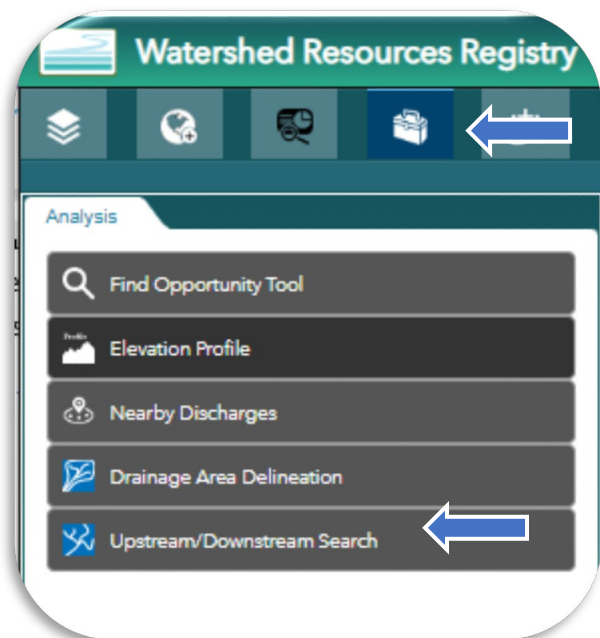


How to Use the Upstream/Downstream Search Tool

The Upstream/Downstream Search tool is a geoprocessing tool designed to take any point on the map and identify the flow of water to or from that point. The tool works by taking a user-designated point and snapping it to the nearest NHDPlus flowline based on NHDPlus flow direction data. Connecting NHDPlus flowlines, either upstream or downstream from the point are then identified on the map.

Accessing the Upstream/Downstream Search Tool

The Upstream/Downstream tool can be found under the Analysis Widget on the main tool panel



This will open a tool panel with two tabs: Input and Output.

In the Input tab, you must first select the 'Stream Selection Type'. There are five options as outlined below (example area: MD WRR - 79.29942, 39.65103):

Upstream/Downstream Search

Input Output

Stream Selection Type*

Upstream with Tributaries

Starting Point

Maximum Distance (Km)

Maximum Flow Time (Days)

Search For These Linked Data

- ☒ Assessment, Total Maximum Daily Load Tracking and Implementation System (ATTAINS)
- ☐ Clean Watersheds Needs Survey
- ☐ Fish Consumption Advisories ☐ Fish Tissue Data
- ☒ Facilities that Discharge to Water ☒ Facility Registry Service
- ☐ Water Quality Portal Monitoring Data
- ☒ Nonpoint Source Projects


Attribute Handling

Separated

Show Selected Streams*

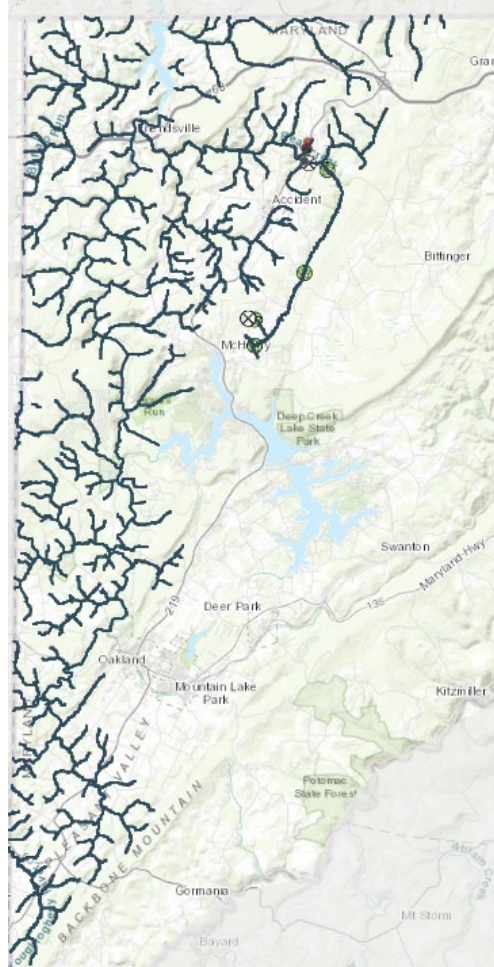
☐

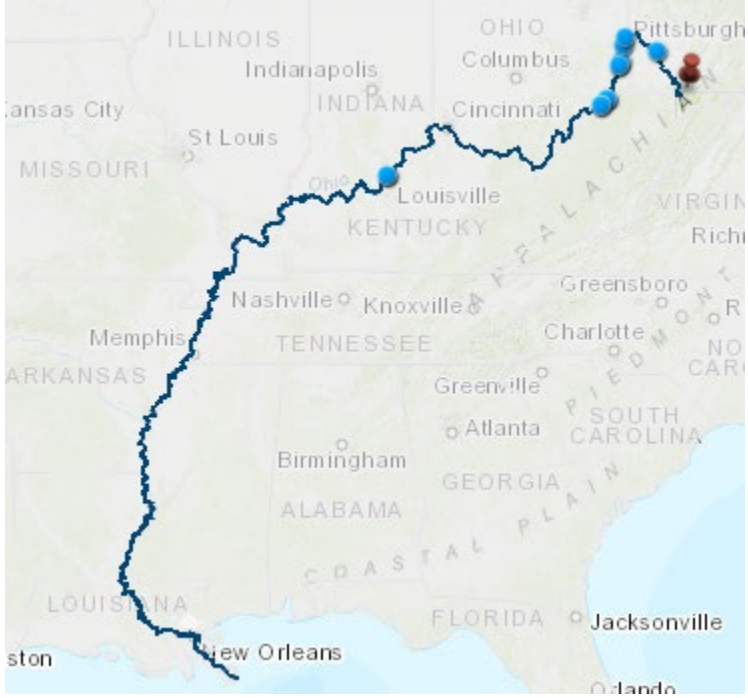

[Help](#) Execute

Option	Description	Snapshot
Upstream Main Path Only	Highlights the main flowline upriver of the dropped point	 <p>The snapshot is a topographic map showing a blue line representing the main flowline upriver of a dropped point. The map includes labels for 'Accident' and 'Inch Beal Creek'. A red pushpin is located at the top of the blue line.</p>

Upstream with
Tributaries

Highlights the
main flowline and
connecting
tributaries
UPRIVER of the
dropped point.



<p>Downstream Main Path Only</p>	<p>Highlights the main flowline DOWNSTREAM of the dropped point to its discharge point.</p>	 <p>This map displays the main flowline of a river system across the Eastern United States. The flowline is represented by a thick, dark blue line that starts at a red dot in Pittsburgh, Pennsylvania, and follows the river network southward through Ohio, Kentucky, Tennessee, Mississippi, and Louisiana, ending at New Orleans. Major cities and states are labeled, including Indianapolis, Cincinnati, Louisville, Nashville, Knoxville, Memphis, Birmingham, Atlanta, and Jacksonville. The Appalachian and Coastal Plain regions are also indicated.</p>
<p>Downstream with Divergences</p>	<p>Highlights the main flowline and connecting divergences DOWNRIVER of the dropped point.</p>	 <p>This map shows the main flowline and connecting divergences of the same river system. The flowline is a thick, dark blue line, and the divergences are shown as thinner, lighter blue lines branching off the main path. The map covers the same geographic area as the first map, showing the river network from Pittsburgh to New Orleans, with labels for major cities, states, and geographical features like the Appalachian and Coastal Plain.</p>

Click on the 'Starting Point' button and drop a point onto your desired location on the map. This point does not need to be on a river/stream for the tool to work.

Enter in the desired maximum distance (in kilometers) into the text box. This is best used if you want to constrain your trace to a small area. Otherwise leave it blank to ensure you capture the full upstream or downstream water course.

The Maximum Flow Time (Days) feature is not functional at this time and can be ignored.

Click the blue 'Execute' button. Give the map time to process this request. This tool can take a couple of minutes to work depending on the size of the trace.

Upstream/Downstream Search

Input Output

Stream Selection Type*

Upstream with Tributaries

Starting Point

Maximum Distance (Km)

Maximum Flow Time (Days)

Search For These Linked Data

- ☒ Assessment, Total Maximum Daily Load Tracking and Implementation System (ATTAINS)
- ☐ Clean Watersheds Needs Survey
- ☐ Fish Consumption Advisories ☐ Fish Tissue Data
- ☐ Facilities that Discharge to Water
- ☐ Facility Registry Service
- ☐ Water Quality Portal Monitoring Data
- ☐ Nonpoint Source Projects

Attribute Handling

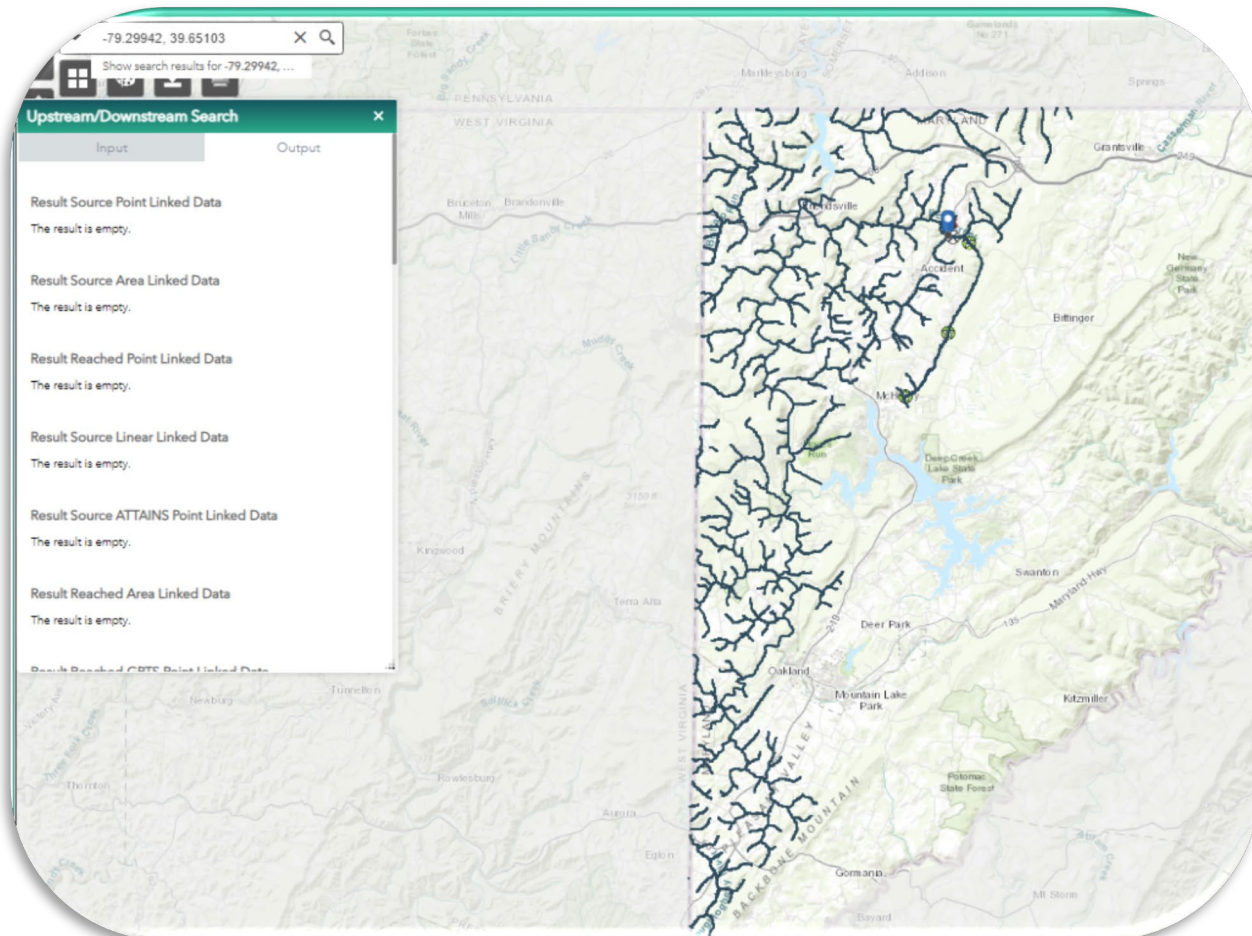
Separated

Show Selected Streams*

[Help](#)

Execute

When the tool has finished processing the tool panel will automatically shift to the Output tab. Clicking on the ellipses next to any of the results will give you access to pop-ups, statistics, and attribute tables.



If you navigate to the Active Layer List, all the results will be available as data layers. These layers can be manipulated further and turned on and off as desired.

To reset this tool, navigate back to the Input tab on the Delineation pop-up. There is a red button with a trash can icon. Select this.



This will remove the point from the map. The results will remain. To remove the results from your map, uncheck the boxes on the Active Layer List.

