

Instructions for Viewing Lock and River Mile Locations Using ESRI ArcExplorer

Download and Install ESRI ArcGIS Explorer

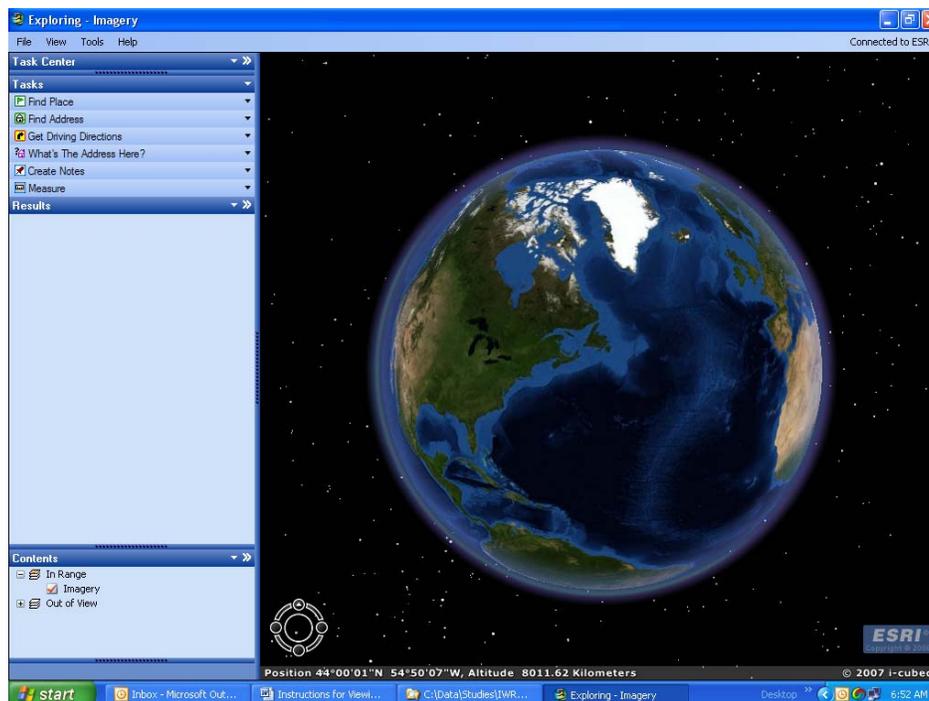
ArcGIS Explorer delivers an easy-to-use way to view and share information geographically. ArcGIS Explorer is free and can be downloaded from [ESRI](http://www.esri.com).

Download NaSS Locks.zip and NaSS Locks and Rivers.zip

After downloading and installing ArcGIS Explorer, download *NaSS Locks.zip* and or *NaSS Locks and Rivers.zip* from the [NaSS web site](http://www.nass.usda.gov). These zip files contain files named *NaSS Locks.nmf*, which contains information about Corps locks only, and *NaSS Locks and Rivers.nmf*, which contains information about both Corps locks and selected commercial navigation systems. The locks and rivers file is quite large, takes a significant amount of time to open, and can become sluggish when many river mile locations are viewed. For these reasons, the locks only file is provided.

Open .nmf File

When you launch the ArcGIS Explorer application you will see a screen similar to that below.



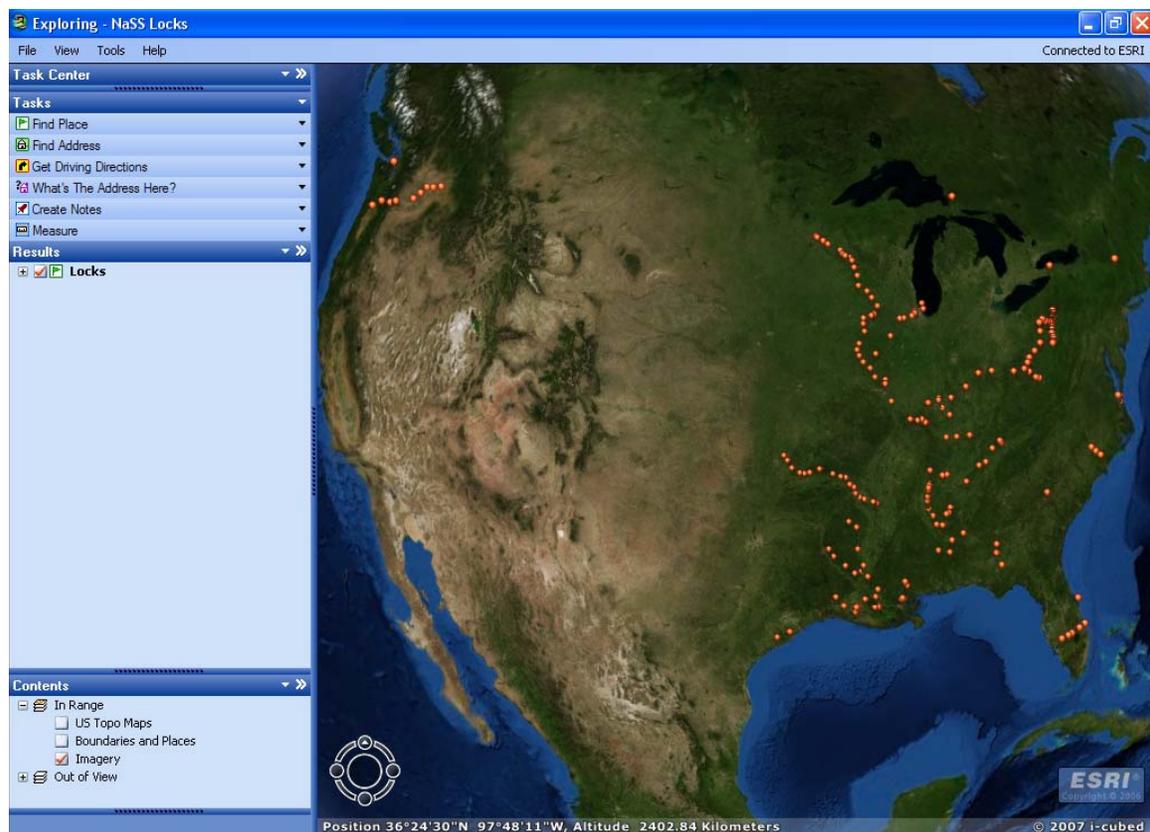
You can access ESRI's on-line help by clicking ***Help-ArcGIS Explorer Help***. A few usability tips will be provided here.

If you have a scrolling wheel equipped mouse, you may be able to zoom in and out on map side of the application by rolling the wheel forward and backward. If you are not able to use this feature you can zoom in and out by using the heads-up in the bottom left corner of the map.

You can click and drag the map image by clicking and holding the left mouse bottom and moving the mouse.

Open NaSS Locks.nmf or NaSS Locks and Rivers.nmf

To open the NaSS files click File-Open and navigate to the location of the .nmf file you want to open. Highlight the file and click Open. If you open the NaSS Locks.nmf file you will see a display like that below. The map shows the location of every lock with a red dot.



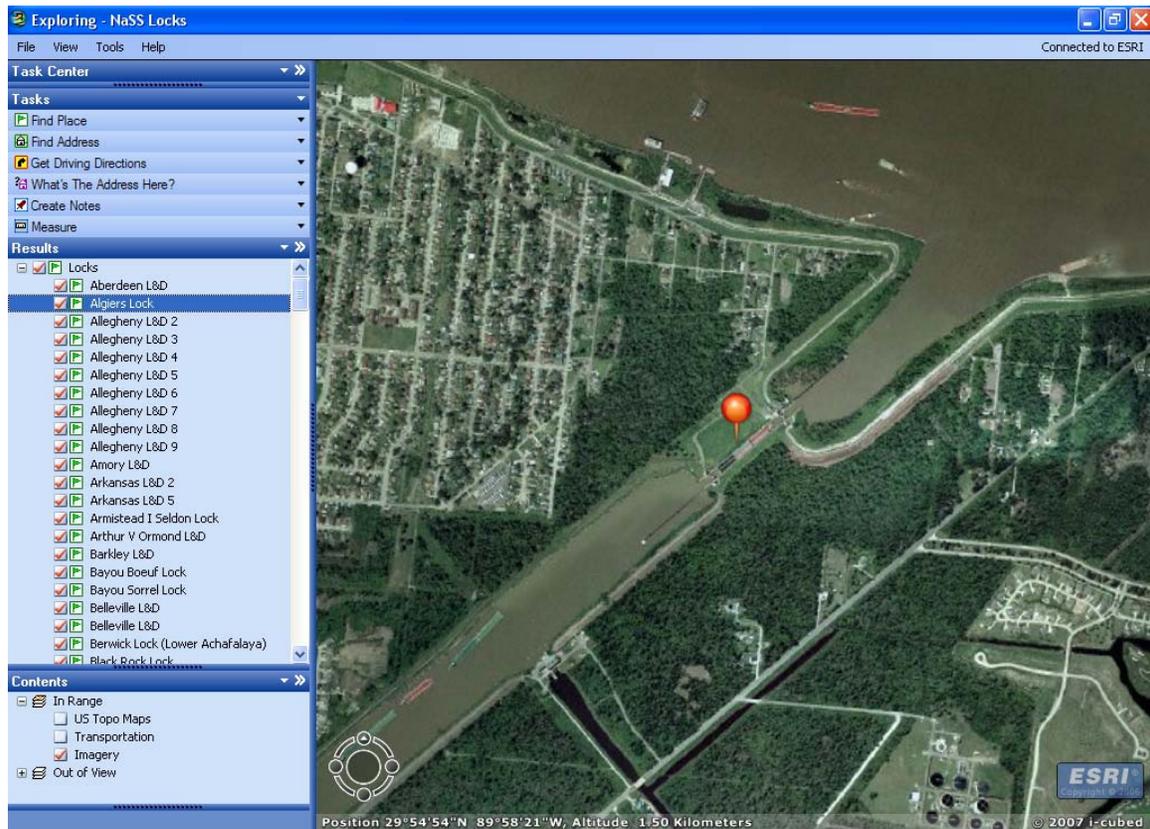
Navigate to a Lock Location

You can navigate to a lock several different ways.

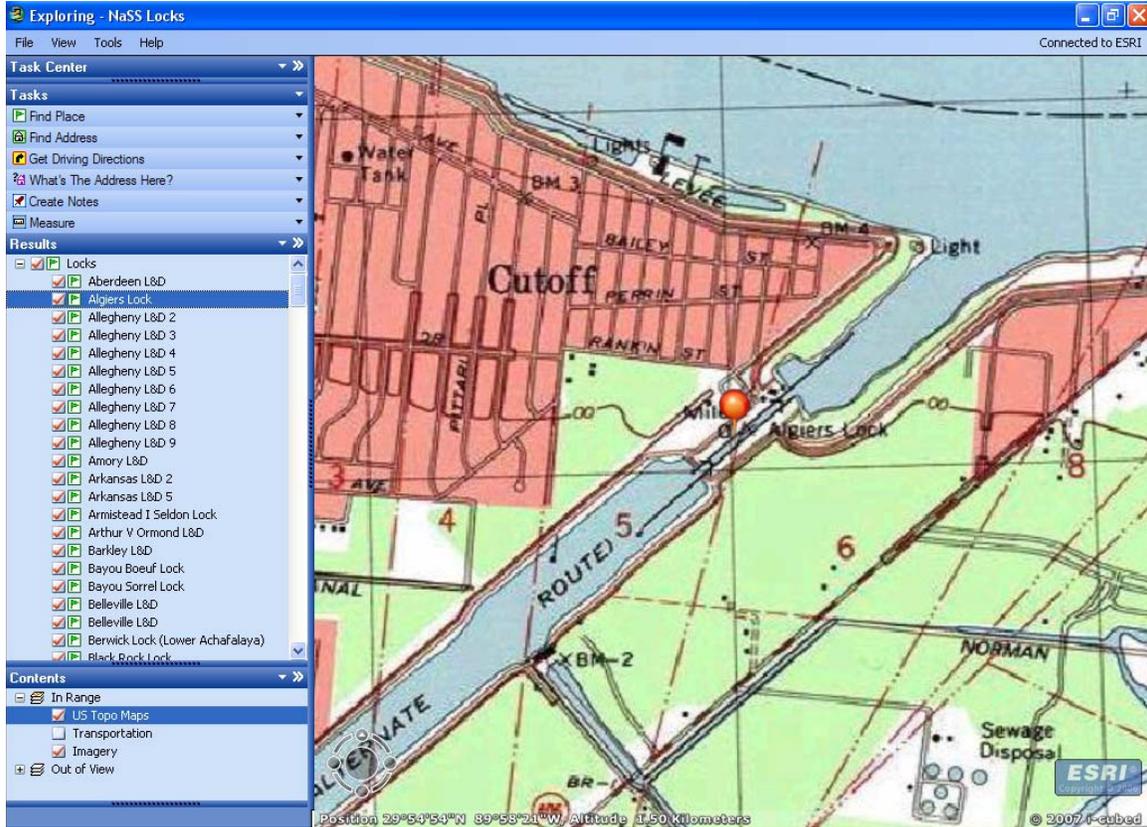
- You can use the zoom-and-drag method to move to the lock location
- You can hover the mouse pointer over a selected lock, right click on the lock, and click “Fly To”.
- You can select the lock in the Results pane on the left side of the screen. Do this by clicking the “+” symbol next to Locks in the Results pane. This will expand the selection to show each lock name in alphabetical order. Find the lock of interest, right click on the name, and click Fly To.

Viewing Lock Information

The picture below shows a “flown to” image of Algiers Lock.

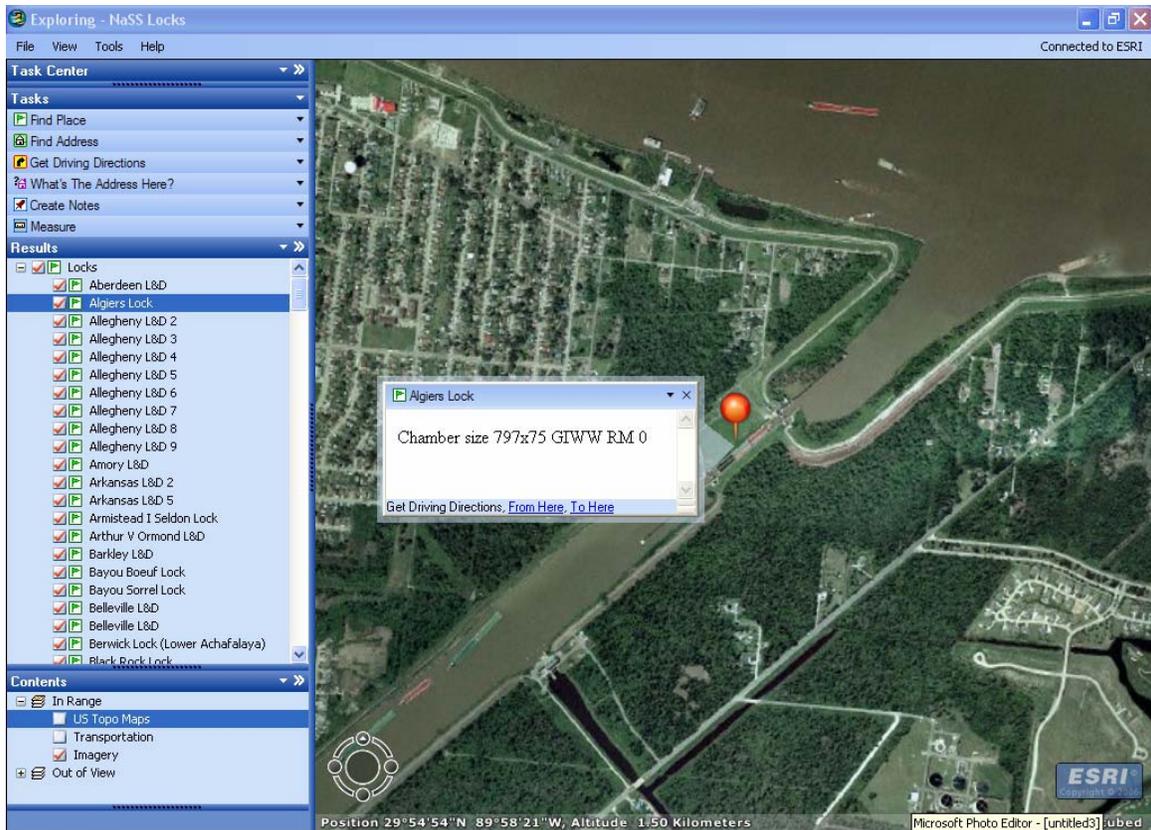


You can view the USGS topographic image of the area by clicking the box next to “US Topo Maps” in the Contents pane in the bottom left corner of the display. The picture below shows the same image using the US Topo Map image.



Additional Lock Information

Additional lock information is available by clicking on the lock’s red push pin. At the current time, the lock’s dimensions, waterway name, and river mile are available. The picture on the next page shows the additional information for Algiers Lock.

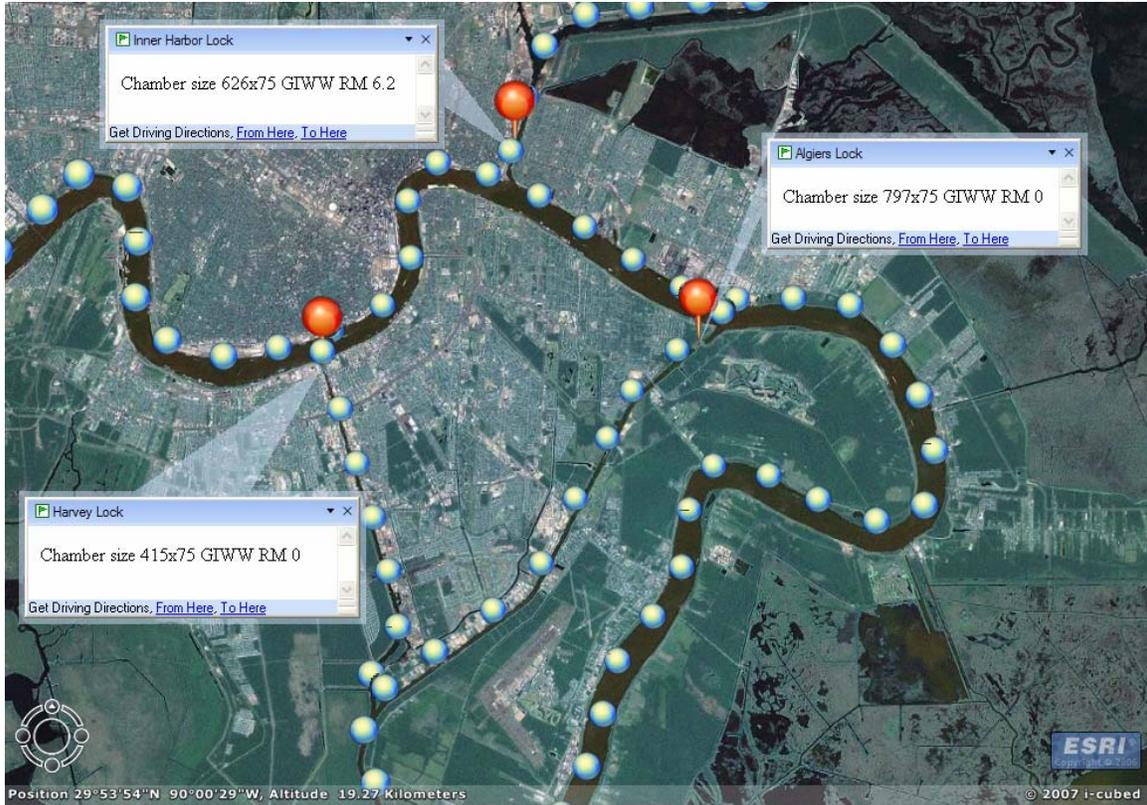


Adding Additional Information and Getting GIS Coordinates

ArcGIS Explorer provides an easy way for the user to add or modify the information shown when you click on an object. It also shows the latitude and longitude of the point. This information can be accessed by right-clicking on the object and select Properties. This brings up a Results Properties pane. This pane allows the user to view and modify the object name and its pop-up content. The latitude and longitude can be accessed by clicking on Location.

Example Images

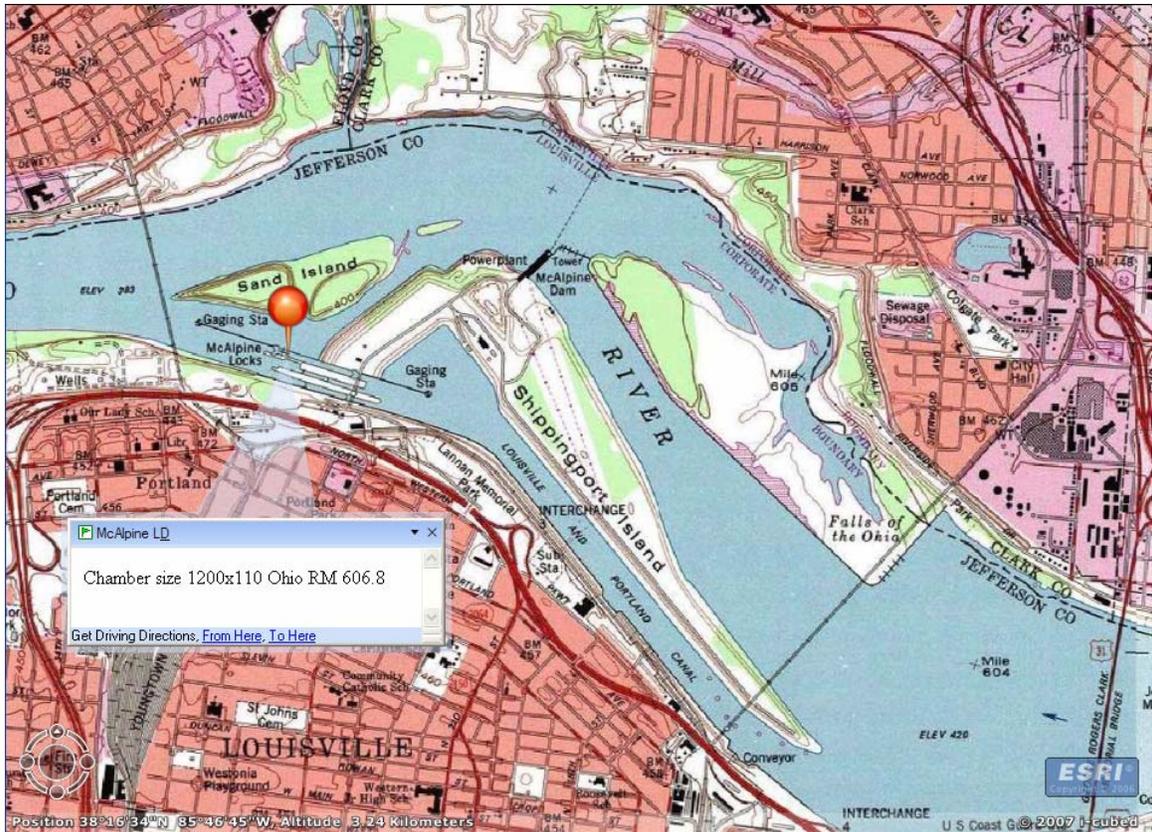
ArcGIS Explorer provides the ability to easily capture interesting and informative images. A few images that this user finds interesting are shown below.



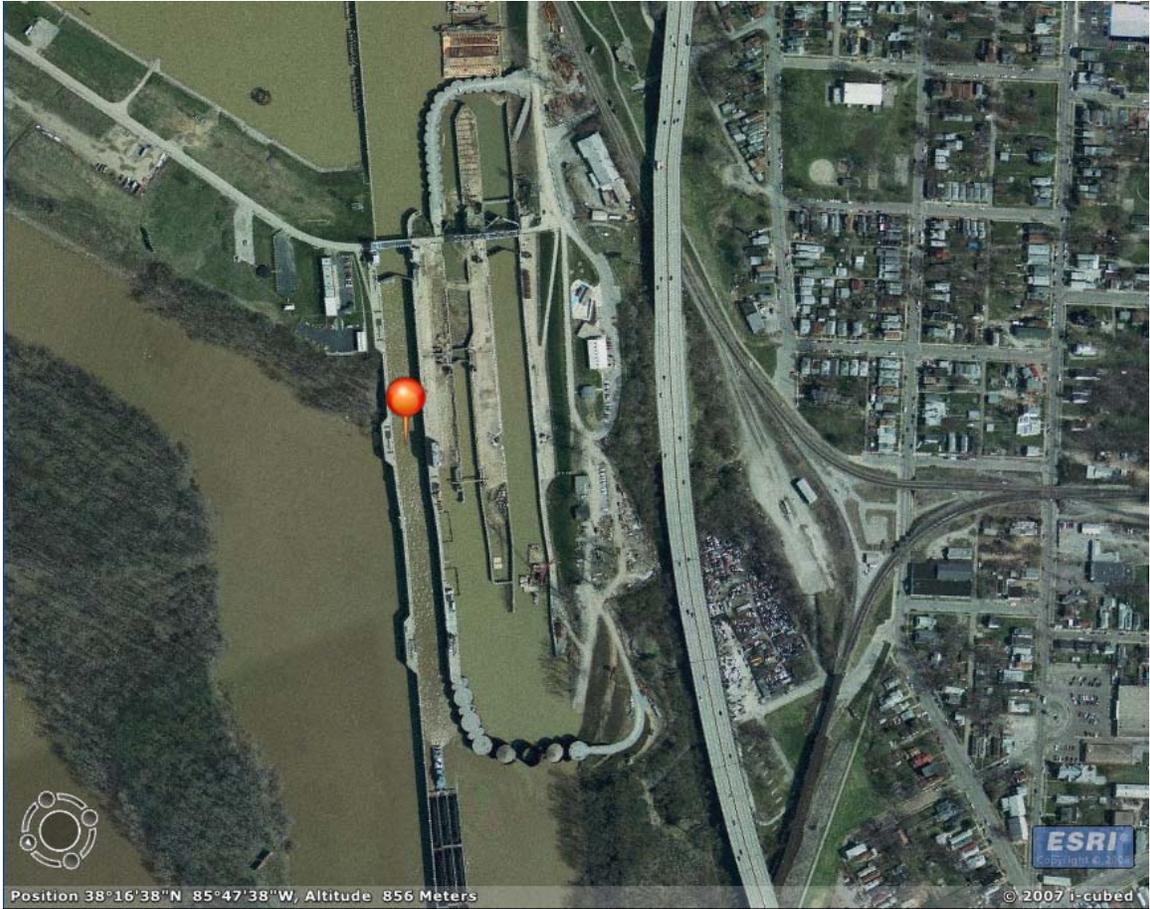
The image above shows the New Orleans LA area. It shows the relationship between the Inner Harbor Lock, Algiers Lock and Harvey Lock. The blue-green dots show the river mile points on the Lower Mississippi, GIWW West, GIWW East, and the Algiers Alternate route.



The picture above shows Willamette Lock. This image clearly shows the four locks chambers which are used in series to raise or lower vessels from one pool to the other. This is known as a four lift lock.



The picture above shows the topographic map view of the McAlpine Lock and Dam area. It clearly shows the original alignment of the Ohio River and the Falls of the Ohio. It also shows the Louisville and Portland Canal and the location of McAlpine Locks at the lower end of the canal.



This image shows the McAlpine Locks area. The existing 1200x110 chamber is marked with the red push-pin. The new chamber is under construction within the cofferdam structure.