

Division of Air Quality

New Mapping Project in TAGIS

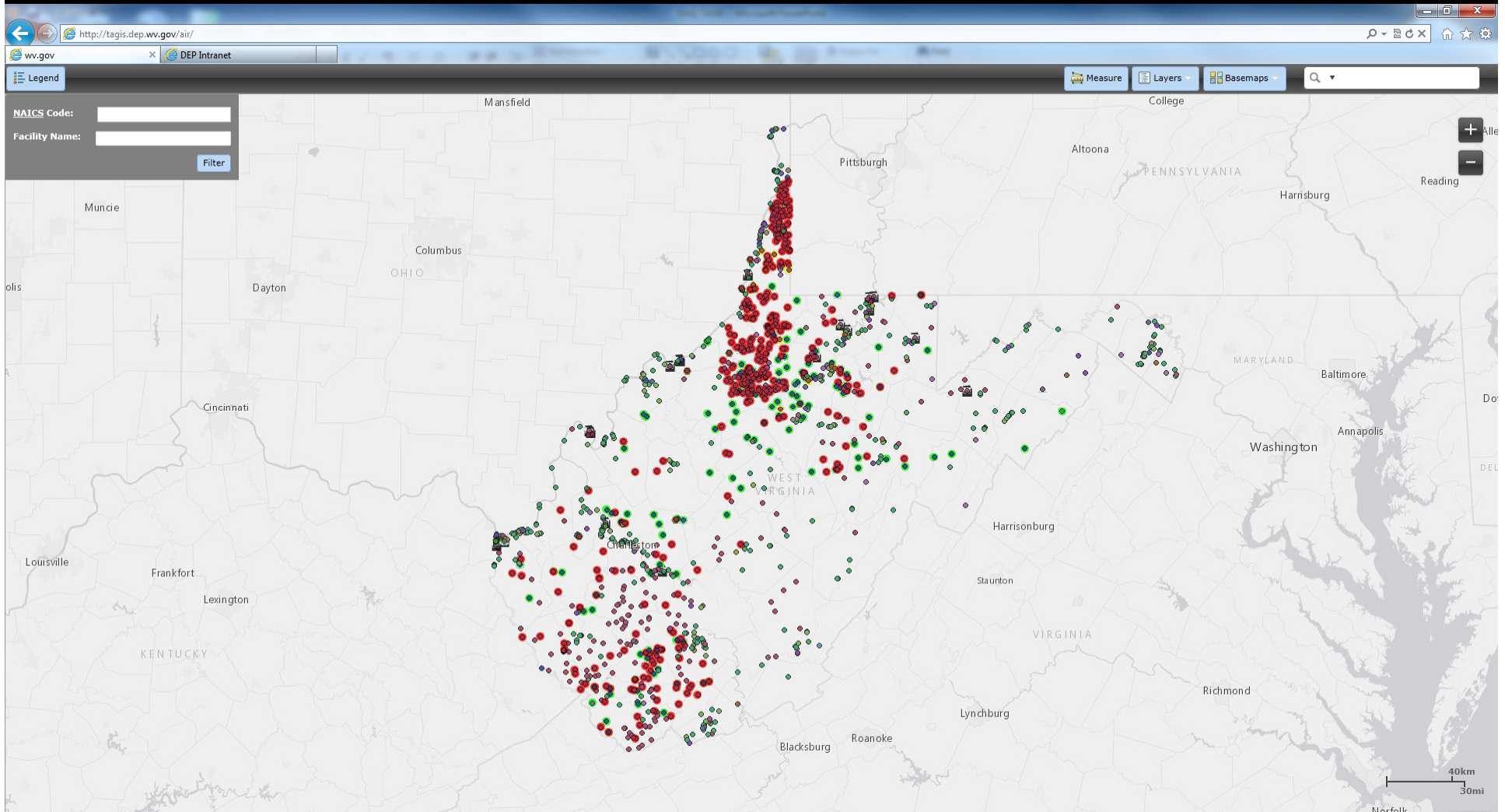
Partnered with DEP's GIS Group



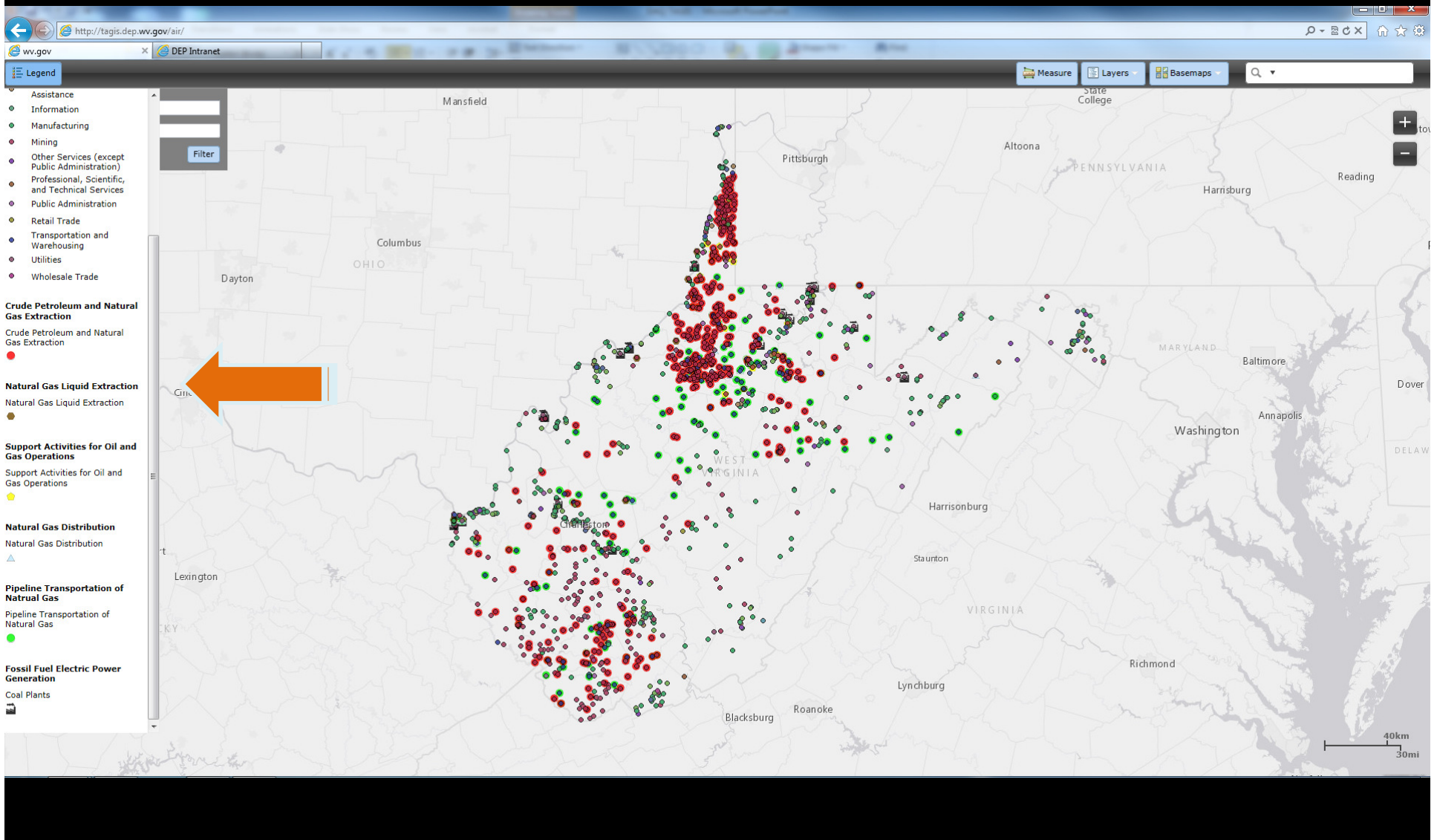
Robert Keatley, PE

Senior Engineer/Supervisor

Air Quality Mapping by Site Location



Legend



Facilities

- Colored symbols represent different industry types and facility locations
- **MUST BE VERY PRECISE** with the cursor to pull up Facility Info

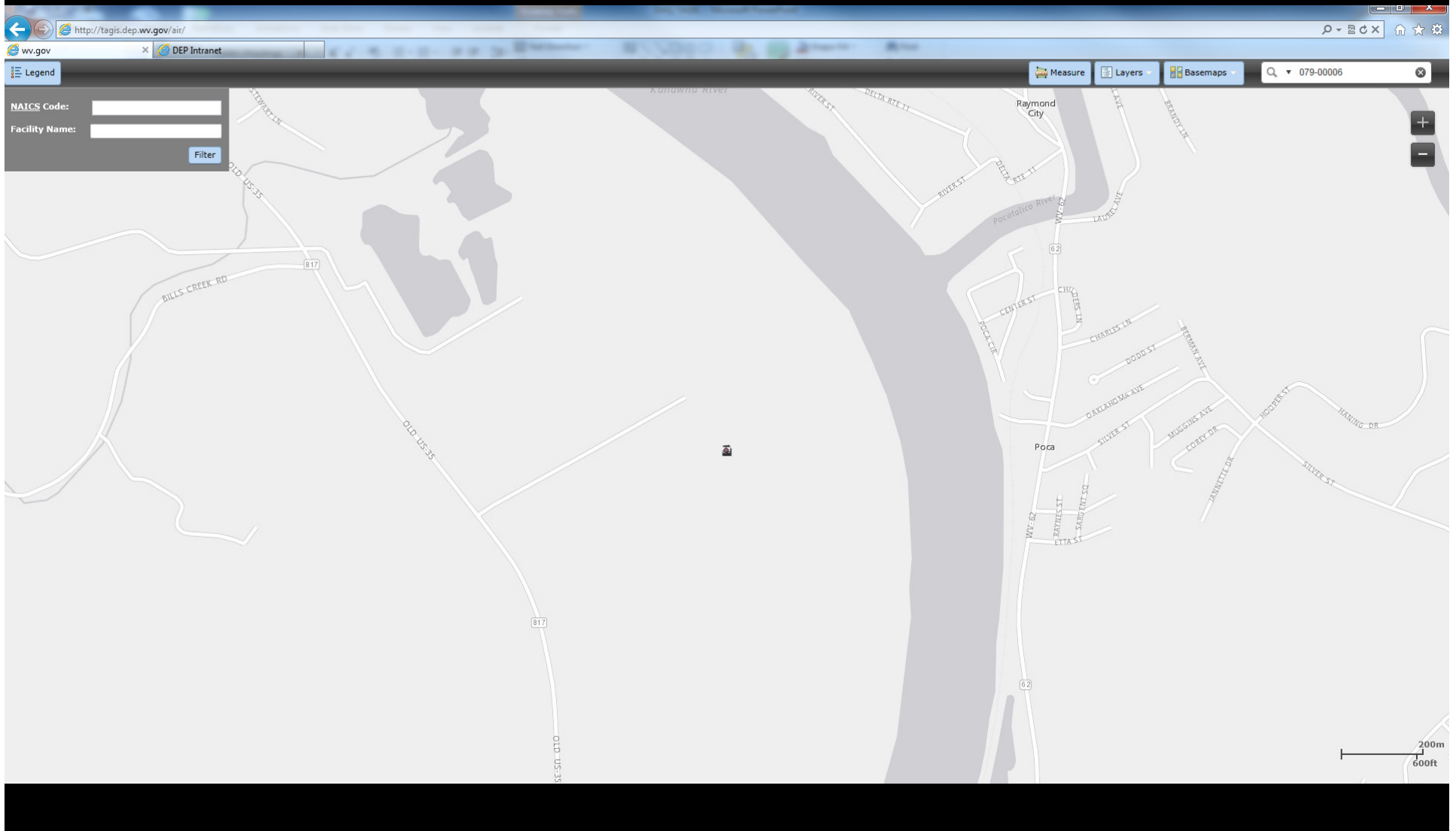
Basemaps

The screenshot displays a web-based GIS application interface. At the top, a browser window shows the URL <http://tagis.dep.wv.gov/air/>. The application includes a search bar, a legend, and a filter section with fields for "NAICS Code:" and "Facility Name:" and a "Filter" button. The main map area shows a map of West Virginia with numerous colored dots (red, green, blue) representing data points. A large orange arrow points from the map towards the basemap menu. The basemap menu is open, showing a grid of map style options: Imagery, Imagery with Labels, Streets, Topographic, Dark Gray Canvas, Light Gray Canvas, National Geographic, Oceans, Terrain with Labels, OpenStreetMap, and USA Topo. The map also shows state boundaries for Ohio, Kentucky, and Virginia, and city names like Pittsburgh, Columbus, Charleston, and Richmond. A scale bar in the bottom right corner indicates 40km and 30mi.

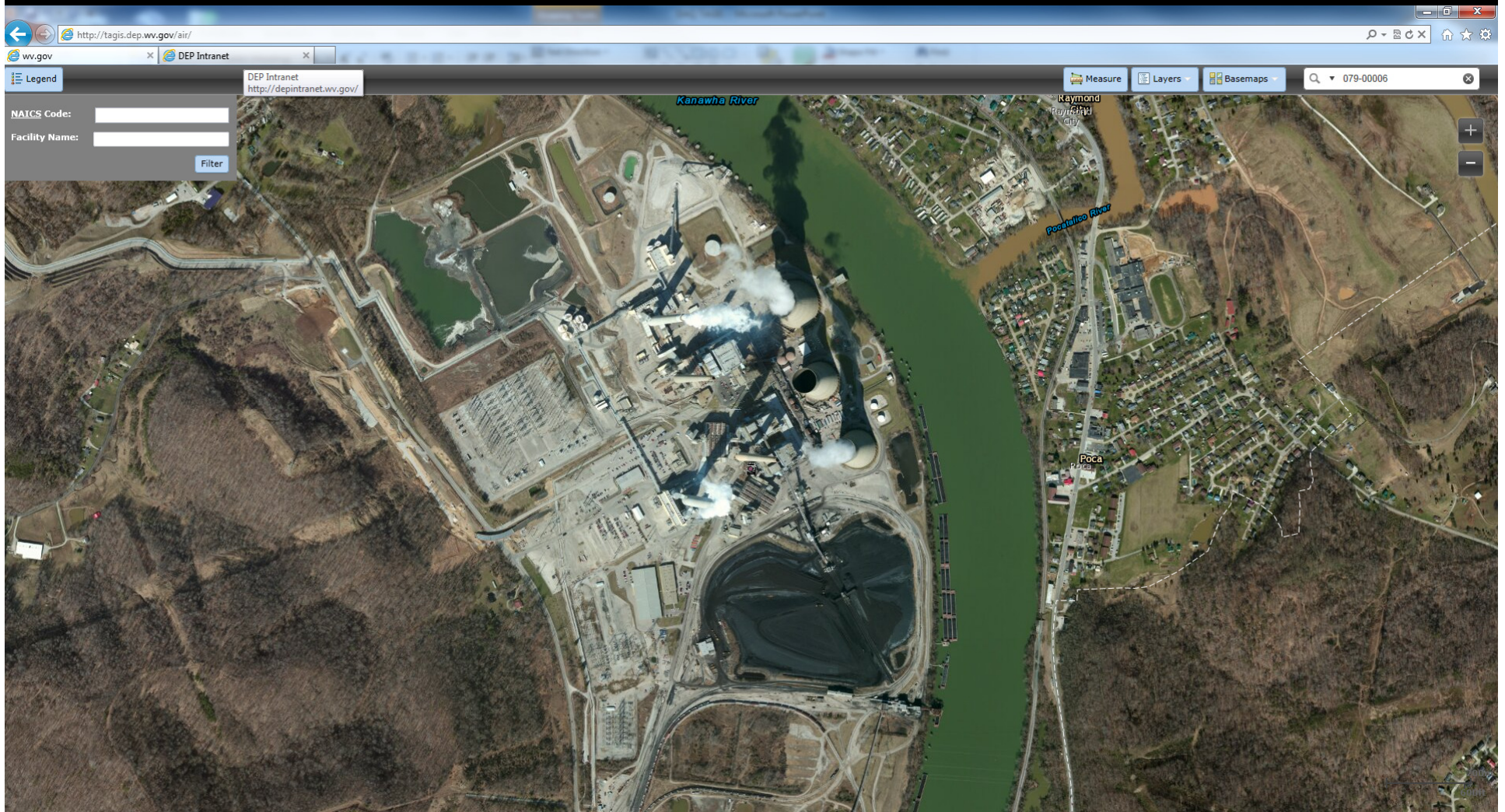
Basemaps

- Start out with Light Gray Canvas basemap (default) or choose any basemap you prefer
- Zoom down to image and change base map to Imagery with or without Labels, depending on your preference
- These are all preference choices

AEP-John Amos Power Plant Light Gray Canvas Basemap



AEP-John Amos Power Plant (Imagery with Labels Basemap)



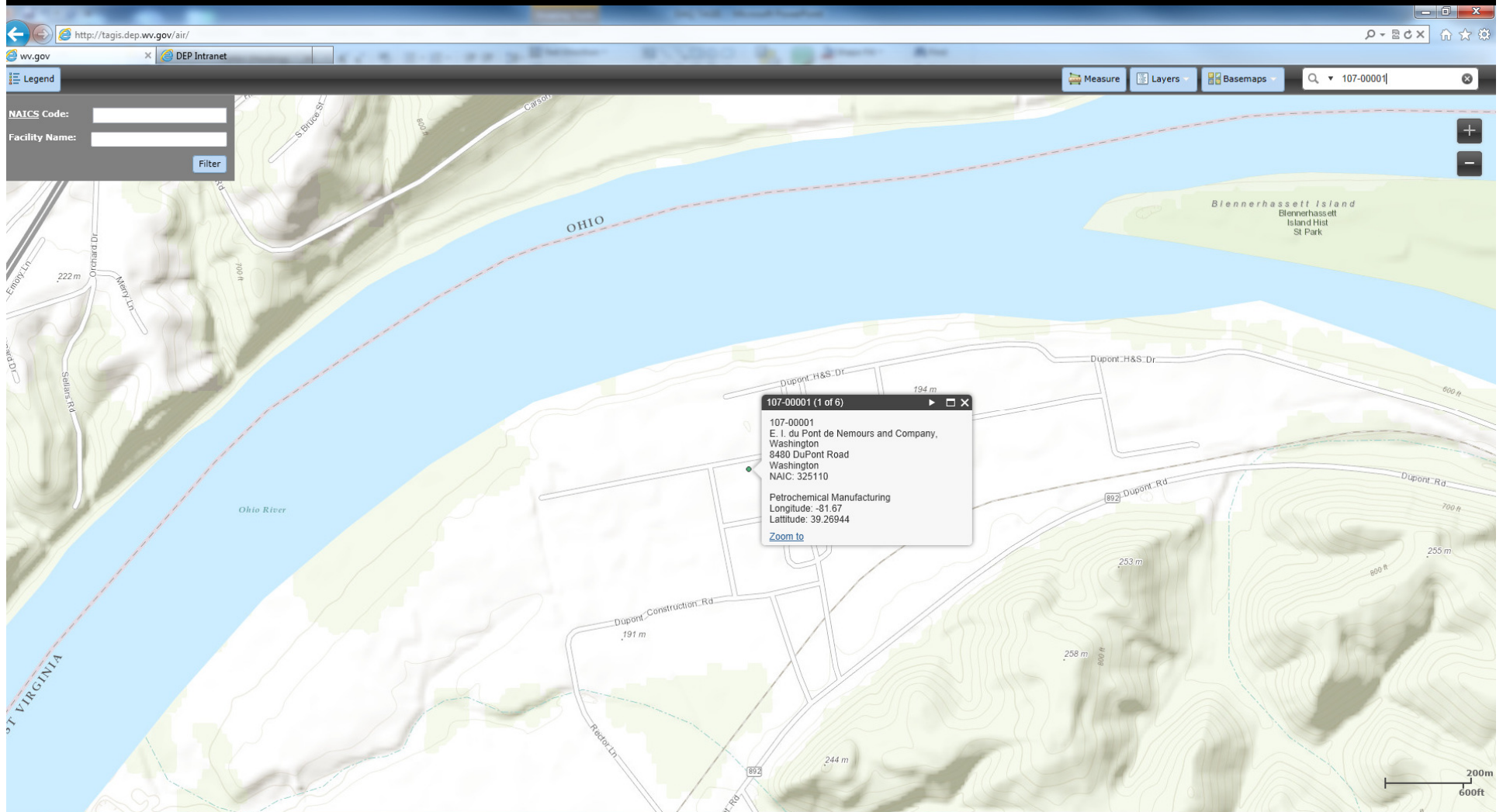
AEP-John Amos Power Plant (With Facility Info)

The screenshot displays a web-based GIS application interface. At the top, the browser address bar shows the URL <http://tagis.dep.wv.gov/air/>. Below the browser, there are navigation tabs for 'wv.gov' and 'DEP Intranet'. The main interface includes a 'Legend' panel on the left with input fields for 'NAICS Code:' and 'Facility Name:', and a 'Filter' button. The central area is a satellite map showing an industrial facility, the John Amos Power Plant, situated near the Kanawha River and the Pocahontas River. A search bar at the top right contains the ID '079-00006'. A data popup window is open over the plant, displaying the following information:

- 079-00006
- Appalachian Power Company, John Amos Plant
- 1530 Winfield Rd.
- Winfield
- NAIC: 221112
- Fossil Fuel Electric Power Generation
- Longitude: -81.8231
- Latitude: 38.4728
- [Zoom to](#)

An orange arrow points from the left towards the data popup. The map also shows labels for 'Raymond' and 'Poca' areas.

Dupont WW (Topographic Basemap)



DuPont WW (Imagery with Labels Basemap)



Industry "NAICS" Layers

The screenshot displays a web-based GIS application interface. At the top, the browser address bar shows the URL <http://tagis.dep.wv.gov/air/>. The application includes a search bar and a legend panel on the right side. The legend panel is open, showing a list of industry categories with checkboxes:

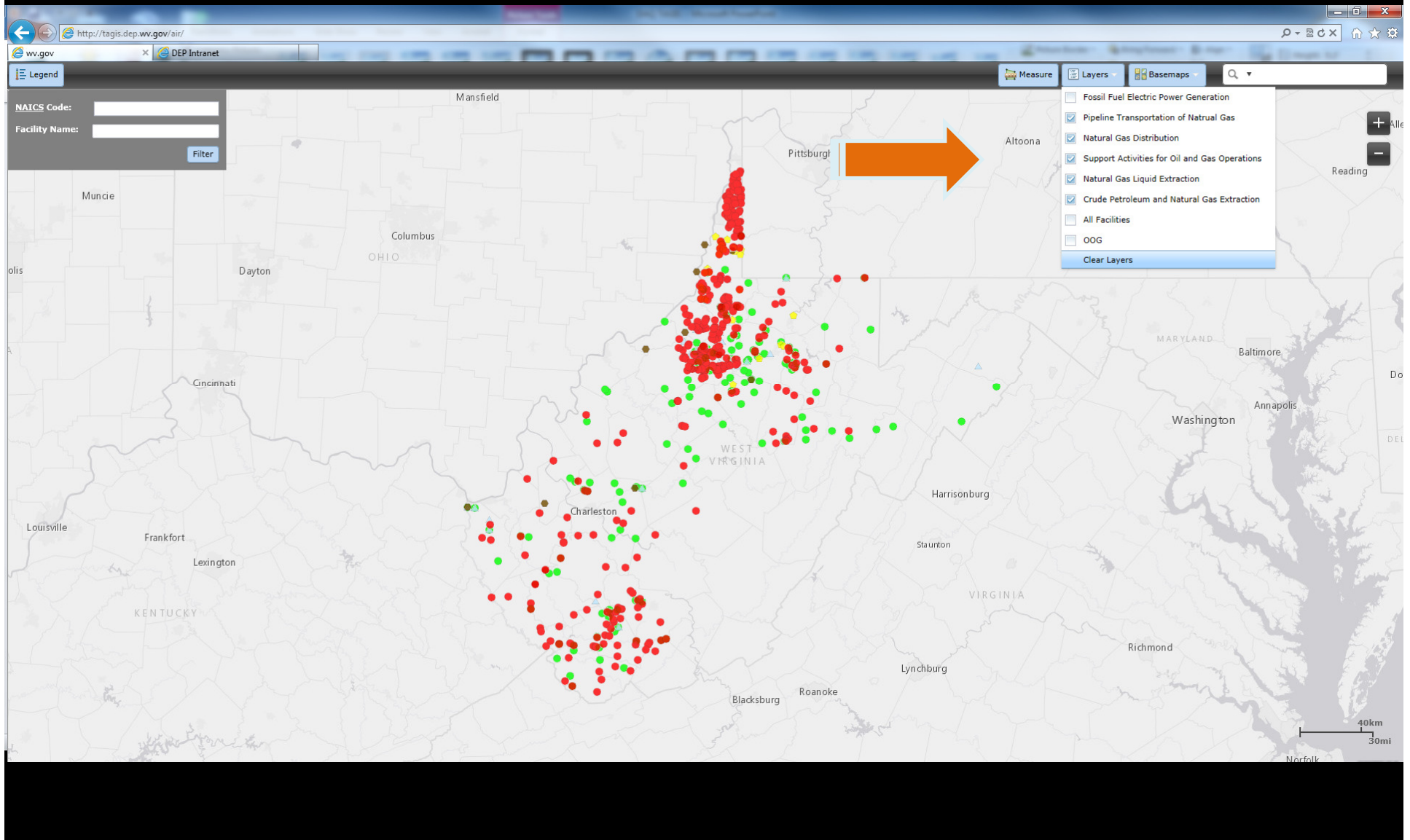
- Fossil Fuel Electric Power Generation
- Pipeline Transportation of Natural Gas
- Natural Gas Distribution
- Support Activities for Oil and Gas Operations
- Natural Gas Liquid Extraction
- Crude Petroleum and Natural Gas Extraction
- All Facilities
- OOG
- Clear Layers

The map shows a dense cluster of colored dots (red, green, blue, purple) representing facility locations, primarily concentrated in the central and southern regions of West Virginia. Major cities labeled on the map include Mansfield, Columbus, Dayton, Cincinnati, Lexington, Frankfort, Louisville, Charleston, Pittsburgh, Altoona, Reading, Baltimore, Washington, Annapolis, Harrisonburg, Staunton, Lynchburg, Blacksburg, Roanoke, and Richmond. An orange arrow points from the Pittsburgh area towards the right. The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying the time as 4:23 PM on 2/2/2015.

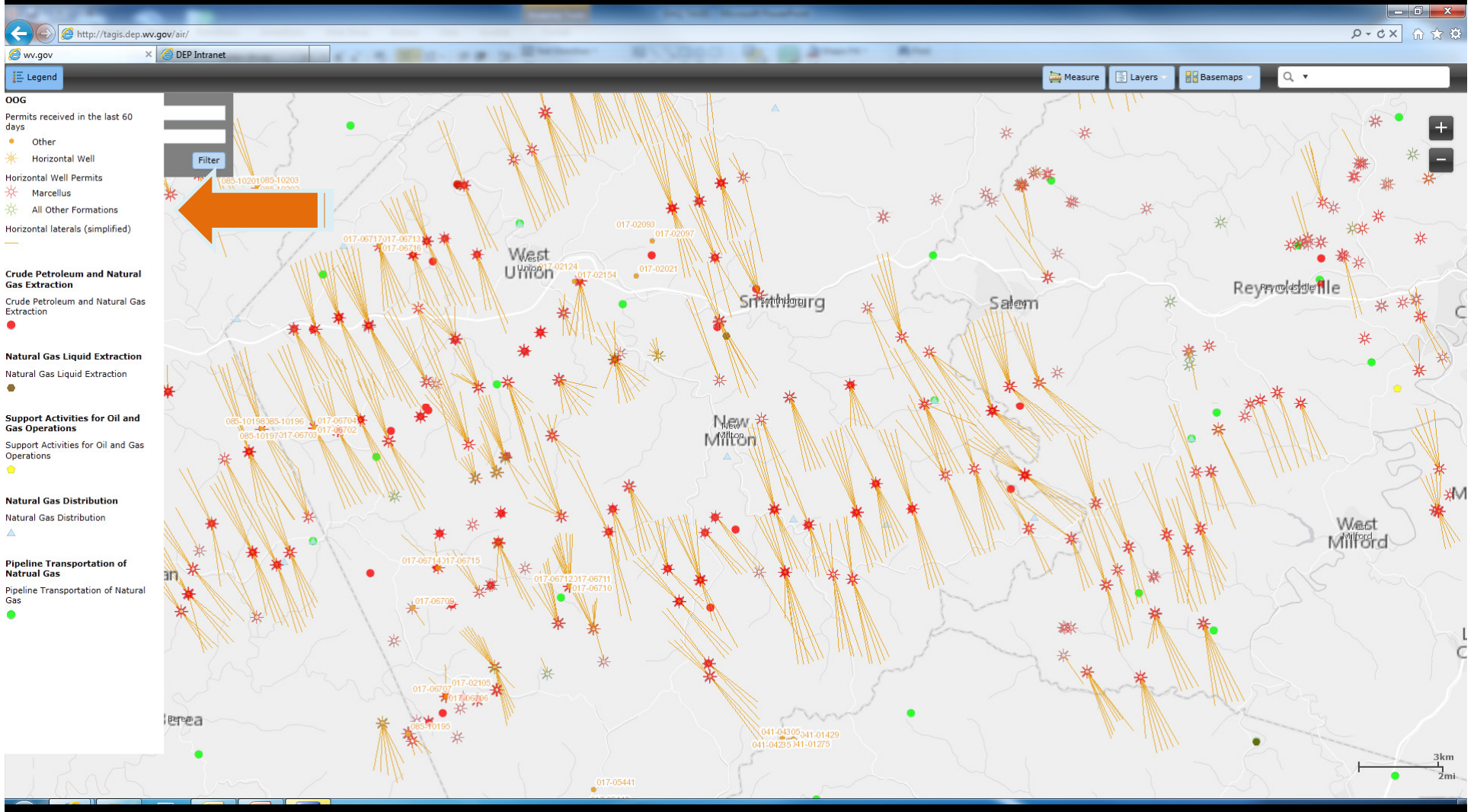
NAICS Layers

- NAICS stands for “North American Industrial Classification System”, which provides a detailed description of industry classifications
- SIC “Standard Industrial Classification”
- EPA now requires NAICS codes instead of SIC codes and DAQ uses both

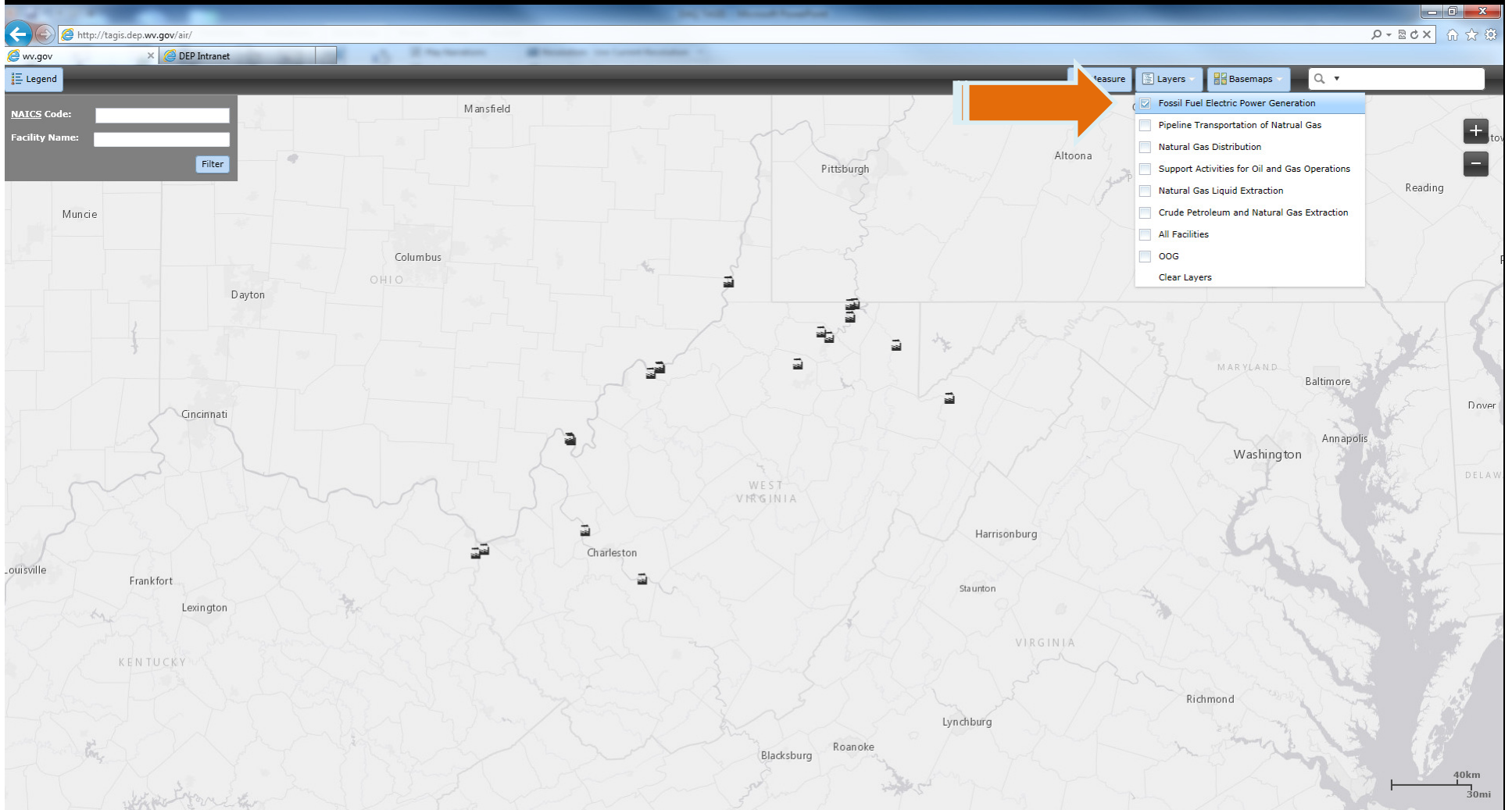
Natural Gas NAICS Layer



Office of Oil and Gas “OOG” Layer



Fossil Fuel Electric Power Generation Layer



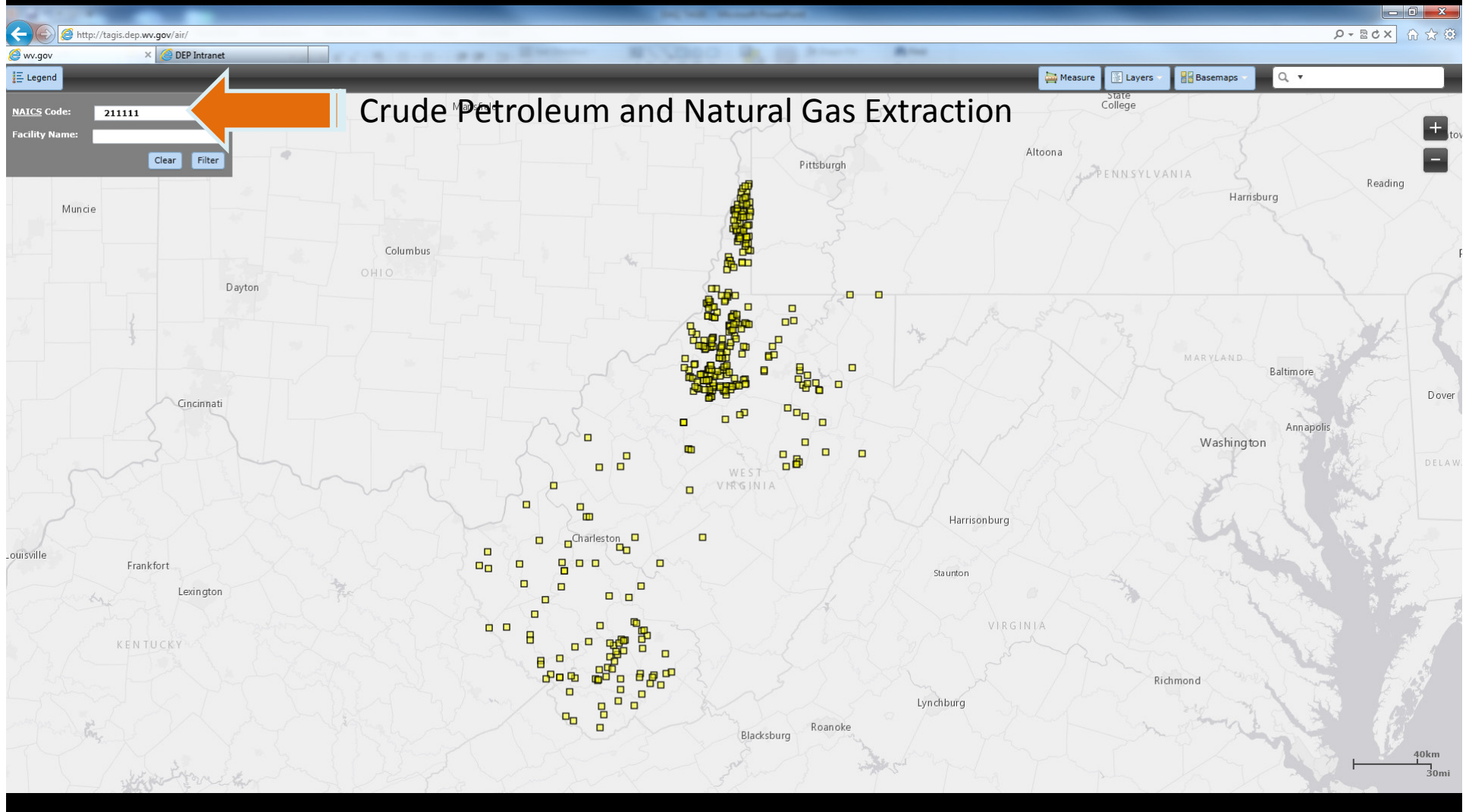
Filter by Company Name

The screenshot shows a web browser window with the URL <http://tagis.dep.wv.gov/air/>. The browser's address bar and tabs are visible. Below the browser window is a web application interface. On the left side, there is a search panel with the following fields and controls:

- NAICS Code:** An empty text input field.
- Facility Name:** A text input field containing the word "Antero". A large orange arrow points to this field from the left.
- Clear** and **Filter** buttons are located below the Facility Name field.

The main area of the interface is a map of West Virginia and parts of Ohio. The map shows county boundaries and several yellow square markers representing data points. The markers are clustered in the central-eastern part of West Virginia, around the cities of Parkersburg and Clarksburg. Other labeled locations on the map include Newark, Wheeling, Zanesville, Lancaster, Morgantown, Fairmont, Athens, and Clarksburg. The map also shows the state boundaries between Ohio and West Virginia. In the bottom right corner, there is a scale bar indicating 20km.

Filter by NAICS Code



Search by Facility ID Number

http://tagis.dep.wv.gov/air/

ww.gov DEP Intranet

File Edit View Favorites Tools Help

Online Banking Checking ... Fifth Third Banking SCU on WEB DEP Intranet AnnualCreditReport BB&T - Online Banking, L... GM Cardmember - Card... http--www.wypecu.org- ING Retirement Plans Support Portal Wells Fargo

Legend

NAICS Code:

Facility Name:

Filter

Measure

079-00006

Select geocoder

DAQ Facility ID

Address or Coordinates

079-00006

079-00006
Appalachian Power Company, John Amos
Plant
1530 Winfield Rd.
Winfield
NAIC: 221112

Fossil Fuel Electric Power Generation
Longitude: -81.8231
Latitude: 38.4728

[Zoom to](#)

200m
600ft

Search by Address (DEP Building address)

http://tagis.dep.wv.gov/air/

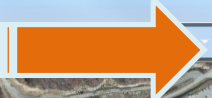
ww.gov x DEP Intranet

Legend

NAICS Code:

Facility Name:

Filter

Measu 

601 57th Street SE, Charle

Select geocoder

DAQ Facility ID

Address or Coordinates

Kanawha Mall

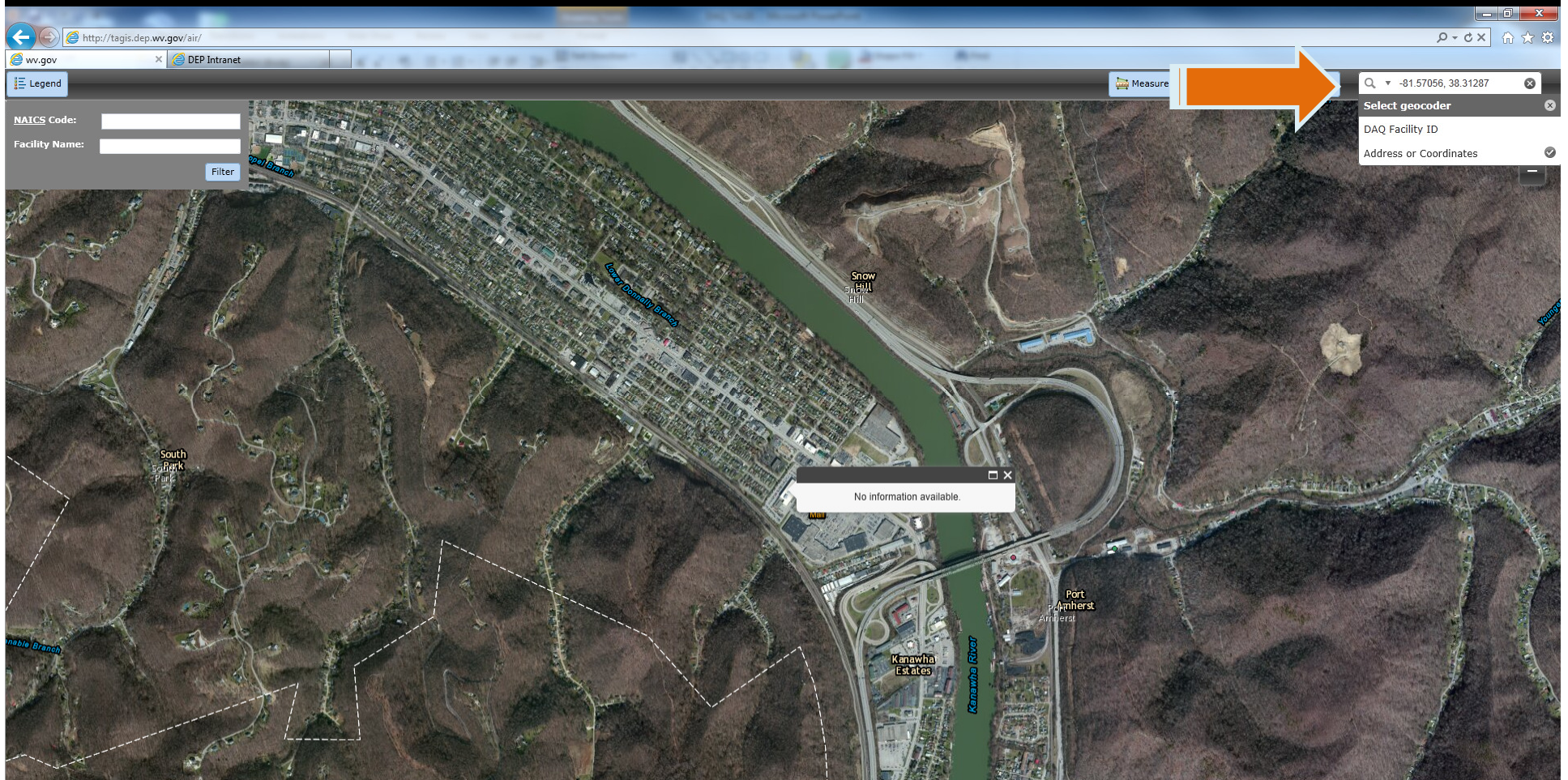
Kanawha Park

Port of Kanawha

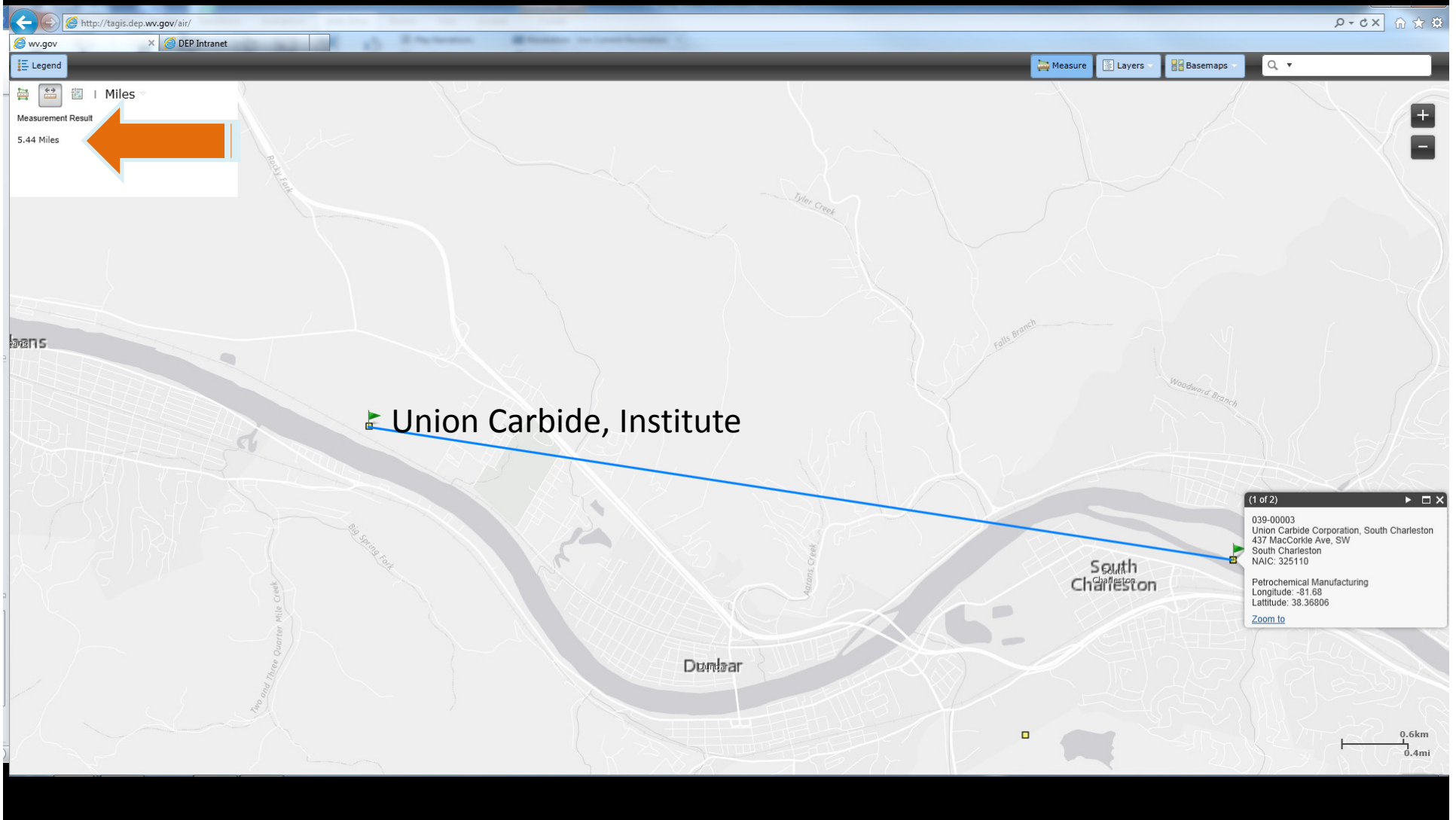
200m
600ft

Search by Coordinates (DEP Building)

- Enter Longitude first and Latitude second



Measure Distances Between Sites



Questions

Weblink: <http://tagis.dep.wv.gov/air/>

Robert Keatley, PE

601 57th Street, SE

Charleston, WV 25304

(304) 926-0499 ext. 1695

Robert.L.Keatley@wv.gov