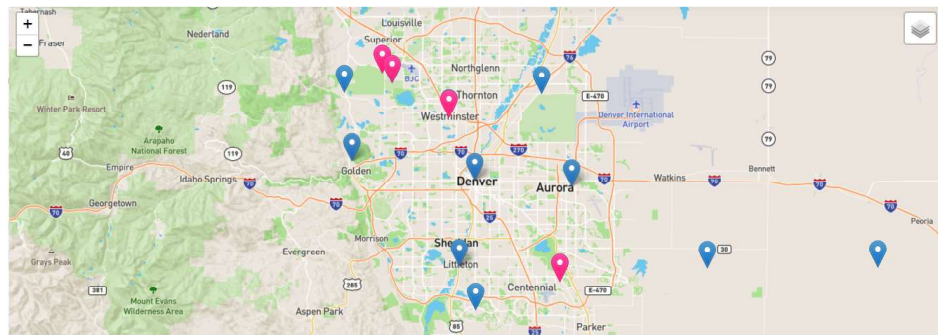
## Flagged Sites

Review list of stations with relevant metadata & group nearby stations if needed. 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.

Total Flagged Sites: 17

R Function	Summary of flagged stations	Explanation	Remove?
InvalidLatLong	4	The lat/lon provided for a given station is not valid. Would you like to remove records with invalid lat lon data?	No <input type="checkbox"/> Yes <input type="checkbox"/>
UncommonLatLong	0	The lat/lon provided for a given station is uncommon. Would you like to remove records with uncommon lat lon data?	No <input type="checkbox"/> Yes <input type="checkbox"/>
Less3DigitDecimal	5	The lat/lon provided for a given station is not of high resolution. Would you like to remove records with low resolution lat lon data?	No <input type="checkbox"/> Yes <input type="checkbox"/>
AutoGroupNearbySites_PseudoSiteID	8	Would you like to create a pseudo site ID (include pseudo station ID formatting here) for stations that are within approximately 100 meters of each other? This will treat multiple stations as a single station.	No <input type="checkbox"/> Yes <input type="checkbox"/>

Apply Changes



### Summary

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Address Flagged Sites & Results

Flagged Sites

Flagged Results Data

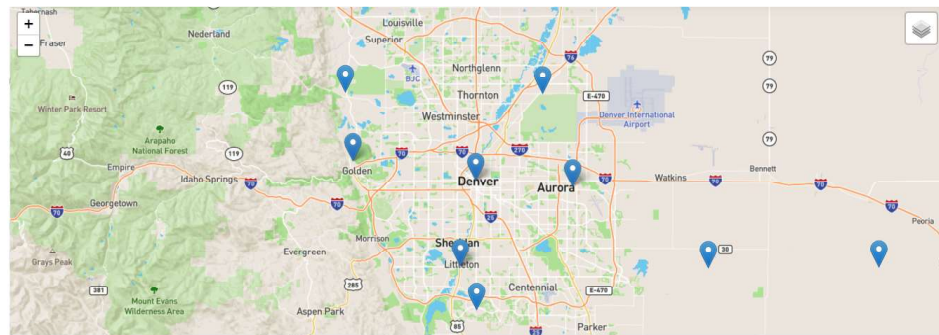
## Flagged Sites

Review list of stations with relevant metadata & group nearby stations if needed. 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.

Total Flagged Sites: 17

R Function	Summary of flagged stations	Explanation	Remove?
InvalidLatLong	4	The lat/lon provided for a given station is not valid. Would you like to remove records with invalid lat lon data?	No <input checked="" type="checkbox"/> Yes
UncommonLatLong	0	The lat/lon provided for a given station is uncommon. Would you like to remove records with uncommon lat lon data?	No <input type="checkbox"/> Yes
Less3DigitDecimal	5	The lat/lon provided for a given station is not of high resolution. Would you like to remove records with low resolution lat lon data?	No <input type="checkbox"/> Yes
AutoGroupNearbySites_PseudoSiteID	8	Would you like to create a pseudo site ID (include pseudo station ID formatting here) for stations that are within approximately 100 meters of each other? This will treat multiple stations as a single station.	No <input type="checkbox"/> Yes

Apply Changes



**Summary**

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Import Data | **Address Flagged Sites & Results** | Filter Dataset | Apply Transformations | Address Non-detections | Address Outliers | Explore Results by Parameter & Station | Download Outputs

## Address Flagged Sites & Results

- Flagged Sites
- Flagged Results Data**

## Flagged Results Data

Review all flagged results and adjust automatic removal if needed. 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.

Total Flagged Results Data: 120

R Function	Summary of flagged results	Explanation	Remove?
Invalid_Speciation	4 (list parameters)	The speciation provided for a given characteristic is not valid. Would you like to remove invalid speciation data?	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>
Invalid_Fraction	3 (list parameters)	Remove invalid fraction data?	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>
Invalid_Unit	5 (list parameters)	Remove data with invalid units for a given characteristic and media combination?	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>
Invalid_ResultValue_Special_Characters	7 (list parameters)	Result values include special characteristics. Remove?	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>
Uncommon_Analytical_Method	5 (list parameters)	Analytical method is uncommon. Remove records with uncommon methods?	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>
QAPP_NOTApproved	5 were not approved by X organizations (list organizations that did not approve here?)	Remove data if QAPP was not approved	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>
QAPP_Doc_Missing	7 (list parameters)	Remove data if QAPP doc is missing	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>
DatasetIncludes_DepthProfileData	True, 5 different parameters across 3 stations. Specific parameters include: DO, pH, and T	Would you like to remove depth profile data?	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>
DatasetIncludes_AggregatedContinuousData	True, 30 records across 2 stations (list site names and parameters)	Would you like to remove aggregate, high frequency, continuous, sensor data?	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>
TrueDuplicates_UniqueRowIdentifier	20 (list parameters)	Would you like to remove true duplicates?	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>
PotentialDuplicates_UniqueRowIdentifier	6 (list parameters)	Data are potential duplicates, but our confidence is not 100%. Would you like to remove potential duplicates? (maybe include link to read more?)	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>
ActivityMediaName_NOTWATER	67 (list parameters)	Remove all sample data that is not for the media "water"	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>
Result_Value_Below_WQXLowerThreshold	24 for x parameters (list parameters)	Result value is outside of the national lower range for a given parameter. Remove?	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>
Result_Value_Exceeds_WQXUpperThreshold	7 for x parameters (list parameters)	Result value is outside of the national upper range for a given parameter. Remove?	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>
ConvertDepthHeightUnits	Multiple units found (list parameters)	Would you like to convert to ft or m?	Meters <input type="button" value="v"/>
Convert_MultipleTimeZones	Multiple end time zones were found. (list site name)	Would you like to convert to a standard time zone?	EST <input type="button" value="v"/>

**Apply Changes**

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Filter Dataset

## Filter Dataset

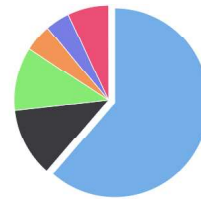
Description goes here. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate 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.

### 1. Choose field to filter by

Field	Field Definition	Count	Progress
Characteristic Name			In progress
Activity Comment Text			Complete
Activity Type Code			Incomplete
Activity Identifier User Supplied			Incomplete
Activity Media Name			Complete

### 2. Filter by Characteristic Name

Field Value	Field Value Definition	Count	Action
TDS	Total dissolved solids	234	<input type="checkbox"/> <input type="checkbox"/>
Temp	Water T	152	<input type="checkbox"/> <input type="checkbox"/>
DO	Dissolved oxygen	83	<input type="checkbox"/> <input type="checkbox"/>
pH	Acidity	75	<input type="checkbox"/> <input type="checkbox"/>
E coli	Bacteria	30	<input type="checkbox"/> <input type="checkbox"/>



### 3. Filter within Temp

Field	Count	Action
<input checked="" type="radio"/> Activity Comment Text		
NA	15	<input type="checkbox"/>
Visual Algae	22	<input type="checkbox"/>
Windy Day	35	<input type="checkbox"/>
<input type="radio"/> Activity Type Code		
<input type="radio"/> Activity Identifier User Supplied		
<input type="radio"/> Activity Media Name		
<input type="radio"/> Activity Media Subdivision Name		

Restart

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Filter Dataset




## Filter Dataset

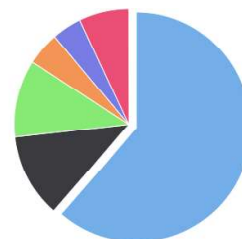
Description goes here. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate 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.

### 1. Choose field to filter by

Field	Field Definition	Count	Progress
Characteristic Name			Complete
Activity Comment Text			In progress
Activity Type Code			Incomplete
Activity Identifier User Supplied			Incomplete
Activity Media Name			Complete

### 2. Filter by Activity Comment Text

Field Value	Count	Action
NA	234	
Visual Algae	152	
Windy Day	83	



Restart

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## Apply Transformations

### Transformations

Total N and P Analysis

## Transformations

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ActivityMediaName	ResultAnalytical Method/Method Name	SampleCollectionMethod/MethodName	Transform or Remove Char /Frac/Spec Combo	UniqueComboID	CharacteristicName/ TADA Transformation	ResultSampleFraction Text / TADA Transformation
Water			Transform			
Water			Transform			
Water			Transform			
Water			Remove			
Water			Transform			
Water			Remove			
Water			Transform			
Water			Transform			
Water			Remove			

Apply Changes

**Summary**

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## Apply Transformations

[Transformations](#)

**[Total N and P Analysis](#)**

## 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](#) ↓

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### Summary

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- Filter Dataset
- Apply Transformations
- Address Non-detections**
- Address Outliers
- Explore Results by Parameter & Station
- Download Outputs

## Address Non-detections

### Address Non-detections

Description goes here. 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.

#### Accept global setting for non-detects

##### Lower limit non-detections

Substitute non-detects with X times the sample's detection limit

X

##### Upper limit non-detections

Set equal to the monitoring devices upper limit of detection

SUMMARY TABLE

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

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#### Summary

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# Data Discovery & Cleaning

Address Outliers

## Address Outliers

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Parameter

- Select
- DO Reviewed
- TP
- Temperature
- Turbidity Reviewed
- pH Reviewed
- Chloride

Station

Select

HISTOGRAM

INTERQUARTILE RANGE WITH OUTLIERS

### Statistical Outliers

Select	Parameter	Value
<input checked="" type="checkbox"/>		
<input checked="" type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		
<input type="checkbox"/>		

[Select All](#)
Remove Selected Outliers ↓

### Removed Outliers

Select	Parameter
<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	

[Select All](#)
Add Back ↑

### Summary

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Import Data | Address Flagged Sites & Results | Filter Dataset | Apply Transformations | Address Non-detections | Address Outliers | **Explore Results by Parameter & Station** | Download Outputs

Explore Results by Parameter & Station

## Explore Results by Parameter & Station

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Figure Type:  Time series

Station:  All; specific [Display Station Map](#)

Parameter 1:  Select

Parameter 2:  Select (Optional)

Parameter 3:  Select (Optional)

Upper Threshold:

Lower Threshold:

Year range: 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021

Month range: 1 2 3 4 5 6 7 8 9 10 11 12

[Download Chart](#) [Download Data](#)

Parameter:  All; specific

Station:  All; specific

### Summary Statistics

Unique Combination (Char, Fractions, Speciation, Unit)					Descriptive Statistics				Percentage of samples in which values were less than or equal to those shown							Proportion nondetects & types/methods used?		
Characteristic	Fraction	Speciation	Unit	Site	Mean	Min	Max	Stdev	5	10	15	25	50(median)	75	85		95	n

**Summary**

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# Data Discovery & Cleaning

Import Data

Address Flagged Sites & Results

Filter Dataset

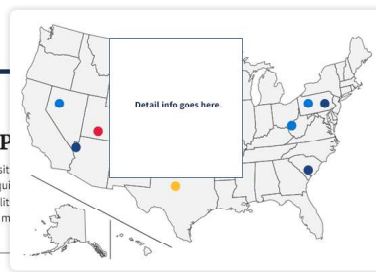
Explore Results by Parameter & Station

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Explore Results by Parameter & Station

## Explore Results by P

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Figure Type

Time series

Station

All; specific

[Display Station Map](#)

Parameter 1

Select

Parameter 2

Select (Optional)

Parameter 3

Select (Optional)

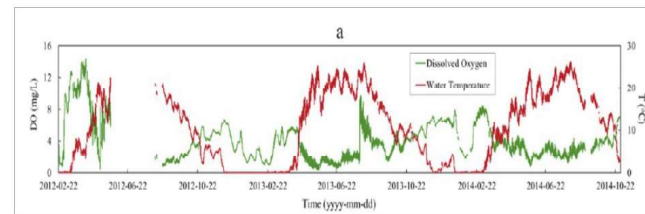
Upper Threshold

Lower Threshold

Year range:



Month range:



Download Chart

Download Data

Parameter

All; specific

Station

All; specific

### Summary Statistics

Unique Combination (Char, Fractions, Speciation, Unit)					Descriptive Statistics				Percentage of samples in which values were less than or equal to those shown					Proportion nondetects & types/ methods used?				
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Explore Results by Parameter & Station

### Explore Results by Parameter & Station

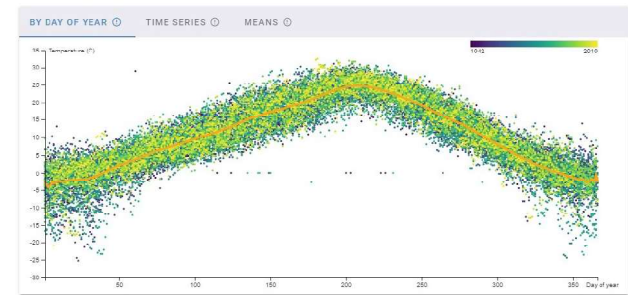
Description goes here. Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate 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.

Figure Type **●** Station **●** [Display Station Map](#)  
 Time series by day of year ▾ All; specific ▾

Parameter 1 **●**  
 Select ▾

Upper Threshold  Lower Threshold

Year range:  2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021  
 Month range:  1 2 3 4 5 6 7 8 9 10 11 12



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Parameter **●** Station **●**  
 All; specific ▾ All; specific ▾

#### Summary Statistics

Unique Combination (Char, Fractions, Speciation, Unit)					Descriptive Statistics				Percentage of samples in which values were less than or equal to those shown								Proportion nondetects & types/methods used?	
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Figure Type:  Depth Profile

Station:  All; specific [Display Station Map](#)

Parameter 1:  Select

Parameter 2:  Select (Optional)

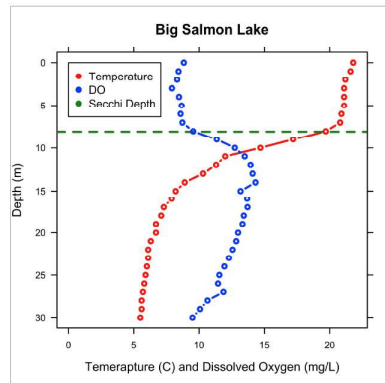
Parameter 3:  Select (Optional)

Upper Threshold:

Lower Threshold:

Year range:  -

Month range:  -



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Parameter:  All; specific

Station:  All; specific

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