



**Los Angeles County**  
**Department of Public Health (DPH)**  
**Geographic Information Systems (GIS) Map Viewer**  
**User Guide**  
**June 2012**

**Office of Health Assessment and Epidemiology,**  
**Epidemiology Unit**

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## Introduction

The Los Angeles County DPH GIS Map Viewer User Guide provides descriptions and illustrations of the map features and functions in the web application (e.g. Map Layers, Toolbar and the Map Window).

The DPH GIS Map Viewer enables users to map health-related data interactively and to zoom in/out and pan across maps quickly. Furthermore, there are many GIS tools available in the web application that will allow users to create and customize maps (e.g. measure distance and area tools) and to perform simple GIS analyses. Maps can be saved as projects and/or shared as an image, pdf or internet web link.

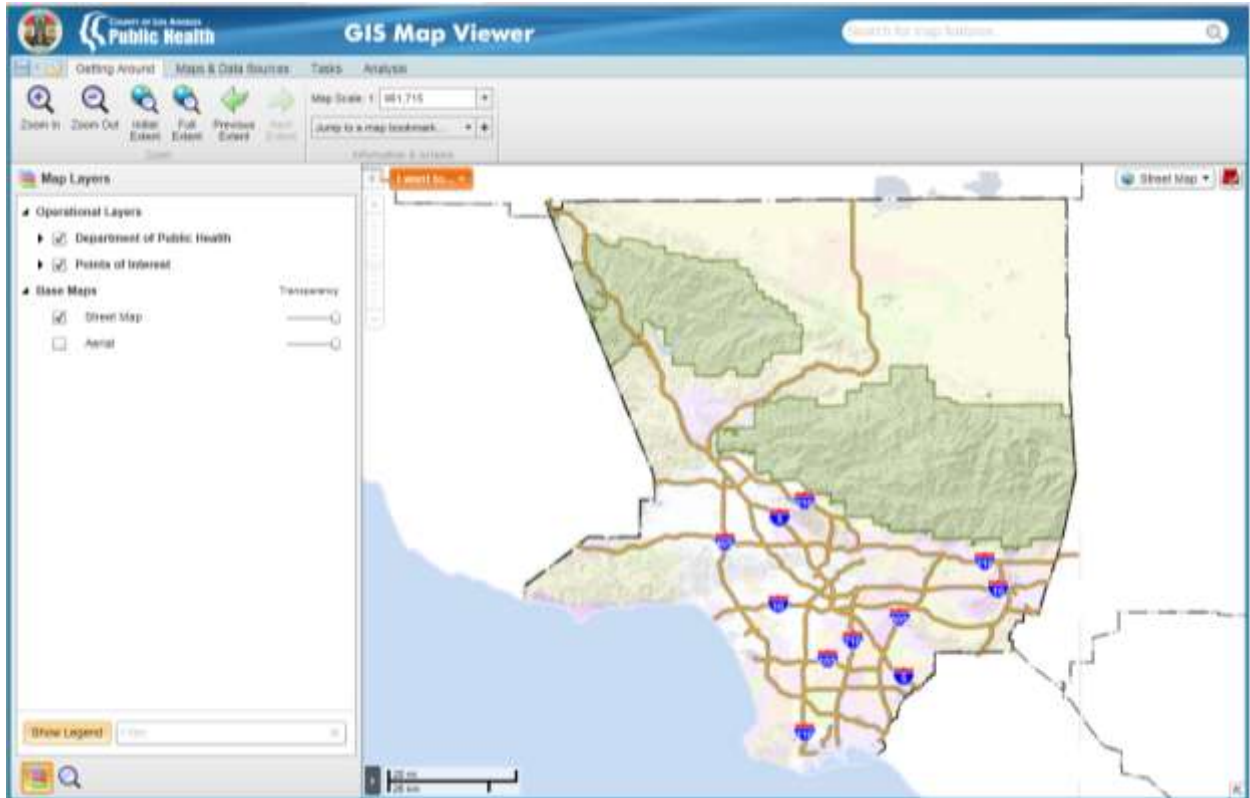
The GIS Map [Geocortex viewer for Silverlight](#) was developed by a third party company called [Latitude Geographics](#), and configured by the Internal Services Department, as part of the [Los Angeles County Enterprise GIS](#), of which DPH is a subscriber. This document is subject to change to reflect modifications to the DPH GIS Map Viewer application.

## GIS Disclaimer

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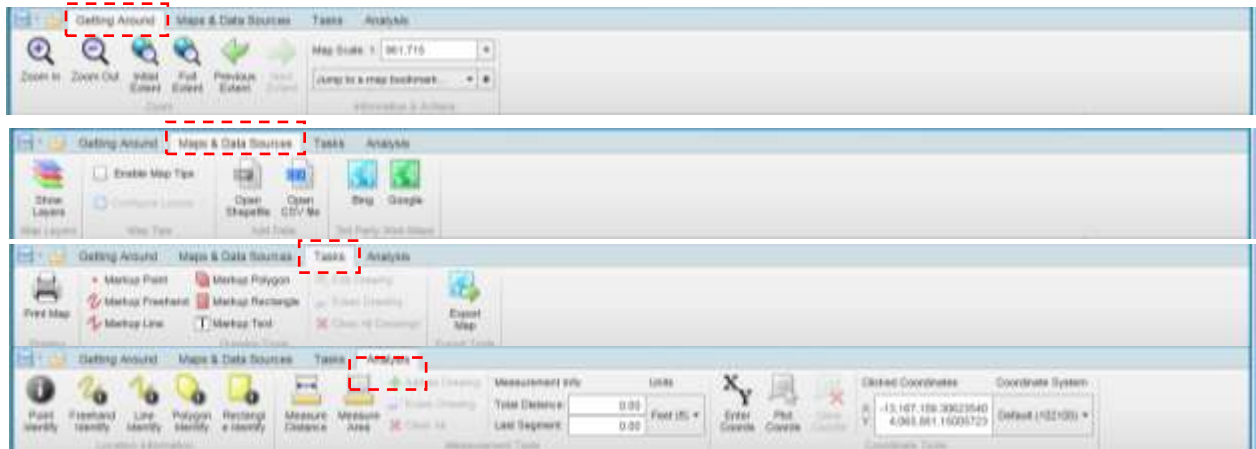
## Getting Started

- Type or follow the link below to access the **DPH GIS Map Viewer**:  
<http://gis.lacounty.gov/dph>
  - Note: Installation of Silverlight plug-in may be necessary (will be prompted)
- This is what the entry page looks like:

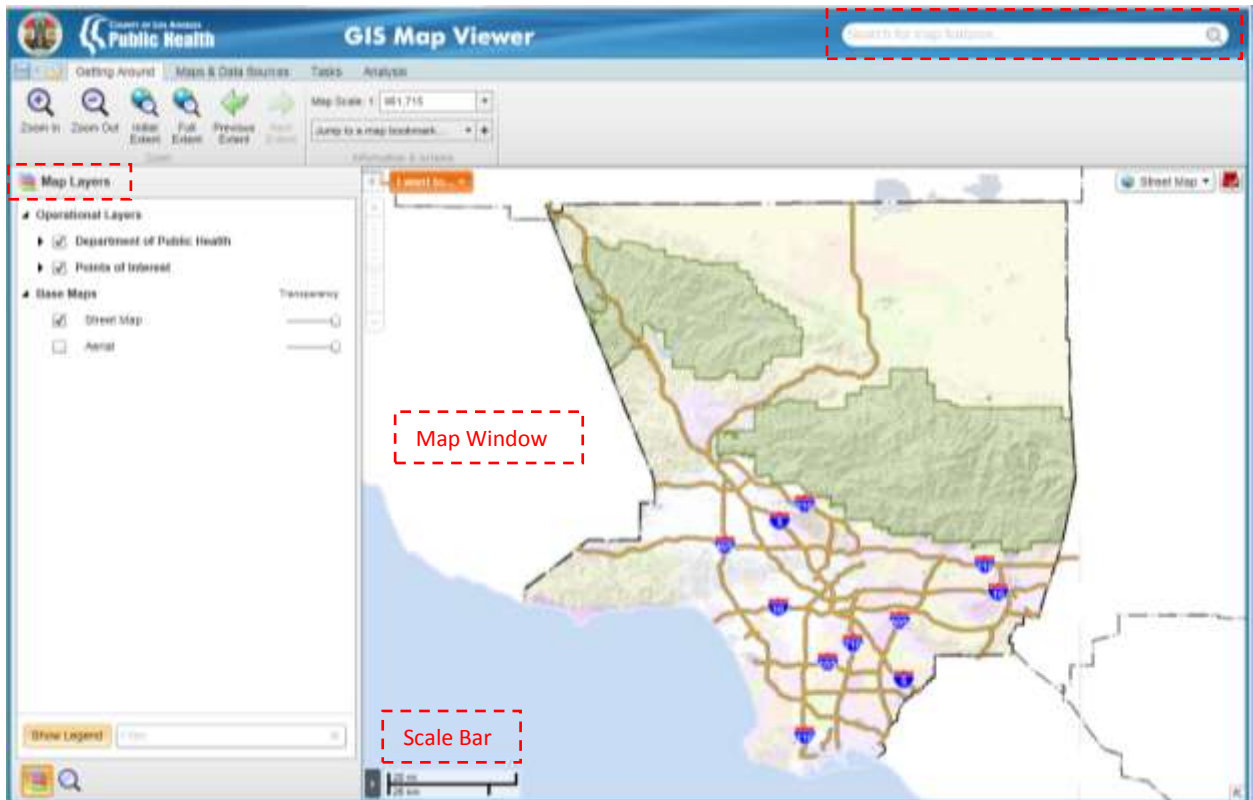


Note: Screen resolution is 1280 by 1024 pixels and zoom is 100% in Microsoft Internet Explorer

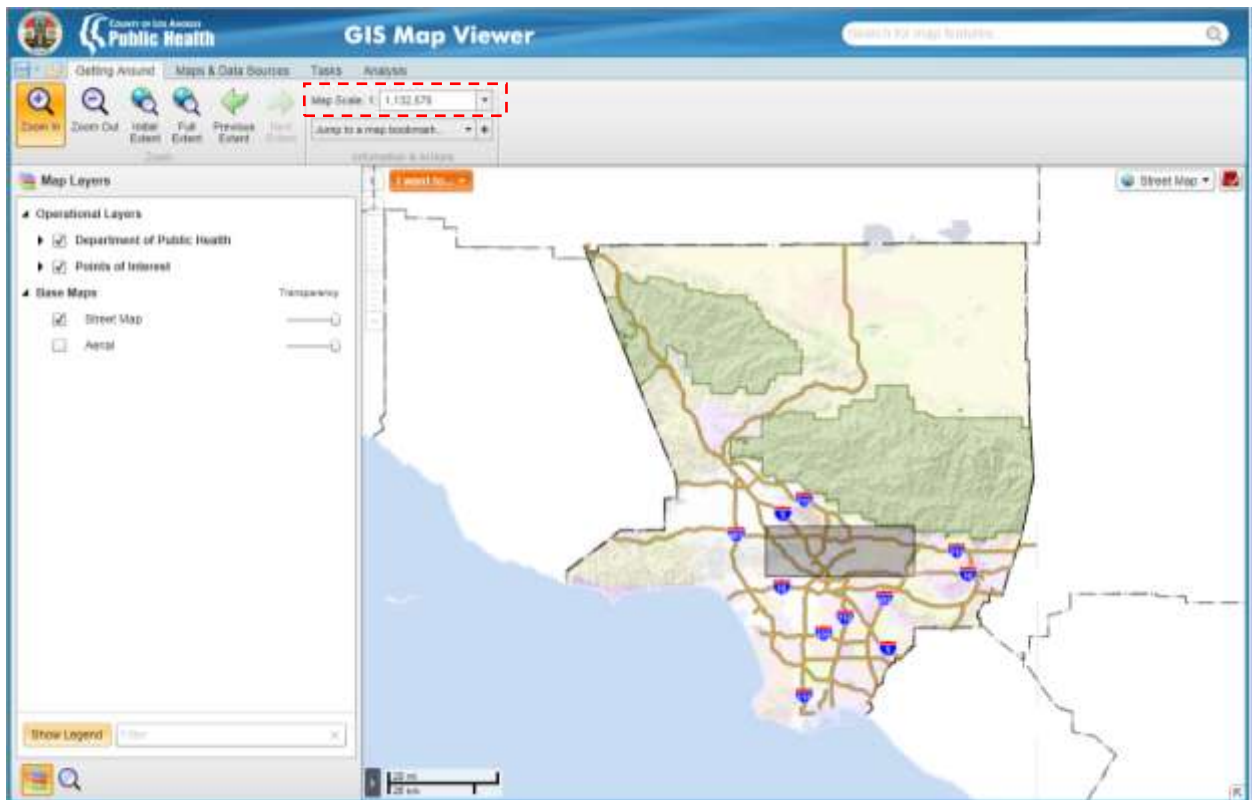
- Across the top is the **Toolbar**, which are organized by tabs



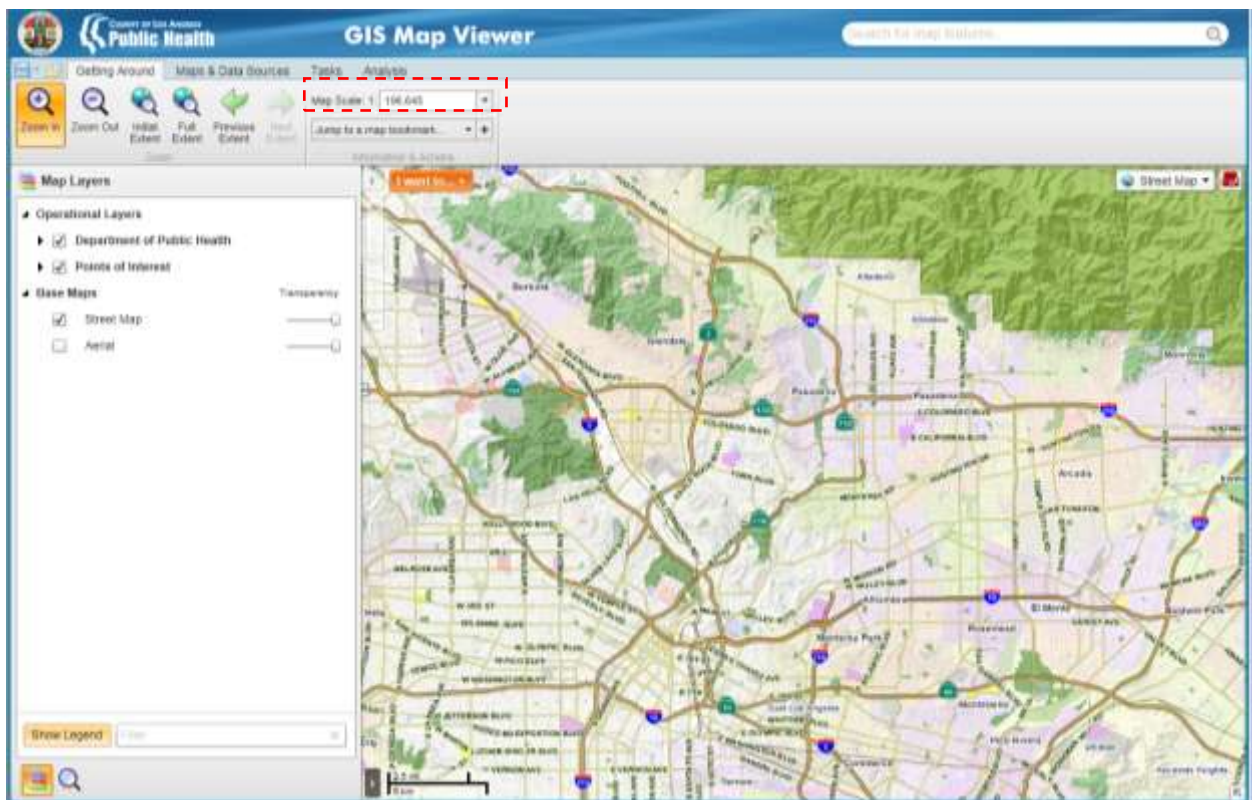
- On the left is the [Map Layers](#) Section, which lists:
  - Operational Layers
    - Choose from Department of Public Health and Points of Interest Data
  - Base Maps
    - Choose from Street Map and Aerial Base Maps, or both
      - Select both and change transparency to create a hybrid map



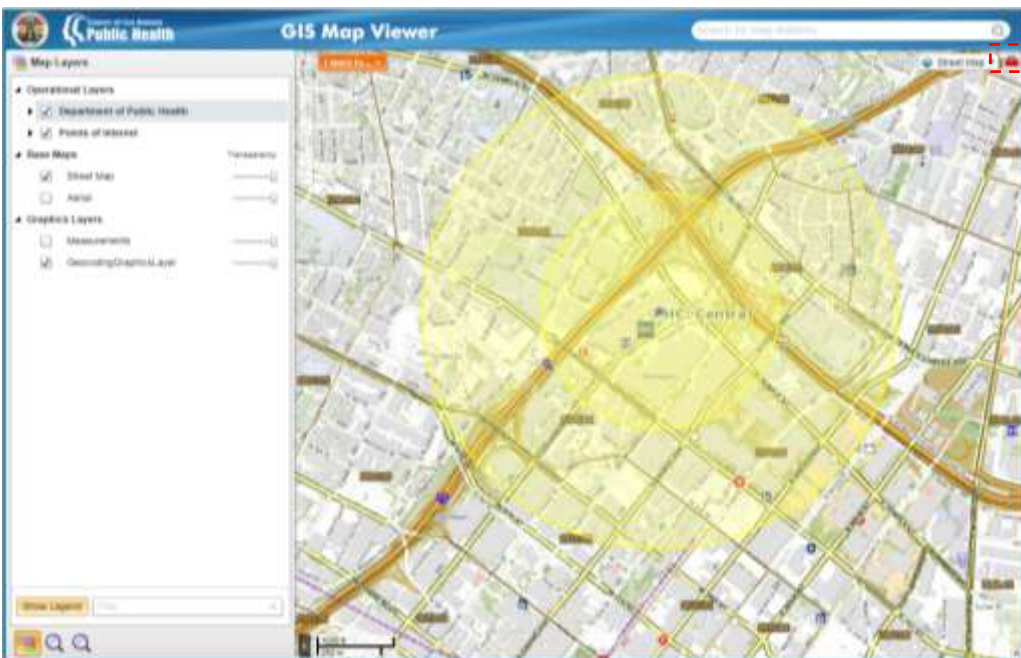
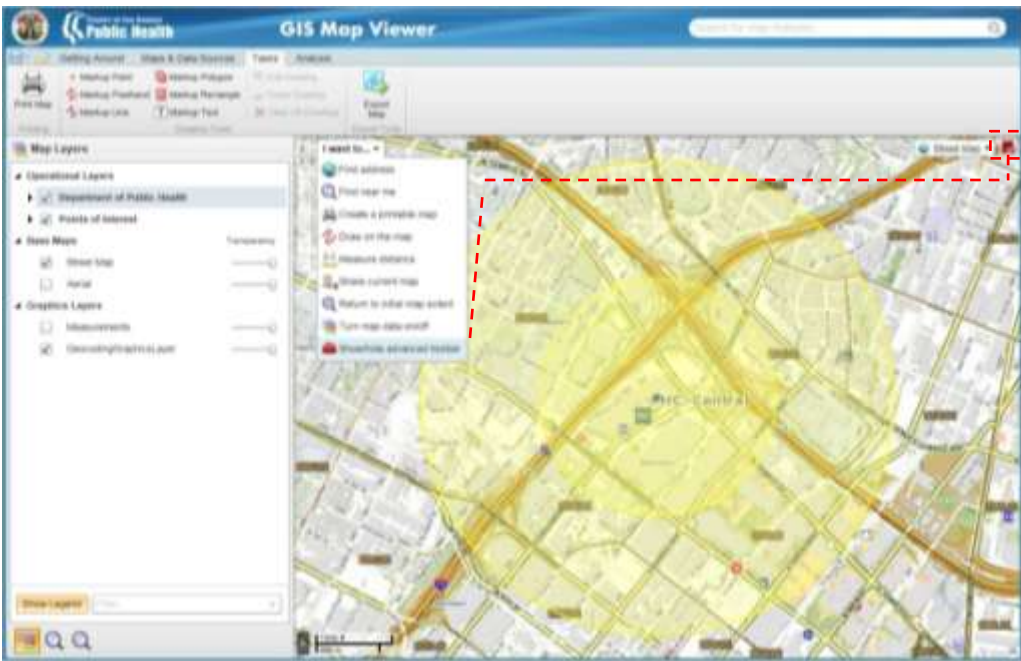
- In the upper right corner is a [Search for map features](#) field
  - Searches for features within the Points of Interest layer data only
- On the right is the [Map Window](#) Section
  - Scale bar is located in the lower left
  - The “I want” drop-down menu contains shortcut tools that will be discussed below
  - To Pan, or move, across the map
    - Left-click, hold and move mouse in desired direction (no tools are selected)
  - To Zoom in and out
    - Draw a box or rectangle in the map window around the area of interest (see screenshot below)
    - Double-click on the map to zoom to area of interest
    - Use wheel on mouse to zoom to area of interest





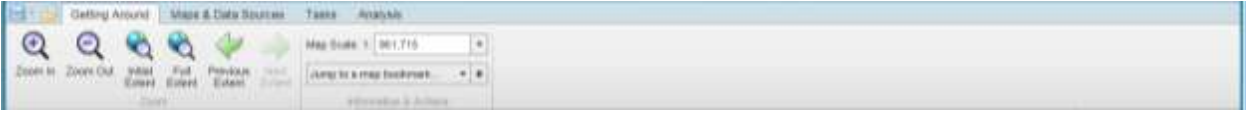






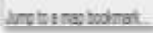
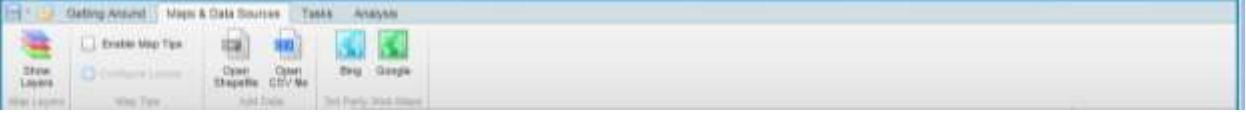

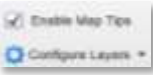

**Note:** Map Scale changed from 1: 1,132,578 to 1: 196,645 when zoomed in by drawing box. You can also manually change the map scale ratio to zoom in and out. Also, you can use the bookmarks to zoom in to a city, community or unincorporated area.






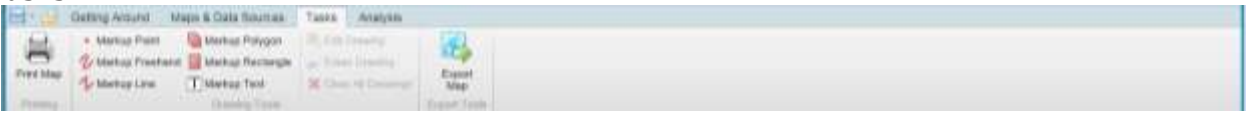









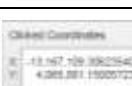

- Show/hide advanced toolbar
  - Can access this tool in the “I want to” drop-down menu or by clicking on the red toolbox icon in the upper right corner of the map window
    - The red toolbox icon changes when the toolbar is hidden. See below.



## Toolbar

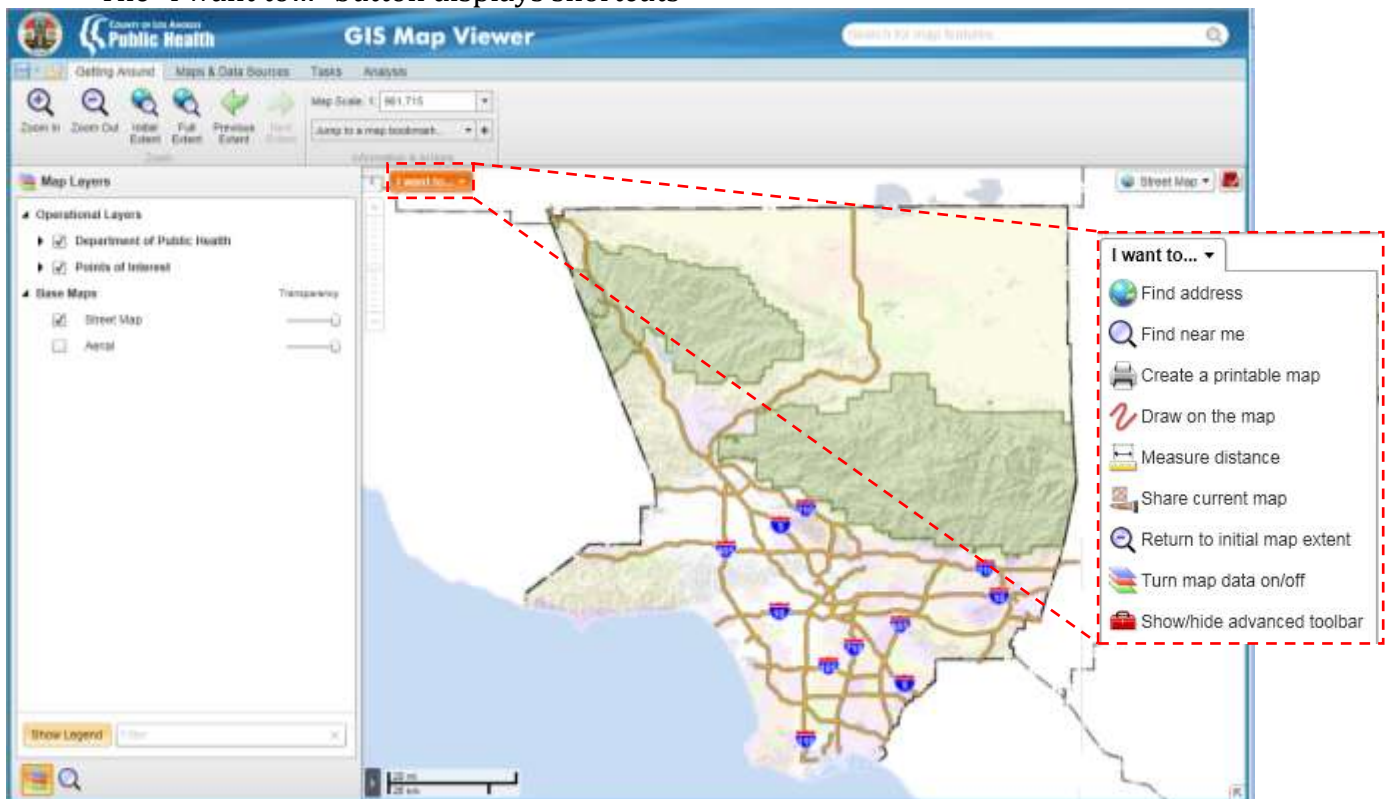
Saving and Opening Projects	Tool	Function
		Save Project and share internet link to project with others. When working on a project, you can choose to save or save as (if you want to change the name of the project).
		Open a saved, existing project.
<b>Getting Around</b>		
		
<b>Zoom</b>		Zoom in by clicking a point or drawing a box.
		Zoom out by clicking a point or drawing a box.
		Zoom to the initial extent of the map.
		Zoom to the full extent of the map.
		Returns to previous extent of the map.
		Allows you to move forward to the next extent of map.
<b>Information &amp; Actions</b>	Map Scale:	Zoom in and out by changing the ratio.
		Zoom in on a preset city or community bookmark. Press '+' to customize bookmark.
<b>Maps &amp; Data Sources</b>		
		
<b>Map Layers</b>		Allows you to open the Map Layers window.
<b>Map Tips</b>		Allows the access of layer data when you click on a layer.
<b>Add Data</b>		Allows you to upload a shapefile (.shp, .dbf, .prj) and project on-the-fly. There is a 2 MB limit.



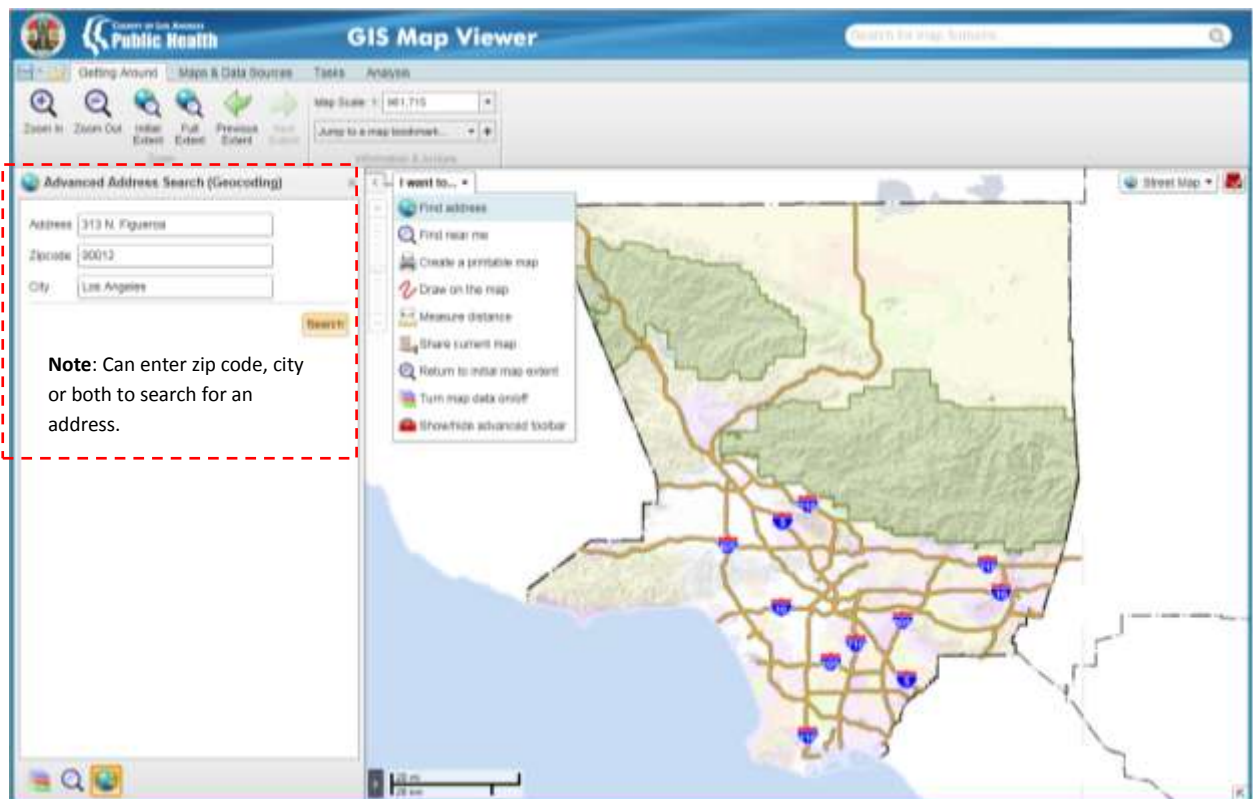
Saving and Opening Projects	Tool	Function
		Allows you to upload a .csv (comma-separated values) file with latitude and longitude and will display coordinates on map. Save as .csv (MS-DOS).
3rd Party Web Maps		Opens Bing map services at current extent of map.
		Opens Google map services at current extent of map.
<b>Tasks</b>		
		
Printing		Creates a printable .pdf (landscape template). Choose from three resolutions and customize title and notes section.
Drawing Tools		Allows user to markup map by using the Point, Freehand or Line tools.
		Allows user to markup map by using the Polygon, Rectangle or Text tools.
		Allows user to Edit, Erase or Clear all drawings.
Export Tools		Allows user to export map as an image (.bmp, .jpeg, .png, .tiff).
<b>Analysis</b>		
		
Location Information		Any of the tools with the <b>i</b> symbol, allows the user to identify the layer by clicking, freehand, line, polygon or drawing a rectangle.
Measurement Tools		Measures linear distance and area. Can change the units of measurement and can add as drawing.
Coordinate Tools		Can enter, plot or clear coordinates on a map. Can change the coordinate system.
		X and Y coordinates are returned when you click anywhere on the map
		Change the <a href="#">coordinate system</a> units from the default (102100) to Web Mercator, Lat/Long (DD [Decimal Degrees]) and Lat/Long (DMS [Degrees, Minutes, Seconds])

## Map Window

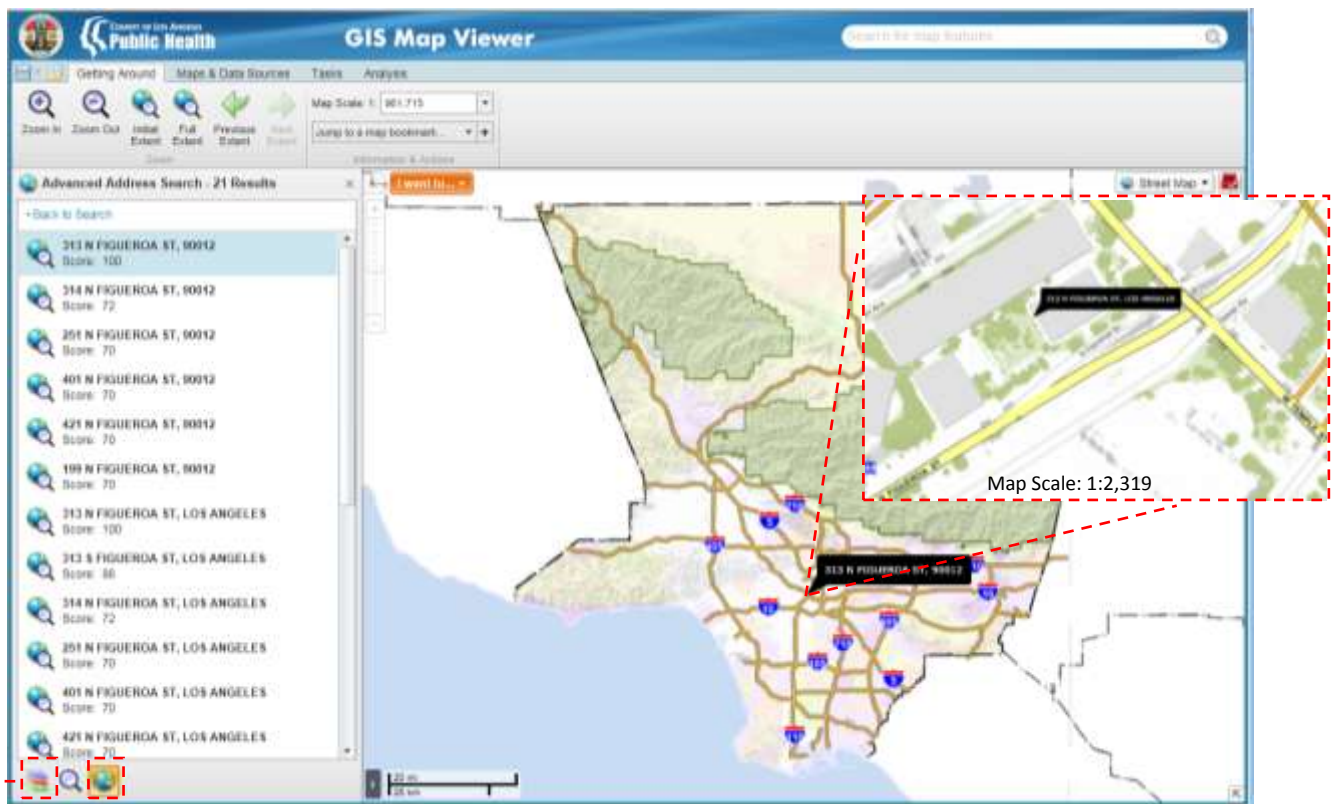
- The “I want to...” button displays shortcuts



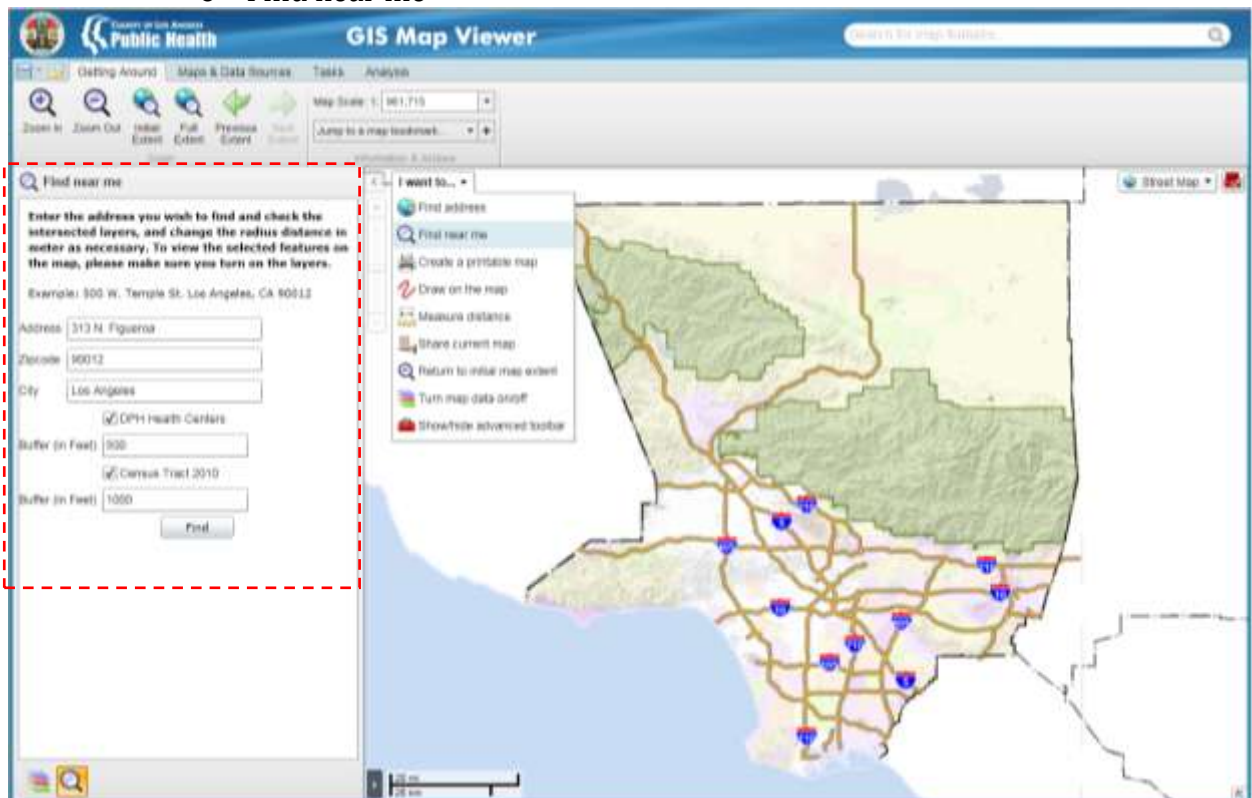
- Find address
  - Type in a specific address to display on the map



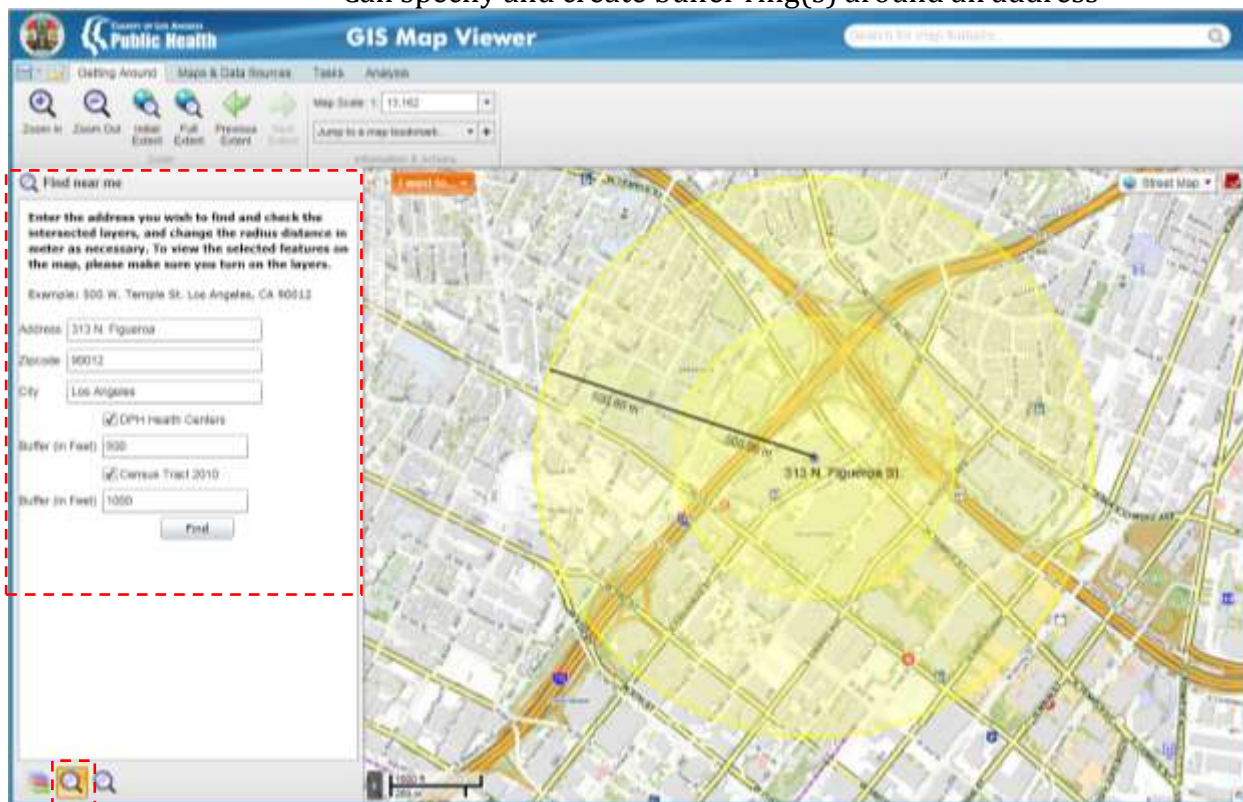
- “Advanced Address Search” window (and Globe icon) appears and returns address matches and score results
  - Appears in “Graphics Layers” (Map Layers) as “Geocoding Callouts”
    - Uncheck to not display, or slide transparency bar to the left



- Find near me

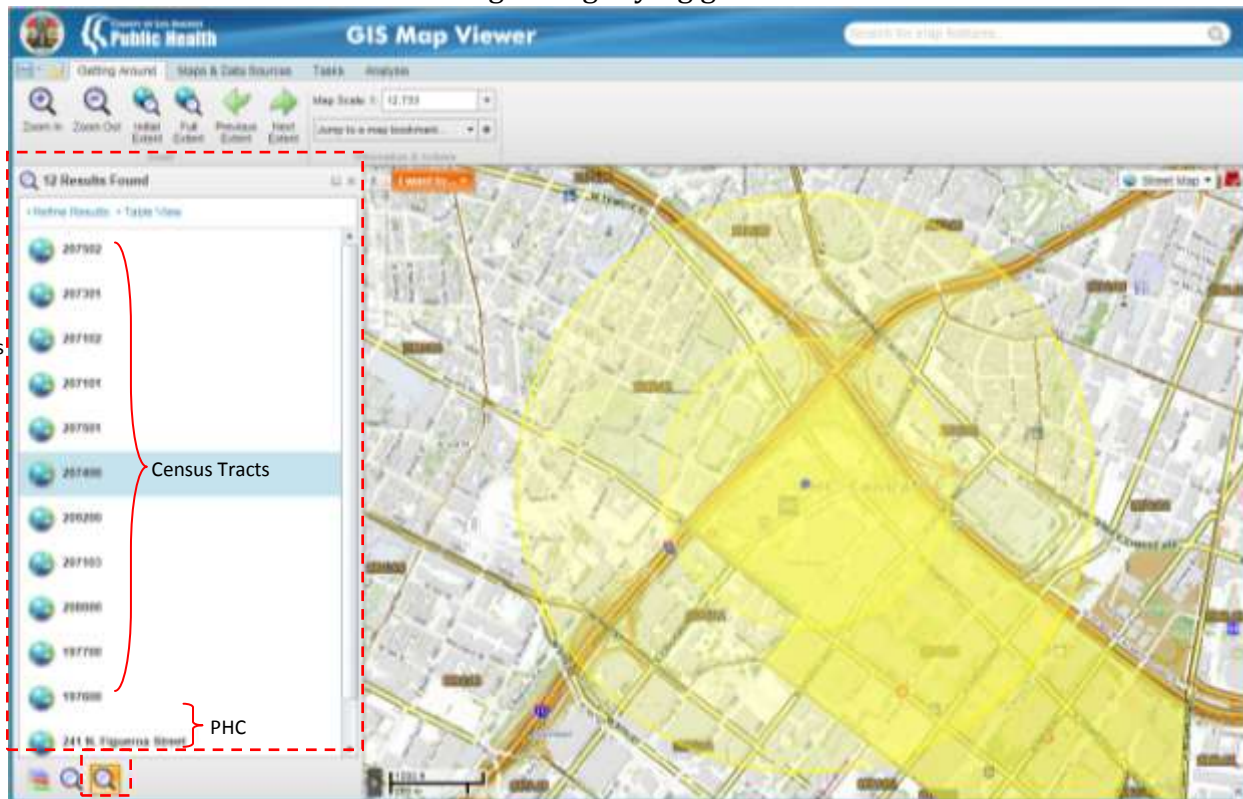


- Identifies closest PHC and Census Tract(s); Community Health Services assigns an address by the health district boundary it is within and not by proximity
- Can specify and create buffer ring(s) around an address



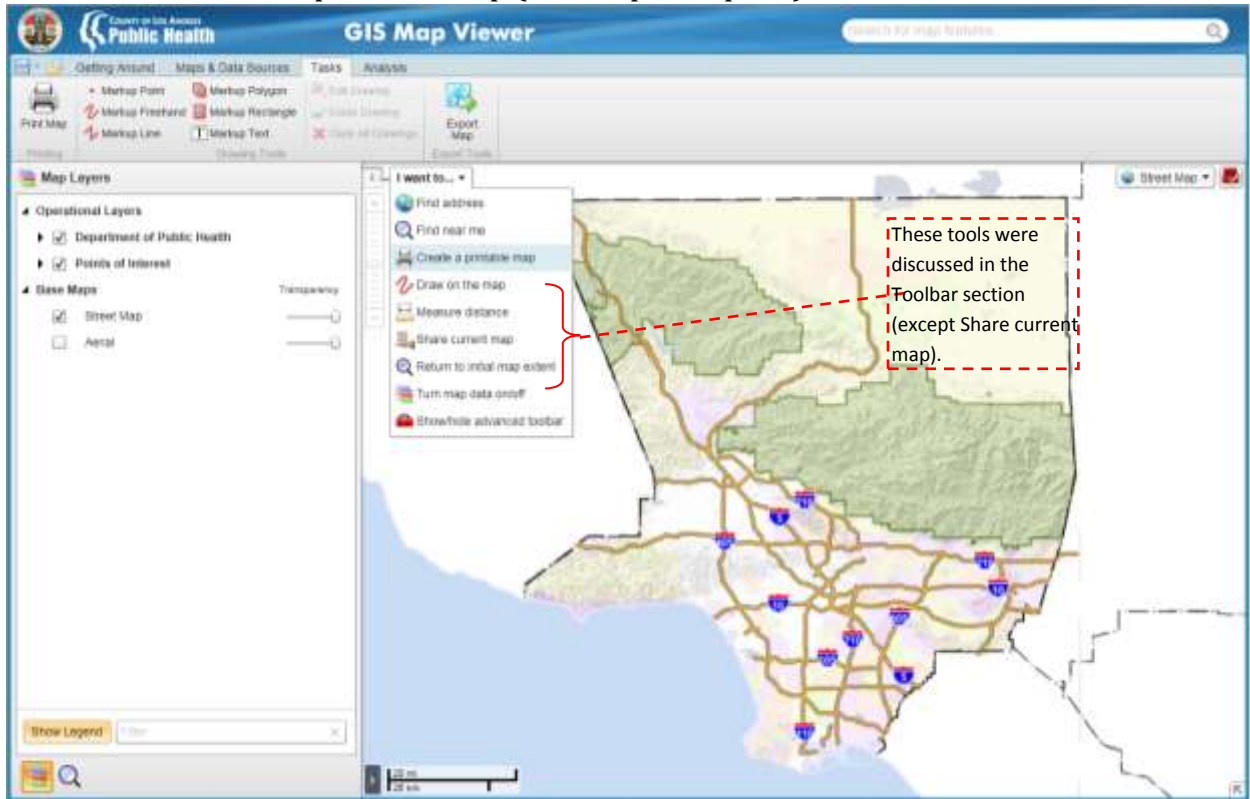
**Note:** Clicking on both DPH Health Centers and Census Tracts 2010, creates two buffer rings and at your specified radius in meters. The measure distance tool was used (Analysis Tab) to measure the distance from the point to the buffer rings.

- Click the right magnifying glass icon to see results



**Note:** Public Health Center (PHC) and Census Tracts, 2010 Layers are selected and displayed.

- Create a printable map (landscape template)



- Select Layout: Landscape (only)
- Output Format: pdf, gif, jpeg or png
- Resolution: 72, 96 or 120 DPI (dots per inch)
- Map Scale: Select your preference or leave as “Current Extent”
- Notes: Type to add notes
- Title: Type to add title
- Click on “Create File,” then on “Open File”
- Go to “File” and “Save as” and save on your computer

**Create a Printable Map** ✕

Select Layout:

Output Format:

Resolution:

Map Scale:

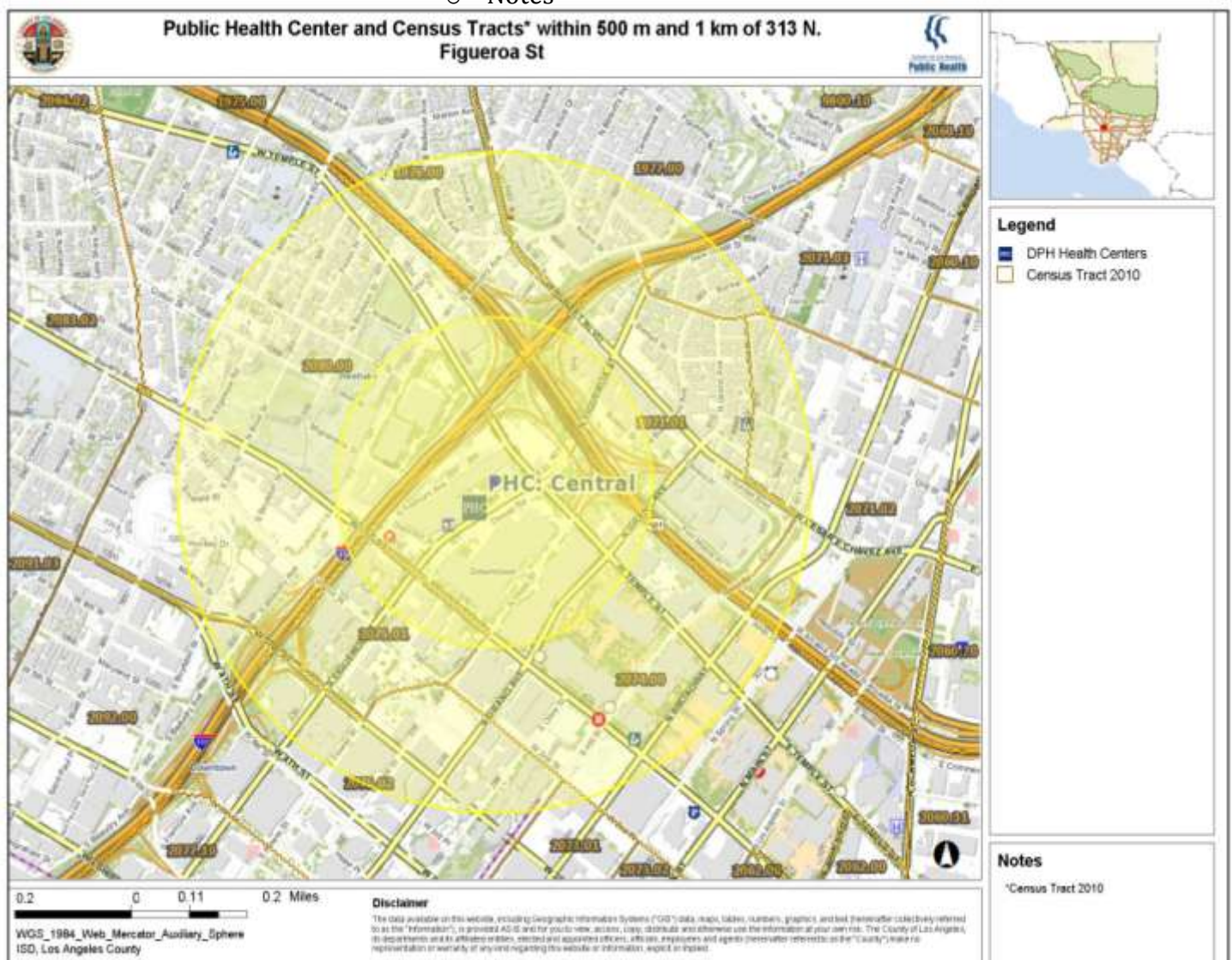
Notes:

Title:

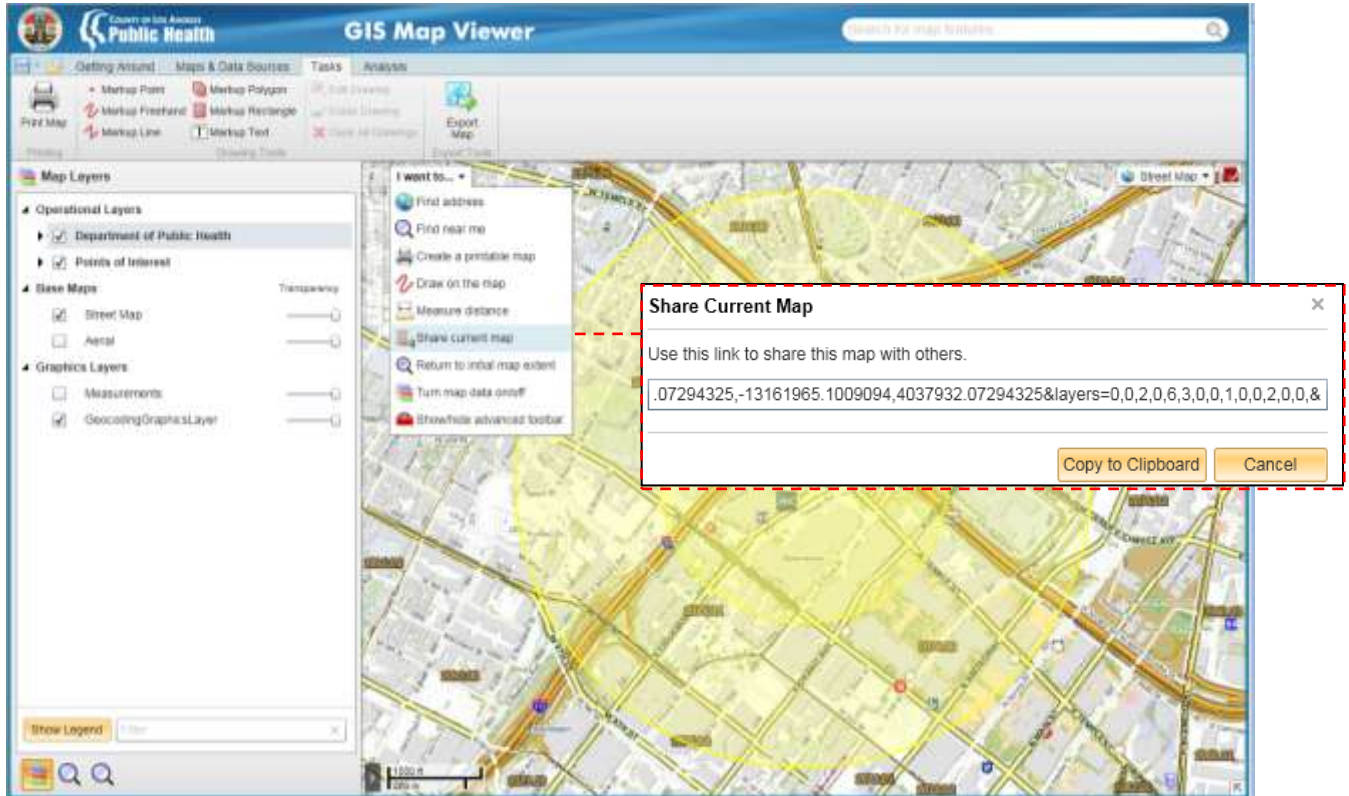
**Create a Printable Map** ✕

Your file is ready. Please click the 'Open File' button, or click 'Back' to create another printable map.

- Open image
  - The title and notes that were entered are now displayed in image
  - Print template includes Los Angeles County and DPH logos
  - Legend
    - DPH Health Centers and Census Tracts appear because they are selected in map layers section
  - In the upper right corner, the overview window displays the zoomed in area in Los Angeles County in the map (red box)
  - Along the bottom
    - Scale bar and text
    - Projection of map
    - [Disclaimer](#)
    - Notes

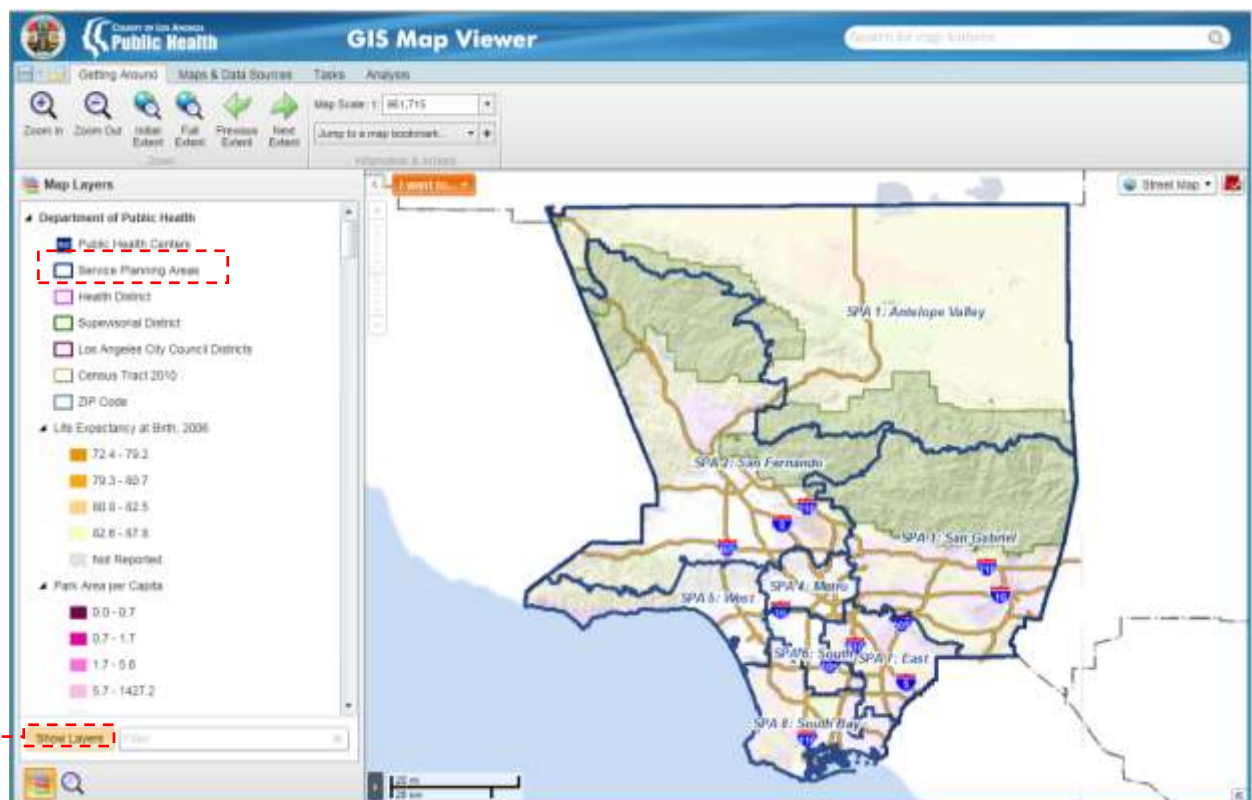
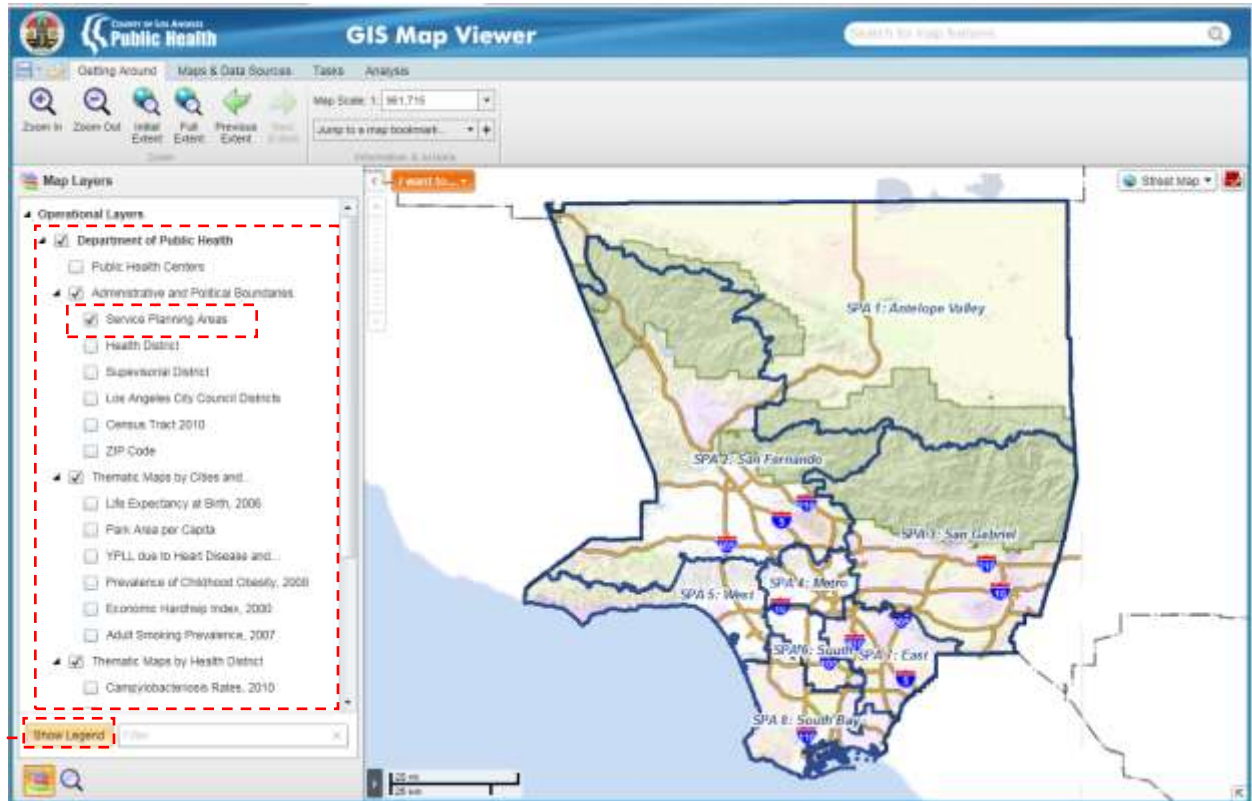


- Share Current Map
  - Share url link to share map with others or copy to clipboard



## Map Layers

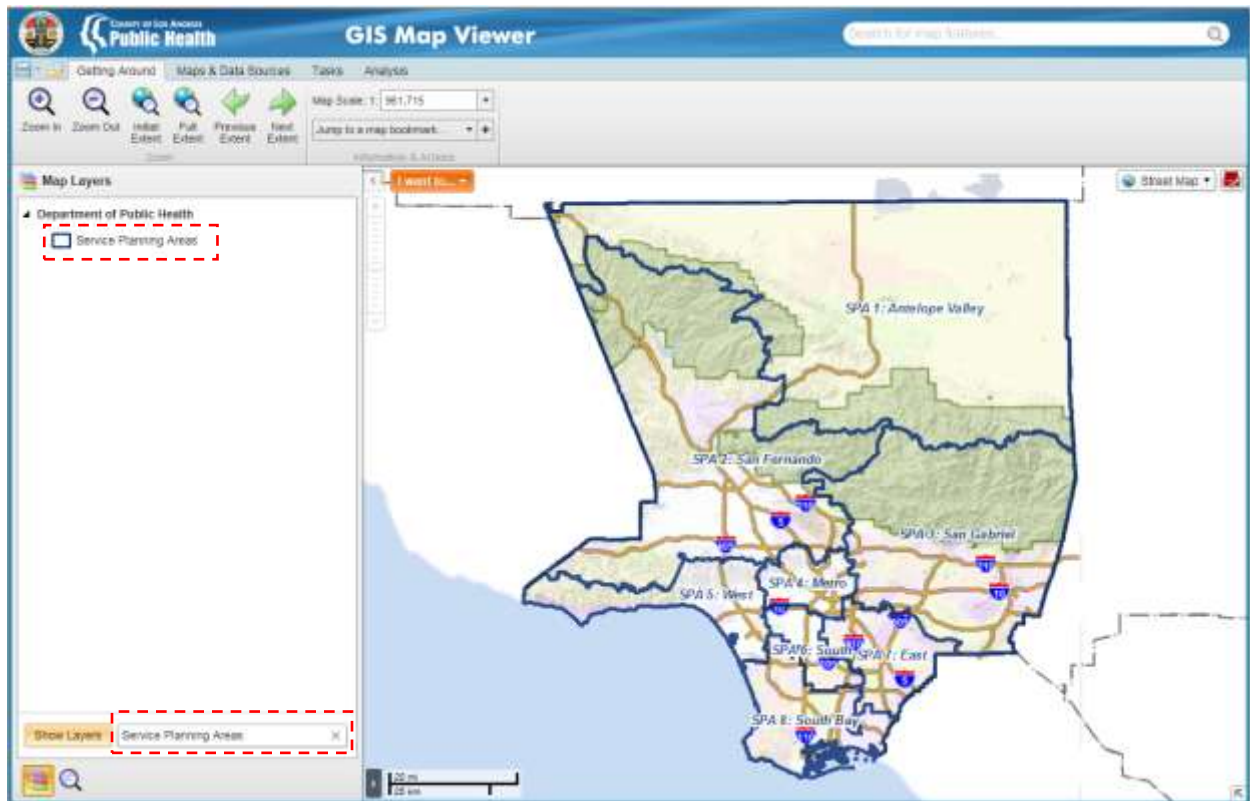
- Click the ► symbol to expand each layer (e.g. Department of Public Health)
- Click the  checkbox to select and display layer data and symbology (e.g. Service Planning Areas)
- Click “Show Legend” to show the layer value and symbology



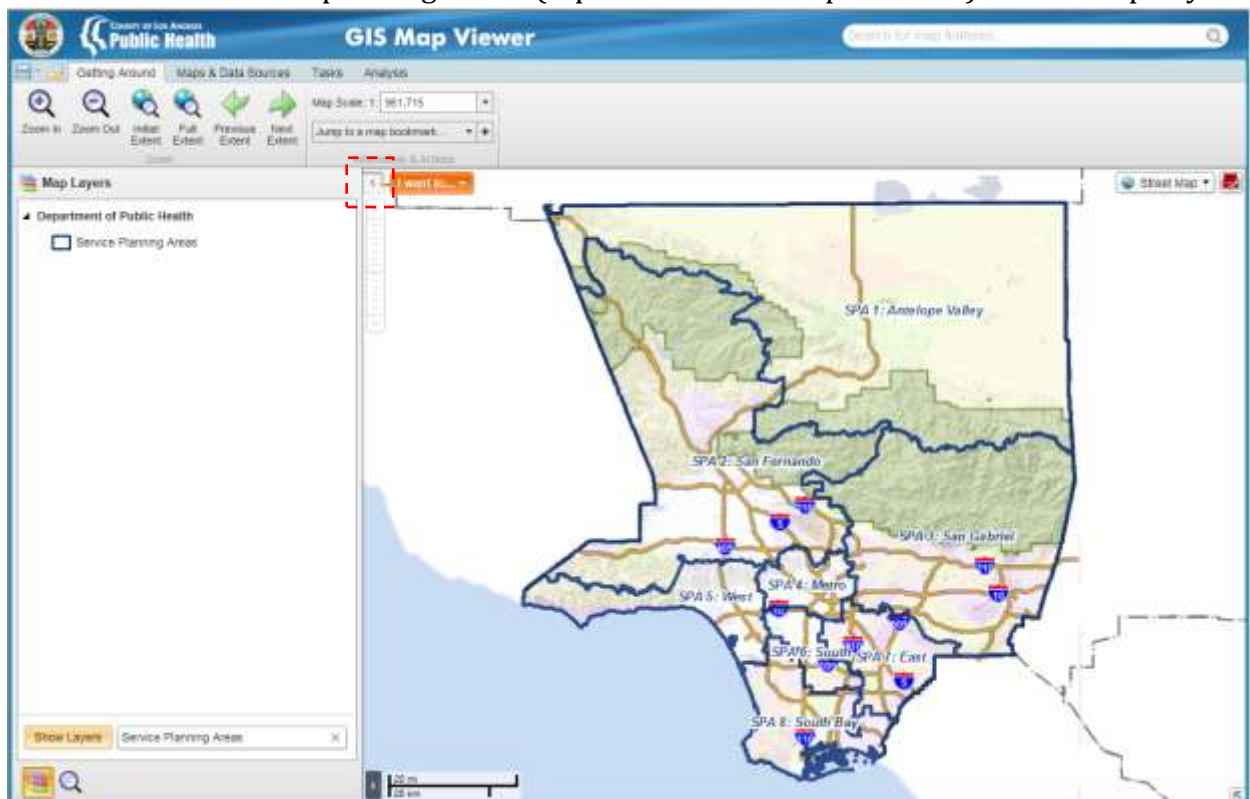
Show Legend changes to Show Layers



- Type a keyword (e.g. Service Planning Areas) in the “Filter” section to subset layers
  - Filters both Department of Public Health and Points of Interest layers



- Click on the left-pointing arrow (top left corner of Map Window) to hide Map Layers Section

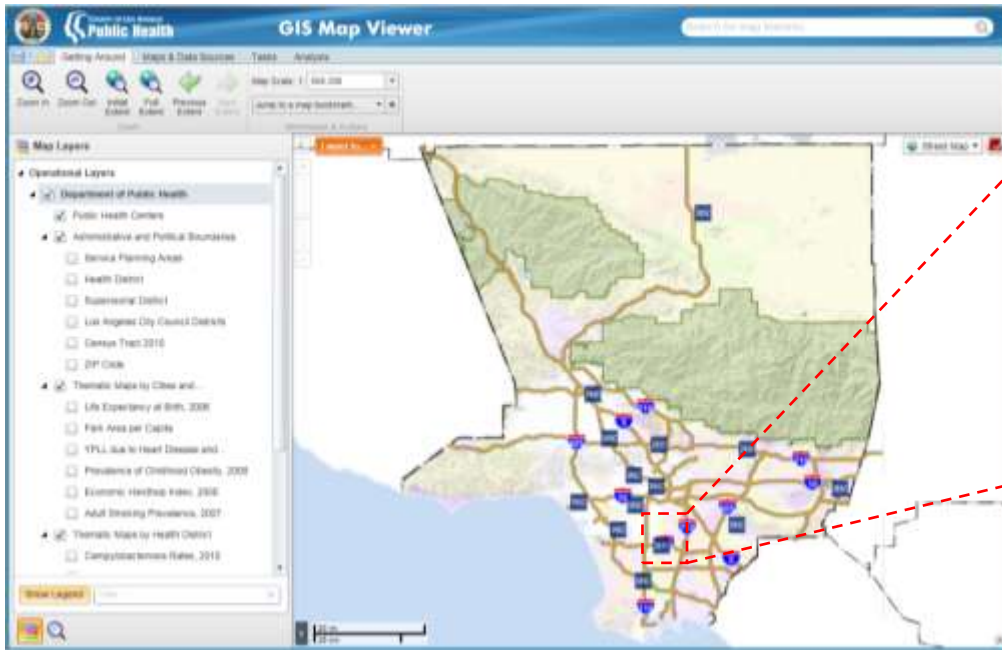


- Click on right pointing arrow (top left corner of Map Window) to restore Map Layers Section



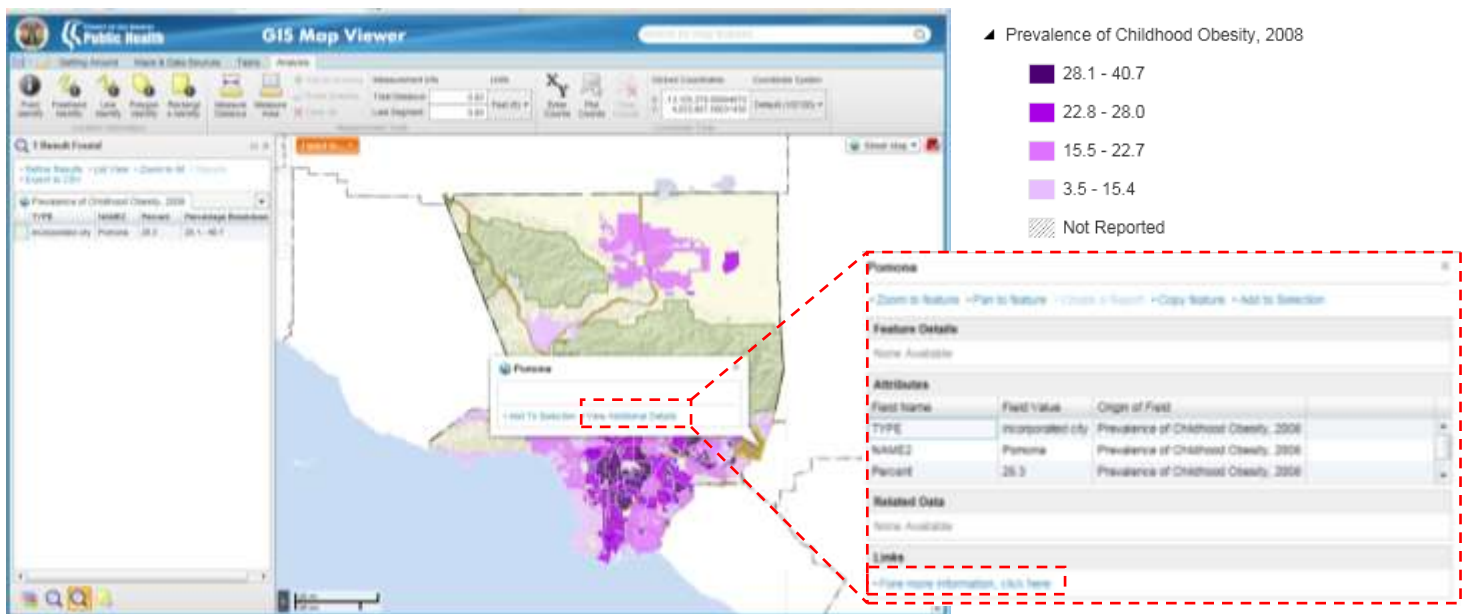
## Map Layers Data (Examples)

- Operational Layers – make sure that boxes are checked under this section in order for data to display in the map window
  - Department of Public Health
    - Public Health Centers (PHC)



Zoomed in view of Martin Luther King, Jr. PHC with the Street Map in the background. Note: Labeling of Operational Layers and Base Maps are scale dependent.

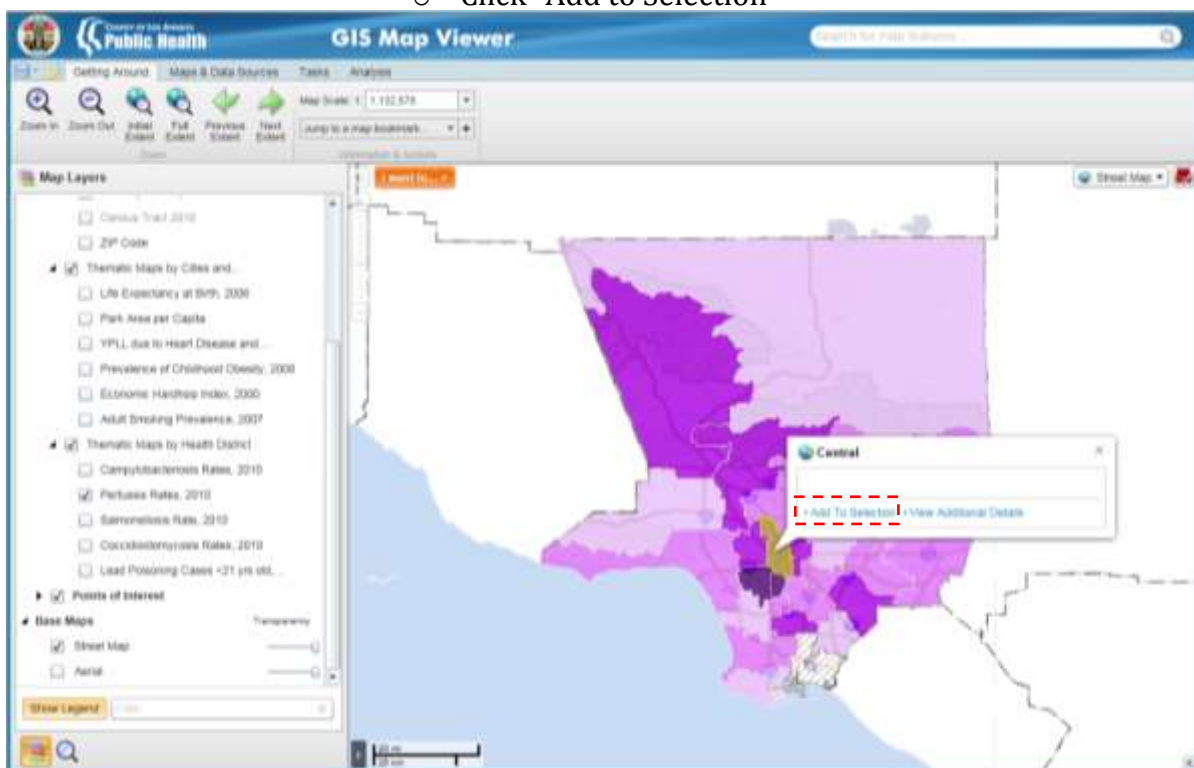
- Administrative and Political Boundaries
  - e.g. Service Planning Areas, Health Districts and more
- [Thematic Maps by City and Communities](#)
  - e.g. Prevalence of Childhood Obesity, 2008



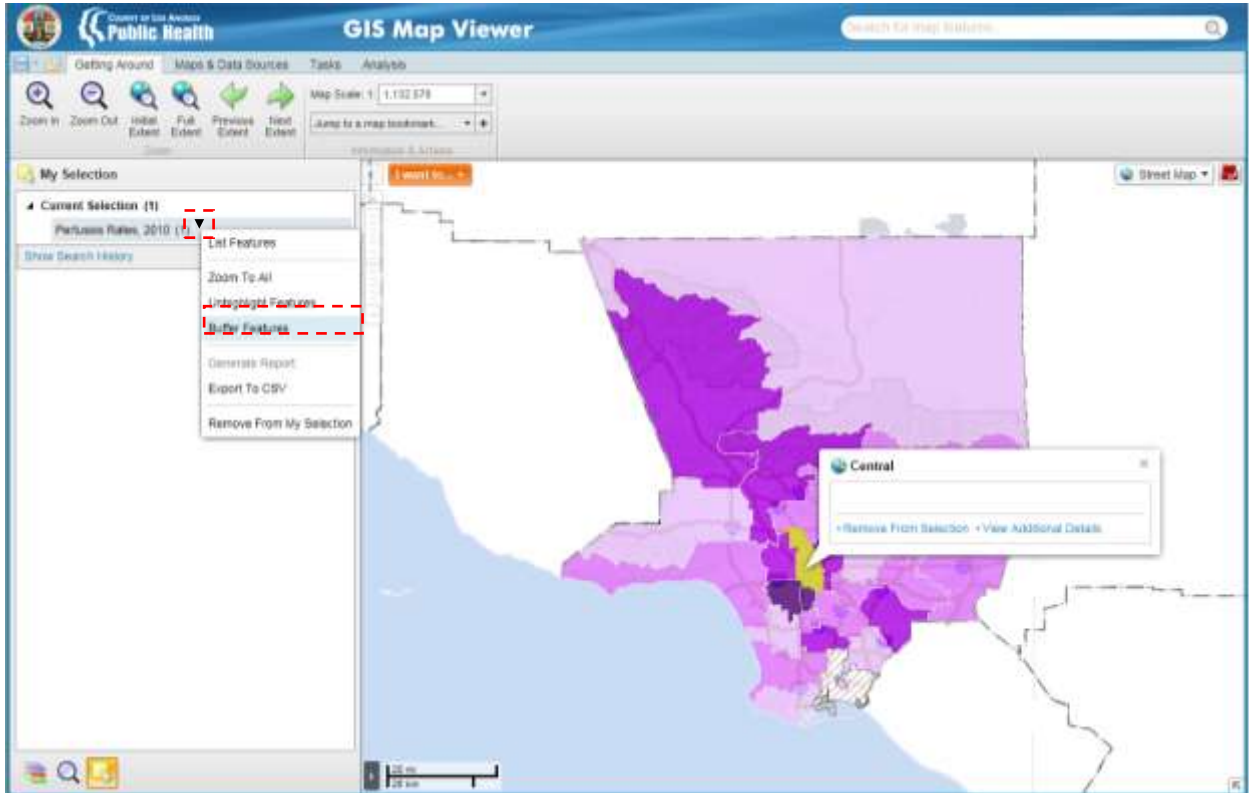
In Analysis Tab, select “Point Identify” Tool and click on Pomona. Click on View Additional Details to view Attribute data. In Results (left), click on “Export to CSV” to view data in Excel.

Under Links, click “For more information, click here” to access pdf of report

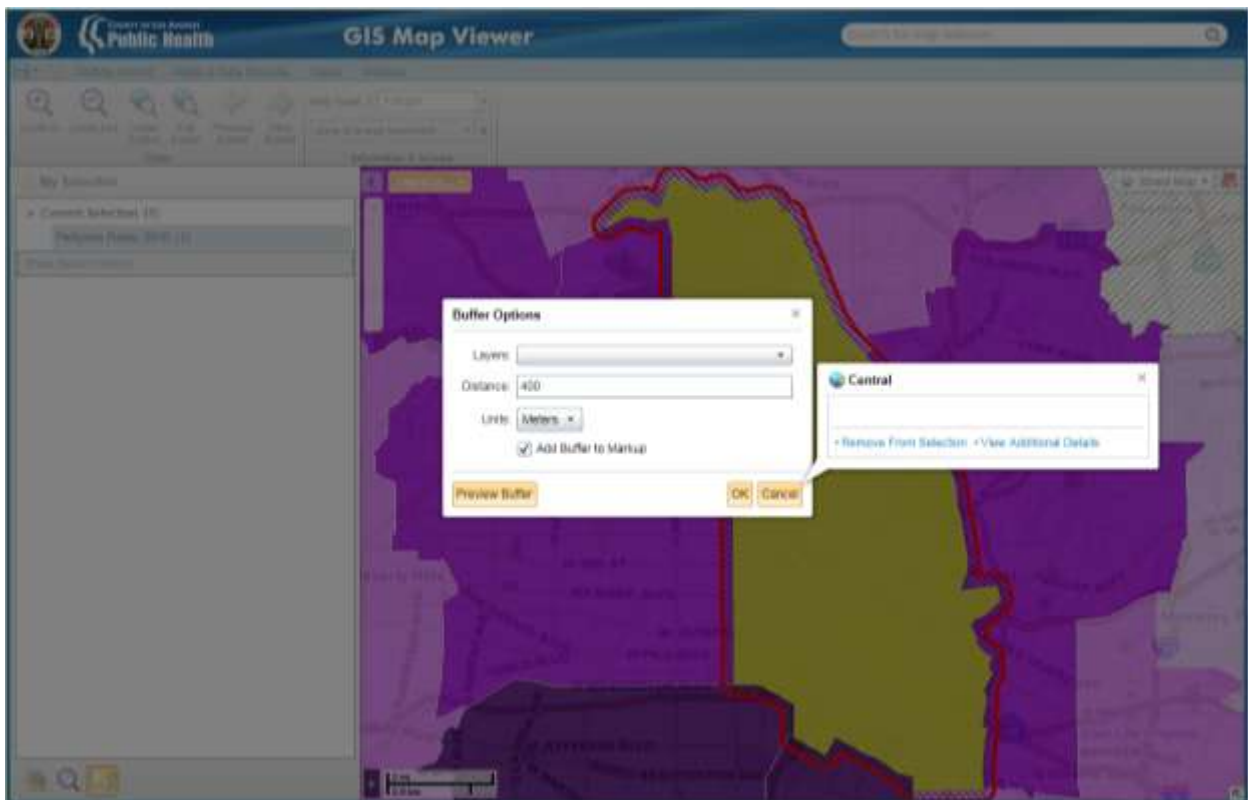
- Thematic Maps by Health District
  - e.g. Pertussis Rates, 2010 (must enable “map tips”)
  - Buffer Features
    - Click “Add to Selection”



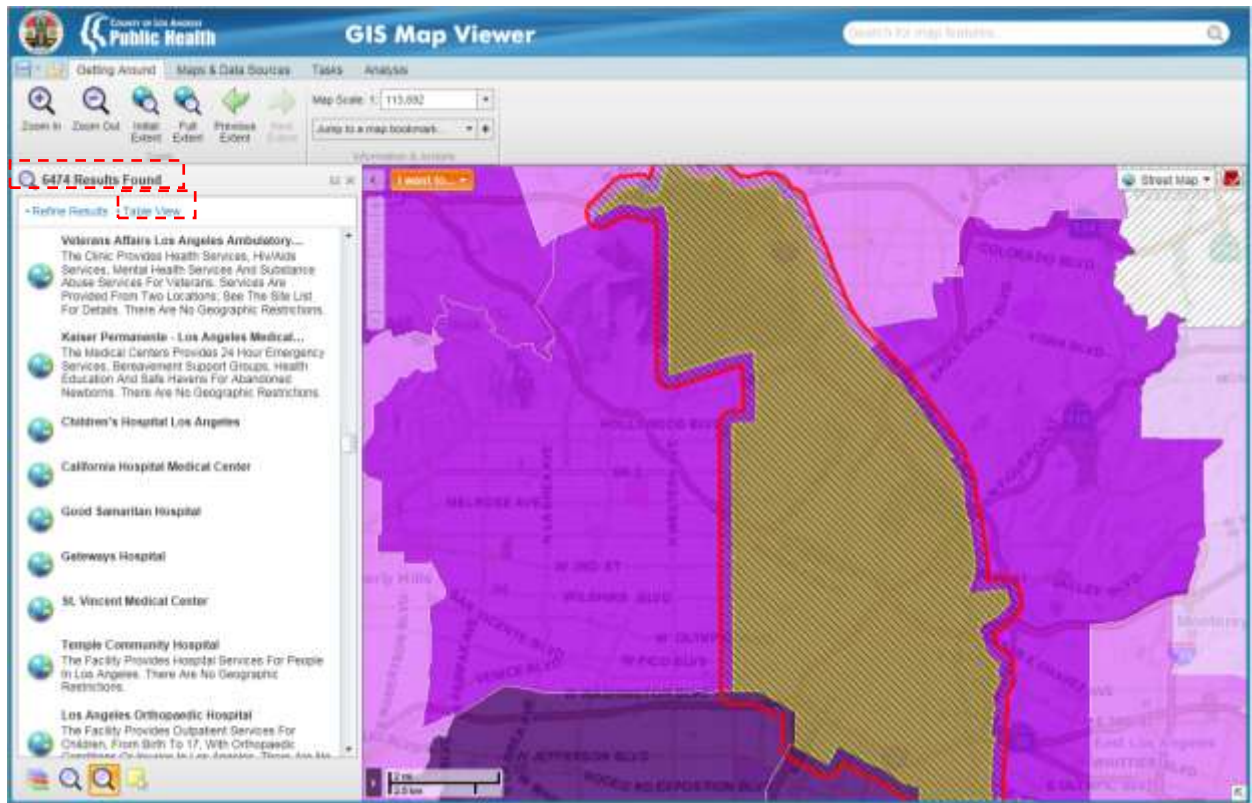
- Click on drop-down arrow in My Selection Section
- Select Buffer Features
  - Creates buffer around selected feature



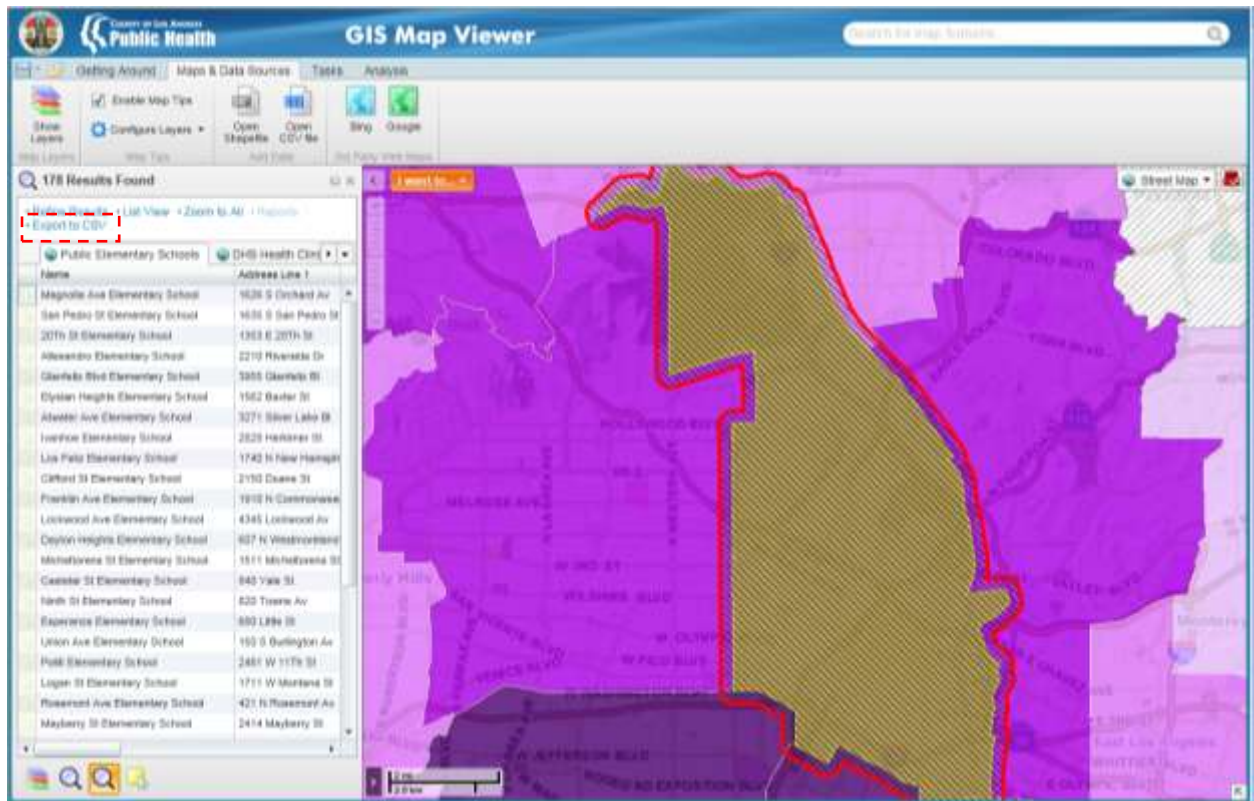
- 400 m buffer is created and added to Map Layers
- Use "Layers" to refine query



- Queries and identifies features that are within buffer
- Table view show the feature layers and values



- Export desired queried features as csv




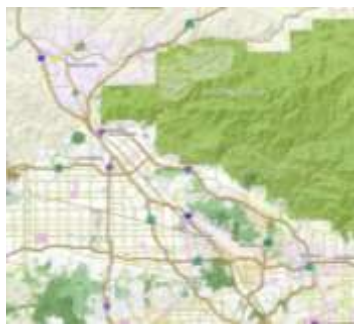




- Open saved csv file

- Csv file opens up in Excel
- Hide columns to show desired data

	A	B	C	H	J	K	L	AE	AF	AG	AH	AI	AL	AM	AN
1	OBJECTID	post_id	Name	address	city	state	zip								
2	15483	14891	Magnolia Ave Elementary School	1626 S Orchard Av	Los Angeles	CA	90006								
3	15485	14893	San Pedro St Elementary School	1635 S San Pedro St	Los Angeles	CA	90015								
4	15486	14694	20Th St Elementary School	1353 E 20Th St	Los Angeles	CA	90011								
5	15592	14800	Allesandro Elementary School	2210 Riverside Dr	Silver Lake	CA	90039								
6	15593	14801	Glenfeliz Blvd Elementary School	3955 Glenfeliz Bl	Atwater	CA	90039								
7	15594	14802	Elysian Heights Elementary School	1562 Baxter St	Echo Park	CA	90026								
8	15595	14803	Atwater Ave Elementary School	3271 Silver Lake Bl	Los Angeles	CA	90039								
9	15597	14805	Ivanhoe Elementary School	2828 Herkimer St	Silver Lake	CA	90039								
10	15599	14807	Los Feliz Elementary School	1740 N New Hampshire Av	Los Feliz	CA	90027								
11	15600	14808	Clifford St Elementary School	2150 Duane St	Echo Park	CA	90039								
12	15601	14809	Franklin Ave Elementary School	1910 N Commonwealth Av	Los Feliz	CA	90027								
13	15602	14810	Lockwood Ave Elementary School	4345 Lockwood Av	Hollywood	CA	90029								
14	15603	14811	Dayton Heights Elementary School	607 N Westmoreland Av	Hollywood	CA	90004								
15	15604	14812	Micheltorena St Elementary School	1511 Micheltorena St	Silver Lake	CA	90026								
16	15624	14833	Castelar St Elementary School	840 Yale St	Chinatown	CA	90012								
17	15626	14835	Ninth St Elementary School	820 Townie Av	Los Angeles	CA	90021								
18	15875	15085	Esperanza Elementary School	680 Little St	Westlake	CA	90017								
19	15876	15086	Union Ave Elementary School	130 S Burlington Av	Echo Park	CA	90037								
20	15877	15087	Polits Elementary School	2481 W 11Th St	Los Angeles	CA	90006								
21	16000	15210	Logan St Elementary School	1711 W Montana St	Echo Park	CA	90026								
22	16001	15211	Rosemont Ave Elementary School	421 N Rosemont Av	Echo Park	CA	90026								
23	16002	15212	Mayberry St Elementary School	2414 Mayberry St	Silver Lake	CA	90026								
24	16074	15284	Hoovar St Elementary School	2726 Francis Av	Westlake	CA	90005								
25	16077	15287	Commonwealth Ave Elementary School	215 S Commonwealth Av	Los Angeles	CA	90004								
26	16079	15289	Tenth St Elementary School	1000 Grattan St	Los Angeles	CA	90015								
27	16296	15506	Second St Elementary School	1942 E Second St	Los Angeles	CA	90033								
28	16331	15541	Soto St Elementary School	1020 S Soto St	Boyle Heights	CA	90023								
29	16337	15547	Utah St Elementary School	255 N Clarence St	Los Angeles	CA	90033								
30	16381	15591	Plasencia Elementary School	1321 Cortez St	Echo Park	CA	90026								
31	16435	15645	Solano Ave Elementary School	615 Solano Av	Los Angeles	CA	90012								
32	16438	15648	Glassell Park Elementary School	2211 W Avenue 30	Glassell Park	CA	90005								
33	16441	15653	Dorris Place Elementary School	2225 Dorris Pl	Cypress Park	CA	90031								
34	16455	15665	Ann St Elementary School	136 E Bloom St	Los Angeles	CA	90012								

- Points of Interest
  - These data are part of the [Location Management System](#)

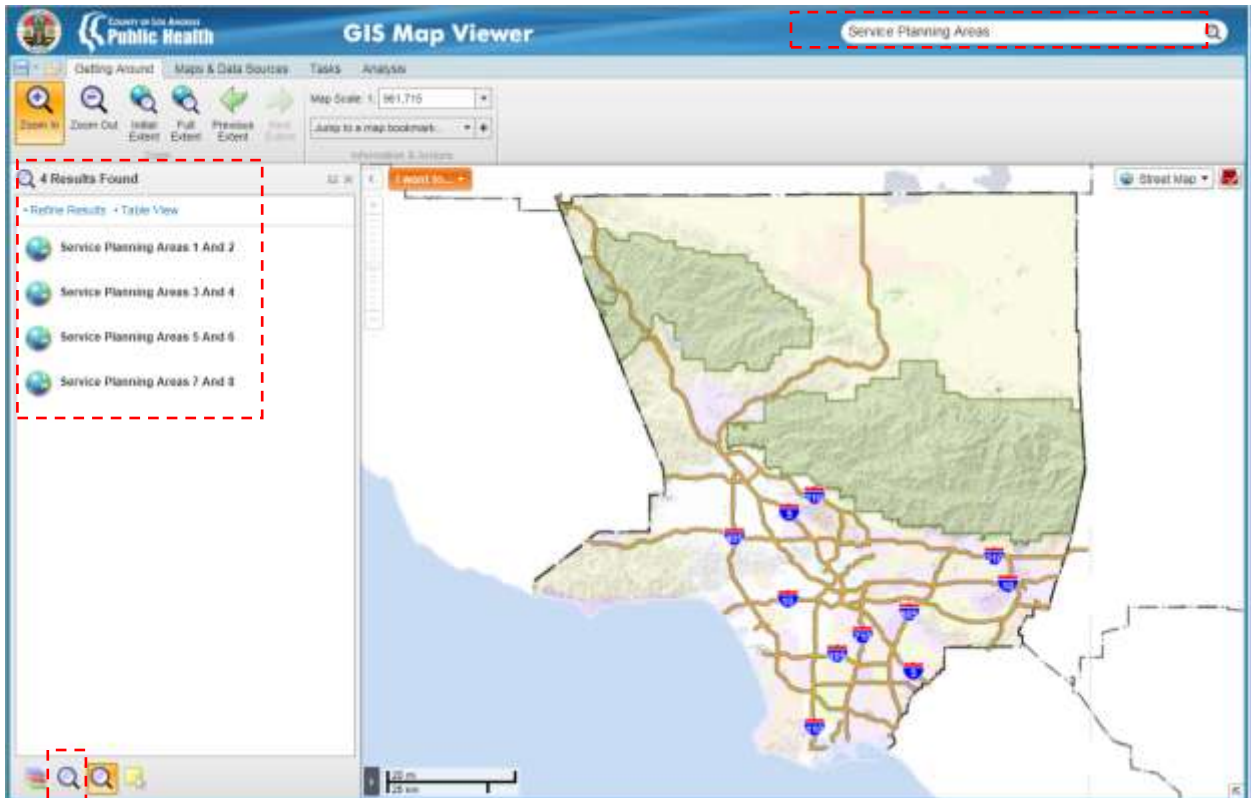
- Base Maps
  - Street Map
    - Displays freeways, highways, all streets, building outlines, tree tops, water features and much more
  - Aerial
    - Displays are from the [LARIAC2](#) Date Flown Imagery Seamlines
    - Labels and features for basemaps are scale dependent
    - New features appear as you zoom in

Map Scale	1: 961,715	1:352,222	1:3,000
Street Map			
Aerial			



## Search for map features

- In the upper right corner, search for map features by typing in a key word and pressing 'Enter' or clicking on the magnifying glass icon (e.g. Service Planning Areas)
  - Searches Point of Interest data only
  - Results will appear in 2<sup>nd</sup> magnifying glass icon on the bottom left (See image below)
    - Note: we're working to change the icon so we don't have duplicate icons that perform different functions
  - Click on results to zoom in



## **Contact Information**

For inquiries about or problems with the DPH GIS Map Viewer, please contact:

Office of Health Assessment and Epidemiology, Epidemiology Unit

Douglas Morales

Email: [dmorales@ph.lacounty.gov](mailto:dmorales@ph.lacounty.gov)

Phone: 213-989-7223