

PENNSYLVANIA DEPARTMENT OF HEALTH

Pennsylvania Environmental Public Health (PA EPHT) Tracking Program

USER GUIDE for Health Assessment Program (HAP) Map Application

December 2015

Introduction for the Health Assessment Program (HAP) Map

The HAP User Guide explains the functions for the displayed map of Pennsylvania with the associated HAP published reports on hazardous waste sites. This includes links to the HAP published report; the chemicals/constituents found at the site; U.S. Environmental Protection Agency (EPA) information; name and address of the site; and risk of disease. The HAP map also includes layers of potential environmental hazard locations.

The many benefits of the HAP data on the PA EPHT website include accessing documents by time periods, locations, chemicals/constituents at the sites, actions for site remediation, etc. The advantage of the HAP website is that it leverages geographic data from the HAP reports since 1989 in an entirely new manner.

The HAP site enables leveraging of geographic data from HAP sites to “come alive” with the user interface. The HAP documents are abstracted in a single table. When viewing the entire map of Pennsylvania – all HAP sites may be accessed by red triangles. The triangles are “hot linked” to points on the Pennsylvania map. Selections of sites may be made simply by clicking on the triangles. The resulting records appear showing site information for further viewing and analysis. The map may be either zoomed in or out depending on preference. Zooming in provides views of sub-county data, as the environmental hazard layers will display at closer zoom levels.

Addresses can be searched by the geo-coding function. All HAP sites have the same address standardization. The addresses may be accessed and distances between points may be determined. Toxic sites can now appear by street-level location.

Health Assessment Map Attributes

Selection, by attributes, from the HAP documents is readily available through use of the toolbar functions. The toolbar function has the following elements to:

- Identify the hazardous areas by site name
- Identify the hazardous areas by major chemicals/constituents found at each site
- Search Pennsylvania for HAP sites with specific chemical/constituents
- Search for hazardous areas by risk of disease
- Bookmark locations for state, health district and county zoom levels

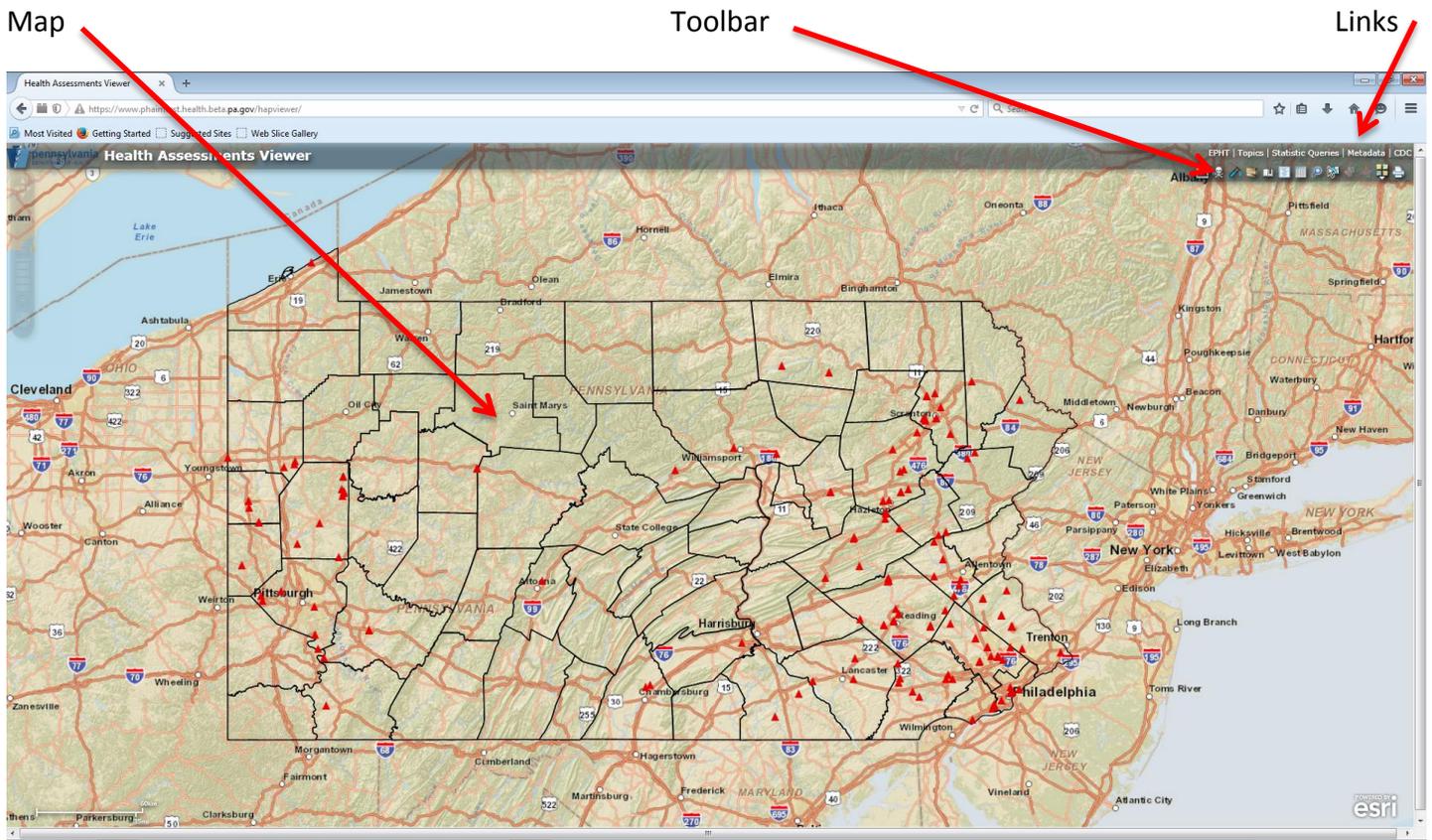
Other functions from the toolbar function will:

- Print information selected
- Locate nearby sites with the buffer tool
- Clear selections and rescale the map
- Select feature (e.g., identify chemicals/constituents)
- Search among numerous address for potential exposures to common chemicals/constituents

In addition, the HAP website functions offer selection of sites for creation of further data by creating subsets for further analysis.

Health Assessment Viewer

The map application allows the lookup Health Assessment sites and environmental hazard locations. It consists of a map screen, tools and links.



Zoom Control



Use the arrows function on the left side of the map to pan. Use the plus/minus or bars to zoom in or out of the HAP map. Click and hold then drag the mouse cursor to pan. The mouse wheel control can also be used to zoom in or out of the map function.

Health Assessment (HA) Toolbar

Pennsylvania Environmental
Public Health Tracking Program

Health Assessment
Project Topics

Statistical
Tools

Help

Link to CDC



1. Find HA by Site Name

2. Find HA by Major Chemicals

3. Find HA by Chemical Search

4. Find HA by Disease Risk

5. Bookmarked Locations

6. Map Contents / Legend

7. Open Layer Attribute Table

8. Search Address

9. Select Feature

10. Clear Selection

11. Find Nearby / Buffer

12. Select Basemap

13. Print

HEALTH ASSESSMENT VIEWER

DESCRIPTION OF TOOLS:

1. Find Health Assessment by Site

Enables scrolling through all the listed sites of reports shown on the Map of Pennsylvania. Click on a site name then click on "Execute" to highlight the site and pull up the HAP table with all variables accessible. Examples are:

- Site address
- Chemicals/constituents reported
- Increased risk of disease
- Exposure path

Use the zoom control to make the display larger or smaller. The tool dialog box can be moved or minimized to show map features

2. Find Health Assessment Sites by Major Chemicals

Enables searching the Database for specific chemicals/constituents by selecting "Yes" for that chemical. Examples are:

- Volatile organic compounds
- Arsenic
- Lead
- Mercury
- Carbon monoxide (CO)
- Asbestos

Multiple selections can be made. Note that some combinations will result in no results found

3. Search Health Assessment Sites by Chemical Search

Enables the input of a specific chemical/constituent that will show where the chemical(s) appear on the site map. Input is case sensitive. The "%" character may be used as a wild card to improve search results. For example, "%rsenic" (for Arsenic and arsenic) will search for HAP sites where Arsenic was found; or "%admium%" (for Cadmium and cadmium) will find instances of Cadmium whether capitalized or not and whether just Cadmium or other chemicals were found

4. Find Health Assessment by Disease Risk

Enables selection of disease risk to find related Health Assessment Sites that match the entered search criterion

5. Bookmarked Locations

Zoom automatically to Public Health Districts and Pennsylvania counties on the map by clicking on the bookmark tool and clicking on the name of the desired location

6. Map Contents Legend

By clicking on the map content icon a legend of the map layers will appear. This tool allows for layers to display or turn off. Clicking on a layer name makes that layer active and enables certain tools to operate on that layer. For example, the tool enables selection of hazardous waste sites by categories such as:

- Health Assessment Sites
- Recycling centers
- Waste facilities
- Superfund sites (national priority listings)
- Defense sites

Other functions include refresh, zoom to the selected layer and opening the map service details web page. Click on the menu's "X" or on the tool icon to turn the tool off

7. Open Layer Attribute Table

Shows a data table of the selected layer. This tool allows other functions such as selecting features, zooming to features and exporting selected data to a Comma Separated Values (CSV) file. The CSV enables data to be saved in a table structured format. CSVs look like common spreadsheets but with a .csv extension. Traditionally they take the form of a text file containing information separated by commas, hence the name.

8. Search Address

Search for addresses, places or content to add to the map. Type in an address and hit "Enter" or click the magnifying glass icon. Candidate address results will appear in the dialog box and the map will zoom to the best matched address, or if there are more than one result an alternate match can be chosen. Click on "Add" to add a pin icon for that address to the map. An entry for that address will also appear in the map contents legend. Click on the menu's "X" or on the tool icon to turn the tool off

9. Select Feature

Select features of the selected layer on the map by drawing a box around the desired location. The selected feature will be highlighted and the Clear Selection and Find Nearby tools will become available on the toolbar

10. Clear Selection

Appears on the tool bar when a feature has been selected. Enables deselecting or clearing the selected feature

11. Find Nearby / Buffer

Appears on the tool bar when a feature has been selected. This tool allows a buffer to be drawn around the selected feature of a specified radius. Choose the unit of measurement (e.g., miles, meters, or kilometers), enter a distance and click "Find". A buffer will draw on the map that can be used to determine other map features within that distance and two new entries will appear on the map contents legend for that selected feature and the buffer. The entries will remain in the map contents display until the browser session is refreshed or closed

12. Select Basemap

Choose available Basemap layers consisting. The default is streets, but other examples are:

- Topography
- Imagery
- Terrain

13. Print

Generates a print output. Clicking on the printer icon opens the tool and allows for a few basic settings to be modified. Click on "Print" and a preview appears. Click on the printer icon in the preview window and a print configuration dialog box appears. Clicking on the Print button in the dialog box sends the map to the printer