

NCDOT Construction Project Tracker Tool

User Guide



NCDOT, GIS Unit
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NCDOT Construction Project Tracker Tool: User Guide

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Overview

The **NCDOT Construction Project Tracker Tool** provides access to spatial and HiCAMS tabular data for NCDOT projects currently under construction that are associated with a TIP.

Using the tool, projects can be filtered to provide a more customized view of project information.

Construction projects are categorized on construction percent complete vs dollars spent variance. The variance is calculated as follows: **Construction % Complete – Financial % Complete**.

The **NCDOT Construction Projects (Lines) Layer** consists of construction projects represented as lines to provide fast and clear filtering and display.

The **NCDOT Construction Projects (Points) Layer** consists of the same construction projects represented as points. This information is for small-scale display purposes and does not participate in filtering.

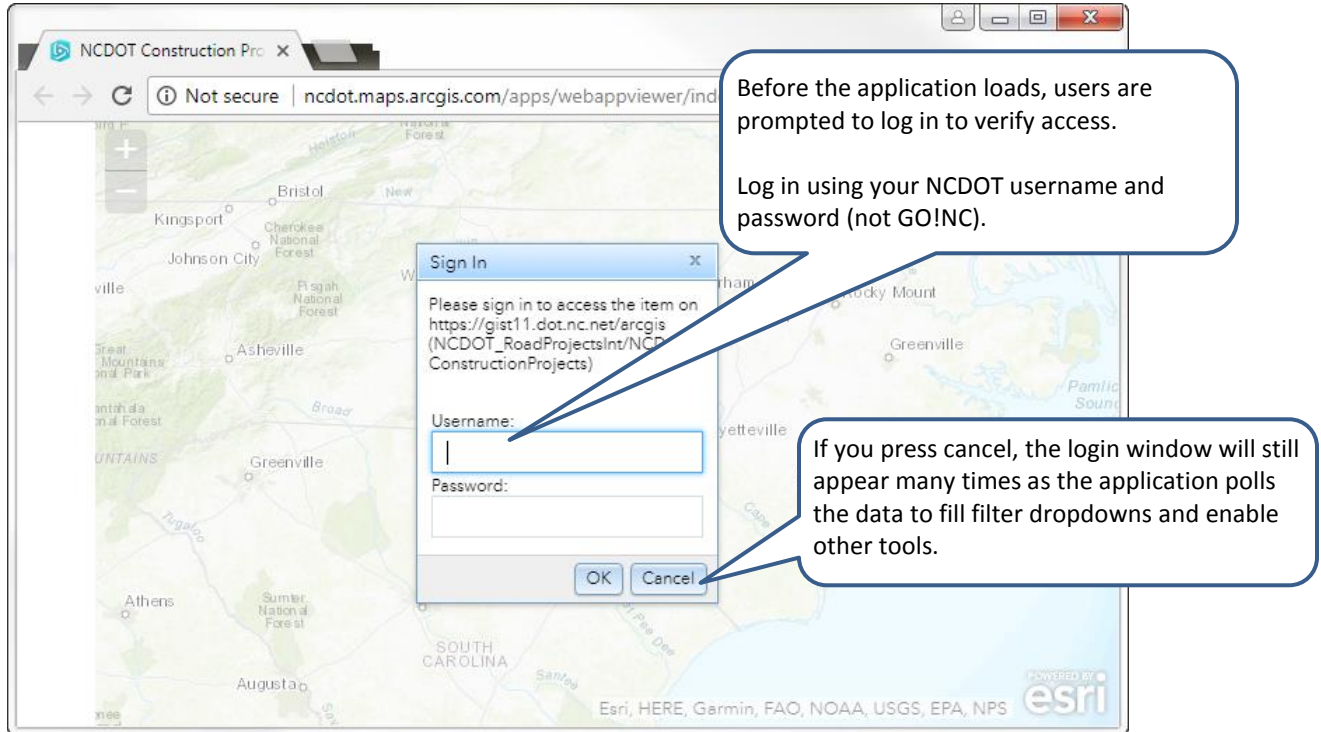
Unmapped HiCAMS Contracts is a table consisting of HiCAMS projects for which there is no spatial representation, yet.

The project point and line spatial data does not represent all projects under construction. The HiCAMS data is updated nightly. There may be a lag between the spatial data update and HiCAMS data update.

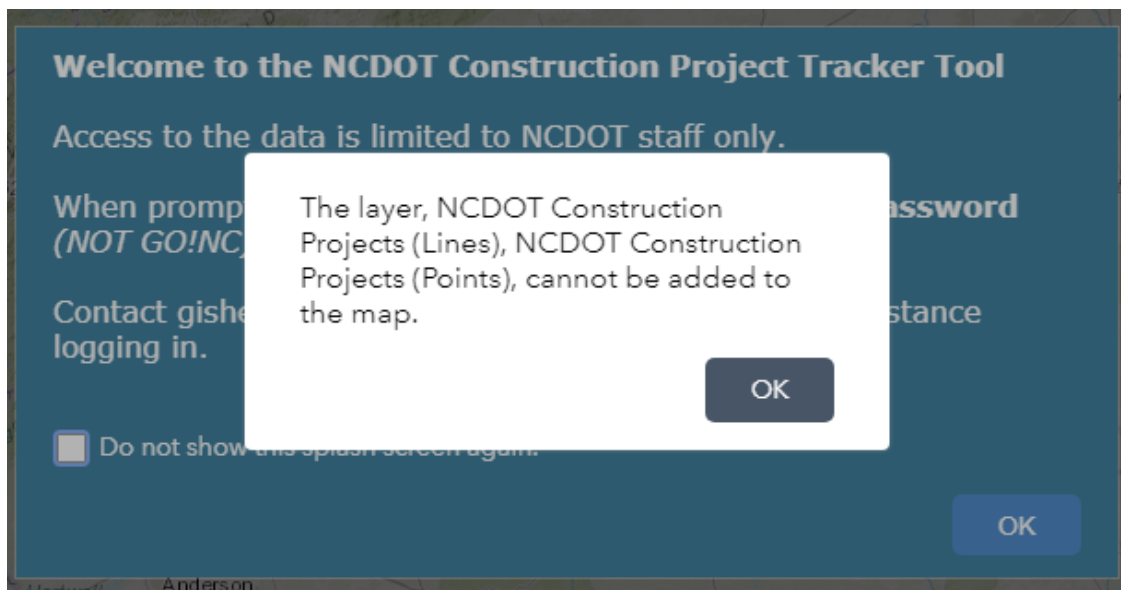
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Access

Access to the construction project data is limited to NCDOT staff only. Use your NCDOT username and password; NOT GO!NC.



If you do not have access to the data (or cancel the login process), the following message will appear. After you click OK, the application loads, but does not fully function.



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Key Tools

About: Information about the tool and a link to this document.

Add Data: Add other data to the map, such as STIP. Or search GO!NC.

Search: Find and zoom to specific TIPs or Contract Numbers. Also, addresses, cities, and other places.

Filter: Filters the point data based on criteria. Click the arrow on the left of each to view options.

Basemap Gallery: Switch to another basemap to view different reference information.

Layer List: Provides tools to manage the layers in the map – e.g. toggle on/off, view table, enable popups.

Slide the panel out of the way to view more map.

Attribute Table: Show and hide the tabular view of visible data. You can export the tabular data, too.

The screenshot shows a web browser window displaying the NCDOT maps application. The interface includes a search bar at the top with the text "Find Place, Contract #, TIP". Below the search bar is a toolbar with icons for home, full screen, and other map functions. On the left side, there is a sidebar with a "Filter" section containing a funnel icon and a "Layer List" section with various layer names and toggle switches. The main map area shows a map of North Carolina with various colored points and lines representing construction projects. The map includes labels for major cities like Asheville, Charlotte, Raleigh, and Winston-Salem, as well as geographical features like the Piedmont and South Carolina. The bottom of the map shows a scale bar for 60 miles and coordinate information.

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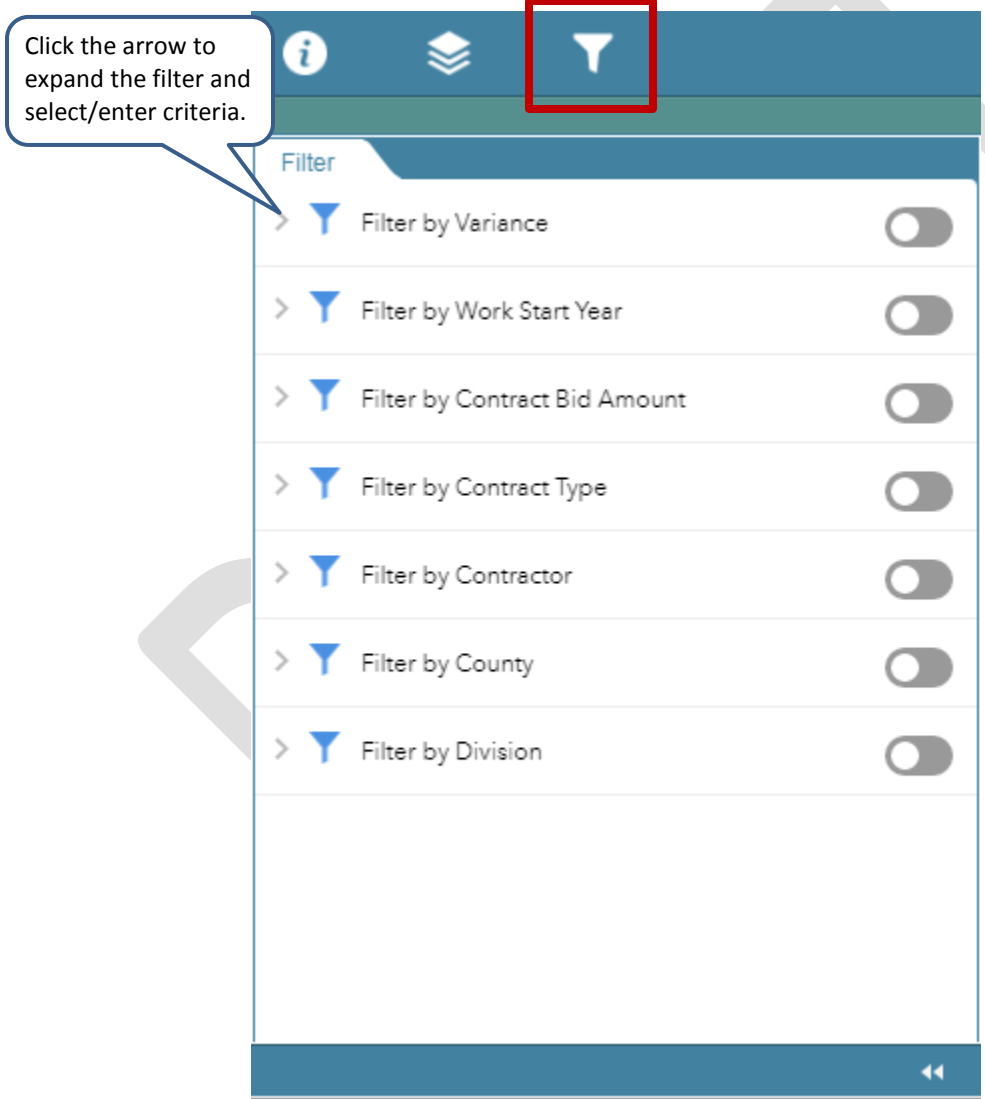
Filter Tool

The filter tool allows you to view subsets of the **NCDOT Construction Projects (Points)** on the map based on selected criteria.

All filters are used together. So, for example, if you filter by work start year = 2016 and county = Alamance, the map will show projects (points) started in 2016 only in Alamance county.

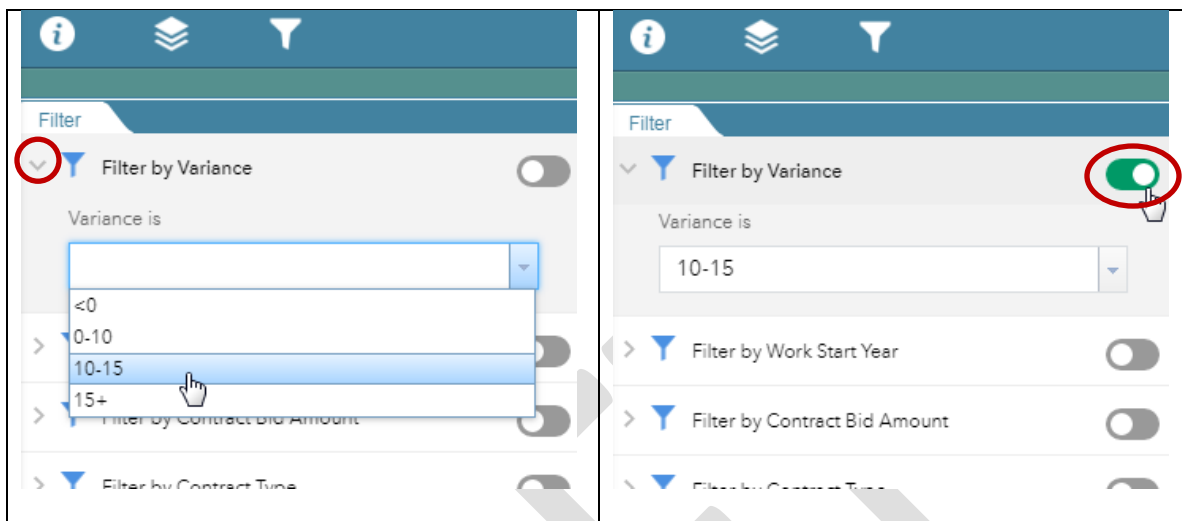
The following are tips for using the Filter Tool.

1. The application opens with the focus on the Filter tool. To return to the Filter tool, click on the Filter icon above the panel.

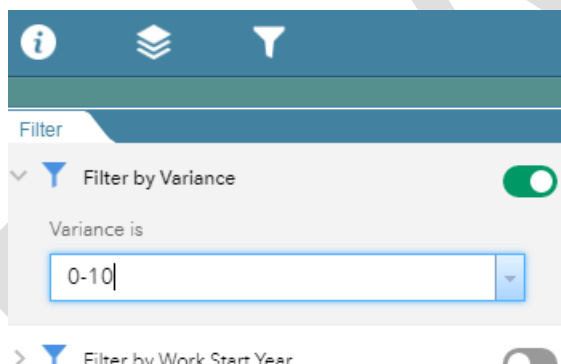


TIP: If you are using the application on a mobile device, you may need to be very precise when tapping the arrow to expand or close the filter.

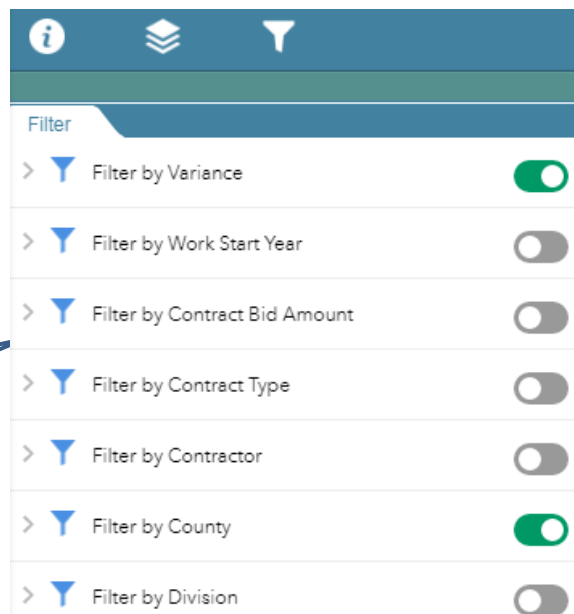
- To use each filter, click on the arrow to the left to view options. Select/enter criteria and slide the toggle on and off to apply or remove the filter.



- If the slider is green, the filter is applied. If the slider is green, the filtering will automatically change when you select different criteria.



Slide this on to apply the filter. Slide it off to remove the filter.



These sliders indicate that Filter by Variance and Filter by County are applied.

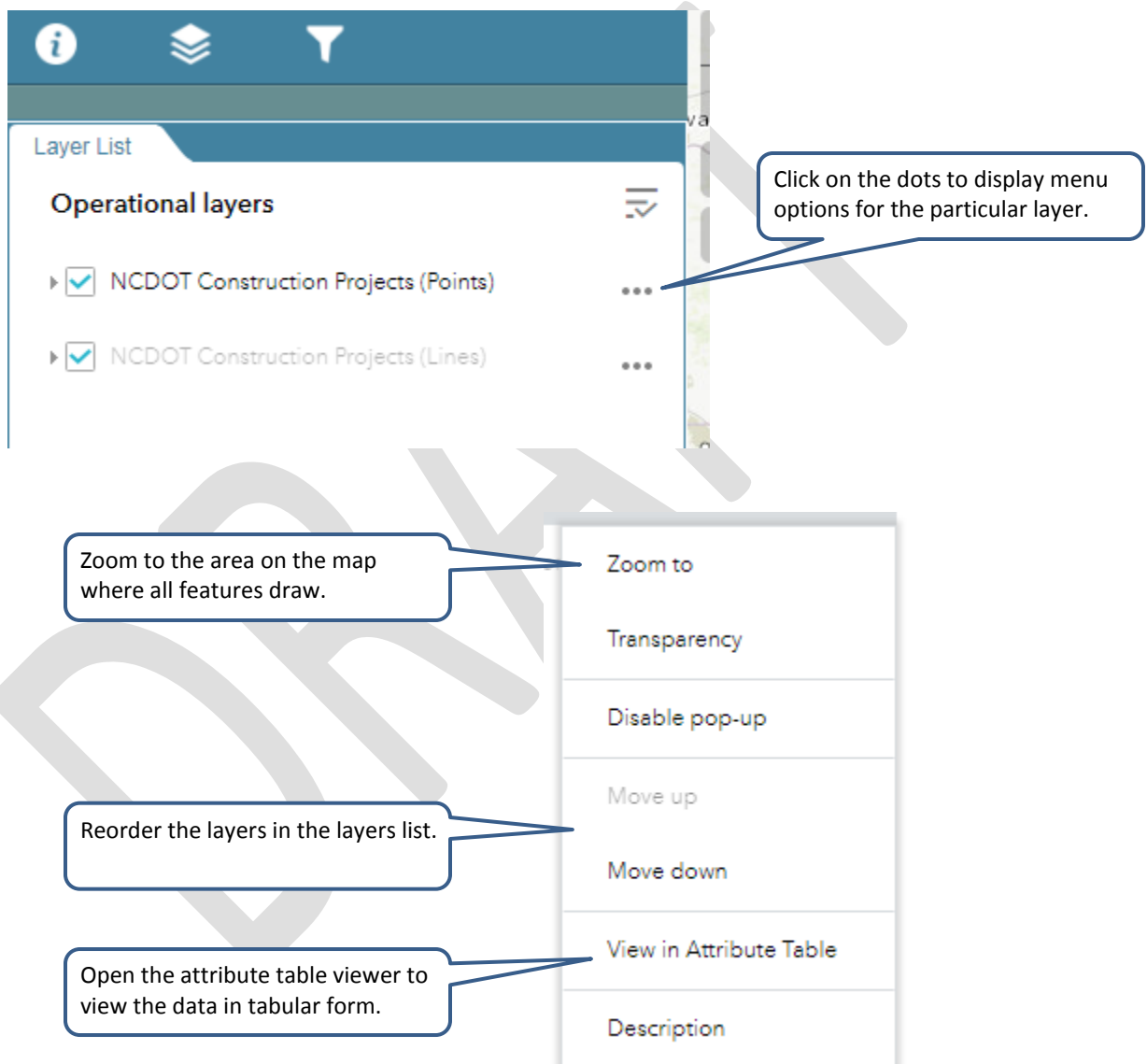
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Layer List Tool

The Layer List tool lists the available layers in the map and allows you to toggle the display on and off. The tool also provides other layer-specific functions, including enabling/disabling popups and viewing the tabular data.

The following are tips for using the Layer List Tool:

1. You can view and access the available functions by clicking on the 3 dots next to the layer.

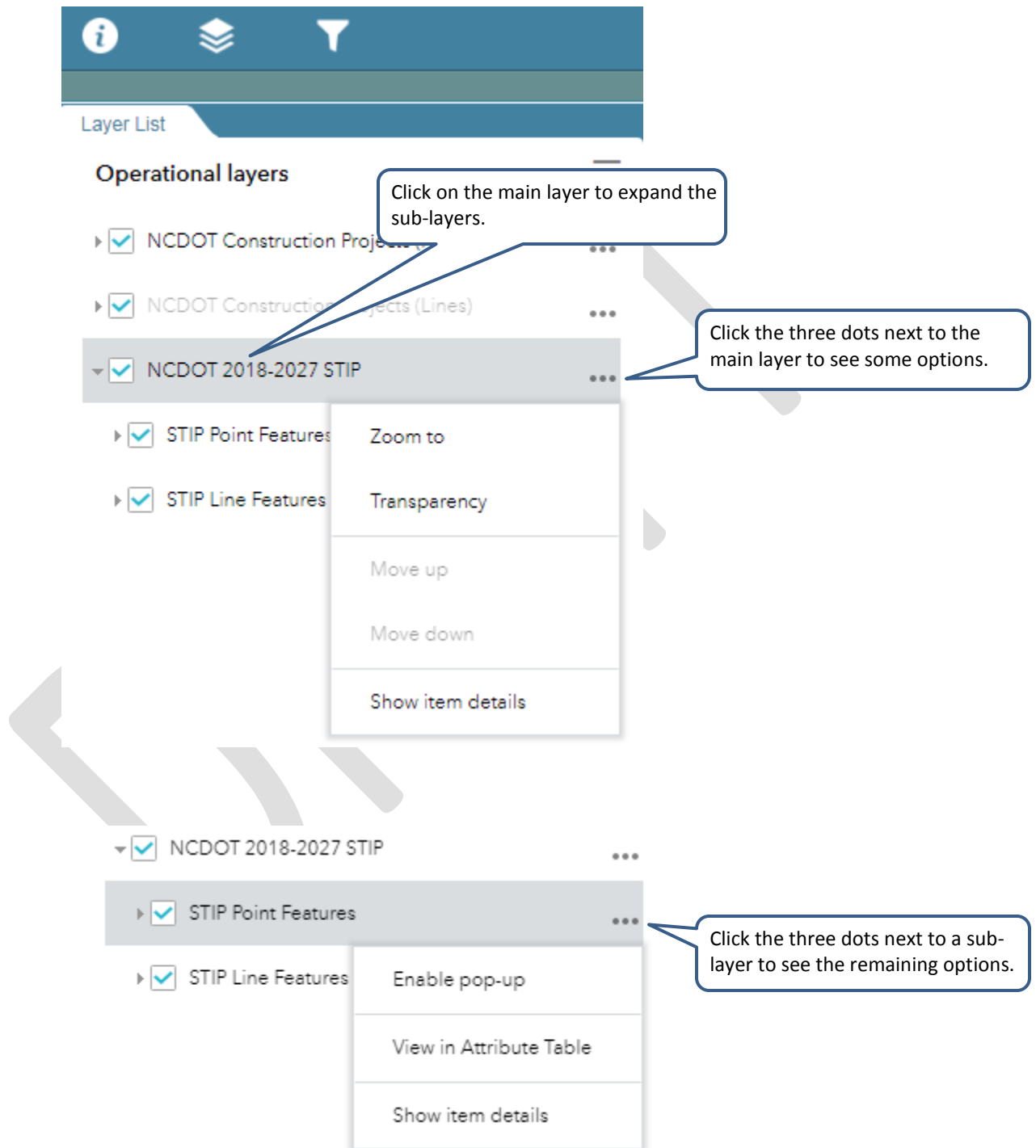


TIP: A grayed out layer means that its visibility is defined by a scale. Even if the layer is checked on, features will not draw until you zoom the map to the required scale.

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- Depending on the type of layer added, available options may be different, or be in different places.

For example, if you add the NCDOT 2018-2027 STIP data (see the “Add Data Tool” section), the options look a little different.



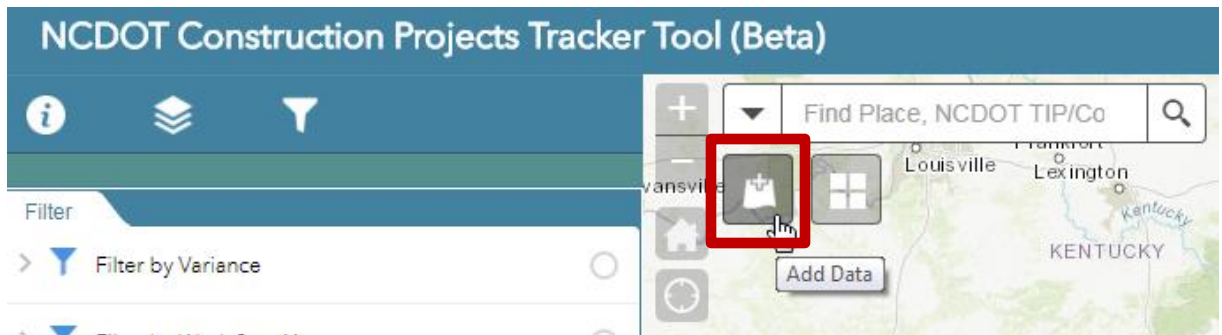
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Add Data Tool

The Add Data Tool allows you to add data layers to the map. When the tool first opens, the list of available layers will default to commonly used layers.

The following are tips for using the Layer List Tool:

1. Open the Add Data Tool by clicking on the icon on the map.



2. Use the tool to both add and remove layers.

Layer choices will be listed here.

Click "Add" to add the layer to the map.

After the layer is added, click "Remove" to remove it from the map.

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3. Search GO!NC for layers that are not on the default list.

The image consists of three screenshots of the 'Add Data' interface, illustrating the search process for layers not on the default list.

Top Screenshot: The 'Add Data' panel shows 'Other Project Data' selected in the dropdown menu. A callout box points to the dropdown with the text: "Click on the dropdown and select GO!NC." Below the dropdown, the 'GO!NC' option is highlighted. A search box contains the text 'Boundary'. The list of results shows 'Other Project Data' as the only item.

Middle Screenshot: The 'Add Data' panel shows 'GO!NC' selected in the dropdown menu. A callout box points to the search box with the text: "Use the Search box to narrow down the list." The search box contains the text 'Boundary'. The list of results is filtered to show four items: 'NCDOT County Boundaries', 'NCDOT Division Boundaries', 'NCDOT City Boundaries', and 'NC County Boundary Feature Service'. Each item includes a small map thumbnail and 'ADD' and 'DETAILS' buttons.

Bottom Screenshot: The 'Add Data' panel shows 'Other Project Data' selected in the dropdown menu. A callout box points to the search box with the text: "Don't forget to remove the search words when you switch between lists." The search box is empty. The list of results is empty, with the text 'No results were found.' displayed below the list.

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4. If you've added several layers, use the "LAYERS" option to more easily manage them.

The screenshot displays the 'LAYERS' management interface. At the top, two layers are visible: 'NCDOT City Boundaries' and 'NCDOT Division Boundaries'. Below them, a navigation bar shows '<< < 1 > 819 Items' and a 'LAYERS' button. A callout box points to the 'LAYERS' button with the text: 'Click here to view a list of all added layers.'

An 'Add Data' dialog box is open, showing a list of layers: 'NCDOT 2018-2027 STIP', 'NCDOT City Boundaries', and 'NCDOT County Boundaries'. Each layer has a trash icon to its right. A callout box points to these trash icons with the text: 'Remove the layers you no longer need.'

At the bottom of the dialog, there is a 'BACK >>' button. A callout box points to it with the text: 'Return to the search option.'

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Attribute Table Viewer

The tabular data can be viewed by feature through popups (click on a feature on the map) or by using the attribute table. The attribute table also allows you to further filter data, change the listed fields, and export the data into a format viewable as a spreadsheet.

The following are tips for using the Attribute Table Viewer:

1. Initial Attribute Table Viewer Content.

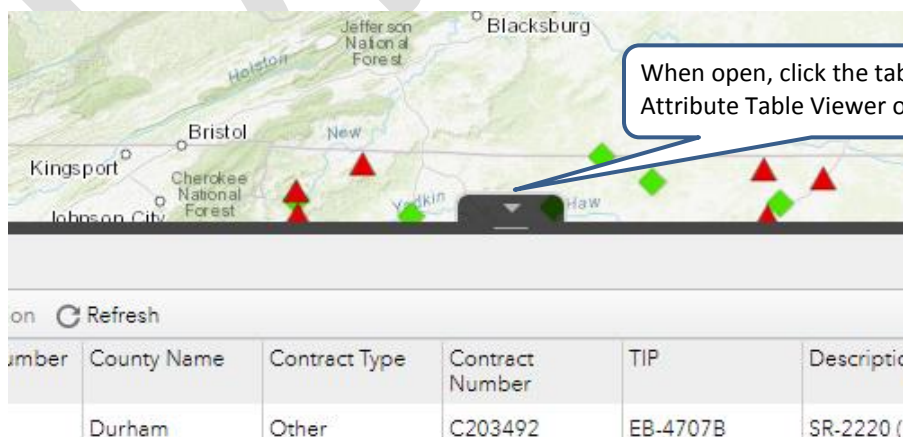
When the application loads, the NCDOT Construction Projects (Points) data is loaded into the Attribute Table Viewer and is permanently available.

2. Opening/Closing the Attribute Table Viewer.

To open the Attribute Table Viewer, click on the tab at the bottom of the browser page. To close it, click it again.



Click the tab to raise that Attribute Table Viewer into view.



When open, click the tab to lower the Attribute Table Viewer out of view.

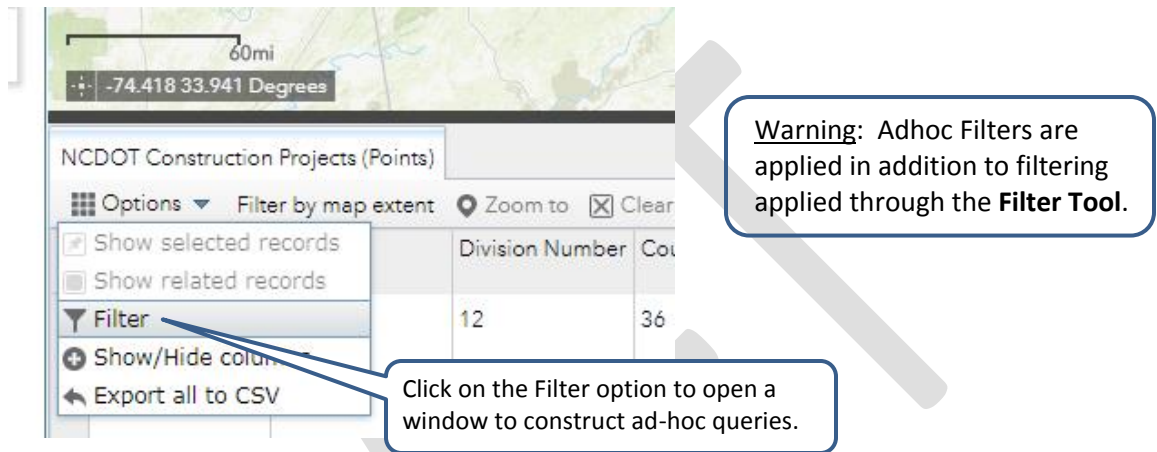
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3. The Attribute Table Viewer and the Filter Tool

The results from the Filter Tool are reflected in the Attribute Table for the the NCDOT Construction Projects (Points).

4. The Attribute Table Viewer and the Filter Option

Adhoc filtering can be performed on layers through the Attribute Table Viewer.



5. Export Attribute Data.

Export all or filtered tabular data for any layer viewed through the Attribute Table Viewer.

