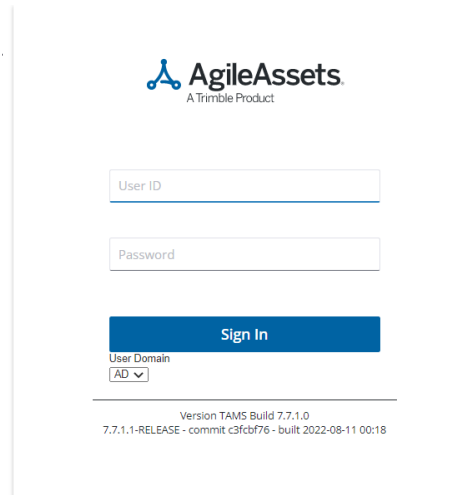


TAMS – HydInfra Inventory and Inspections

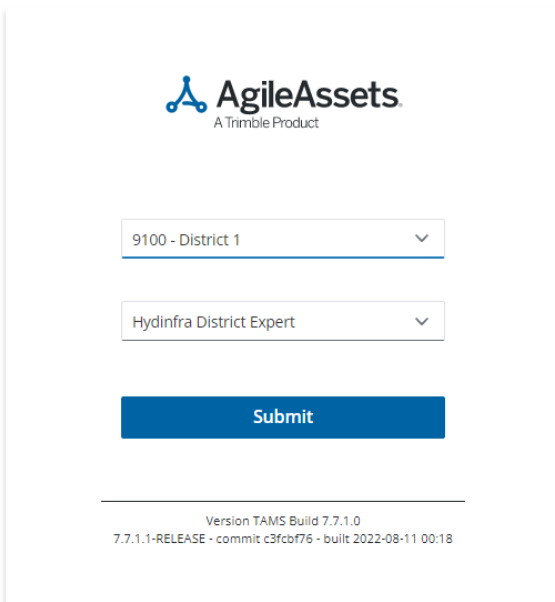
To Access TAMS

1. Log into TAMS either [internally](#) or at <https://tamsp.dot.state.mn.us>
 - a. Note: If logging in externally you will have to enter your MnDOT Username and Password before you will see the window in step 2



The image shows the AgileAssets login interface. At the top is the AgileAssets logo with the text "A Trimble Product". Below the logo are two input fields: "User ID" and "Password". A blue "Sign In" button is positioned below the password field. Underneath the button is a "User Domain" dropdown menu currently set to "AD". At the bottom of the form, there is a version string: "Version TAMS Build 7.7.1.0 7.7.1.1-RELEASE - commit c3fcb76 - built 2022-08-11 00:18".

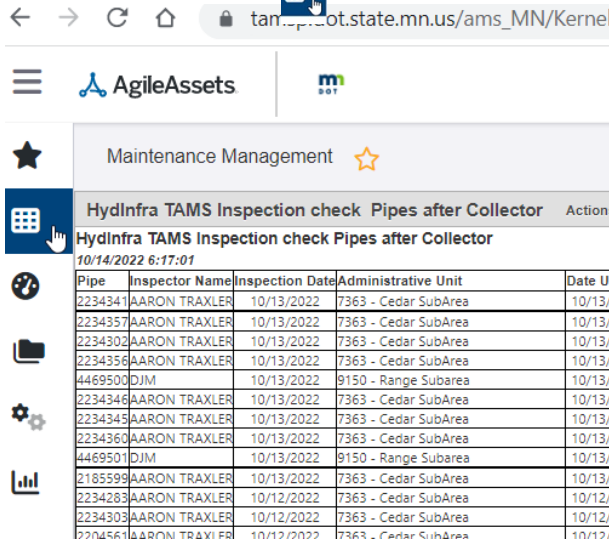
2. Pick your District and not a subarea



The image shows the AgileAssets district selection interface. At the top is the AgileAssets logo with the text "A Trimble Product". Below the logo are two dropdown menus. The first dropdown menu is set to "9100 - District 1". The second dropdown menu is set to "Hydinfra District Expert". A blue "Submit" button is positioned below the second dropdown menu. At the bottom of the form, there is a version string: "Version TAMS Build 7.7.1.0 7.7.1.1-RELEASE - commit c3fcb76 - built 2022-08-11 00:18".

Pipe Inventory and Inspection

1. Click on the inventory  button on the left-hand side



tan...ot.state.mn.us/ams_MN/Kernel

AgileAssets

Maintenance Management

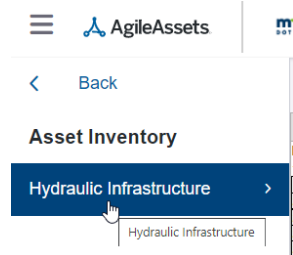
HydInfra TAMS Inspection check Pipes after Collector

HydInfra TAMS Inspection check Pipes after Collector

10/14/2022 6:17:01

Pipe	Inspector Name	Inspection Date	Administrative Unit	Date U
2234341	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
2234357	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
2234302	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
2234356	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
4469500	DJM	10/13/2022	9150 - Range Subarea	10/13/
2234346	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
2234345	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
2234360	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
4469501	DJM	10/13/2022	9150 - Range Subarea	10/13/
2185599	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
2234283	AARON TRAXLER	10/12/2022	7363 - Cedar SubArea	10/12/
2234303	AARON TRAXLER	10/12/2022	7363 - Cedar SubArea	10/12/
2234561	AARON TRAXLER	10/12/2022	7363 - Cedar SubArea	10/12/

2. Click on Hydraulic Infrastructure



AgileAssets

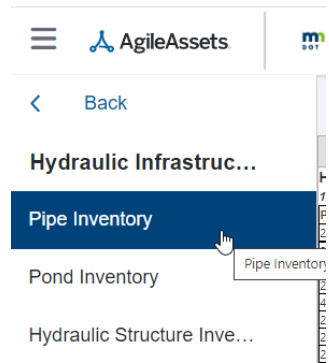
Back

Asset Inventory

Hydraulic Infrastructure

Hydraulic Infrastructure

3. Then click on Pipe Inventory



AgileAssets

Back

Hydraulic Infrastruc...

Pipe Inventory

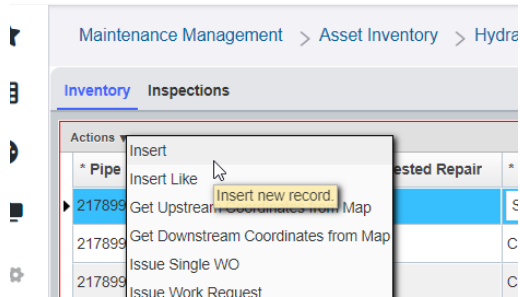
Pond Inventory

Hydraulic Structure Inve...

Pipe Inventon

To Insert a New Pipe

1. Click on Actions then Insert



2. Go through and fill out:

- a. Status
- b. Class Code
- c. Roadway Type
- d. Current Pipe Shape
- e. Current Inside Material
- f. Current Inside Width
- g. Current Inside Height
- h. Total Length
- i. Pipe Ties
- j. Comments (if needed)

3. To record location:

- a. Right Click on Upstream Longitude and 'Select Get Upstream Coordinates from Map'

The screenshot shows a table with columns: 'Upstream Longitude', 'Upstream Latitude', and 'Downstream...'. The first row contains values: -92.86922124, 47.81164854. A context menu is open over the first row's 'Upstream Longitude' cell, showing options: 'Insert', 'Insert Like', 'Get Upstream Coordinates from Map', 'Get Downstream Coordinates from Map', 'Issue Single WO', and 'Issue Work Request'. The 'Get Upstream Coordinates from Map' option is highlighted.

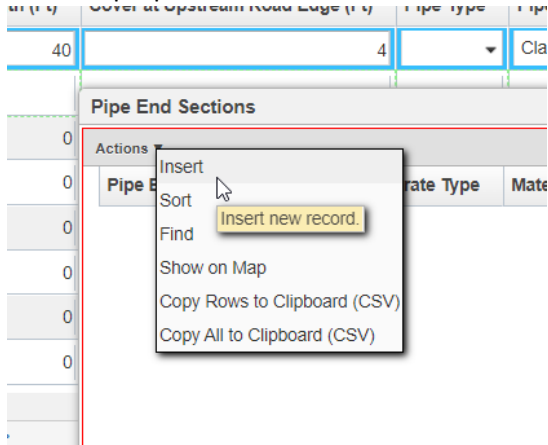
Upstream Longitude	Upstream Latitude	Downstream...
-92.86922124	47.81164854	
-92.404...		
-92.404...		
-93.422...		
-92.433...		

- b. Then click on the map where the upstream side of the pipe is
- c. Repeat for Downstream Longitude and Select 'Get Downstream Coordinates from Map'
- d. Then click on the map where the downstream side of the pipe is
- e. Scroll over in pipe table and select 'Hand Drawn' for both Upstream X-Y Source and Downstream X-Y Source

4. Click 'Save' and then 'Reload' in the upper right-hand side to see your Pipe

To Record End Sections

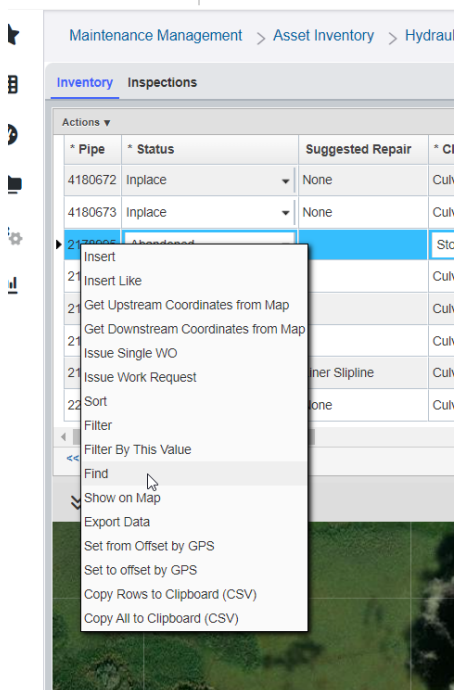
1. After pipe is saved and reloaded, scroll over to End Sections and Click the [0](#) to get the Pipe End Sections Pop Up window
2. In the Pop Up Window – Click on Actions and Insert



3. Go through and fill out
 - a. Pipe End
 - b. End Section Type
 - c. Grate Type
 - d. Material Type
 - e. Comments
4. Repeat for second end section if needed
5. Click OK in the bottom right to save

To Record a New Inspection

1. In the pipe inventory window Right Click on any pipe ID and select 'Find'



- The 'Find' pop up will appear – Enter in the pipe ID you are looking for and click 'Find'

Find

Pipe
LIKE

2211085

Match Case
 Exact Match

Direction
 Up
 Down

Find Close

- The pipe in question will become highlighted blue. Click on the Inspections tab to see the inspections for that pipe
- Highlight the last inspection by click on it
- Click on Actions and select 'Insert Like'

Maintenance Management > Asset Inventory > Hydraulic Infrastructure > Pipe Inventory ☆

Inventory Inspections

Inspection Elements	Actions	Inspection Date	Inspector Name	Overall Condition
2179184	Pipe	6/9/2022	Fred1card	3 - Poor
2179184	Pipe	9/13/2016	RC	2 - Fair
2179184	Pipe	5/3/2016	Eric Gulbrandson	2 - Fair
2179184	Pipe	6/11/2014	JN	2 - Fair
2179184	Pipe	12/14/2011	Scott Pass	2 - Fair
2179184	Pipe	7/22/2010	KU	2 - Fair

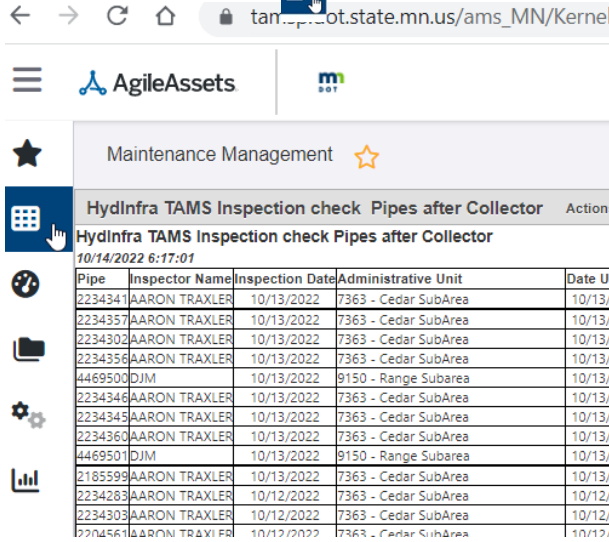
Insert
Insert Like
Sort
Filter By This Value
Filter
Find
Export Data
Copy Rows to Clipboard (CSV)
Copy All to Clipboard (CSV)

Insert new record which is like the record which was right-clicked to bring up menu

- Go through and fill out
 - Inspection Date
 - Inspector Name
- Change the field values to reflect what you saw
- Click Save in the upper right corner after changes have been made
- Click the Inventory tab to return to pipe inventory and find another pipe if needed

Hydraulic Structures Inventory and Inspection

1. Click on the inventory  button on the left-hand side



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AgileAssets

Maintenance Management

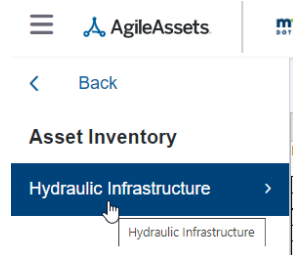
HydInfra TAMS Inspection check Pipes after Collector

HydInfra TAMS Inspection check Pipes after Collector

10/14/2022 6:17:01

Pipe	Inspector Name	Inspection Date	Administrative Unit	Date U
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2234357	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
2234302	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
2234356	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
4469500	DJM	10/13/2022	9150 - Range Subarea	10/13/
2234346	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
2234345	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
2234360	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
4469501	DJM	10/13/2022	9150 - Range Subarea	10/13/
2185599	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
2234283	AARON TRAXLER	10/12/2022	7363 - Cedar SubArea	10/12/
2234303	AARON TRAXLER	10/12/2022	7363 - Cedar SubArea	10/12/
2234561	AARON TRAXLER	10/12/2022	7363 - Cedar SubArea	10/12/

2. Click on Hydraulic Infrastructure



AgileAssets

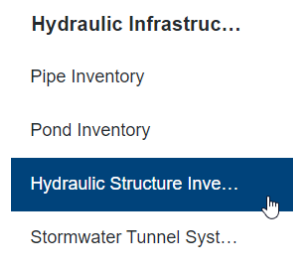
Back

Asset Inventory

Hydraulic Infrastructure

Hydraulic Infrastructure

3. Then click on Hydraulic Structures Inventory



Hydraulic Infrastruc...

Pipe Inventory

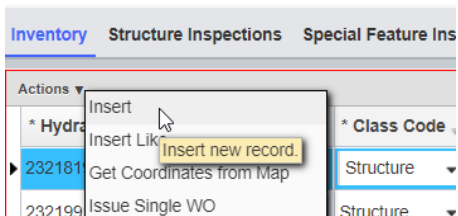
Pond Inventory

Hydraulic Structure Inve...

Stormwater Tunnel Syst...

To Insert a New Hydraulic Structure

1. Click on Actions then Insert



Inventory Structure Inspections Special Feature Ins

Actions

Insert

* Hydra

Insert Lik

232181 Get Coordinates from Map

232199 Issue Single WO

* Class Code

Structure

Structure

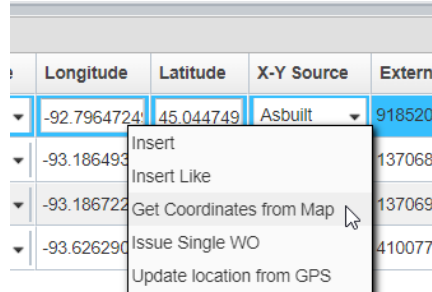
Insert new record.

2. Go through and fill out:

- a. Status
- b. Class Code
- c. Structure Type
- d. Roadway Type
- e. Material Type
- f. Structure Height
- g. # Connected Pipes
- h. Ring Material
- i. Comments (if needed)

3. To record location:

- a. Right Click on Longitude and 'Select Get Coordinates from Map'



	Longitude	Latitude	X-Y Source	Extern
▼	-92.7964724	45.044749	Asbuilt	918520
▼	-93.186493			137068
▼	-93.186722			137069
▼	-93.626290			410077

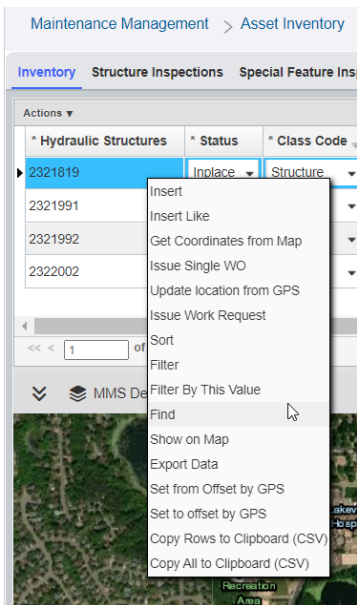
The screenshot shows a table with columns: Longitude, Latitude, X-Y Source, and Extern. A context menu is open over the first row's Longitude cell, listing options: Insert, Insert Like, Get Coordinates from Map (highlighted), Issue Single WO, and Update location from GPS.

- b. Then click on the map where the structure is
- c. Scroll over in the table and select 'Hand Drawn' for X-Y Source

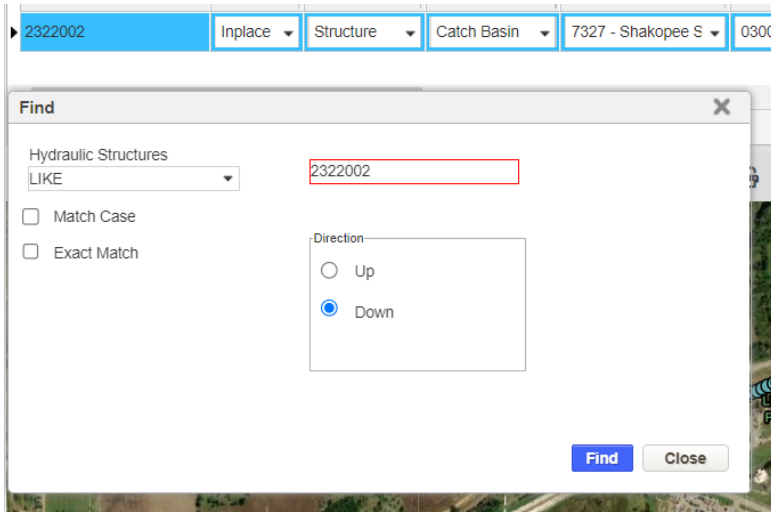
4. Click 'Save' and then 'Reload' in the upper right-hand side to see your Structure

To Record a New Hydraulic Structure Inspection

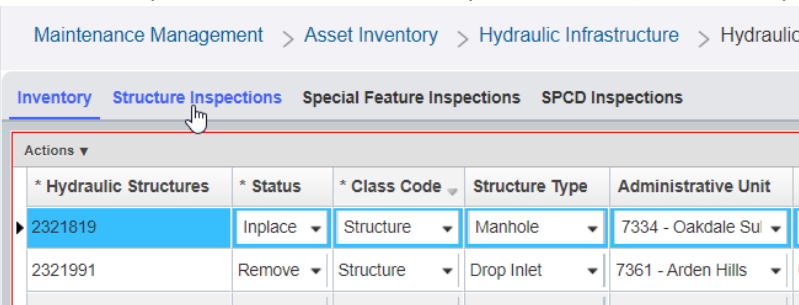
- 1. In the hydraulic structures inventory window, Right Click on any hydraulic structure ID, and select 'Find'



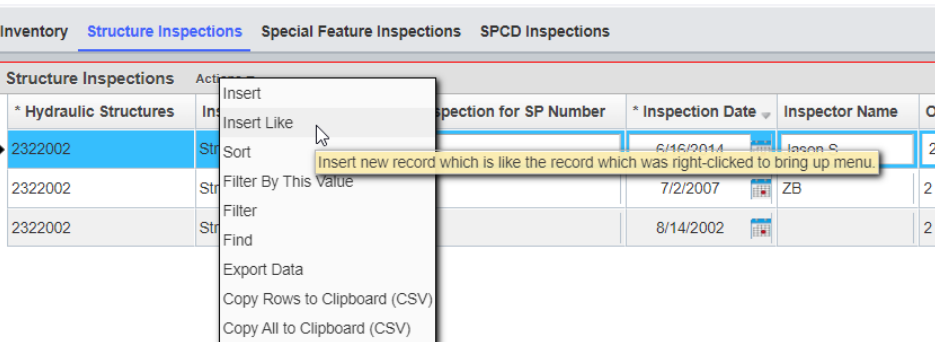
- The 'Find' pop up will appear – Enter in the hydraulic structure ID you are looking for and click 'Find'



- The hydraulic structure in question will become highlighted blue. Click on the Inspections tab which corresponds to the class code of your features (Structure, Special Feature, Or SPCD).



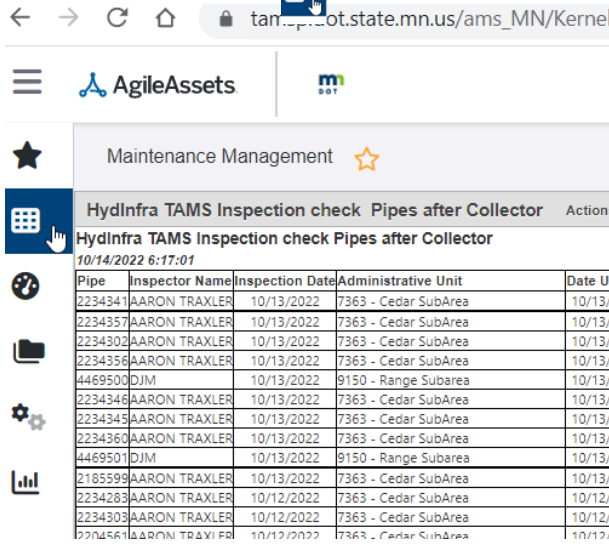
- Highlight the last inspection by click on it
- Click on Actions and select 'Insert Like'



- Go through and fill out
 - Inspection Date
 - Inspector Name
- Update the field values to reflect what you saw
- Click Save in the upper right corner after changes have been made
- Click the Inventory tab to return to the hydraulic structure inventory and find another hydraulic structure if needed

Pond Inventory and Inspection

1. Click on the inventory  button on the left-hand side



tan...ot.state.mn.us/ams_MN/Kernel

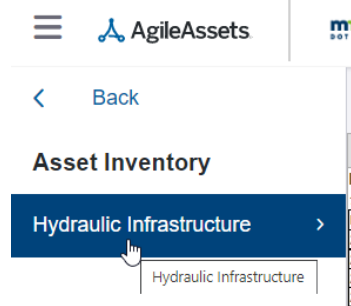
Maintenance Management

HydInfra TAMS Inspection check Pipes after Collector

HydInfra TAMS Inspection check Pipes after Collector
10/14/2022 6:17:01

Pipe	Inspector Name	Inspection Date	Administrative Unit	Date U
2234341	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
2234357	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
2234302	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
2234356	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
4469500	DJM	10/13/2022	9150 - Range Subarea	10/13/
2234346	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
2234345	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
2234360	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
4469501	DJM	10/13/2022	9150 - Range Subarea	10/13/
2185599	AARON TRAXLER	10/13/2022	7363 - Cedar SubArea	10/13/
2234283	AARON TRAXLER	10/12/2022	7363 - Cedar SubArea	10/12/
2234303	AARON TRAXLER	10/12/2022	7363 - Cedar SubArea	10/12/
2234561	AARON TRAXLER	10/12/2022	7363 - Cedar SubArea	10/12/

2. Click on Hydraulic Infrastructure



AgileAssets

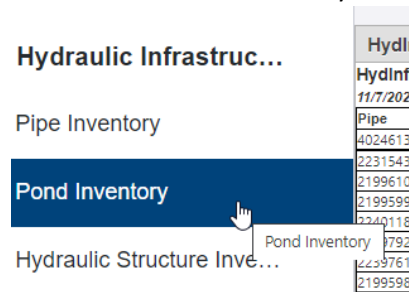
Back

Asset Inventory

Hydraulic Infrastructure

Hydraulic Infrastructure

3. Then click on Pond Inventory



Hydraulic Infrastruc...

HydInf

11/7/202

Pipe

4024613

2231543

2199610

2199599

2240118

Pond Inventory 1792

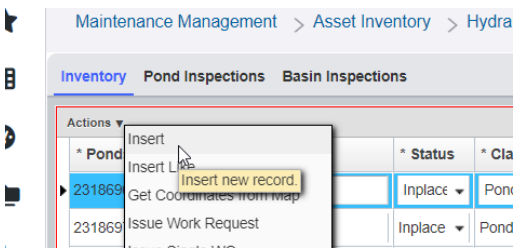
Hydraulic Structure Inve...

2239761

2199598

To Insert a New Pond

1. Click on Actions then Insert



Maintenance Management > Asset Inventory > Hydra

Inventory Pond Inspections Basin Inspections

Actions

* Pond

Insert

Insert L...

231869 Get Coordinates from map

231869 Issue Work Request

* Status * Cla

Inplace Pond

Inplace Pond

2. Go through and fill out:
 - a. Local Name (this is the name of the pond or basin on the plan)
 - b. Status
 - c. Class Code
 - d. Roadway Type
 - e. Pond/Basin Type
 - f. Any other information if known
 - g. Comments (if needed)
3. To record location:
 - a. Right Click on Longitude and 'Select Get Coordinates from Map'

	Longitude	Latitude	X-Y Source	Extern
▼	-92.7964724	45.044749	Asbuilt	918520
▼	-93.186493			137068
▼	-93.186723			137069
▼	-93.626290			410077

- b. Then click on the map where the center of the pond is (A large circle will be auto created which can be edited in field)
 - c. Scroll over in the table and select 'Hand Drawn' for X-Y Source
4. Click 'Save' and then 'Reload' in the upper right-hand side to see your Pond

To Record a New Pond Inspection

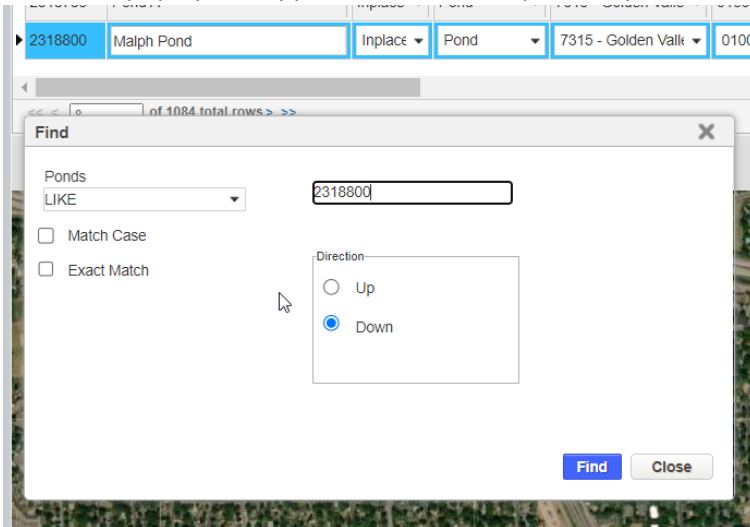
1. In the pond inventory window, Right Click on any pond ID, and select 'Find'

Inventory Pond Inspections Basin Inspections

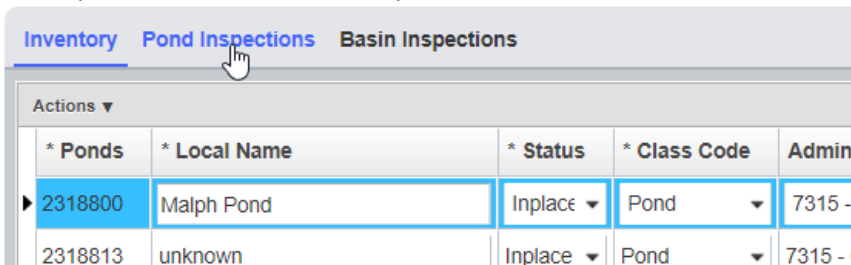
Actions ▼

* Ponds	* Local Name	* S
2318696	Mufasa Pond	Inp
▶ 23186		Inp
23187		Inp
23187		Inp
23187		Inp
23187		Inp
23187		Inp
23187		Inp
23188		Inp

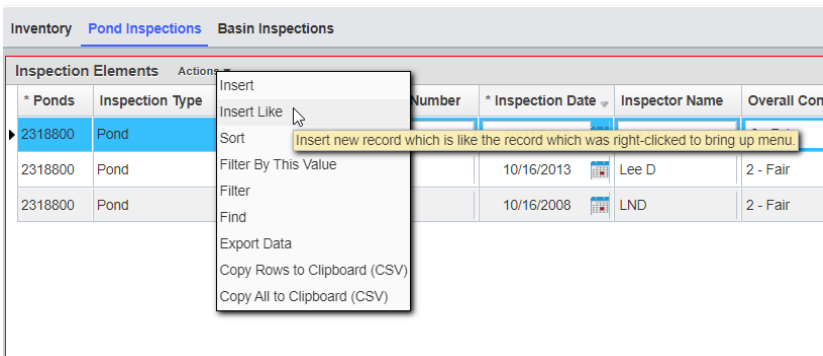
- The 'Find' pop up will appear – Enter in the pond ID you are looking for and click 'Find'



- The pond in question will become highlighted blue. Click on the Inspections tab which corresponds to the class code of your features (Pond or Basin).



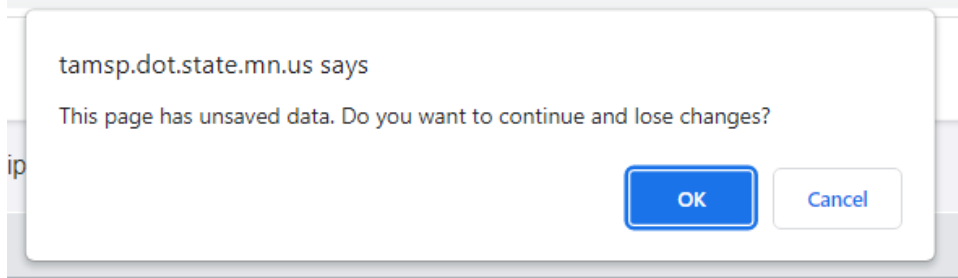
- Highlight the last inspection by click on it
- Click on Actions and select 'Insert Like'



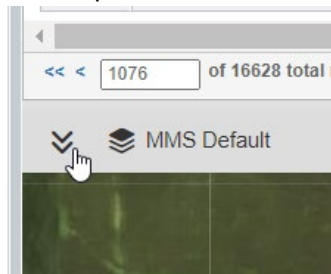
- Go through and fill out
 - Inspection Date
 - Inspector Name
- Update the field values to reflect what you saw
- Click Save in the upper right corner after changes have been made
- Click the Inventory tab to return to the pond inventory and find another pond if needed

TAMS Hints and Tricks

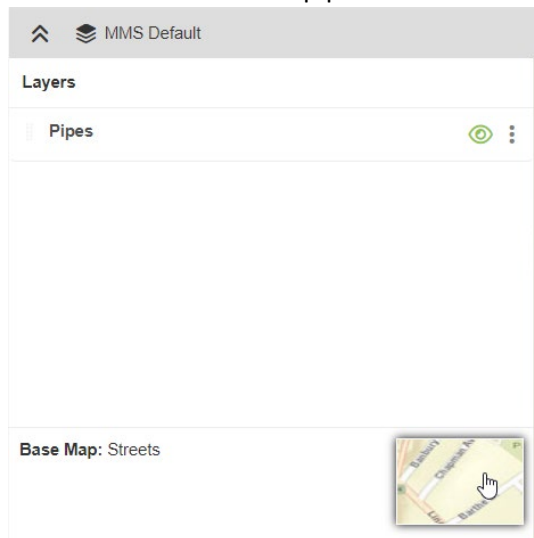
1. If you make a mistake, do not click Save, but click Reload. A popup window will appear -click OK:



2. To see an aerial photo on your map
 - a. In the map window Click on the double arrows next to MMS Default



- b. Then click on the Basemap picture



- c. Select Imagery with Labels

