

# HydInfra V5.1 ArcMap Tools – HydInfra Help

## Overview of ArcMap Tools

### Tools for All HydInfra Users



The HydInfra ArcMap tools can be used by anyone to query the HydInfra database with user driven inputs and display the results on a map. The tools available to all include:

	Query Oracle	Query HydInfra database based on user supplied criteria (location, type of feature, flags) and display results on map.
	Zoom to layer	Zoom to features in layer selected in the Table of Contents.
	Remove all HydInfra layers	Removes all/or selected HydInfra layers that were created using the query tool in the Table of Contents.
	Export to Excel	Exports selected feature information into an Excel spreadsheet.
	HydInfra Help	Displays Guidance in using HydInfra ArcMap tools.
	HydInfra Data Help	Displays Information about HydInfra data fields.

## TroubleShooting

If the HydInfra Tools toolbar isn't shown when opening ArcMap, open it by selecting View > Toolbars >HydInfra Tools.

The user must be on the Display tab and xxx View, otherwise, the HydInfra tools will be greyed out and unavailable.

## Tools for HydInfra Users with Edit Rights



HydInfra users and key-experts may use additional tools that allow them to update the database. A connection file must be set up, see installation instructions.

	Query Oracle	Additional functionality from read-only allows user to display features in GeoTable.
	Zoom to layer	Zoom to features in layer selected in the Table of Contents.
	Remove all HydInfra layers	Removes all/or selected HydInfra layers that were created using the query tool in the Table of Contents.
		Make selected features available in GeoTable in Forms so that data can be reviewed or updated.
		New Feature
	New Pipe	Create new Pipe using selected beginning and end locations.
	Outfall from Feature	Create an outfall linked to an existing feature.
	Create Culvert Group	Create a culvert group from selected existing features.
	Create Pond Group	Create a pond group from selected existing features.
	Move Feature	Change the location of a feature. <b>CAUTION!</b>
	Update Outfall Spatial View	Update the outfalls view data so that new outfalls will be displayed.

	Export to Excel	Exports selected features identification information into an Excel spreadsheet.
	HydInfra Help	Displays Guidance in using HydInfra ArcMap tools.
	HydInfra Data Help	Displays Guidance in using HydInfra database/input files.

**WRE ArcPad Tools**

[Arc Pad Tools Helps](#)

## Tool Operation

### Query Oracle

The Oracle Geo Table tab is only available to HydInfra Users with Edit Rights.

### Selection Criteria

The Selection Criteria dialog is used to select HydInfra features that meet the user specifications.

The “Limit returned features to those within current map extent” toggle will just return the features in the current map area.

In the Feature Criteria portion of the Selection Criteria tab, there will be different criteria that may be selected for each feature type.

The All Features Type will return all Pipes, Structures, Special Structures, Ponds, SPCDs, and Ditches that meet the other selection criteria.

The Outfalls, Illicit Discharge, Environmental, Culvert, and Pond Group Selections must be selected individually.

If an individual feature type is selected, a layer name can be entered at the bottom.

Select **Execute Query**, or continue onto the Date tab to further define the search criteria.

Once Execute Query has been clicked, and it is done retrieving the information, select either Close/No Clear or Close and Clear to remove the Query Oracle screen from the view.

The screenshot shows the 'Query Oracle' dialog box with the 'Selection Criteria' tab selected. The dialog is titled 'Select using...' and has four tabs: 'Selection Criteria', 'Date', 'Feature ID(s)', and 'Oracle Geo Table'. The 'Selection Criteria' tab is active and contains the following sections:

- Location Criteria:** Includes dropdowns for 'County' (set to 'All'), 'District' (set to 'All'), 'Route' (set to 'All'), 'System' (set to 'All'), 'Number' (set to 'All'), 'Begin RP', and 'End RP'. There is a checked checkbox for 'Limit returned features to those within current map extent' and a 'Reset Choices' button.
- Feature Criteria:** Includes a 'Status' dropdown menu with options: Abandoned, Audit, Inplace, Proposed, Removed, Turnback. The 'Condition' dropdown is set to 'All'. There are two checkboxes: 'Need cleaning' (unchecked) and 'Need repair' (unchecked). A 'Reset Choices' button is located at the bottom right of this section.
- Type:** A list box containing: All Features, Pipes, Structures, Special Structures, Ponds, SPCDs, Ditches, -----, Outfalls, Illicit Discharge, Environmental.
- Bottom Section:** A text field for 'Layer name in ArcMap:' followed by a checked checkbox for 'Zoom to layer(s) in ArcMap'. At the bottom are three buttons: 'Execute Query', 'Close/No Clear', and 'Close and Clear'.

## Date

The Date dialog allows the user to further refine the search criteria set on the Selection Criteria tab by specifying a date range to search for inspections or activities.

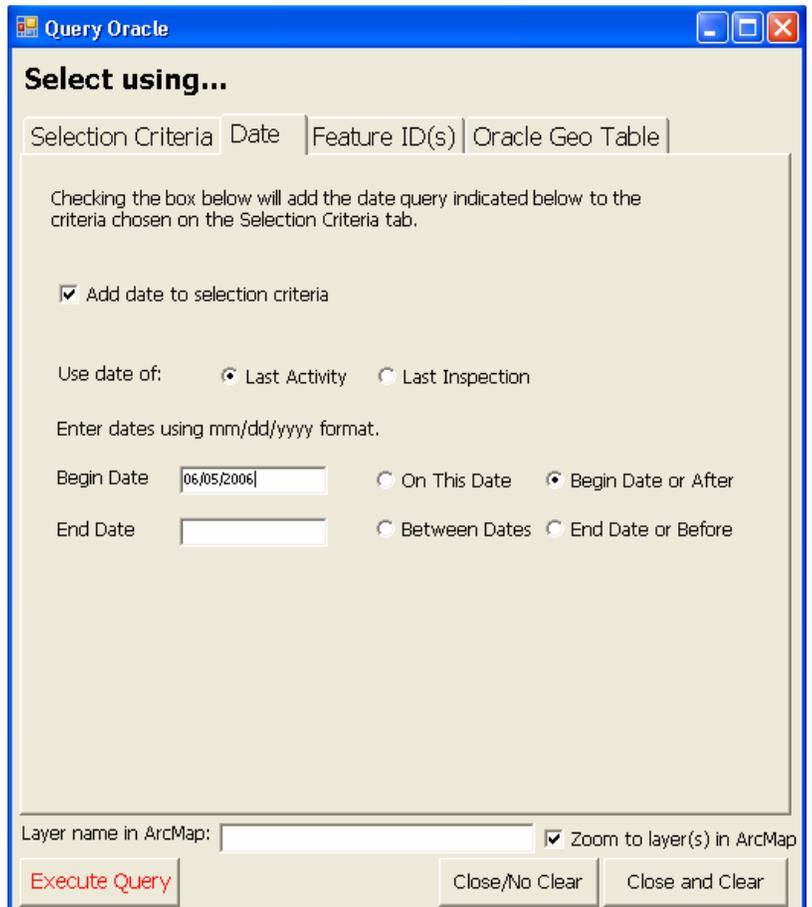
Toggle on **Add date to selection criteria**.

Toggle on the type of range to search for; either Last Activity or Last Inspection.

Enter the Begin and/or End date as necessary.

Select **Execute Query**.

Once Execute Query has been clicked, and it is done retrieving the information, select either Close/No Clear or Close and Clear to remove the Query Oracle screen from the view.



The screenshot shows the 'Query Oracle' dialog box with the 'Date' tab selected. The dialog has a title bar with standard window controls. Below the title bar, there are three tabs: 'Selection Criteria', 'Date', and 'Feature ID(s) | Oracle Geo Table'. The 'Date' tab is active. The main content area contains the following elements:

- A text box with the instruction: "Checking the box below will add the date query indicated below to the criteria chosen on the Selection Criteria tab."
- A checked checkbox labeled "Add date to selection criteria".
- A "Use date of:" section with two radio buttons: "Last Activity" (selected) and "Last Inspection".
- A text prompt: "Enter dates using mm/dd/yyyy format."
- A "Begin Date" field containing "06/05/2006" and two radio buttons: "On This Date" and "Begin Date or After" (selected).
- An "End Date" field and two radio buttons: "Between Dates" and "End Date or Before".
- A "Layer name in ArcMap:" field with a checkmark and the text "Zoom to layer(s) in ArcMap".
- At the bottom, there are three buttons: "Execute Query" (highlighted in red), "Close/No Clear", and "Close and Clear".

Note: Date criteria will not apply to Culvert or Pond Group queries.

For Illicit Discharge and Environmental Inspections, the use of either Last Activity or Last Inspection will return the same data.

## Feature ID(s)

The user may either key in or copy/paste a list of Feature IDs (separated by commas) and the tool will add layers to ArcMap with those features.

Feature IDs may be identified in various ways. One way is by hovering the cursor over a feature in ArcMap until the ID number appears. Another common way is to right click a layer in the Table of Contents and open the attribute table which displays the ID numbers in the fourth column.

Select **Execute Query**.

Once Execute Query has been clicked, and it is done retrieving the information; select either Close/No Clear or Close and Clear to remove the Query Oracle screen from the view.

Query Oracle

### Select using...

Selection Criteria | Date | **Feature ID(s)** | Oracle Geo Table

Checking the box below will produce one or more map layer containing the features identified by the Feature IDs entered below.

Select using Feature IDs

Enter one or more Feature IDs, separated by commas.  
Example: 125904, 4125, 13359

598206

Clear IDs

Layer name in ArcMap:   Zoom to layer(s) in ArcMap

Execute Query Close/No Clear Close and Clear

## Oracle Geo Table

*This tab is only available to HydInfra Users with Edit Rights.*

Use to Display features that have been pushed to the Geo Table in HydInfra Forms. See instructions to [Push data to GeoTable in Forms](#) before continuing to the Steps listed below.

### Steps:

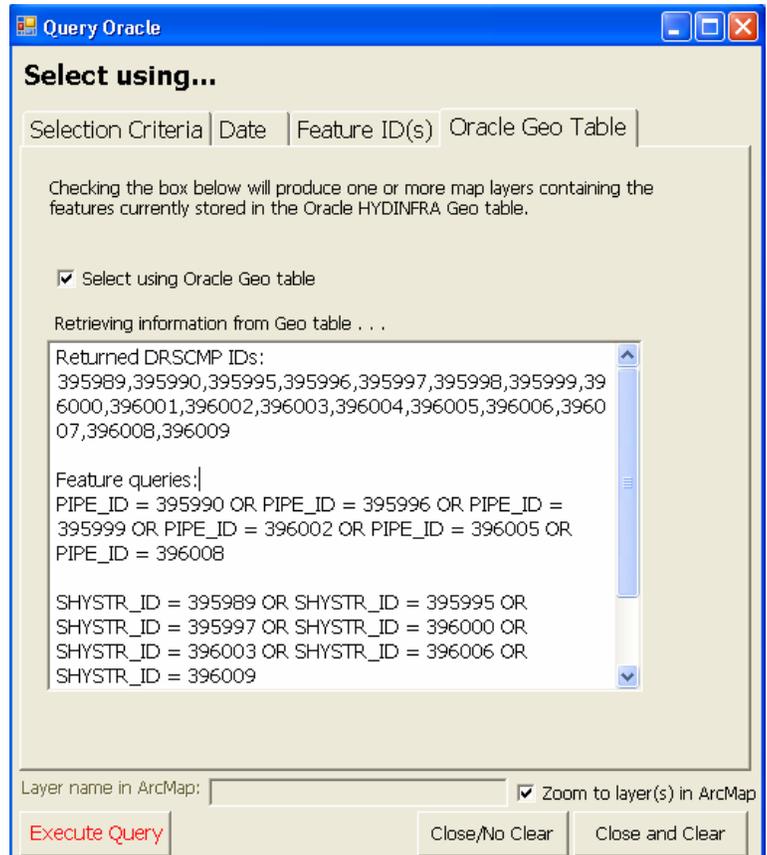
1. Toggle on **Select using Oracle Geo Table**.
2. Select **Execute Query**.

For any features in the HydInfra Geo Table, layers will be created and the features displayed.

This tool is only available to HydInfra users and key-experts that are connected to the database using their log-in ID.

This tool can be used to display all features that were created from a data input file. The district user or key-expert can push the batch to the Geo Table within Forms.

Depending on the number of features in the Geo Table, this query can take some time.



## Zoom to layer



Zooms the map to the selected HydInfra layer. (The out-of-the-box ArcMap tools will not recognize the extent of the spatial view).

## Remove all HydInfra layers



If no layers are selected, this tool removes all of the HydInfra layers that have been added using the query tool from the map. If one or more HydInfra layers are selected, this tool will remove only the selected layers.

## Export to Excel



The Export to Excel tool will display the attribute table data from selected features in an Excel spreadsheet. (Use the layer properties > fields tab to limit the data fields that will be exported).

### Steps:

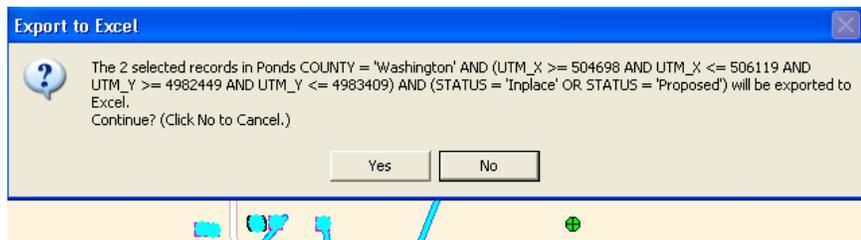
1. Select one feature layer in Table of Contents.



2. Using the ArcMap select features tool , select the features of interest to export to Excel. If features other than those defined in the highlighted feature layer in the Table of Contents are selected, their data will not be exported to the Excel spreadsheet.

3. Select the Export to Excel tool.

4. Wait for dialog to appear and select either Yes to export the feature data into Excel or No to cancel the Export.



5. The attribute table data for the selected features will be displayed in an Excel spreadsheet.

OBJECTID	RSCMP_ID	POND_ID	ID	INVEN	NAME	OF	STATUS	ATURE	TYE	DISCOV	INSPECTION	UTE	SYST	JTE	NUMEE	REFER	TRUE	MILE	TROL	SECP	I
662	604401	604401		-1			Inplace	B		8/29/2007					5	195.614		80.51		NV	
663	604403	604403		-1			Inplace	B		8/29/2007					5	195.614		80.51		NV	

6. Save the Excel spreadsheet.

## HydInfra Help

Help

The HydInfra Help tool displays the helpsheet for using HydInfra ArcMap tools.

## HydInfra Data Help

HYIHelp

The HydInfra Data Help tool displays the help file for the HydInfra data fields in the spatial layers. (Click on the “+” in left column to expand list. Click on “Spatial Data Views.”)

### HYIHELP:

HYDINFRA (P759 Enhancement) Published Format (CSV) Reference

Back Print Contents

Contents Index Search Favorites

HYDINFRA (P759 Enhancement) Database/Input Fi

- Published Format Record Reference
- Hydinfra Table Reference
- Spatial Data Views
  - Environmental Spatial View
  - Illicit Spatial View
  - Pipe Spatial View
  - Structure Spatial View
  - Special Structure Spatial View
  - Ditch Spatial View
  - Pond Spatial View
  - SPCD Spatial View
  - OutFall Spatial View

Mn/DOT Bridge Office, Hydraulic Automation Unit

HYDINFRA(P759)CSV Documentation

### HYDINFRA (P759 Enhancement) CSV Data File Input Format Reference

#### Spatial Views

View Type	View File Name	Uses TIS Data
<a href="#">Pipe Spatial View</a>	HYPIPE_SPATIAL_VW	False
<a href="#">Structure Spatial View</a>	HYSTR_SPATIAL_VW	False
<a href="#">Special Structure Spatial View</a>	SHYSTR_SPATIAL_VW	False
<a href="#">Ditch Spatial View</a>	DITCH_SPATIAL_VW	False
<a href="#">Pond Spatial View</a>	POND_SPATIAL_VW	False
<a href="#">SPCD Spatial View</a>	SPCD_SPATIAL_VW	False
<a href="#">Illicit Discharge Spatial View</a>	ILLICIT_SPATIAL_VW	False
<a href="#">Outfall Spatial View</a>	OUTFALL_SPATIAL_VW	False
<a href="#">Environmental Factors Spatial View</a>	ENVIRON_SPATIAL_VW	False

Return To [Start Page](#)

## Push to GeoTable



Select features from one or more HydInfra layers, then select the Push to GeoTable icon. The features will be available in the GeoTable in HydInfra Forms for the user to review. See [Push Data to GeoTable in Forms](#) below for more information.

## New Feature



The New Feature tool is used to create a new Structure, Special Structure, Pond, SPCD, Ditch, or Outfall using a location value the user selects on the screen.

### Steps:

1. Select New Feature Tool.
2. Move cursor on screen to desired location of feature and Left Click.
3. Wait until dialog appears and select County, District, and Roadway Type.
4. Select type of feature that will be created.
5. Select appropriate data for feature chosen that is shown in the dialog.
6. Select Add Feature.
7. Wait for confirmation that feature was added and for features to redraw.

Create the following feature at coordinates:  
X 505,382.899 Y 4,982,725.550

County: Washington Roadway Type: Mainline  
District: Metro

Structure | Special Structure | Pond | SPCD | Ditch | Outfall

Outlet design: Dry

You must use Query Oracle to query for features of this type for this County or District before creating new features in order for the new features to display on the map.

Add Feature Batch ID: 399388 Close/No Clear Close and Clear

Note: Feature will not show on map unless the layer with an appropriate query has previously been added. In general, the county on the map extent should be used as the query criteria after the new feature has been created. Do not include route system, number, or reference point information in the query, or the new feature will not be displayed. The route system, number, and reference point data will not be calculated and updated until about 2 hours after the editing session has completed.

If using the Create Feature tool to create outfalls that are not linked to other HydInfra features, the outfalls will not be displayed until the Update Outfall from Spatial View tool is run.

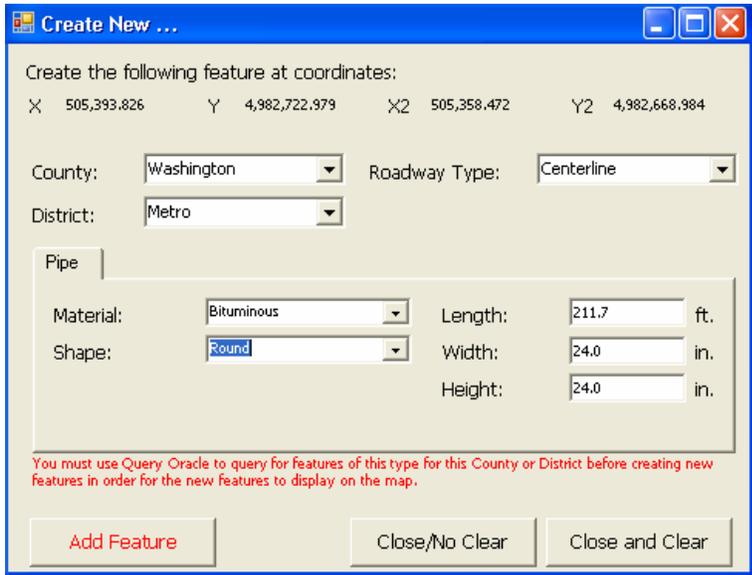


## New Pipe

 The New Pipe tool is used to create a new pipe using the start and finish location the user selects on the screen.

To display the features that have been created, run a query to show the feature type that will be created in the county or map extent that you are working on. If a layer does not exist that would include the created feature, it will not be displayed when created.

### Steps:

1. Select New Pipe Tool.
2. Move cursor on screen to desired start of the pipe (upstream end if known) and Left Click, move the cursor to the other end of the pipe and Double Click.
3. Wait until dialog appears and the line is drawn in red on map:  

4. Select County, District and Roadway Type.
5. Select values for Material and Shape from the drop down lists. Enter values for Width and Height. A calculated length of the drawn line will be the default length.
6. Select Add Feature.
7. Wait for confirmation that feature was added and for features to redraw.

Note feature will not be drawn on map unless the layer with an appropriate query has previously been added. In general, the county or map extent should be used as the query criteria. Do not include route system, number or reference point information in the query, or the new feature will not be displayed. The route system, number and reference point data will not be calculated and updated until about 2 hours after the editing session has completed.

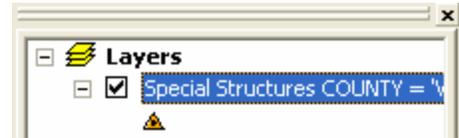


## Outfall from Feature



Create a HydInfra outfall and link it to an existing HydInfra feature (Pipe, Structure, Hydraulic Structure, Pond, SPCD, or Ditch).

1. Select the Layer for the feature type that will be linked to the outfall in the table of contents (Left click on the layer name and highlight it)



2. Check ID of feature that will be linked to the outfall by holding cursor over it.



3. Select the Outfall from Feature tool and click on the feature that will be linked to the outfall.

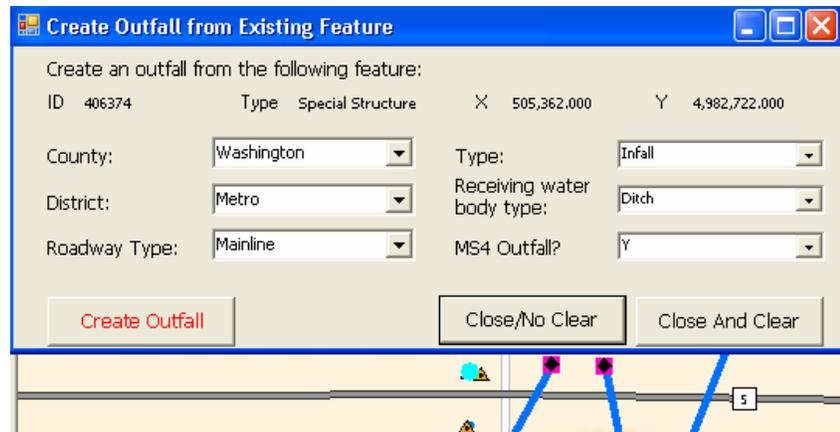
4. If more than one HydInfra feature of the selected type is within the search radius, a dialog will appear with the IDs for the user to select the appropriate one.



5. Highlight the appropriate ID, and then select **Select ID**.

6. Wait for the Create Outfall from Existing Feature dialog to appear.

7. Select the appropriate County, District, Roadway Type, Outfall Type, Receiving Water Body Type and MS4 Outfall Flag from the drop-down lists.



8. Select **Create Outfall**.

9. To display the outfall, click on the Update Outfall from Spatial View tool



## Create Culvert Group

 Using the ArcMap select features tool , Select one Pipe Feature and at least one of the following: Structure, Special Structure, and/or Environmental Feature to include in a culvert group. To select multiple features, hold down the Shift key while selecting features. A feature may be part of only one culvert group.

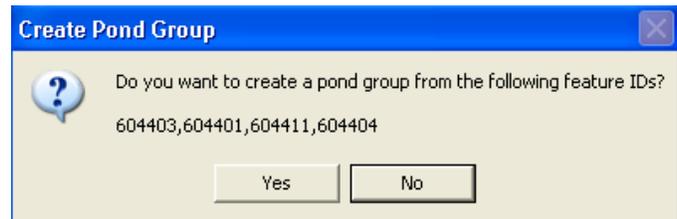
Select the Create Culvert Group tool, a message will return with the HydInfra ID's to be created as a culvert and the user can click Yes or No to create a culvert group.



## Create Pond Group

 Using the ArcMap select features tool , Select one Pond Feature and at least one of the following: Pipe, Structure, Special Structure, Ditch, SPCD, Illicit Discharge Inspections, and/or Environmental Features to include in the pond group. To select multiple features, hold down the Shift key while selecting features. A Feature may be part of only one pond group.

Select the Create Pond Group tool, a message will return with the HydInfra ID's to be created as a Pond Group and the user can click Yes or No to create the Pond Group.



## Move Feature

 The existing location of features can be edited using this tool. For pipes, one end of the pipe can be moved at a time. The TIS location data (county, route, reference point) will not be updated for feature moves.

### Steps:

- 1) In the Table of Contents, select the feature layer for which the location(s) will be edited.



## Pipes

Most pipes in HydInfra now show up as very short lines – only 1 meter long – because they were originally point locations to which a second end was added. When moving a pipe end, select the northeasterly end of the pipe to move. The southwest end of the pipe was the location point originally collected and the northeast end location was a mathematically constructed point.

a) Zoom in to see the pipe and the location where the end of the pipe will move to.

b) Select **Move Feature** tool .



c) With the cross-hairs, select the end of the pipe that will be moved.

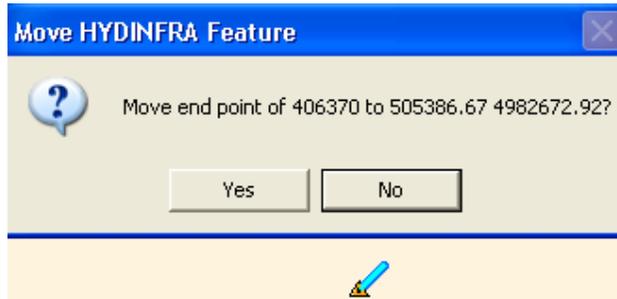
d) Wait for pipe to show up as highlighted.

e) Left-click on the point where the end will be moved to.

f) Wait for dialog.

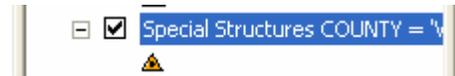
g) Wait for data to be updated, pipe to be re-drawn, and dialog to disappear.

h) At that point, the other end of the pipe can be selected and a new location can be chosen, or you can select a different pipe or other feature to move.

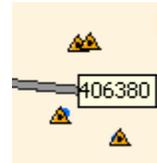


## Point Feature:

a) Select feature layer in Table of Contents.



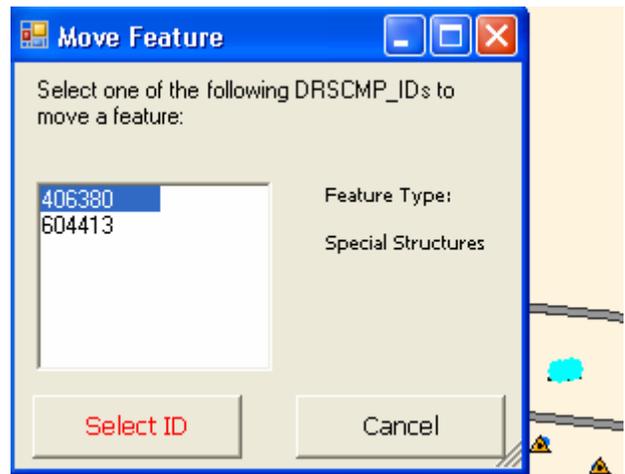
b) Check Feature ID by hovering cursor over the feature.



c) Select Move Feature Tool.



d) If more than one feature is within the search radius, both will appear in the dialog. Highlight the ID for the feature to be moved and select the **Select ID** button.

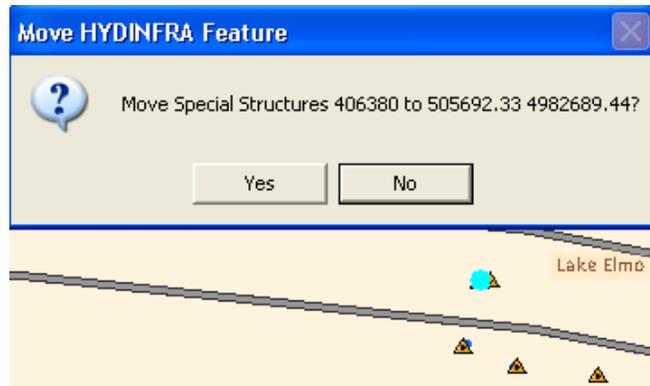


e) Wait for the dialog to disappear and only the point to be moved to be highlighted.



f) On the map, Left-click on the location for the feature to be moved to.

g) Confirm the dialog if correct.



h) Wait for the feature to be redrawn.



## Update Outfall Spatial View



Click the Update Outfall Spatial View tool to show newly created outfalls on the map. Try not to update after each outfall because much of the information in the outfall spatial view is derived from the related feature linked to the outfall, so there could be performance issues if the spatial view is updated each time an outfall is created. The Update Outfall procedure runs automatically every night, so even if the update tool is not used, the newly created outfall(s) would be displayed the following day.

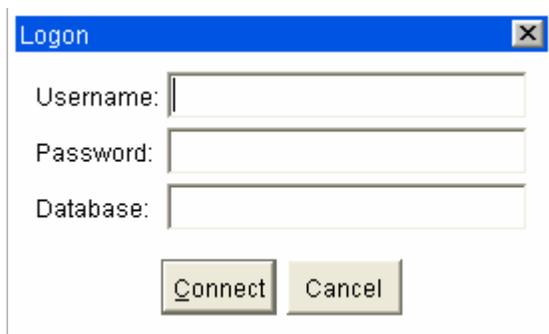
## [Push Data to GeoTable in Forms](#)

Advanced users can select HydInfra features in ArcMap and “Push to GeoTable” to make those features available for edit in Forms. The GeoTable identifies a set of database features temporarily, so that a user can “send” them from ArcMap to review in Forms or from Forms to ArcMap.

The following steps will allow the user to edit the attributes of features in Forms.

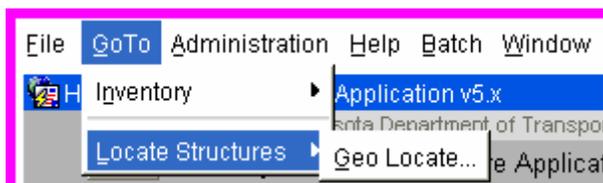
### Steps:

1. Use the select features tool,  on the ArcMap standard toolbar to select the data that requires editing.
2. Click on the Push to GeoTable button. 
3. Wait for dialog to appear and select either Yes or No to push the feature IDs to the Geo Table.
4. Open Forms by using the following web address: <http://bridge/hydraulics/HydInfra.html>  
Note: If dual monitors are in use, Forms must be on the left monitor in order to work.
5. Click on: **[Run HydInfra Application](#)**
6. Enter Username, Password, Database and click on Connect.



A screenshot of a 'Logon' dialog box. It has a blue title bar with the text 'Logon' and a close button. Below the title bar are three text input fields labeled 'Username:', 'Password:', and 'Database:'. At the bottom of the dialog are two buttons: 'Connect' and 'Cancel'.

7. On the menu bar, click on GoTo → Locate Structures → Geo Locate.



- Click on the Goto Details button towards the bottom of the screen without adjusting any of the default settings.

Sort By Criteria

Use Default Sort     By Culvert     By Rte/Ref

By Query Set     By Structure ID     By Lat/Long

---

Results

Features Found:

- A list of features shows up on the Geo Table screen. Click on one of the rows of data, and that feature's information will turn green. Double click anywhere in the green row to open the feature's data form.

File Goto Record Query Help Window

Query Results

Minnesota Department of Transportation    17-AUG-2007  
Hydraulic Infrastructure Application    TESTKEY

Query Results

Type: Special Structure

Query Set ID	Culvert ID	Structure ID	Latitude	Longitude	Gis Route	Ref. Pt.
391089		396009	445956.804	925729.177	MN5	194.42
391089		396008	445956.823	925729.37	MN5	194.42
391089		396007	445956.811	925729.364	MN5	194.42

- View or edit any information at this window. If editing, click on save  when exiting.

Special Hydraulic Structure: Inventory

Minnesota Department of Transportation    17-AUG-2007  
Hydraulic Infrastructure Application    TESTKEY

ID: 396009    Special Hydraulic Structure: Inventory    P759-008

\* Inventory Date: 05/30/2002    \* District: Metro    Batch ID: 192

\* County: Washington    \* Status: Inplace

Roadway Information

\* Route System: MN    \* Rte Number: 5    MilePost: 194.42

\* Type: Ramp/Loop    Traffic Dir: W/B    Culvert ID:    Pond Group ID:   

Plan Information

Ctrl. Section: 1111    Dir: Decreasing    SP Number: 111.990000

Station:    Station Offset:    Station (Units):   

Local Name:   

Feature Information

\* Type: Flared Apron    Rip Rap Class: 0

\* Grate Type: None    \* Material: Concrete

MS4 Information

MS4 Report?     Yes     No     Unknown    Maint. Resp:   

Insp. Freq:    Owner:   

Last Insp: 05/30/2002    Maint. Job No:   

Comments:   

Geographic Information

\* Latitude: 445956.804

\* Longitude: 925729.177

\* LL Meth: High End RDGPS

\* LL Accuracy: 0.5-2 meter

UTM X: 503302

UTM Y: 4982853

UTM Method:   

Related Pipe Information

Pipe Rise:   

Pipe Span:   

Length Unit of Measure:   

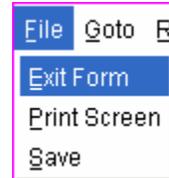
Pipe Shape:   

Pipe Material:

Note:

The arrow keys located on the menu bar,   will bring the user to either the previous or next record in the list.

To move back to a previous screen, select File → Exit Form from the menu bar.

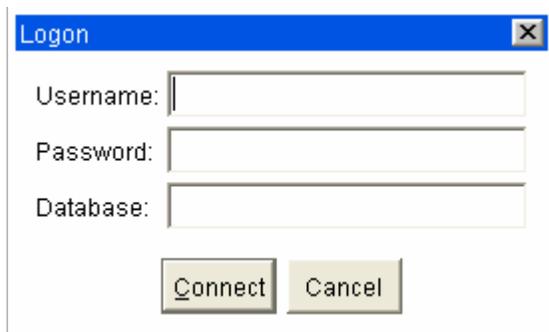


## New Features Batch Review Push to Geo

The following steps will allow the user to display the locations of new features created by an input batch using ArcMap. Only new features created by the batch will be displayed in ArcMap, not inspections of existing features.

### Steps:

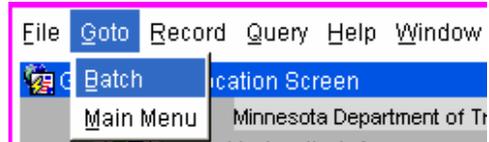
1. Open forms by using the following web address: <http://bridge/hydraulics/HydInfra.html>  
Note: If dual monitors are in use, forms must be on the left monitor in order to work.
2. Click on: **[Run HYDINFRA Application](#)**
3. Enter Username, Password, Database (TGDBP – for HydInfra production database) and click on Connect.



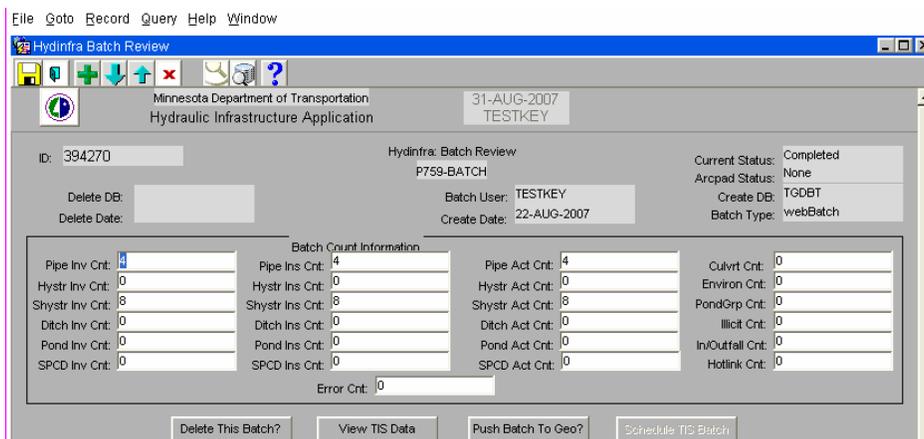
4. On the menu bar, click on GoTo → Locate Structures → Geo Locate.



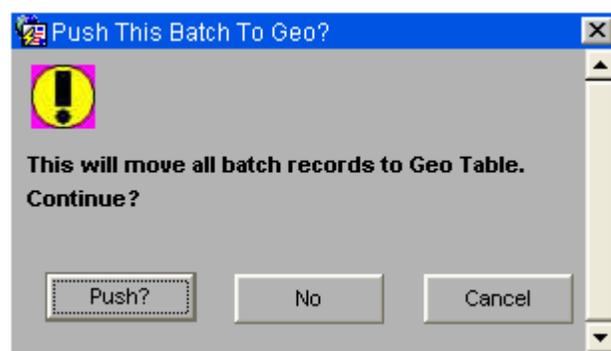
- On the next screen, click on Goto → Batch on the menu bar.



- The batch review form shows a count of new features created, in columns 1 and 4 (Pipe Inv Cnt: 4 in example below). If there are numbers in the 1<sup>st</sup> column or the 4<sup>th</sup> column (Environ, Illicit, or In/Outfall) under the Batch Count Information box, these numbers represent how many new features of each type were created. Select a batch that contains newly created features to try out the Push to GeoTable option. In order to see other batches, click in the ID box and then advance through the batches by using the blue arrow tools at the top of the screen. 



- Click on the  button, wait for dialog to appear, and click on Push.



- Go back to ArcMap and click Query Oracle from the menu bar.

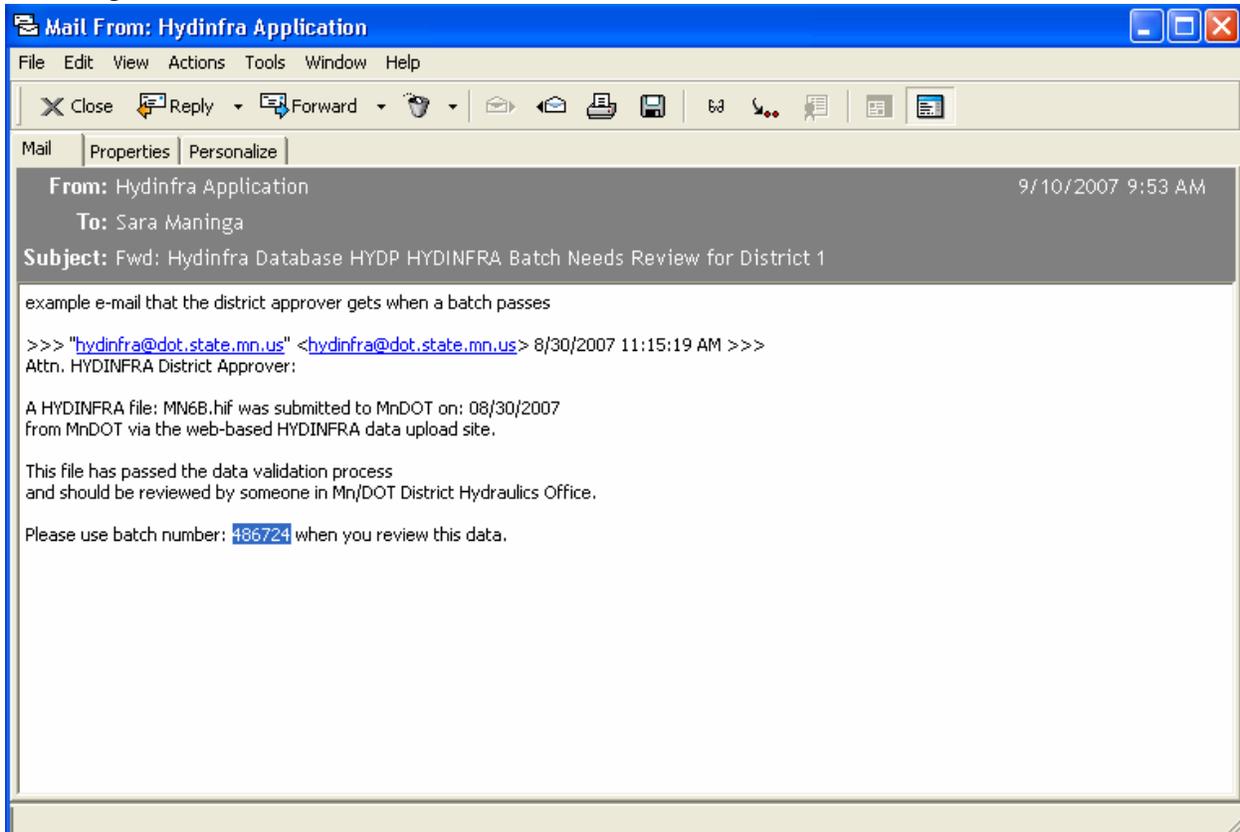


9. Click on the Oracle Geo Table tab. Then check the box to “Select using Oracle Geo table” and the box towards the bottom to “Zoom to layer(s)” in ArcMap. Finally, click on **Execute Query**.
10. Wait for dialog stating: Find features currently referenced in GeoTable. Click Yes.
11. ArcMap will then zoom in to the area that contains the new features.



## Query for Batch IDs in Forms and Push to GeoTable

HydInfra Key Users will want to review HydInfra data after it has been uploaded to the database. Follow these steps to push batches with new features from Forms to ArcMap, using the Push to Geo Table button.



### Steps:

1. The User receives an e-mail such as the one shown above, which provides a batch number.

2. In Forms, go to Batch > Review Batches

Hydraulic Infrastructure Application  
File Goto Record Query Help Window

Hydinfra Batch Review

Minnesota Department of Transportation  
Hydraulic Infrastructure Application

10-SEP-2007  
MAN11SAR

ID: 486724  
Delete DB:   
Delete Date:

Hydinfra: Batch Review  
P759-BATCH  
Batch User: SALM1JAC  
Create Date: 30-AUG-2007

Current Status: Completed  
Arcpad Status: None  
Create DB: webBatch  
Batch Type: webBatch

Batch Count Information

Pipe Inv Cnt: 8	Pipe Ins Cnt: 8	Pipe Act Cnt: 8	Culvrt Cnt: 0
Hystr Inv Cnt: 0	Hystr Ins Cnt: 0	Hystr Act Cnt: 0	Environ Cnt: 0
Shystr Inv Cnt: 0	Shystr Ins Cnt: 0	Shystr Act Cnt: 0	PondGrp Cnt: 0
Ditch Inv Cnt: 0	Ditch Ins Cnt: 0	Ditch Act Cnt: 0	Illicit Cnt: 0
Pond Inv Cnt: 0	Pond Ins Cnt: 0	Pond Act Cnt: 0	In/Outfall Cnt: 0
SPCD Inv Cnt: 0	SPCD Ins Cnt: 0	SPCD Act Cnt: 0	Hotlink Cnt: 0

Error Cnt: 0

Delete This Batch? View TIS Data Push Batch To Geo? Schedule TIS Batch

File Information

Batch Name: MnDOT_20070830_092218_879	App. Email: jack.salmela@dot.state.mn.us
Coll. Org: MnDOT	Sub. Email: rolland.lamourea@dot.state.mn.us
District: 1	Full File Name: MnDOT_20070830_092218_879_MN6B.hif
User Approv: Salmela, Jack	Orig. Name: MN6B.hif

3. Select the Enter Query tool. 

4. Enter the batch number in the ID box,

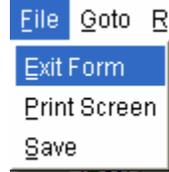
5. Click on the Execute Query tool,  and a batch review screen will appear identifying a recent batch. Batches with no NEW features cannot be pushed through the Geo Table. (look for number not zero in column 1)

6. Click the Push Batch to Geo button to make the features available on the Geo Table in ArcMap.

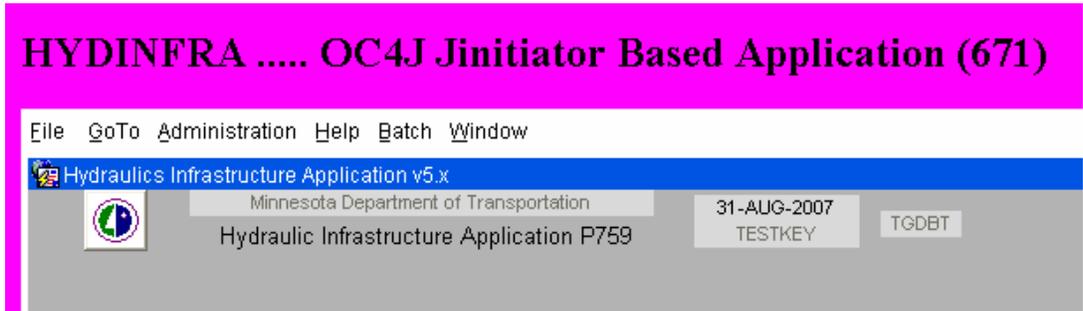
7. Open ArcMap, and open the Query Tool and click the “Oracle Geo Table” tab to query its contents.

**Note:** In order to push a different batch to Geo, the batches must be refreshed. To do this:

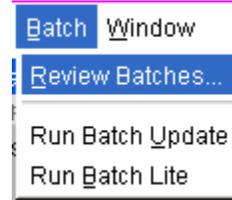
1. Return to forms and select File → Exit Form from the Menu bar.



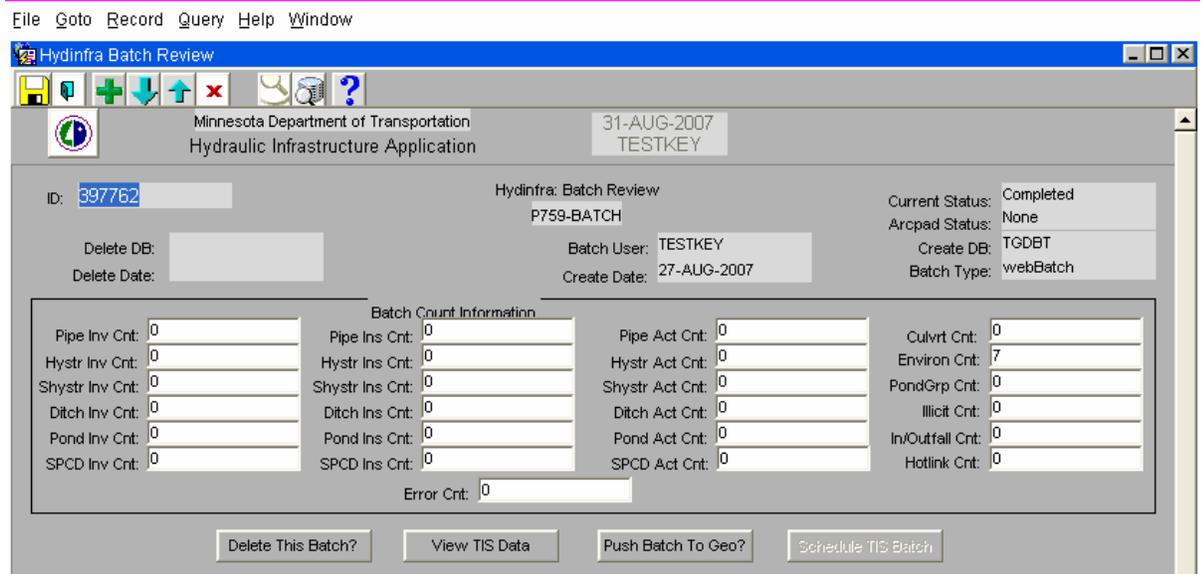
2. Select File → Exit Form as many times as necessary until back to the Main Menu:



3. Select Batch → Review Batches from the Menu bar.



4. The batches are now accessible to scroll through and the steps may be resumed at Step #6 of the **New Features Batch Review Push to Geo** displayed above.



7/27/07 LKS, rev. 2/26/08 BJP

Revised 9/12/07 SKM

S:\Hydraulics\HydInfra\User Documentation\HydInfra Users Manual\HydInfra V5 ArcMap  
Tools.doc