South Carolina Proviso 33.34 Hospital and Clinic Innovations: Environmental Scan Interactive Geospatial PDF Instructions

Summary: The University of South Carolina's Institute for Families in Society, Division of Policy and Research on Medicaid and Medicare (PRMM) has produced a 2-part analysis related to SC Proviso 33.34 under contract with the South Carolina Department of Health and Human Services. This 2-part analysis is packaged into two separate PDFs, which include interactive maps allowing the end-user to access the underlying geographic layers along with the supporting tables and metadata. The following instructions guide the user through the process of accessing the geographic layers through the "Layers" Navigation Panes and the supporting tables and metadata.

South Carolina Proviso 33.34 Environmental Scan Analysis Documents

SC Proviso 33.34 Environmental Scan PDF Instructions.pdf (this document): Detailed step-by-step illustrated instructions.

Proviso 33.34 Environmental Scan State Analysis.pdf: This PDF contains multiple slides, tables and an interactive map with multiple layers depicting healthcare facilities (hospitals and other safety net facilities), disease hot spots, socioeconomic disadvantage, urban/rural areas, uninsured population, Emergency Department and Hospitalization rates, population (total and Medicaid), adequacy of care and access to care.
- **Page 1:** Data Usage Restrictions
- **Page 2:** Important Usage Information, Terms and Concepts
- **Page 3:** Table of Contents
- **Page 4:** State-level interactive map providing information at the State, County and Six Planning Regions-levels and the ability to turn layers off and on to look at different geographic patterns. Please refer to the tables for additional information at each geographic level
- **Page 5-39:** Tables for South Carolina Healthcare Facilities (Hospitals, Federally Qualified Health Centers, Rural Health Clinics, Free Medical Clinics and Welvista Clinics) and environmental scan information provided at the county and Zip Code Tabulation Area (ZCTAs) levels
- **Pages 40-44:** Project Metadata

Proviso 33.34 Environmental Scan Catchment Analysis.pdf: This PDF contains multiple slides, tables and an interactive map with multiple layers depicting healthcare facilities (hospitals and other safety net facilities), disease prevalence and the uninsured population.
- **Page 1:** Data Usage Restrictions
- **Page 2:** Important Usage Information, Terms and Concepts
- **Page 3:** Table of Contents
- **Page 4:** Geographic Catchment-level interactive map providing information for 4 catchment areas (Greenville, Lowcountry, Midlands and Spartanburg) and the ability to turn layers off and on to look at different geographic patterns. Please refer to the tables for additional information at each geographic level
- **Page 5-39:** Tables for South Carolina Healthcare Facilities (Hospitals, Federally Qualified Health Centers, Rural Health Clinics, Free Medical Clinics and Welvista Clinics) and environmental scan information provided at the county and Zip Code Tabulation Area (ZCTAs) levels
- **Pages 40-44:** Project Metadata

NOTE: PDFs best viewed on a PC or Macintosh desktop or laptop for full functionality.

Step 1 – Open the PDF: When opening these PDFs the end-user may see a number of different views based on previous settings. Regardless of the Navigation Buttons enabled, however, on the left side of the screen the user will see the "Layers" Panel (see Figure 1). **Note:** This PDF is best viewed with the current version of Adobe Acrobat (Reader or Pro). If there are any problems opening the PDF please download the most current version of the free Acrobat Reader (Acrobat Reader XI version 11.0.03) from the Adobe website (http://get.adobe.com/reader/).
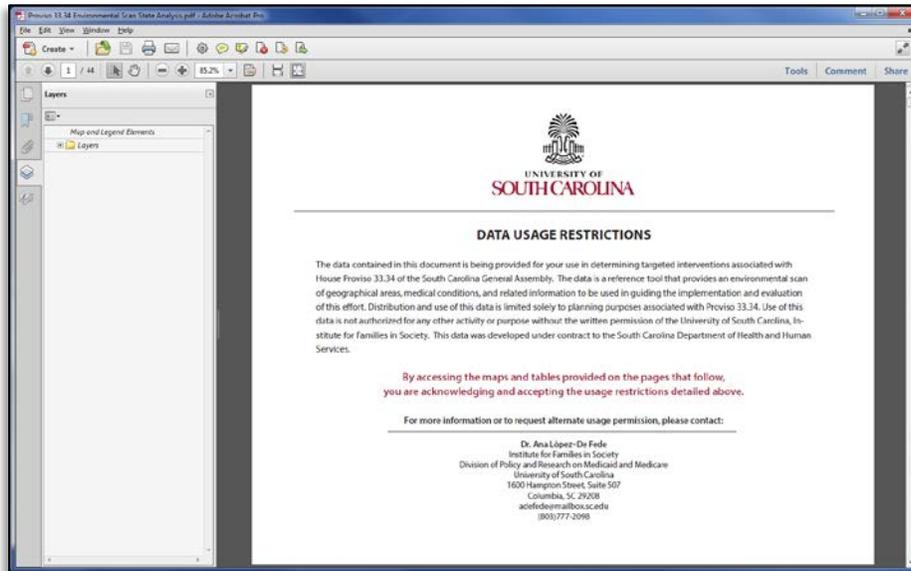
Figure 1: Default View with the "Layers" Panel Open

Step 2 - Review and/or Print Tables and Metadata (Optional but recommend): Use the Acrobat tools to review all pages one-by-one or directly enter the page number you want to access (see Figure 2). After reviewing all PDF pages print the desired pages through the "File" menu item.

Change Page
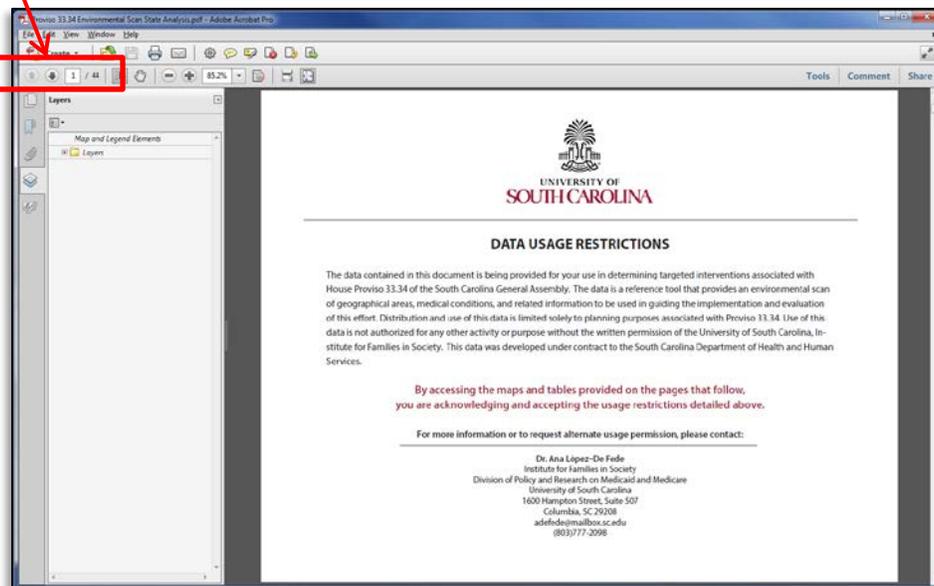
Figure2: Acrobat Page Tools

Step 3 – Access the Interactive Map and Expand All Layers: The default view of both interactive maps included in this analysis shows the percent uninsured Medicaid population at the Zip Code Tabulation Area (ZCTA) level. In order to access these maps and view all other layers included first use the page functions to access page 4. Then Click the "Layer Options" button on the upper left of the "Layers" Panel and then select "Expand All" (see Figure 3). This will expand all the layers in the Layer Panel so that the user can view all the layers options. Alternatively, the user may click the plus (+) or minus (-) icons left of each folder to expand or collapse any layer groupings rather than selecting the "Expand All" option. **State-level Analysis Note:** The default expanded layers panel in the default state-level analysis shows the user that the following layers and map elements are visible (indicated with the eye symbol): County labels, County boundaries and Percent Uninsured by ZCTA (see Figure 4). **Catchment-level Analysis Note:** The default expanded layers panel in the catchment-level analysis shows the user that the following layers and map elements are visible (indicated with the eye symbol): Greenville Map, County Labels, County Boundaries, No Population Layer and Percent Uninsured by ZCTA (see Figure 5). Due to the large number of layers and groupings in this map the user has to use the scroll bar to the right of the layers list to see the Midlands and Spartanburg Catchment Area map layers (see Figure 5).
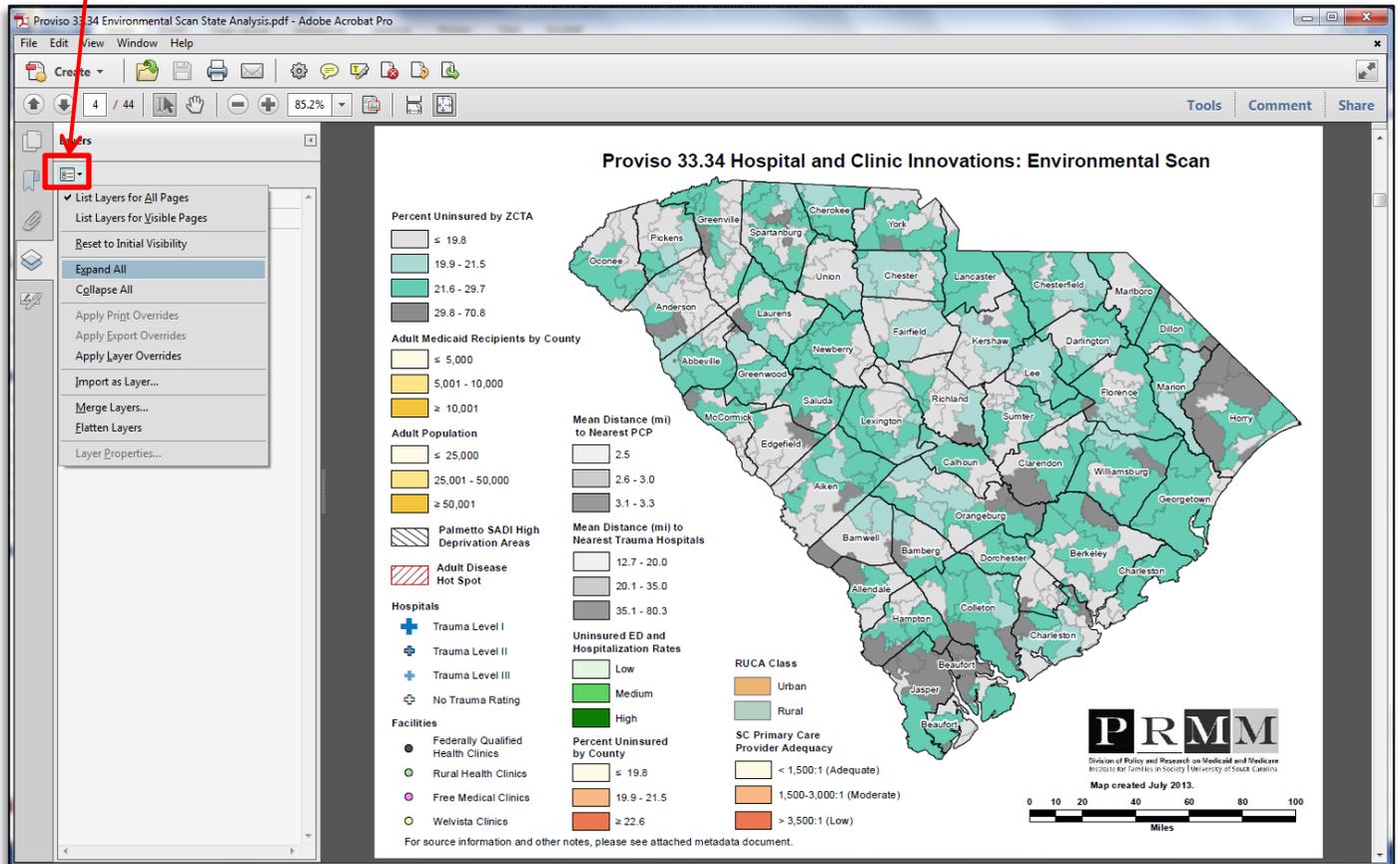
Figure 3: Expand All Layers
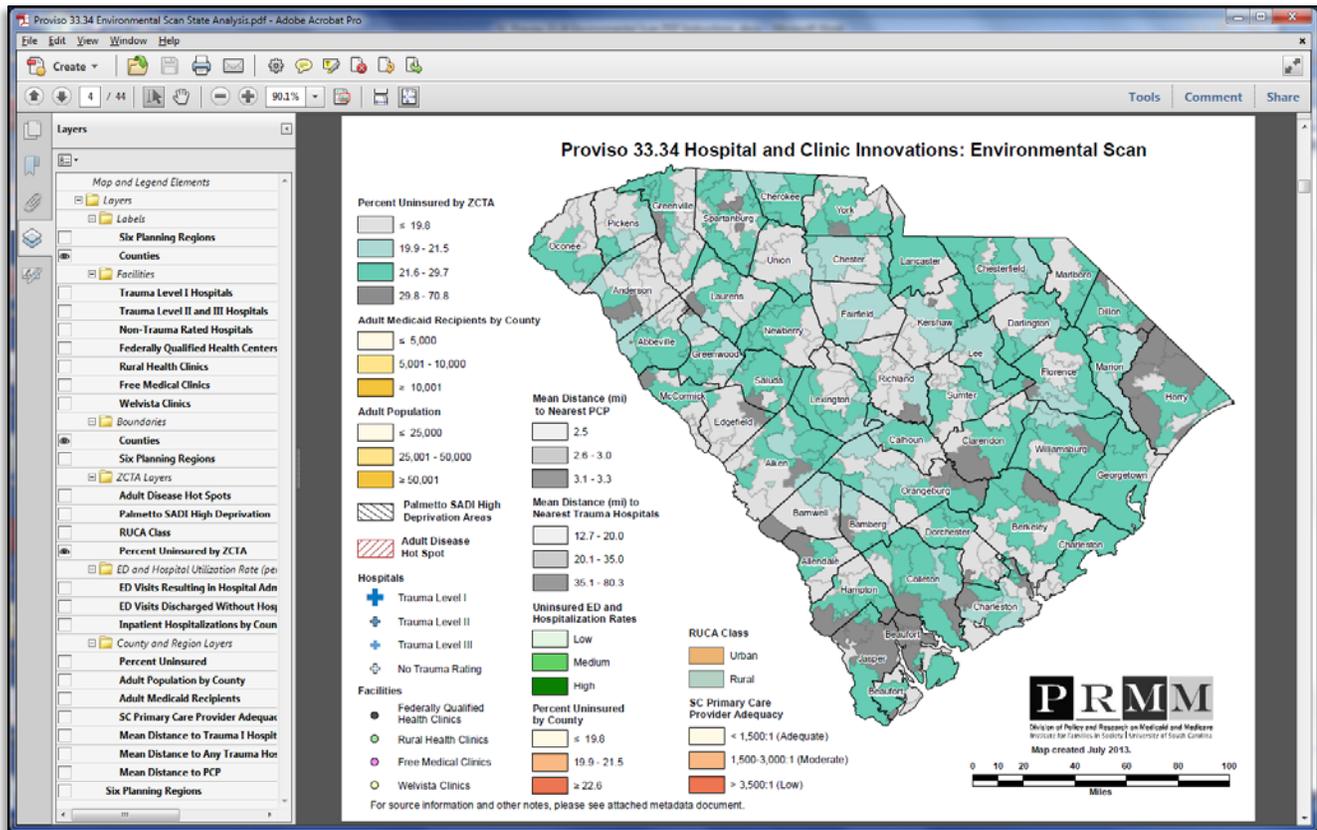
Figure 4: "Expand all Layers" default view of State-level analysis

Layer Scroll Bar
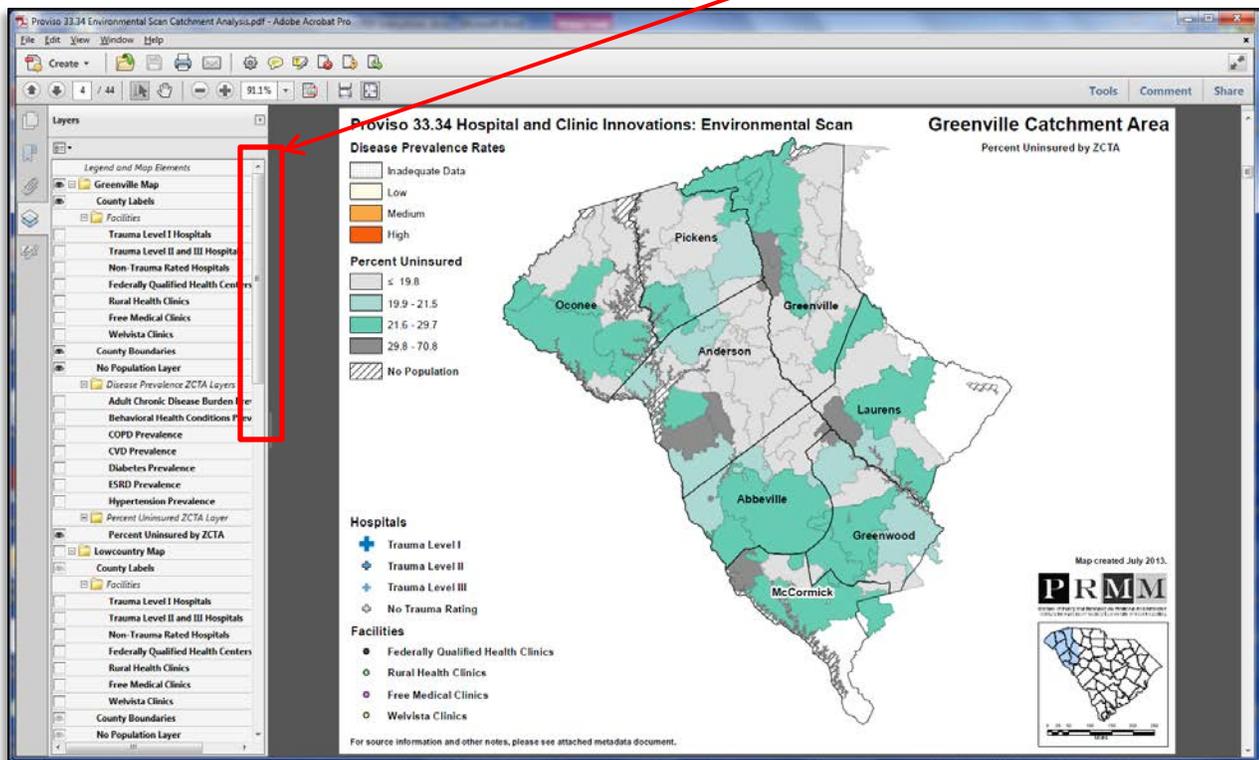
Figure 5: "Expand all Layers" default view of Catchment-level analysis

Step 4 – Interact with Layers: Once the user has the layers panel visible, they can click each layer's eye symbol and interact with the indicated layers. Every layer or layer grouping that has an eye symbol that can be manipulated. Click the eye symbol to the left of the layer to turn it on or off. Click the plus (+) or minus (-) icons left of each folder to expand or collapse any layer groupings. In the example provided below in Figure 6 the user is accessing the State-level Analysis map and has turned off the default "Percent Uninsured by ZCTA" layer and turned on the County Rate layer for "ED Visits Discharged without Hospital Admission", "Palmetto SADI", "Trauma Level I Hospitals", "Federally Qualified Health Centers" and the "Adult Disease Hotspots" overlays. The Catchment-level Analysis map also includes the ability to individually look at 4 different geographic catchment areas for Greenville, Lowcountry, Midlands and Spartanburg. All layers for these geographic areas are grouped under the layer titles of Greenville Map, Lowcountry Map, Midlands Map and Spartanburg Map. Only one of these layer groupings (Greenville Map, Lowcountry Map, Midlands Map and Spartanburg Map) should be made visible at once. In the example provided in Figure 7 the user turned off the default layer grouping for "Greenville Map" and turned on the layer grouping for the "Lowcountry Map" which makes the Lowcountry area visible. **Note:** The user can normally only view one ZCTA, County or Planning Region layer at once, if a layer is set to visible and the user cannot see it on the map then turn off any other county, ZCTA or Planning Region layer that is set to visible by clicking the eye icon next to it in the layer listing. This only applies to layers that cover the entire map and have a solid fill (e.g. Disease Prevalence Rates, Percent Uninsured, Demographics). All facility layers, boundary layers and the "Palmetto SADI"," Adult Disease Hotspot" and "No Population" layers can be viewed over the top of other layers.

Layer "Eye" symbol to turn the layer on or off

Figure 6: Interact with Layers

Figure 7: Access different Geographic Catchment Areas

Step 5 – Access and Interact with the Tables: To access the tables starting on page 5 use the page arrows or directly enter the page number. Once the user can see a table they can use the "+" or "-" to zoom in or out of specific areas of the table or specify the zoom level. Once the user is zoomed in they can use the "hand" icon to move around inside of the table (see Figure 8).
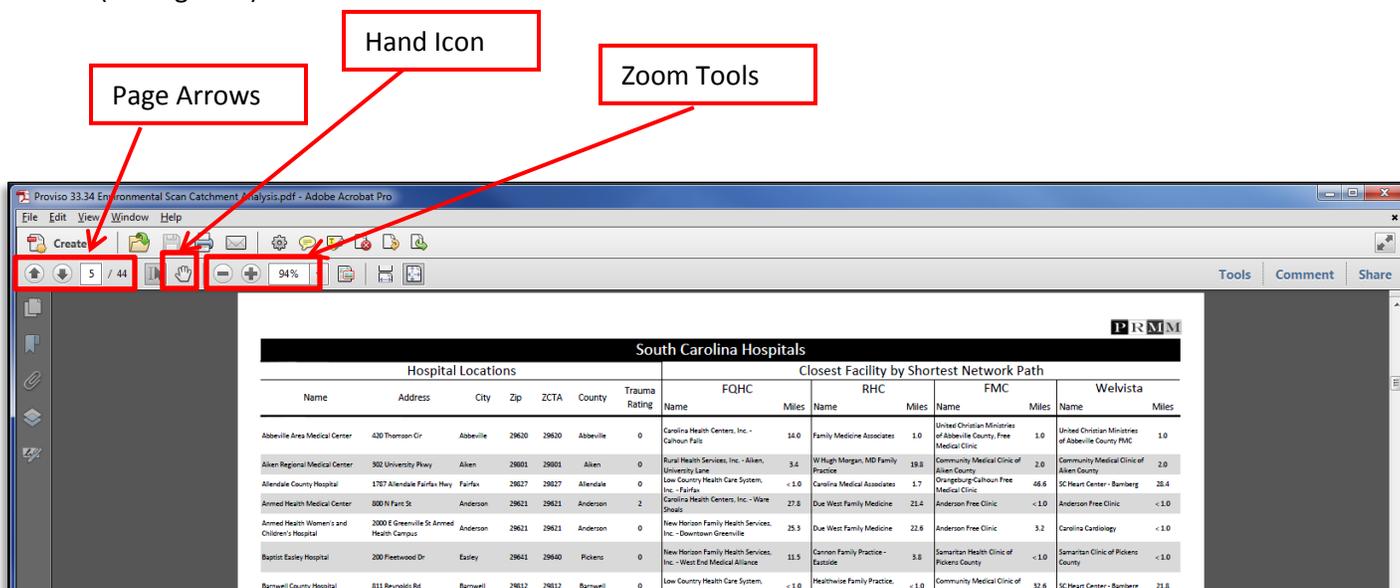
Figure 8: Interact with the Table (Table Tools)

Step 6 – Access and Interact with the Metadata: To access the metadata (also in table format) starting on page 40 use the page arrows or directly enter the page number. Once the user can see the metadata table they can use the "+" or "-" to zoom in or out of specific areas of the table or specify the zoom level. Once the user is zoomed in they can use the "hand" icon to move around inside of the table (see Figure 9).

Figure 9: Project Metadata

Step 7 (Optional)- If the Navigation Pane is not visible, click the "View" menu item in Adobe Acrobat and then put the cursor on "Show/Hide" and then place the cursor on "Navigation Panes" and click "Show Navigation Panes" (see Figure 10). A shortcut is to hit the F4 key while the PDF is the active Window. While the Navigation Pane is present, the user should normally see what is listed in Figure 11 which is an expanded Navigation Pane with a thumbnail icon and four other icons (bookmarks, attachments, layers, and signatures).
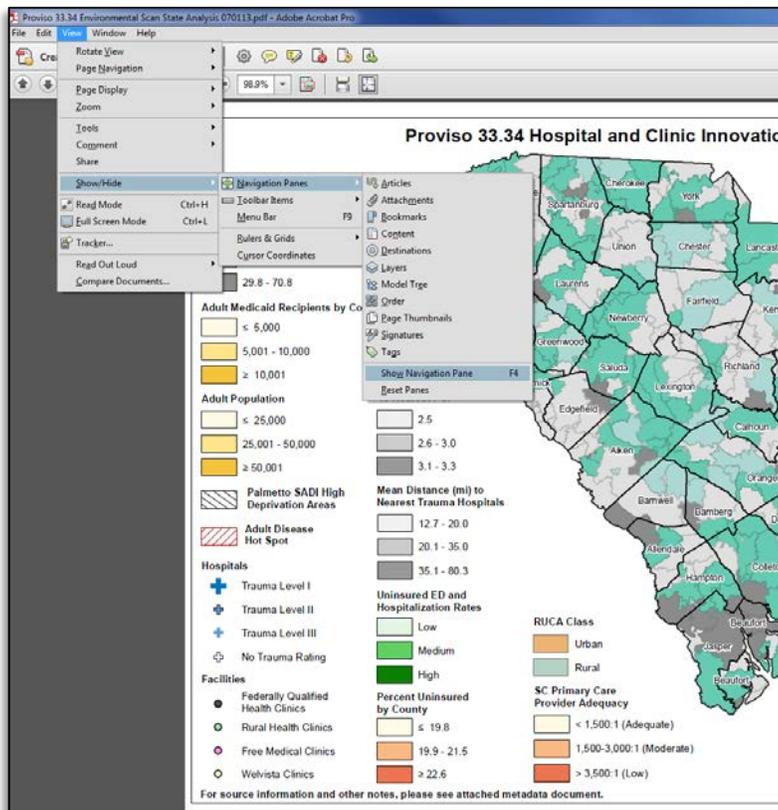
Figure 10: Show/Hide Navigation Panes

Thumbnail

Bookmarks

Attachments

Layers

Signatures
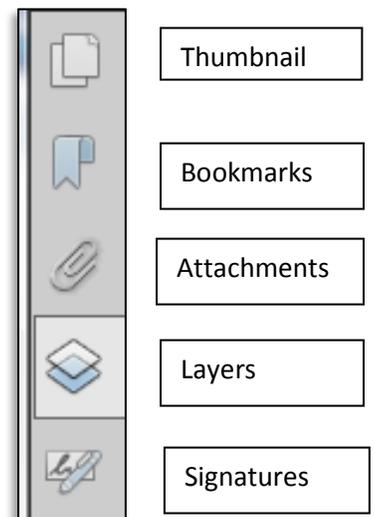
Figure 11: Navigation Icons