

National Levee Database (NLD)

Web Feature Service (WFS) Connection Instructions



US Army Corps
of Engineers

Connection to the National Levee Database Web Feature Service allows for the querying and retrieval of features in the database using ArcGIS v10.x or QGIS v2.x. This document is provided to step the user through the connection process for the ArcGIS client. WFS URL is <http://corpsmapu.usace.army.mil/cgi-bin/wms/nldwms?>

ArcGIS Requirements

1. ArcGIS v10.x and the Data Interoperability Extension.

Customize → Extensions...

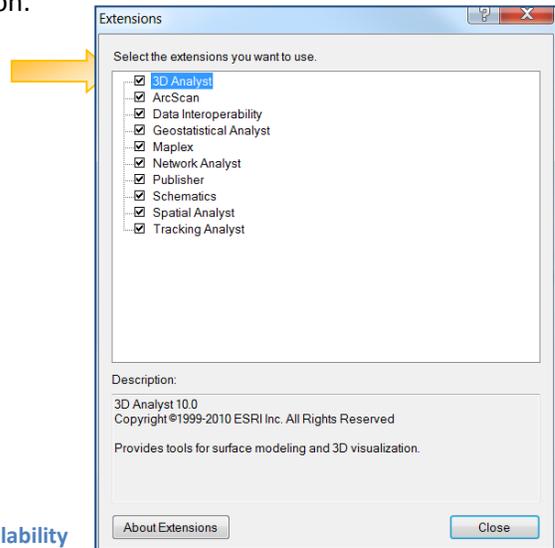


Figure 1 – Confirm Data Interoperability Extension Availability

2. Ensure ArcCatalog is docked.

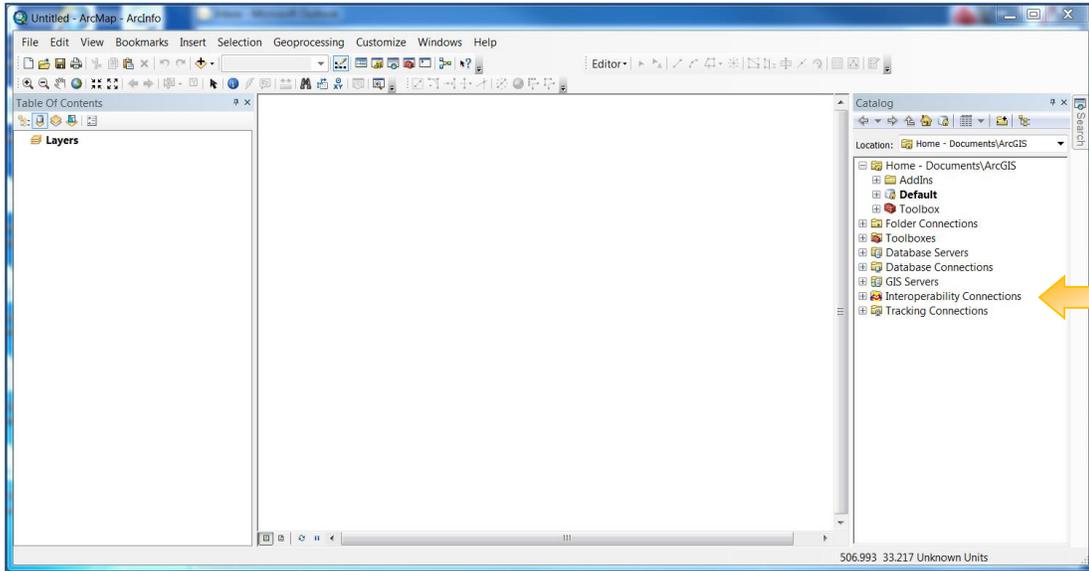


Figure 2 – ArcCatalog Docked with Data Interoperability Extension Activated

Connection to NLD WFS

1. Expand Interoperability Connections → Double Click **Add Interoperability Connection**. Window will open, use drop down menu for *'WFS (Web Feature Service)'*. Type in *'Dataset'*: <http://geo.usace.army.mil/cgi-bin/wms/nldwms>. Coordinate System may be left as *'Read from source'*.

Select **Parameters**.

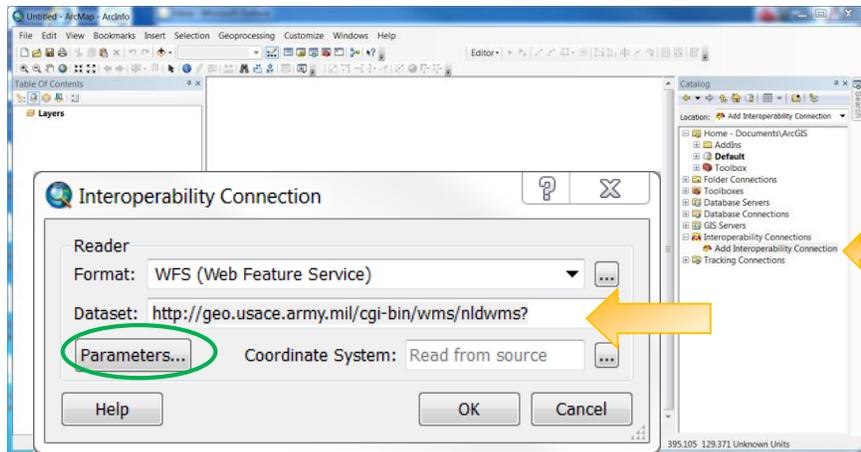


Figure 3 - Interoperability Connection

2. Revise constraints to increase *'Max Features'* to 500000. Select the browse button for *'Table List'* → **Select all** to load all feature types. Select **OK**. It may take a few moments for the Table List to load. ArcGIS v10.0 and v10.1 have slightly different options.

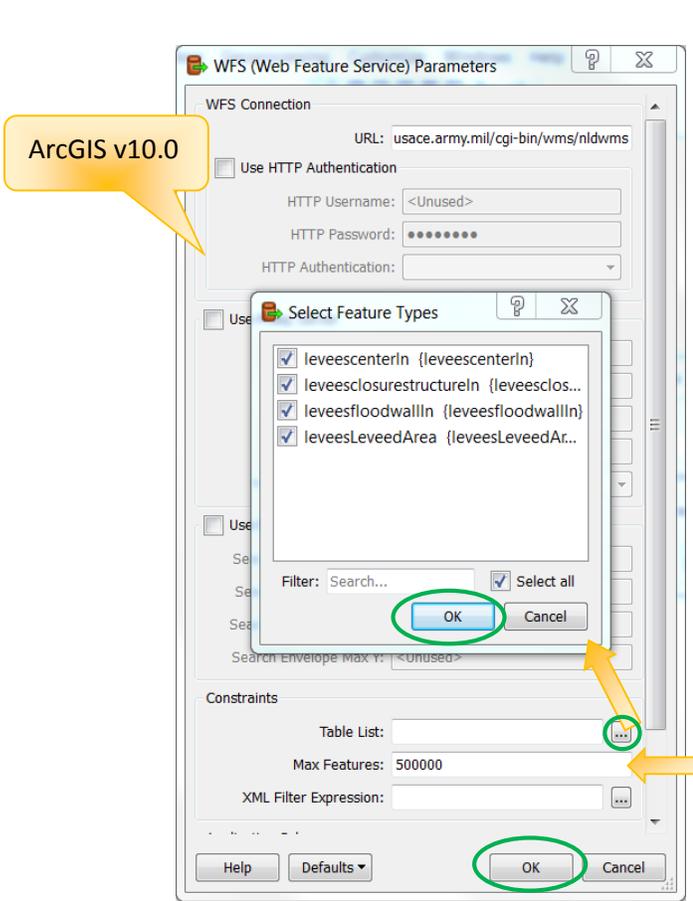


Figure 4 – Parameters for ArcGIS v10.0

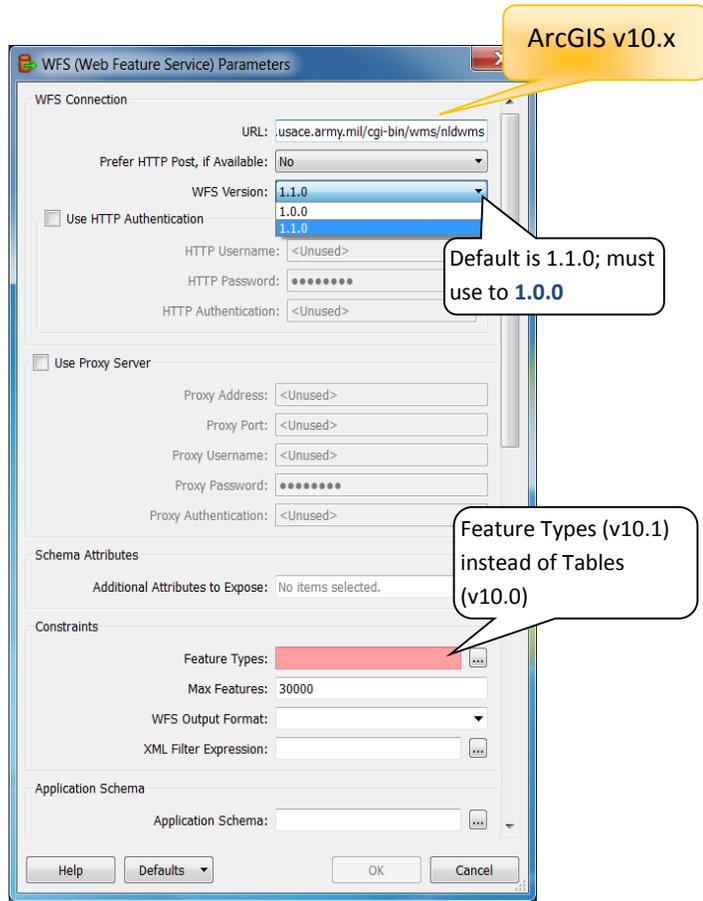


Figure 5 – Parameters for ArcGIS v10.1

- Features will be shown in the *Catalog*. Highlight a feature and drag and drop to the *Layers in Table of Contents*. Indexing may take several minutes.

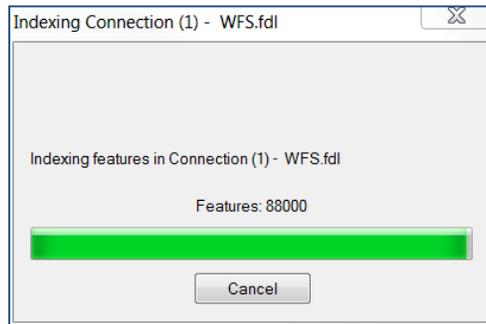


Figure 6 – Indexing WFS Connection Features

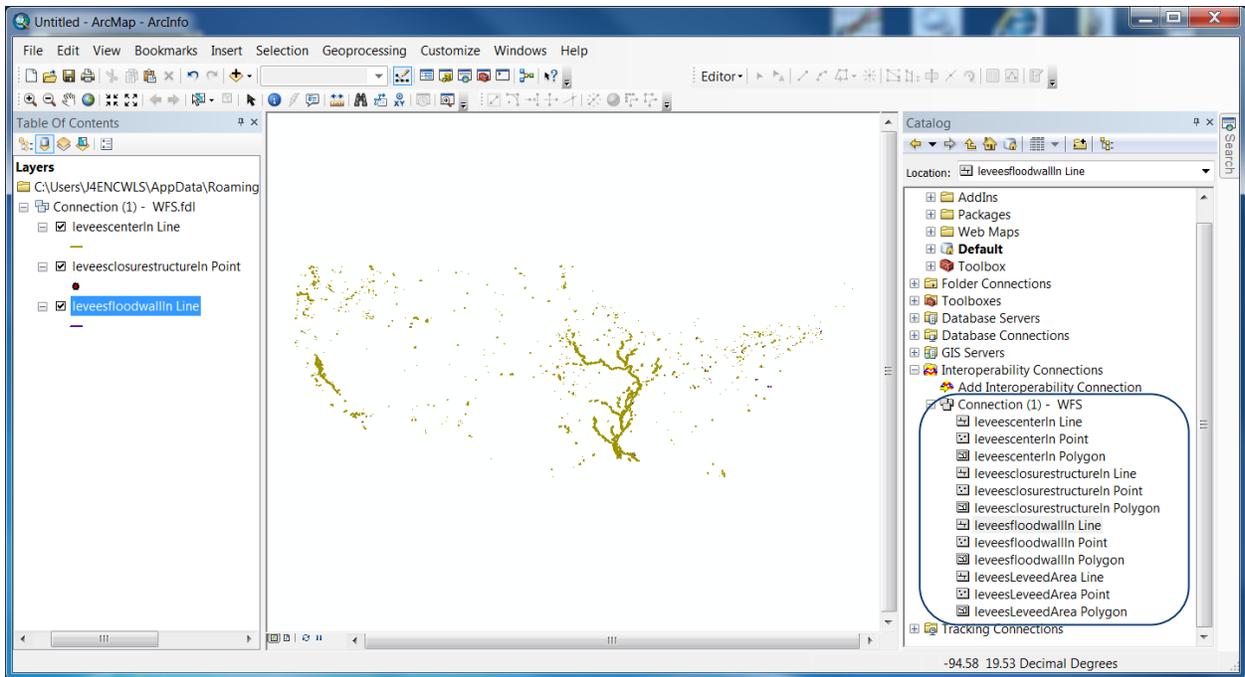


Figure 7 – Features Displayed in ArcMap

- The layers in the NLD WFS are now available for displaying, selecting, exporting and identify in the ArcMap document.

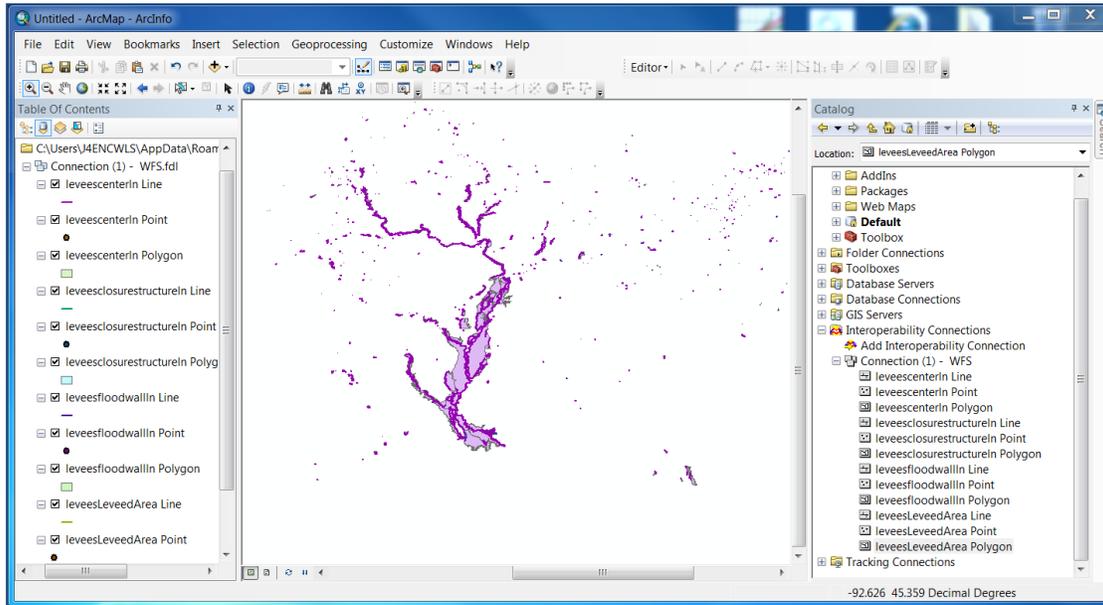
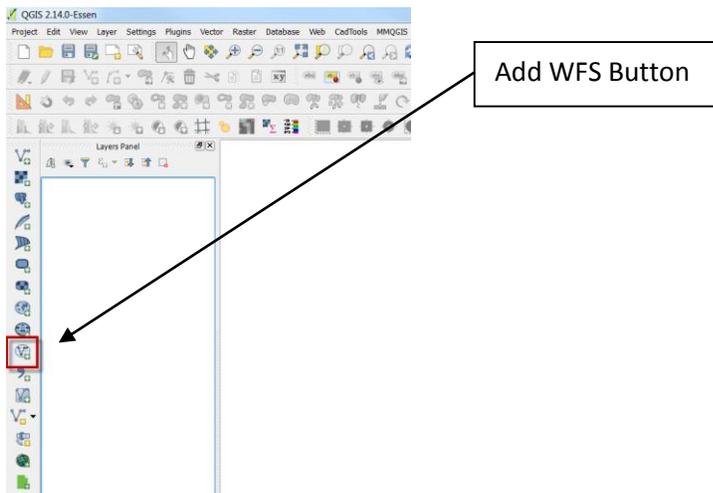


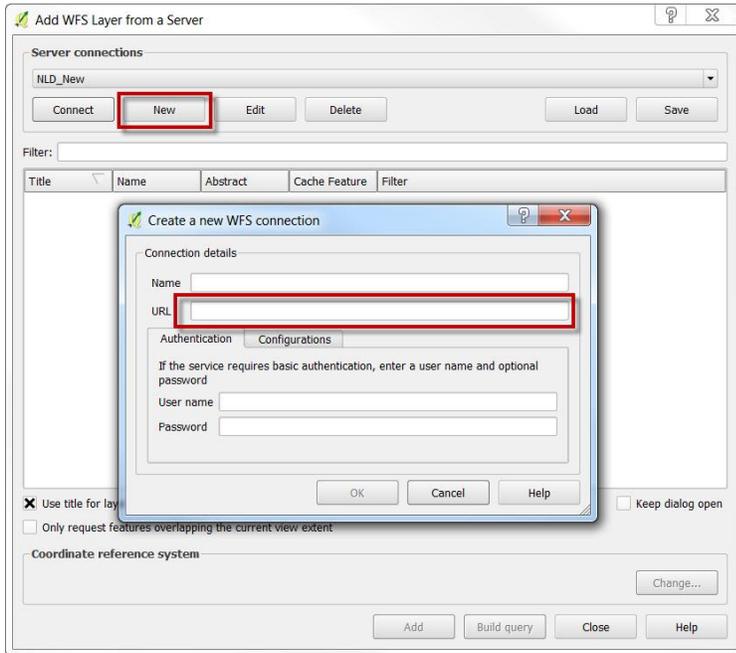
Figure 8 – Layers Loaded Into ArcMap from NLD WFS

QGIS Requirements

- You can use any version of QGIS 2.8 or greater will connect to NLD.
- Click on the add WFS button on the left toolbar.



3. Click on “New” to create a new WFS connection.



4. Paste the WFS URL <http://corpsmapu.usace.army.mil/cgi-bin/wms/nldwms?> in the URL window and give the connection a name and click OK.
5. Select the layer(s) that you wish to add to the map frame and click add. Wait several moments for the layers to load due to their large feature counts.

