

# Appendix B - NC GREAT Grant Online Mapping Tool Instructions

NC GREAT Grant Online Mapping Tool:

<https://nconemap.maps.arcgis.com/apps/webappviewer/index.html?id=72f01e944bde425ca07523d06a59c232>

**About**

Zoom in on the map to display the North Carolina 2014 Master Address Data.

In the Select tool, check the box next to the NC Master Address Layer and click to create a polygon around Address Points to select locations. Double-click to finish drawing your selection area. Holding Shift and drawing a subsequent polygon will allow you to add to the selection without losing your previous selection.

Once all locations to be served are selected, using the "..." button next to the number of selected locations will give options for exporting the selection. Select "Export to CSV" to download the selected points as a comma delimited excel file.

The Pie Chart in this map will change based on the user selection to display what percentage of the selected addresses are within each of the speed tiers represented in the map. These speed tiers are based on the FCC Form 477 provider reported data, June 2019 release.

**Legend**

**GREAT Ineligible Areas**

**FCC Less Than 10mb/s Download and 1mb/s Upload**

**FCC Less Than 25mb/s Download and 3mb/s Upload**

**NC County Boundary**

**Percentage of Selected Address Points within FCC Speed Tiers**

Speed Tier	Percentage
Less Than 25/3	~1%
Less Than 10/1	~5%
Greater Than 25/3	~94%

**Select**







Select

Clear

**Layer**

- NC Master Address Dataset 2014
- Parcel Boundaries

## Important Layers:

CAF_BroadbandDeployments_NC	
NC Master Address Dataset 2014	
GREAT Ineligible Areas	
Parcel Boundaries	
FCC Less Than 10mb/s Download and 1mb/s Upload	
FCC Less Than 25mb/s Download and 3mb/s Upload	

- Connect America Fund Deployments
  - *Will only be visible in map when zoomed in to street level*
- NC Master Address Dataset – 2014 – dataset to use when submitting proposed locations for GREAT Grant applications.
  - *Will only be visible in map when zoomed in to street level*
- GREAT Ineligible Areas – Areas not meeting criteria outlined in the enabling legislation for the GREAT Program within S.L. 2018-5 and the amending legislation.
- NC Statewide Parcel Dataset – dataset to use when submitting proposed locations if a location is not represented by the NC Master Address Dataset
  - *Will only be visible in map when zoomed in to street level*
- FCC Form 477 Data representing census blocks with less than 10mb/s Download and 1mb/s Upload
- FCC Form 477 Data representing census blocks with less than 25mb/s Download and 3mb/s Upload

- The layers in the map can be turned on/off using the 'Layer List' (Red Rectangle in screenshot below) on the left of the map:

The screenshot displays a web-based GIS application interface. On the left, there is a sidebar with an 'About' section, a 'Legend' section, and a 'Pie Chart' section. The 'Legend' section is titled 'Layer List' and contains a list of layers with checkboxes. The 'Pie Chart' section is titled 'Percentage of Selected Address Points within FCC Speed Tiers' and shows a pie chart with two segments: 'Less Than 25/3' and 'Greater Than 25/3'. The main map area shows a map of North Carolina with various layers overlaid, including 'CAF\_BroadbandDeployments\_NC', 'NC Master Address Dataset 2014', 'GREAT Ineligible Areas', 'Parcel Boundaries', and 'FCC Less Than 10mb/s Download and 1mb/s Upload'. The map also shows a search bar at the top right and a 'Select' tool at the bottom.

**Legend (Layer List):**

- CAF\_BroadbandDeployments\_NC
- NC Master Address Dataset 2014
- GREAT Ineligible Areas
- Parcel Boundaries
- FCC Less Than 10mb/s Download and 1mb/s Upload
- FCC Less Than 25mb/s Download and 3mb/s Upload

**Pie Chart: Percentage of Selected Address Points within FCC Speed Tiers**

Speed Tier	Percentage
Less Than 25/3	~5%
Greater Than 25/3	~95%



- Zoom in to the area of interest by using your mouse wheel or the +/- buttons in the upper left of the map
  - Zooming in to a neighborhood level will turn on layers for Address Points, Parcel Boundaries, and imagery

The screenshot shows a web-based GIS application interface. The main map area displays a satellite view with a red overlay representing broadband deployment areas. Yellow dots represent address points, and pink lines indicate parcel boundaries. A search bar in the top right corner contains the text "Find address or place".

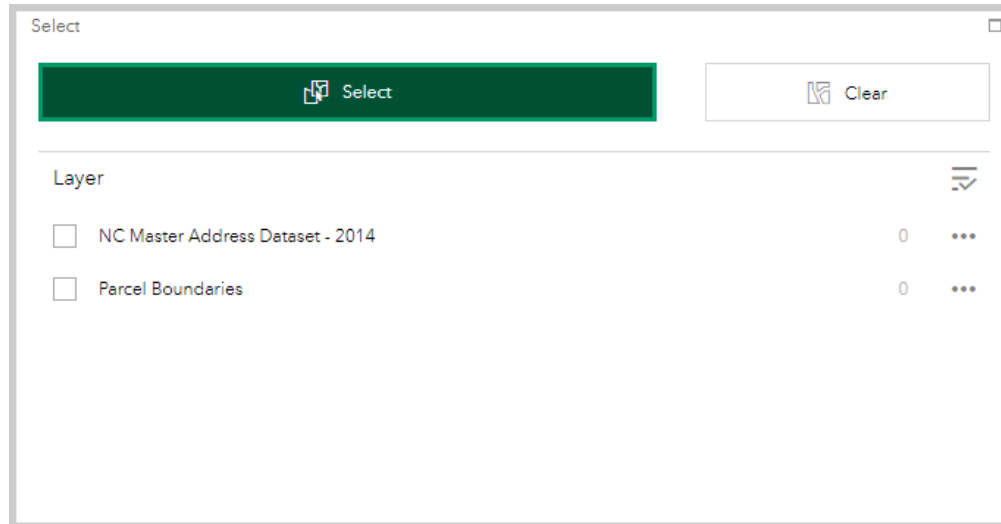
On the left side, there is a legend titled "Legend" and "Layer List". It includes the following items:

- CAF\_BroadbandDeployments\_NC (represented by a red dot)
- NC Master Address Dataset 2014 (represented by a yellow dot)
- GREAT Ineligible Areas (represented by a grey square)
- Parcel Boundaries (represented by a pink line)
- FCC Less Than 10mb/s Download and 1mb/s Upload (represented by a light red square)
- FCC Less Than 25mb/s Download and 3mb/s Upload (represented by a dark red square)

Below the legend is a pie chart titled "Percentage of Selected Address Points within FCC Speed Tiers". The chart shows two categories: "Less Than 25/3" (light green) and "Greater Than 25/3" (dark green). The "Less Than 25/3" category is significantly larger than the "Greater Than 25/3" category.

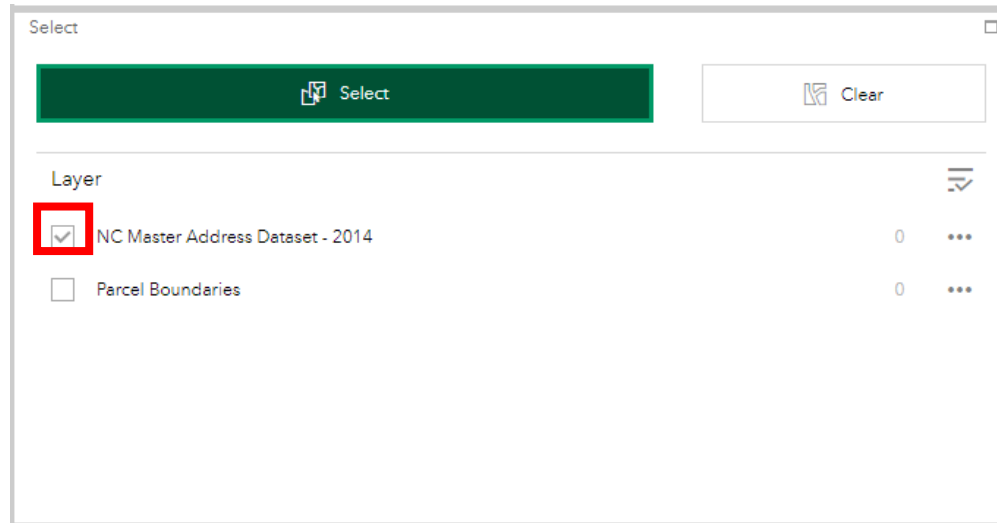
At the bottom of the interface, there is a "Select" tool with a green bar and a "Clear" button. Below that is a "Layer" list with checkboxes for "NC Master Address Dataset 2014" and "Parcel Boundaries".

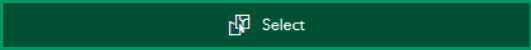

- To select address data, use the Select widget at the bottom of the map:



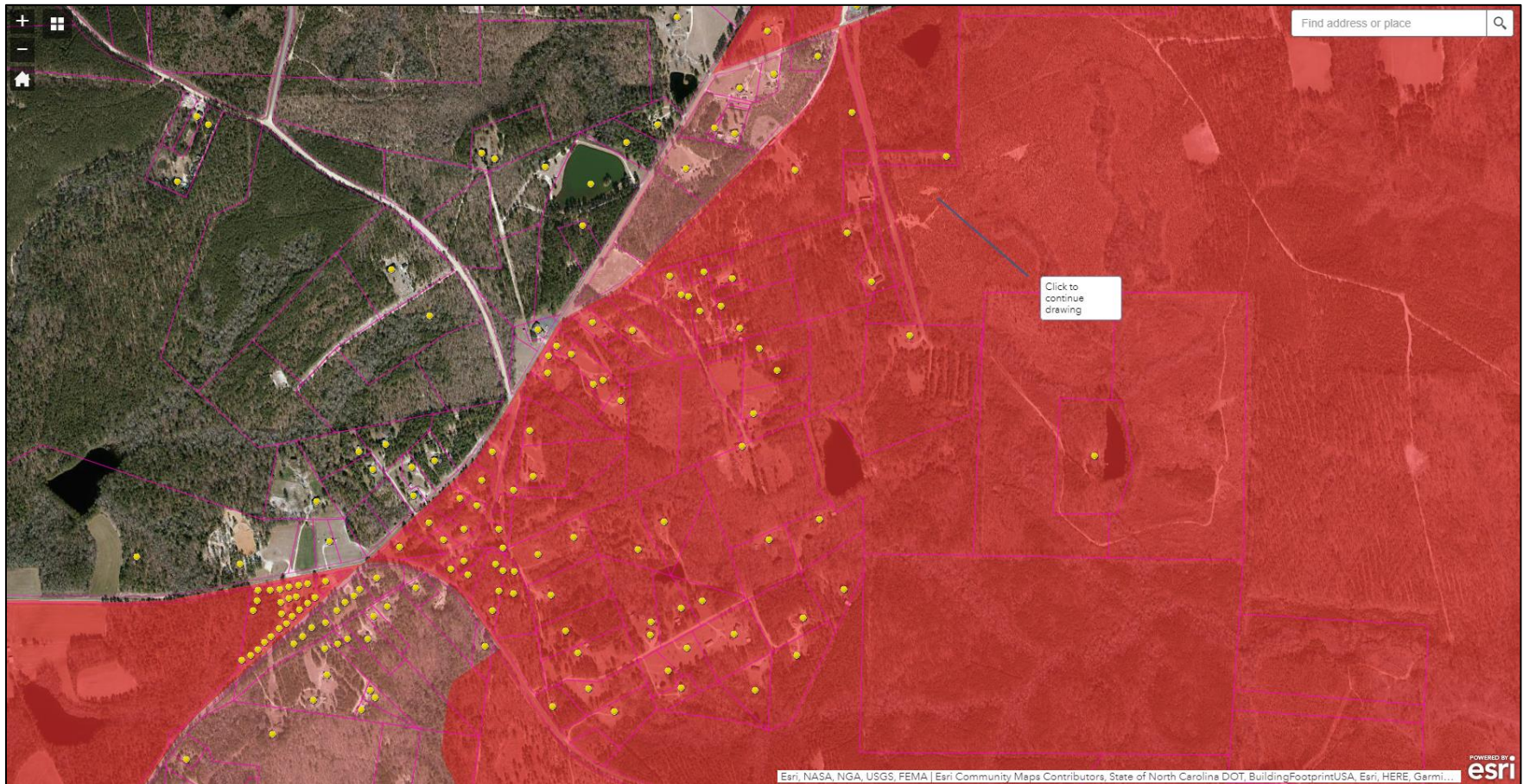
- First, check Address Dataset – 2014 to set this layer as the selectable dataset:

the box for the NC Master

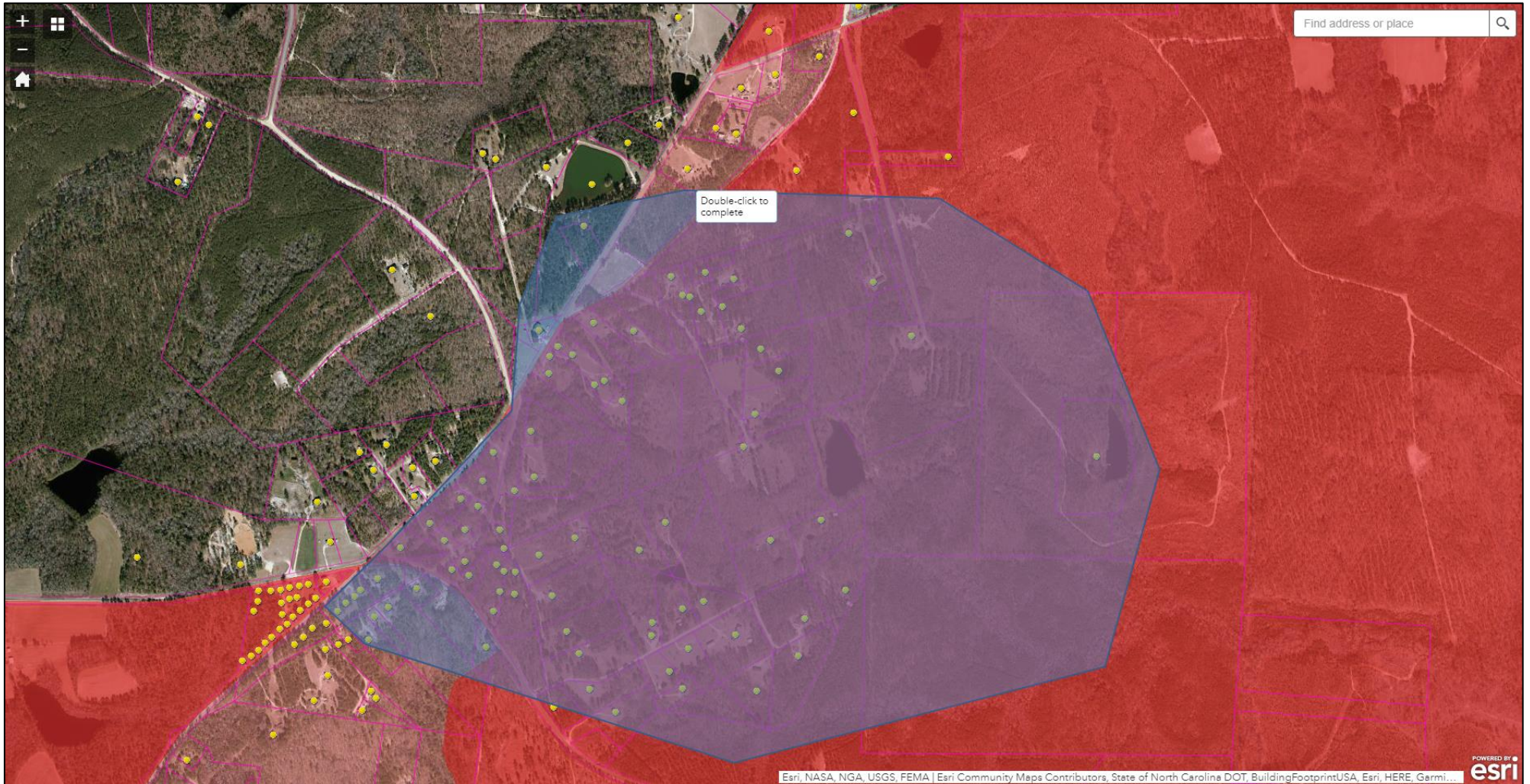


- The Select Tool should be active by default, but if it is not active, click the green Select button.
  - Active: 
  - Inactive: 

- With the Select Tool active, click once on the map to start drawing on the map:



- Continue clicking on the map to draw a blue/purple polygon around the points you want to select (all points within the polygon will be selected):

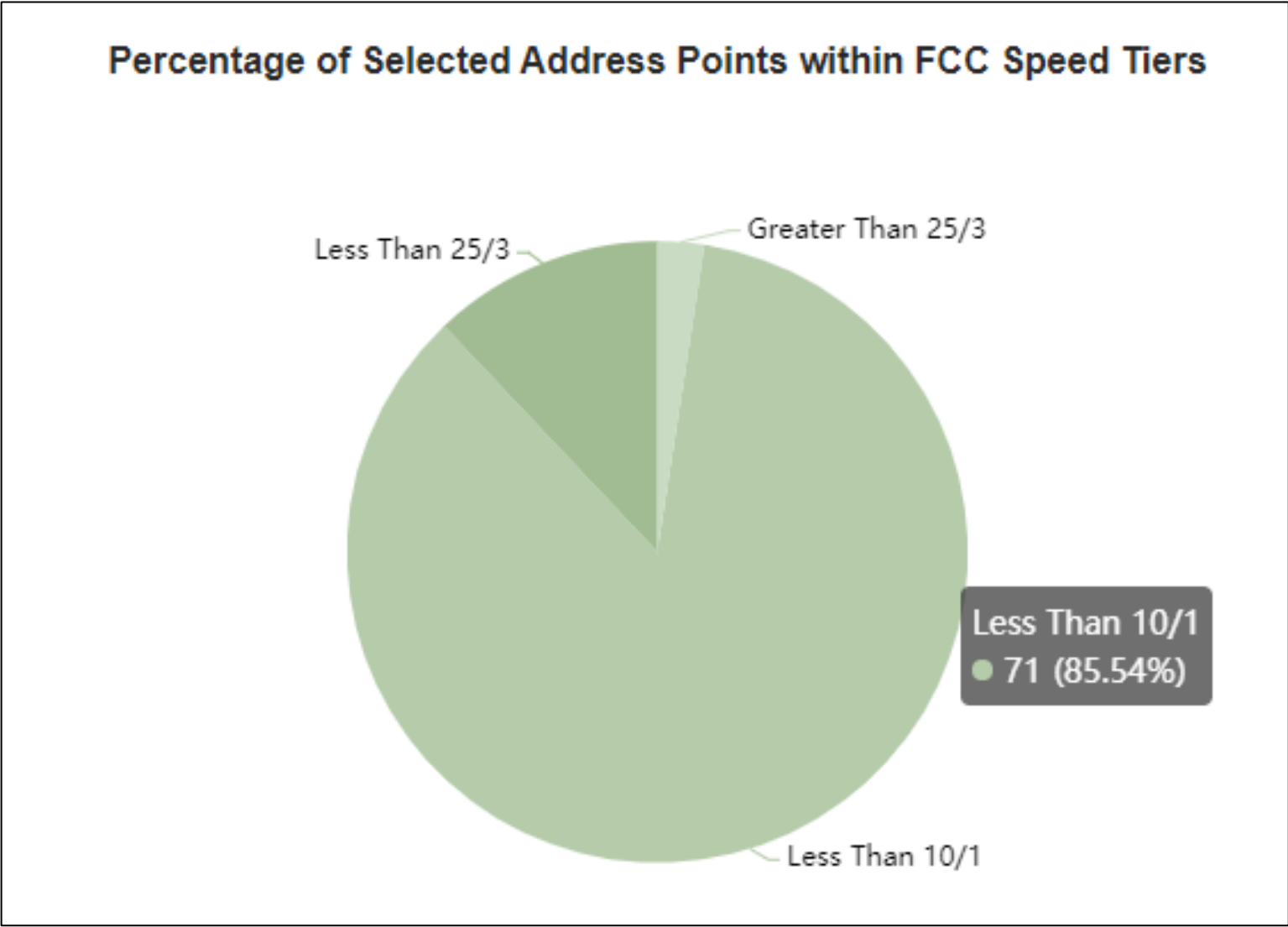




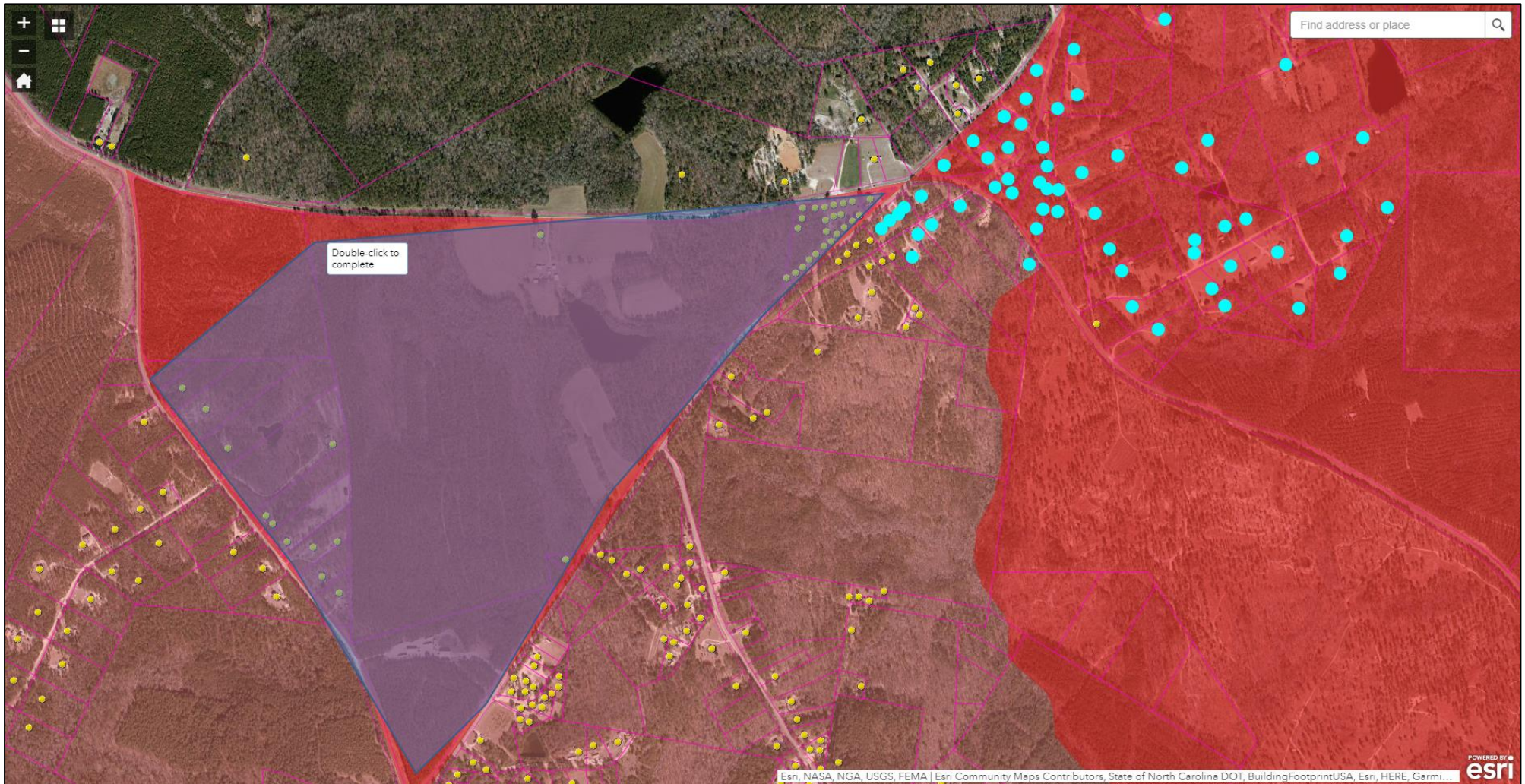
- Double-click to complete drawing the polygon and select all points within the polygon. Selected points will now show in light blue/cyan and the total number of selected addresses will be displayed in the Select Tool next to the address dataset (Red Rectangle in screenshot below):

The screenshot displays an ArcGIS web application interface. On the left, there is a legend and a pie chart. The legend includes layers for 'CAF\_BroadbandDeployments\_NC', 'NC Master Address Dataset 2014', 'GREAT Ineligible Areas', 'Parcel Boundaries', and two FCC speed tier categories. The pie chart, titled 'Percentage of Selected Address Points within FCC Speed Tiers', shows three segments: 'Less Than 25/3', 'Greater Than 25/3', and 'Less Than 10/1'. The main map area shows a satellite view with a red-shaded region and a cyan polygon. Address points are shown as yellow dots, with those inside the cyan polygon highlighted in light blue. At the bottom, a 'Select' tool is visible, showing a green bar and a 'Select' button. Below the tool, the 'Layer' list shows 'NC Master Address Dataset 2014' selected with a checkmark. A red rectangle highlights the number '82' next to the selected layer, indicating the total number of selected addresses.

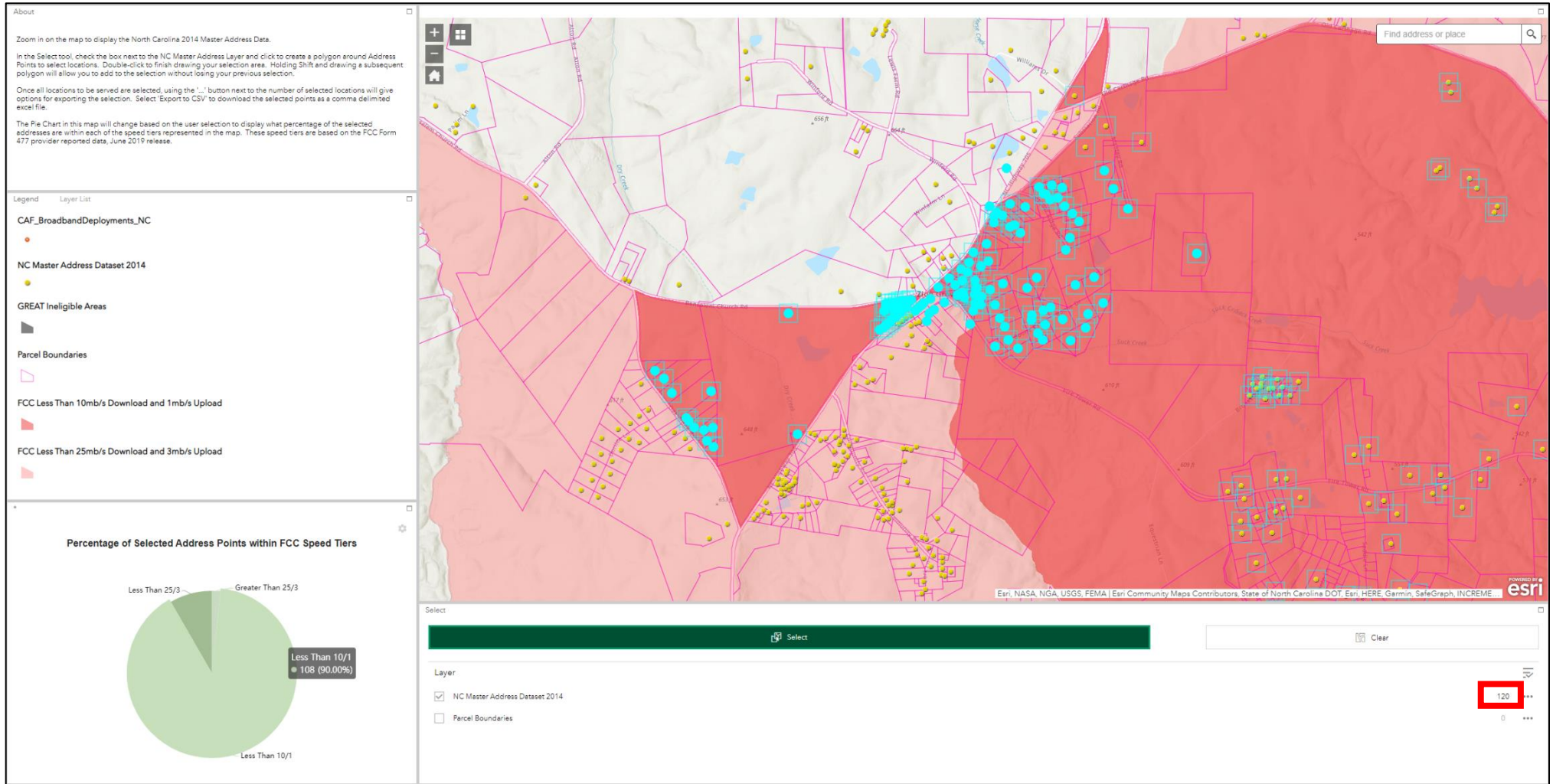
- Once a selection is made, the Pie Chart in the bottom left of the map will update to reflect how the selection compares with the FCC reported speeds of the selected addresses. Hovering the cursor over each of the pie segments will show the percentage of points that fall within the specific speed tier.



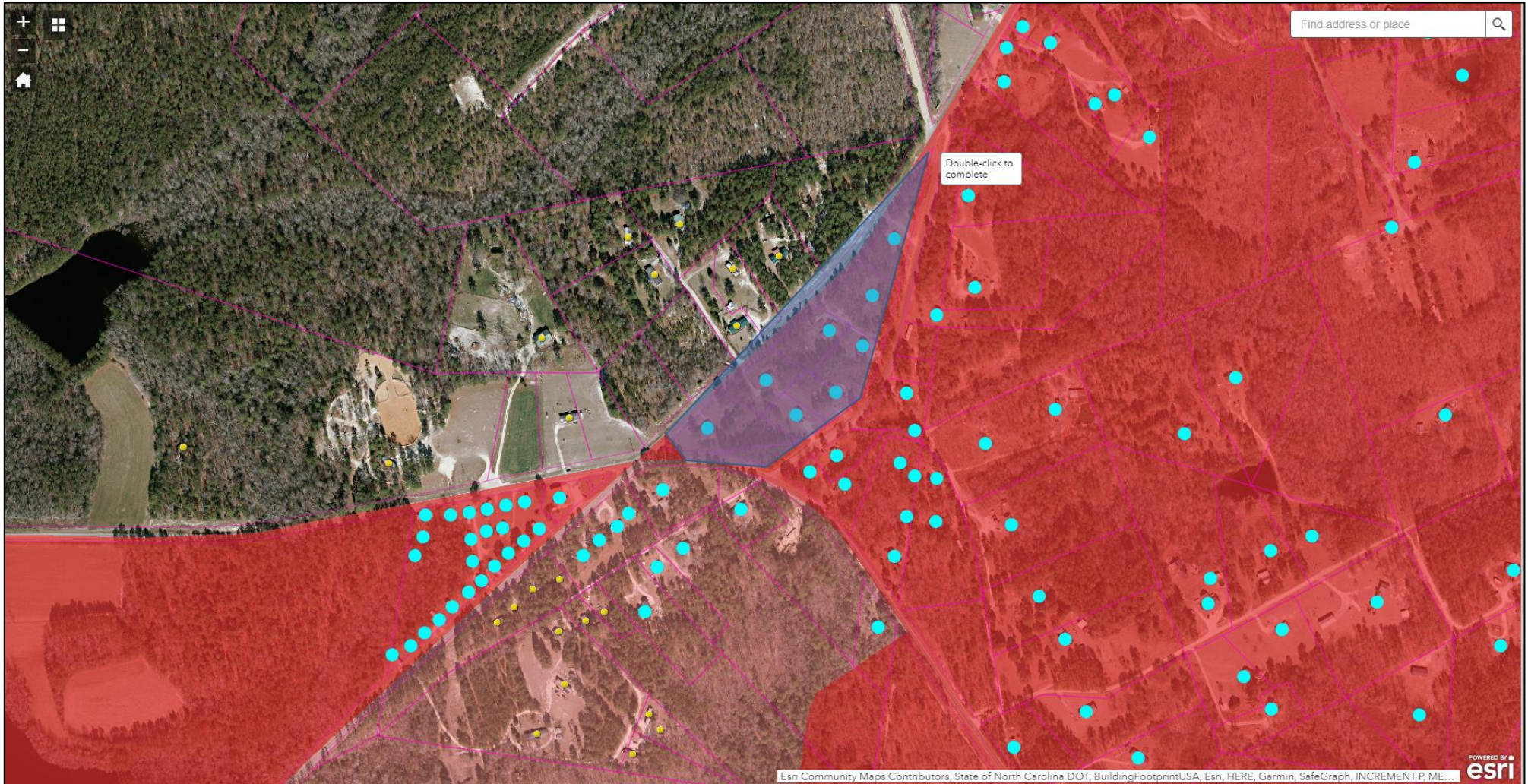
- To add more address points to the current selection, draw another polygon while holding down the **Shift** key on your keyboard (hold the Shift key until you double-click to complete the polygon):



- The selection now contains the additional address points (Count is shown in Red Rectangle below):



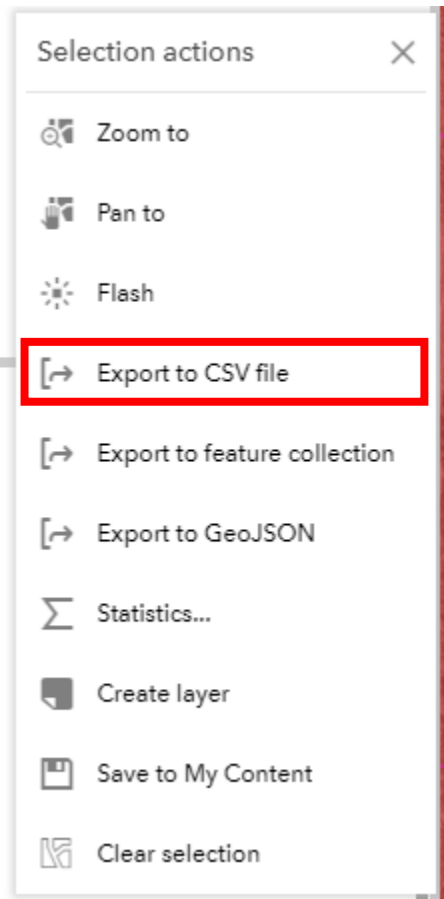
- To remove locations from the selection, hold the **Ctrl** key on your keyboard and click on the map to draw a polygon around the locations to be removed (hold the Ctrl key until you double-click to complete the polygon):



- Once all the address points are selected, using the '...' button (Red Rectangle in screenshot below) next to the number of selected locations within the Select Tool will provide tools for exporting the selection:

The screenshot displays an ArcGIS web application interface. On the left, there is an 'About' section with instructions on using the Select tool and a 'Legend' section listing layers: CAF\_BroadbandDeployments\_NC, NC Master Address Dataset 2014, GREAT Ineligible Areas, Parcel Boundaries, FCC Less Than 10mb/s Download and 1mb/s Upload, and FCC Less Than 25mb/s Download and 3mb/s Upload. Below the legend is a pie chart titled 'Percentage of Selected Address Points within FCC Speed Tiers'. The pie chart shows four categories: 'Less Than 25/3' (a very small slice), 'Greater Than 25/3' (a very small slice), 'Less Than 10/1' (a small slice), and 'Less Than 10/1' (the largest slice, representing 100 (89.29%) of the selected points). The main map area shows a satellite view with a red overlay indicating broadband deployment areas and yellow dots representing address points. A search bar at the top right contains the text 'Find address or place'. At the bottom, a 'Select' tool is active, showing a green bar and a 'Select' button. Below the tool, a layer list shows 'NC Master Address Dataset 2014' checked and 'Parcel Boundaries' unchecked. A red rectangle highlights the '...' button next to the number '100' in the layer list.

- Choose the option to 'Export to CSV file' and the address data will be downloaded to your computer. This .csv file should be submitted with your grant application.



- All data in the GREAT Online Mapping Tool can be downloaded locally through NC OneMap here: <https://www.nconemap.gov/datasets/great-2020-rnd2-eligibleareas>

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## GREAT 2020 Rnd2 EligibleAreas

Last updated 7 seconds ago

9/10/2020 Feature Service No license specified 4 Layers Download

The Growing Rural Economies with Access to Technology (GREAT) Program Special Supplementary Round within FY20-21 funds eligible projects in economically distressed counties. In response to the COVID-19 crisis, this Special Supplementary GREAT Act Grant Process was developed under SL 2020-97 utilizing Coronavirus Relief Funds. Data for assistina broadband providers that are applying for grant funding as part of the NC GREAT grant proogram Special

**About**  
 NC OneMap Open Data: Utilities  
 Shared By: bdsheilton  
 Data Source: services5.arcgis.com  
 View Metadata  
 Create Webmap  
 Create a Story Map

**Related Data**

<p><b>Data</b></p> <p><b>NC Master Address Dataset 2014 - GREAT Eligible</b>          NC OneMap   bdsheilton</p> <p>The Growing Rural Economies with Access to Technology (GREAT) Program Special Supplementary Round within FY20- ...</p> <p>Type: Feature Layer          Last Updated: September 10, 2020          Rows: 3,361,741          Tags: North Carolina, NC, NCDIT, NC ...</p>	<p><b>Data</b></p> <p><b>GREAT Ineligible Areas</b>          NC OneMap   bdsheilton</p> <p>The Growing Rural Economies with Access to Technology (GREAT) Program Special Supplementary Round within FY20- ...</p> <p>Type: Feature Layer          Last Updated: September 10, 2020          Rows: 7,504          Tags: North Carolina, NC, NCDIT, NC ...</p>
<p><b>Data</b></p> <p><b>FCC Less Than 10mb/s Download and 1mb/s Upload</b>          NC OneMap   bdsheilton</p>	<p><b>Data</b></p> <p><b>FCC Less Than 25mb/s Download and 3mb/s Upload</b>          NC OneMap   bdsheilton</p>



- To Download the layers, first select an individual layer from the layer dropdown list (Red Rectangle below):

The screenshot displays the NC OneMap interface for the 'GREAT 2020 Rnd2 Eligible Areas' layer. The map shows the state of North Carolina with several counties highlighted in blue, indicating they are eligible areas. The interface includes a navigation bar at the top with the NC OneMap logo and links for 'DATA PROJECTS', 'ANNOUNCEMENTS', 'TERMS', 'CONTACT US', and 'ABOUT'. Below the navigation bar, the title 'GREAT 2020 Rnd2 Eligible Areas' is displayed, along with the text 'Last updated 7 seconds ago'. The map shows various cities and counties, including Knoxville, Asheville, Charlotte, Winston-Salem, Greensboro, Durham, Raleigh, Rocky Mount, Greenville, Fayetteville, Jacksonville, and Wilmington. A red rectangle highlights the '4 Layers' dropdown menu in the bottom right corner. The dropdown menu is open, showing a search bar and a list of layers: 'NC Master Address Dataset 2014 - GREAT\_Eligible', 'GREAT Ineligible Areas', 'FCC Less Than 10mb/s Download and 1mb/s Upload', and 'FCC Less Than 25mb/s Download and 3mb/s Upload'. The '4 Layers' button is highlighted with a red rectangle.

- After selecting an individual layer, it will redirect you to a new page for that layer. Select the Download dropdown and select the option to download as a Shapefile: (The Address Dataset is very large, so the download may take a while to

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## NC Master Address Dataset 2014 - GREAT\_Eligible

Last updated 1 hour ago | 3,361,741 Records

Overview **Data** API Explorer

9/10/2020 Feature Service No license specified

4 Layers Download APIs

**About**

NC OneMap O  
Shared By: bd  
Data Source: s

View Metadata  
Create Webm  
Create a Stor

Full Dataset  
Spreadsheet  
KML  
Shapefile

Filtered Dataset  
Spreadsheet  
KML  
Shapefile

### Attributes

Chart Map Visualization

ADDR\_HN ADDR\_PD ADDR\_PT ADDR\_SD ADDR\_SN ADDR\_ST APT\_UNIT COMMUNITY

initiate)



- If there are issues downloading the 2014 Address Dataset for GREAT, an alternative would be to download the full NC Master Address Dataset – 2014 from: <https://www.nconemap.gov/datasets/nc-master-address-dataset-2014?showData=true> . Click 'Download as shapefile' under Additional Resources.

The screenshot displays the NC OneMap interface for the 'NC Master Address Dataset - 2014'. The page header includes the NC OneMap logo and navigation links: DATA PROJECTS, ANNOUNCEMENTS, TERMS, CONTACT US, and ABOUT. The main heading is 'NC Master Address Dataset - 2014' with a sub-heading 'Last updated last year | 4,939,912 Records'. A map of North Carolina is shown with various cities labeled, including Asheville, Knoxville, Johnson City, Winston-Salem, Greensboro, Durham, Raleigh, Rocky Mount, Greenville, Charlotte, Fayetteville, Jacksonville, and Wilmington. Below the map are tabs for 'Overview', 'Data', and 'API Explorer'. A 'Download' dropdown menu is open, showing options: 'Full Dataset', 'Spreadsheet', 'KML', 'Shapefile', 'Additional Resources', and 'Download as shapefile' (highlighted in red). The 'About' section contains text about the dataset's origin and a 'More' link. The 'Attributes' section shows a 'Map Visualization' tab and a list of attributes: ADDR\_HN, ADDR\_PD, ADDR\_PT, ADDR\_SD, ADDR\_SN, ADDR\_ST, APT\_UNIT, and COMMUNITY.