



**COUNTY OF HUMBOLDT**  
**PLANNING AND BUILDING DEPARTMENT**

**Web GIS 2.0 Users Guide**  
September 1, 2016

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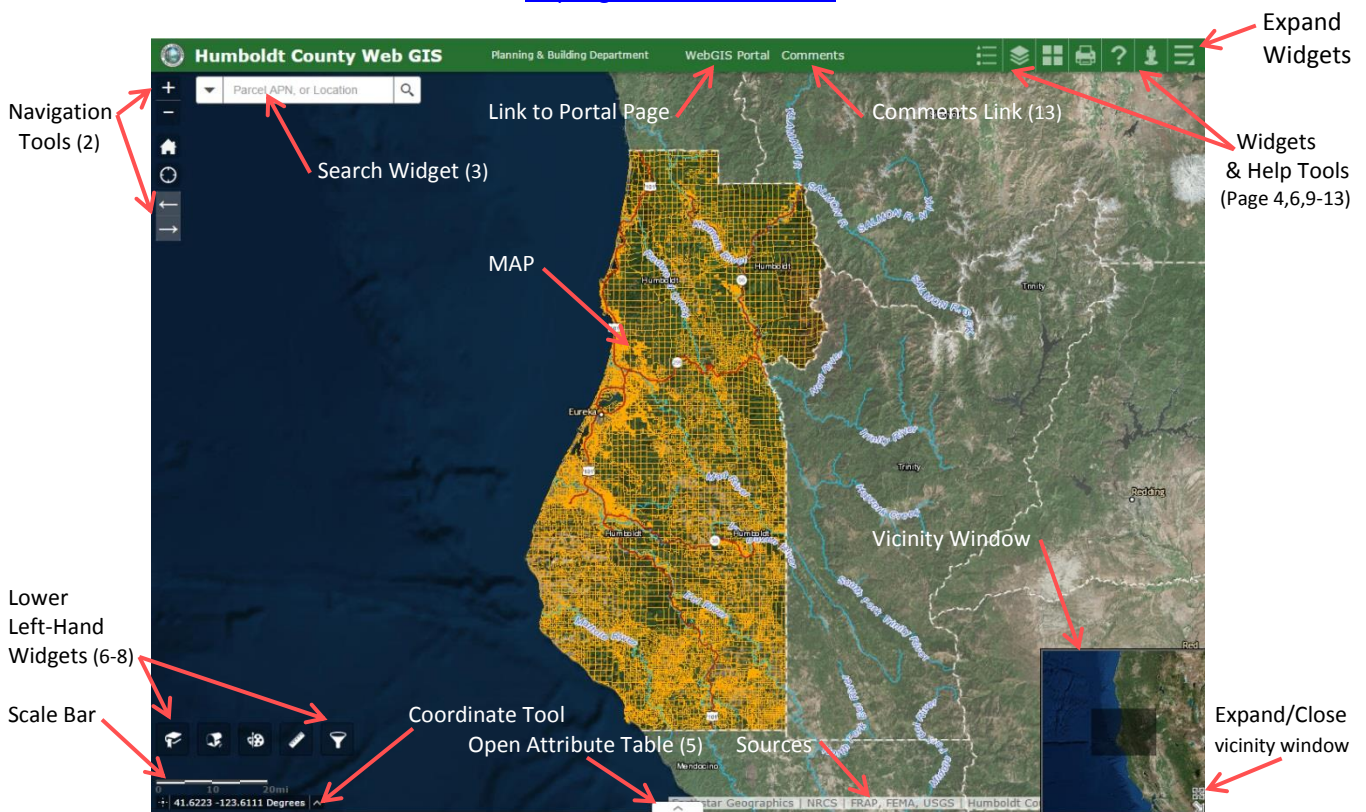
## Introduction

Within this users guide you can learn how to use of the Humboldt County Web GIS 2.0. Topics include User Interface, Basic Navigation, Searches, Layer Control, Legend, Pop-ups, Attribute Tables, Basemaps, Widget Tools, Queries, and Printing. This tutorial is built to familiarize you to these basic tools and get you started in using the application. The Web GIS 2.0 was developed using data from Humboldt County Planning and Building Department and several public agencies listed in the sources at the bottom of the interface. The application utilizes Web AppBuilder (Developer Edition) 2.0.1 for ArcGIS server from Environmental Systems Research Institute or ESRI.

## User Interface

Below is the Humboldt County Web GIS Interface. It can be accessed through any internet browser at:

<http://gis.co.humboldt.ca.us>



## Basic Navigation

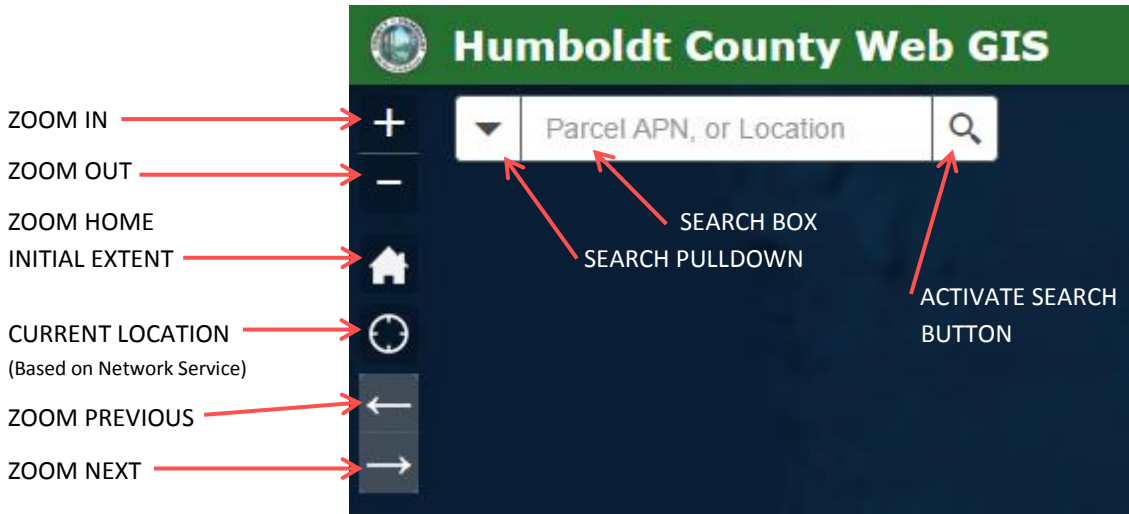
Zooming can be controlled several ways. Using the zoom “+/-” tools in the upper left hand corner or by scrolling the mouse wheel up or down. To return to the initial extent use the Home button.

Map navigation is accomplished by using the following mouse or keyboard controls:

- Click and drag to PAN
- SHIFT + Click to Recenter
- SHIFT + Drag to ZOOM (window) IN
- SHIFT + CTRL + Drag to ZOOM OUT
- Mouse Scroll Forward to ZOOM IN
- Mouse Scroll Backward to ZOOM OUT
- Use “Arrow keys” or “Click and Drag” to PAN
- + key to zoom in a level
- - key to zoom out a level
- Double Click to Center and Zoom in

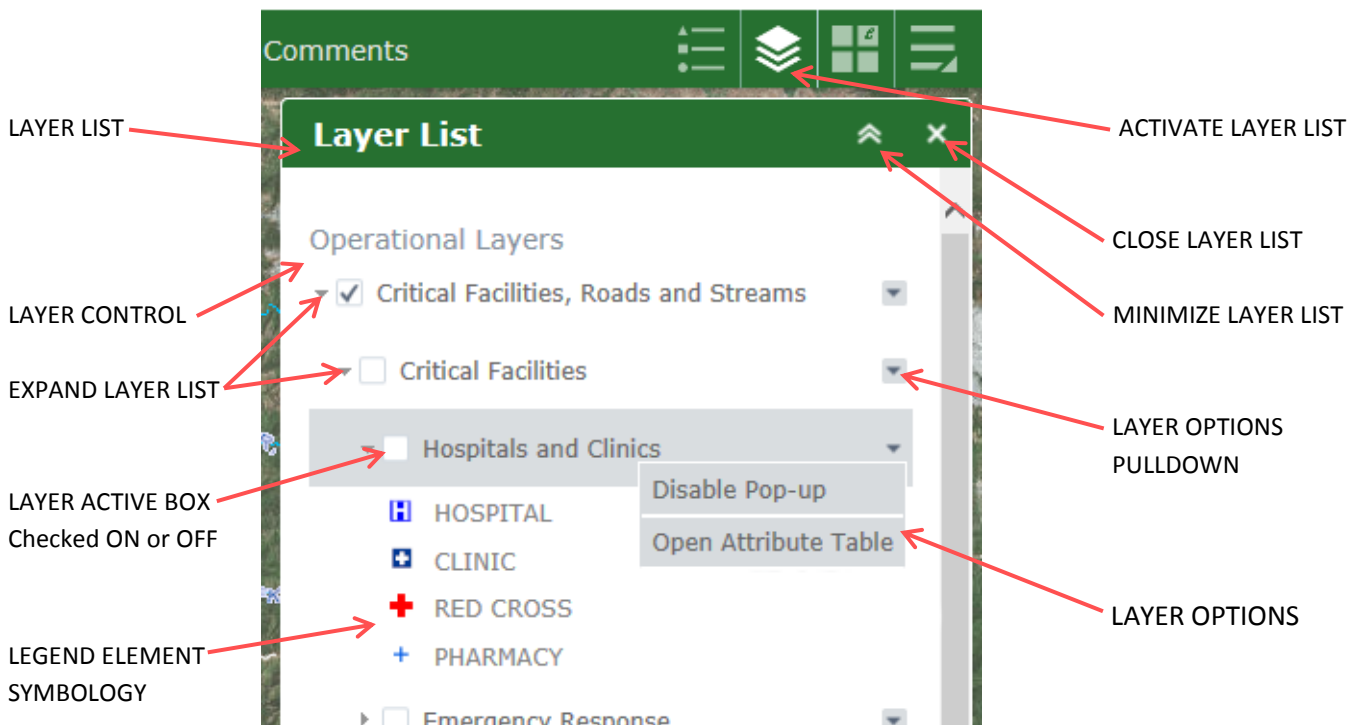
## Searches

Searches can be entered in the box in the upper left hand corner of the application. A search can contain Assessor's Parcel Number (APN) or a physical address. A Search Pull-down on the left side of this box can filter your search to one of these criteria. Start using the Tool by entering "017-031-001" in the Search Box and pressing "Enter".



## Layer List Control

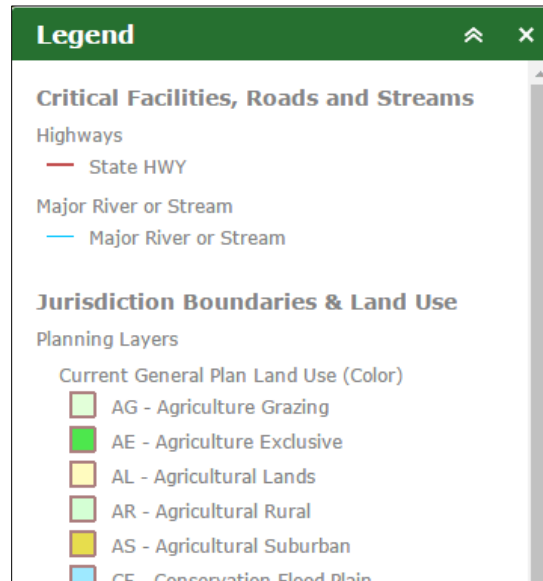
Opened by default and on the right side of the screen is the Layer Control Dialog Box. It controls the layers of information displayed on the map. Each layer can be expanded to show the symbology or legend element. In this Dialog Box you can control the parent layer's transparency and hierarchy from the Layer Options Pull-down. Within the layer control you can also Disable/Enable Pop ups or open an attribute table for that layer.



## Legend



The description and symbology of the types of features included in a map are provided in the Legend. Only the layers visible in the map will be displayed in the legend.



## Pop-Ups

Pop-ups can be Activated or Deactivated in the Layer List options pulldown seen above. They list the attributes for an active layer. To show a pop up, click on the map and the information about that layer is listed.

Field Names

Close window

Maximize Pop-up window

Scroll through Selected features

Feature Attributes

Hyperlinked value (opens external link)

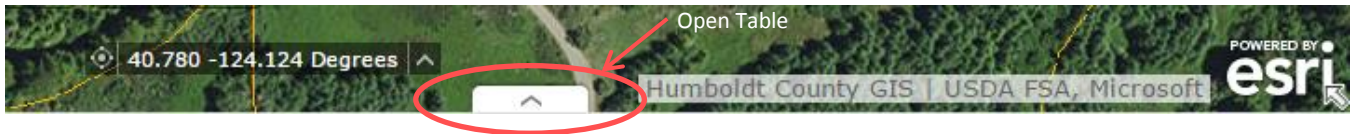
Zoom to Selected feature

Parcels: 017-031-001-000	
Assessor Parcel Number	017-031-001-000
Old APN	
Site Address	3750 HARRIS ST
Site City	EUREKA
Site Zip	95503
Assessor Parcel Map	<a href="#">Book 017-03 Page</a>
Assessed Lot Size	0.00
GIS Acres	40.55
Tax Rate Area	<a href="#">81005</a>
Current General Plan	<a href="#">PF (HBAP)</a>
Zoom to	<a href="#">Zoom to</a>

## Attribute Table



A database or tabular file containing information about a set of geographic features is activated in the layer list options pulldown and opened by clicking on the small arrow at the bottom-center of the map.



Users can view attribute data in a tabular format and associate each row with the features on the map for configured layers. Users can select record(s) by clicking on a row in the table or by clicking on a feature(s) on the map.

Assessor's Parcel Number	GIS Acres	Old APN	Book-Page	Zoning	General Plan	Use Code	Description
017-022-050-000	0.4971		017-02	R-1*	RL (ECP)	1100	Improved Single Family Residential
017-031-001-000	40.5508		017-03	PF1	PF (HBAP)	8000	Public Land, Schools, Non Taxable Entities
017-031-005-000	2.249		017-03	AE-60/W,F,R,T	TC (HBAP)	3001	Vacant Rural Residential, 1-5 ac
017-031-013-000	73.0732	01703107	017-03	TPZ:1PZ/R	TC:(TECP)	8000	Public Land, Schools, Non Taxable Entities

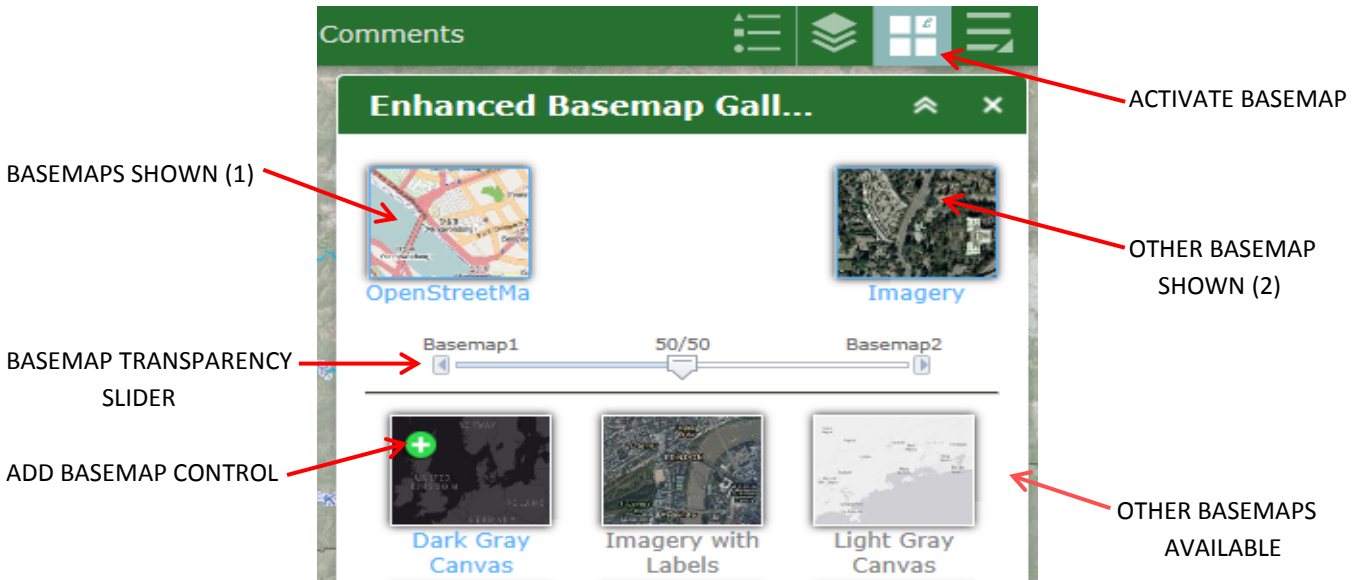
**Table Options** – Controls the visibility and export options of the Table, Located on the right hand side of the Attribute Table.

- **Show Selected Records**—Only displays selected records.
- **Show Related Records**—Displays related records if a selected record has related table. (not available)
- **Filter**—Allows to filter records in the table.
- **Filter by Map Extent**—Only displays attributes for features within the current map extent.
- **Zoom to** – Zooms map to the selected feature in the map
- **Clear Selection** – Clears the selected features in the table and the map
- **Refresh** – Reloads the view of the map and the table
- **Show or Hide Columns**—Equivalent to clicking the + icon on the right side of the panel to set visibility for individual fields.
- **Export to CSV**—Exports the attributes to a CSV file. If records are selected, only the selected records are exported. If no records are selected, all the records are exported.



### **Basemaps or Enhanced Basemaps**

This feature controls the map that is displayed as the main theme - a map depicting background reference information such as landforms, roads, landmarks, and political boundaries, onto which other thematic information is placed. Users can combine basemaps by selecting more than one at a time and can control it's transparency between the two by using the slider. Add and Remove basemaps by hovering over the icon and a "+" to Add, or "X" to Remove.



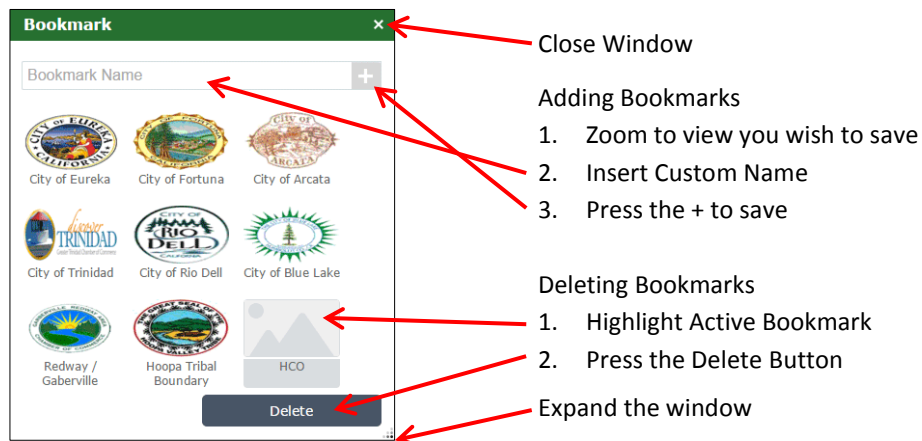
### **Lower-Left Hand Widgets**

These are tools located in the lower left portion of the screen and are described below.



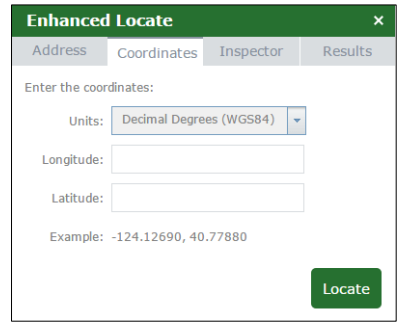
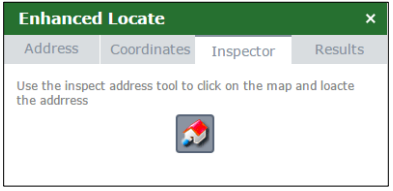
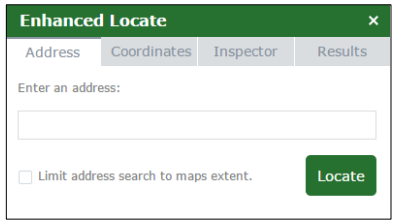
### **Bookmarks**

This tool stores a collection of custom map view extents. Custom to your machine, delete and add bookmarks. (Bookmarks will be lost when the cookies in the browser are cleared)

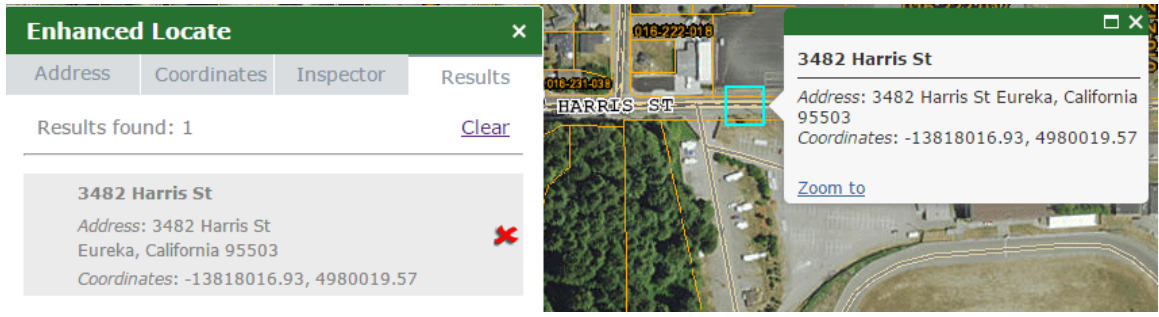


## Enhanced Locate

This tool searches the map by Address or Coordinates and, sorts the results.

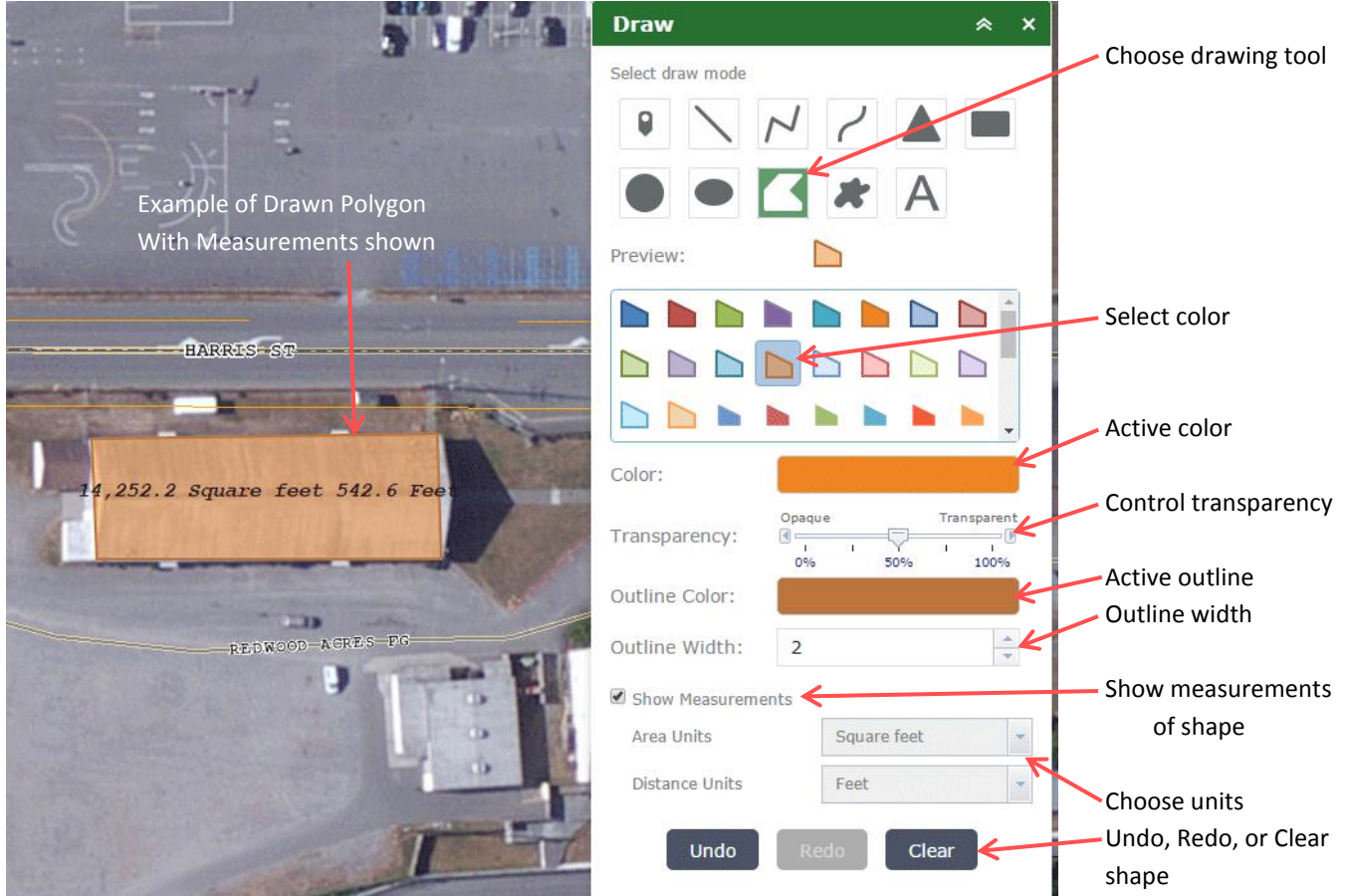


Results:



## Draw

Users can create graphics or text that display on the map. It optionally adds line distance or polygon area to the feature as text. Important Note: All graphics in this tool are temporary. Use the "Enhanced Draw Tool" to save graphics.



## Measurement

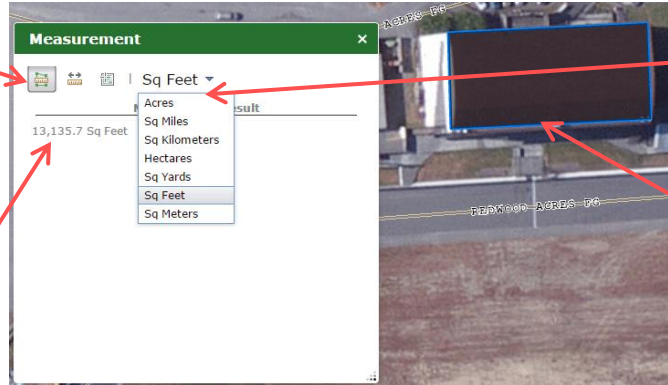


This tool measures the area of a polygon, length of a line, or finds the coordinates of a point.

1. Set measurement by

- Area
- Distance
- Coordinates

4. Results are listed here



2. Define units

3. Draw on Map

## Query

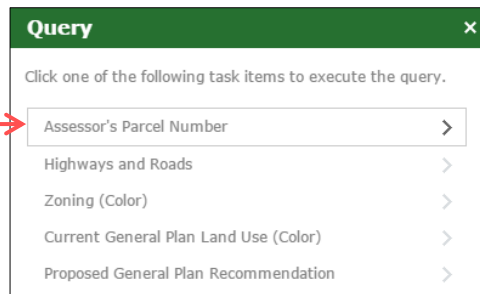


This retrieves information from source data by executing a predefined query.

1. Select the query to execute

### Search by

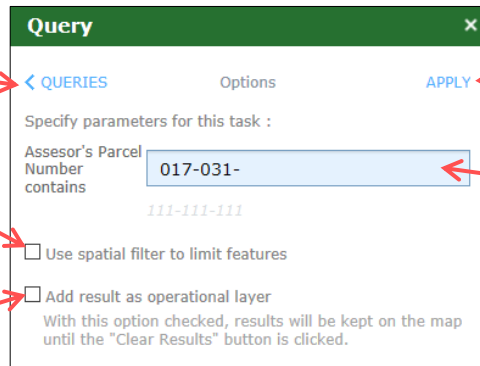
- Assessor's Parcel Number
- Road Name
- Zoning
- Current General Plan
- Proposed General Plan
- Township, Range, Section (PLS)



Go back to redefine the Query

Use a spatial filter to limit results by view area or by shape

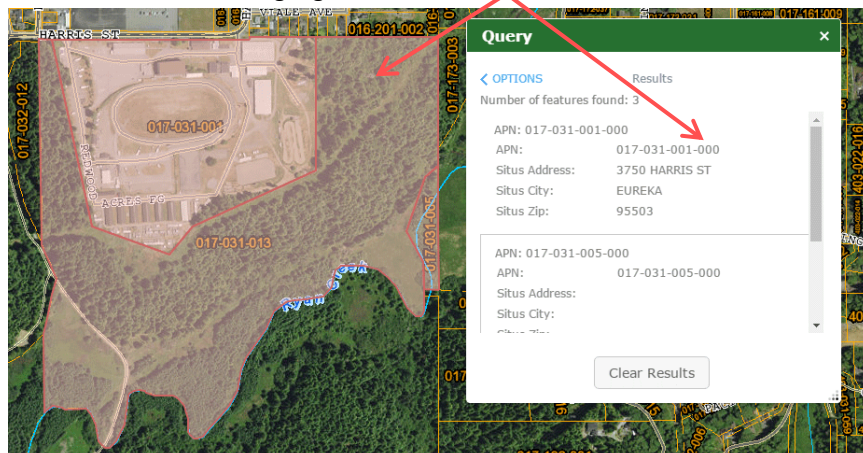
Add the results as a layer to the layer list (temporary)



3. Apply to "Submit" the query

2. Enter partial APN to find by book and page

Query Results – Lists all selected items and highlights them in red.



**Upper-Right Corner Widgets**

These are tools located in the upper right portion of the screen and are described below.

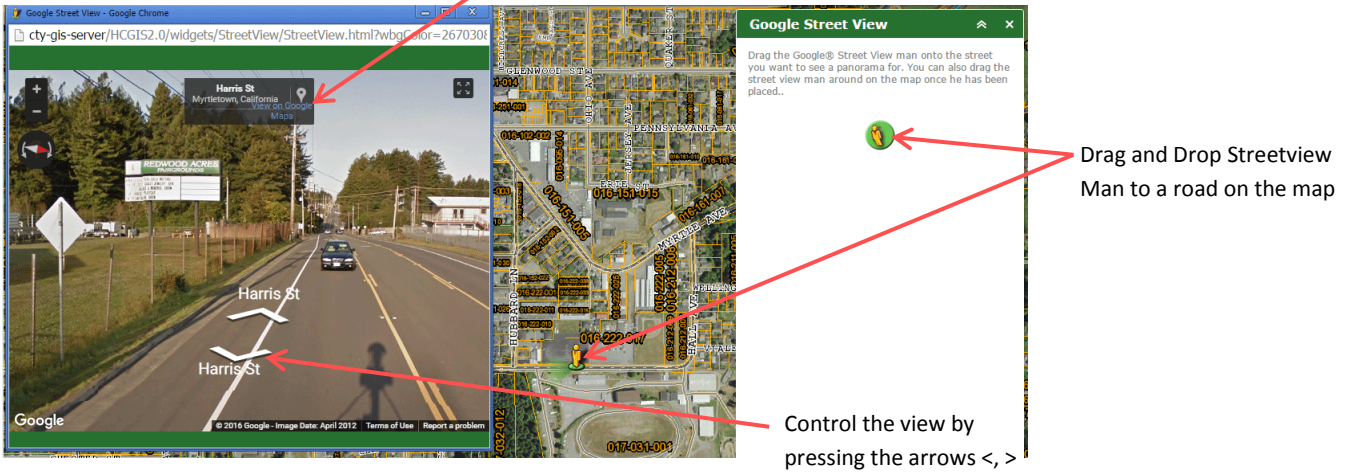
**Help** 

This tool displays help information for the application

**Street View** 

This feature retrieves Google Street View panoramas for the location specified on the map. This tool can also be used to access online Google Maps.

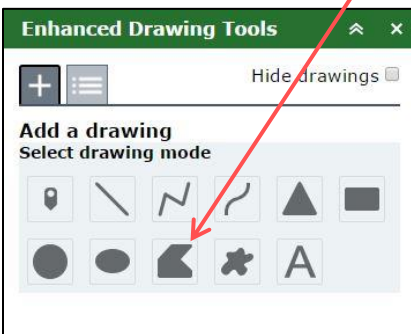
Open Google Maps Link



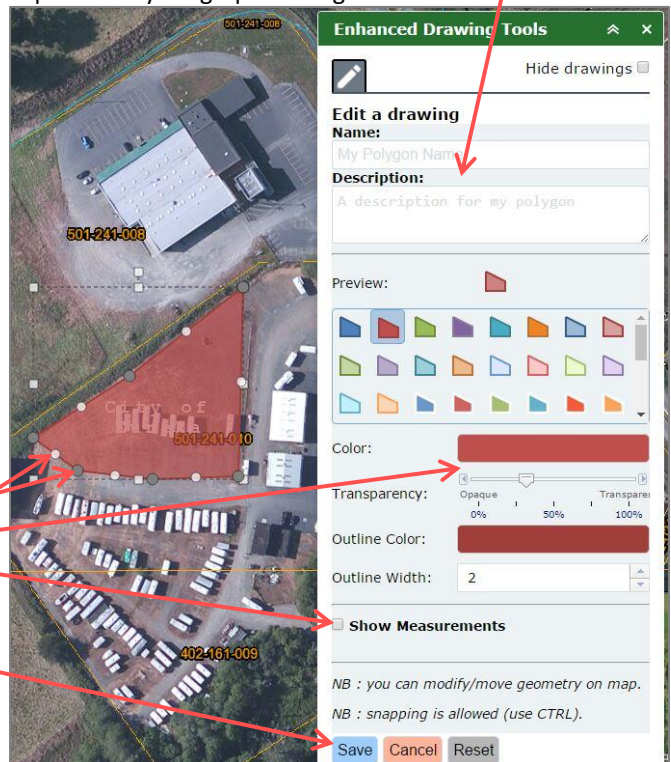
**Enhanced Drawing Tools** 

The drawing tools create graphics or text to display on the map. Graphics in this tool can be layered, edited, deleted, stored locally and, exported as files (.json) for other users of this application.

Step 1: Pick your drawing element



Step 2: Draw your graphic and give it a name



Step 3: Edit or change your graphic

Move control Points on the polygon feature

Change color shape or transparency

Add measurements to the polygon

Step 4: Store your graphic

By clicking Save

Reset will revert changes

Step 5: Download or save your graphic elements (Next Page)

## Enhanced Drawing Tools (Continued) – Drawing List Dialog

Click the + Tab to add more Graphic Features

Select (All) Drawing Features to:

- Move up or down (layered)
- Zoom to feature
- Delete
- Edit
- Download features (Save as .json file)
- Upload feature (.json file)

## Enhanced Search

Enhanced search retrieves information from source data by executing a predefined query.

### Attribute Search "By Value"

- Select layer to search
- Use pulldown to add / remove items to search
- Enter partial or whole values to initiate search
- Can limit the search to the visible extent

Results will show after "Search" button is pressed

### Enhanced Search "By Shape"

- Select layer to search
- Use pulldown to add / remove items to search
- Select shape of selection criteria
- Enable multi-part graphics, allows more than one shape
- Add search tolerance to point selections to help select line or point layers
- Include the "By Value" text query in selection criteria
- Add a "Buffer" to the search shape for the selection criteria

Results will show after a selection graphic is placed on the screen

### Enhanced Search "By Spatial"

If you have already completed an attribute or graphical search then you can use the "By Spatial" search to search for other features that have a spatial relationship to your previous search results.

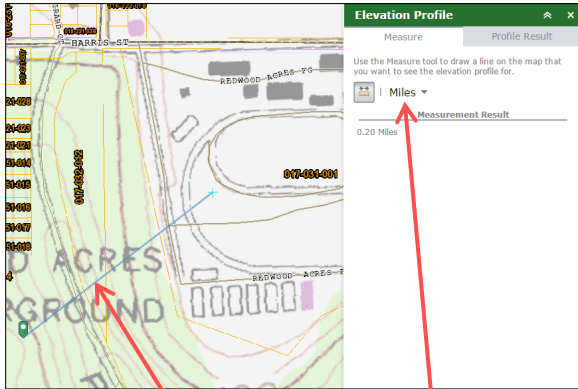
- Apply a buffer to the selection or the graphical shape
- Select the layer to make the selection from
- Apply selection by "entirely contained within" "Intersected by" or "intersected by an envelope of"

Results will show selection graphic on screen and add an operational layer (temporary).



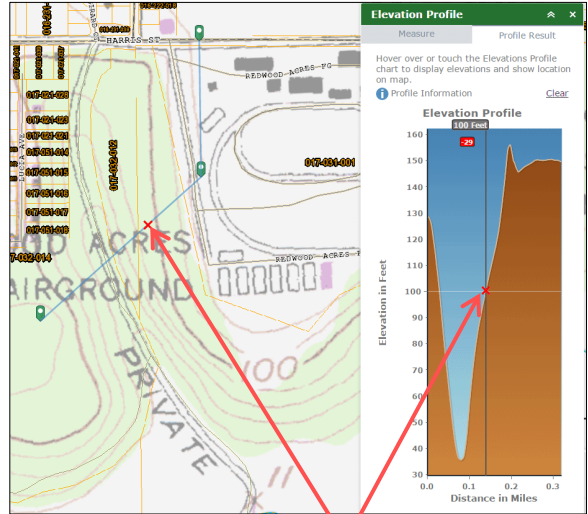
### Elevation Profile

This tool displays an elevation profile for a line drawn on the map.



Draw profile

Select units

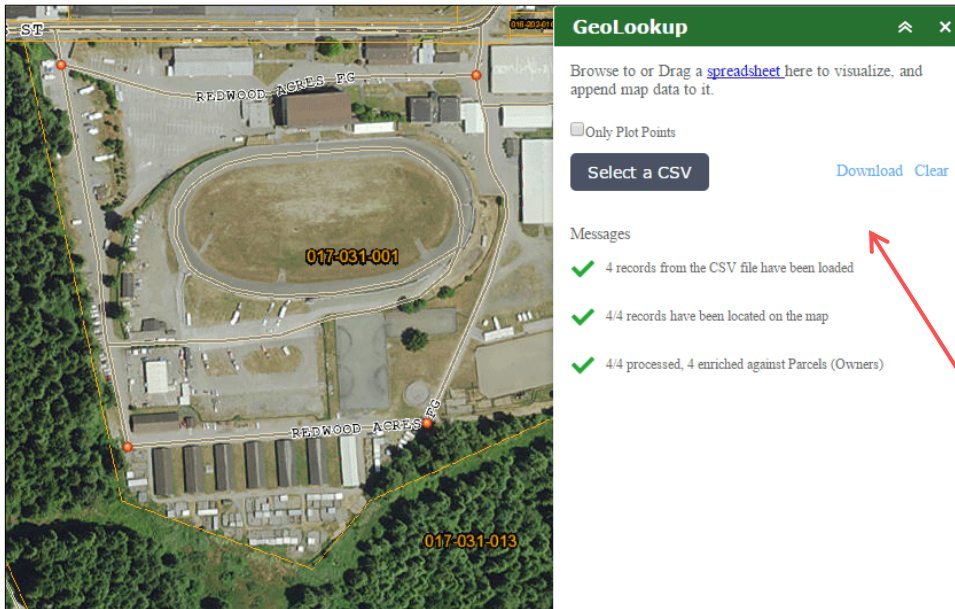


Result: Drag point to identify elevation location



### GeoLookup

This tool allows users to enrich a list of locations from a .CSV file (Database) with point feature layers on the map.



Develop a point file (.CSV) like the file below

	A	B
1	Lat	Long
2	40.780261	-124.129673
3	40.780187	-124.125799
4	40.777724	-124.126254
5	40.777559	-124.129057
6		

Drag and drop the file here or browse to select a .CSV

You can download the resulting table of the points that reside within each parcel (example below).

Row Number	Lat	Long	intersected	GLProcessed	APN_12	SITADDRESS
1	40.780261	-124.129673	In		017-031-001-000	3750 HARRIS ST
2	40.780187	-124.125799	In		017-031-001-000	3750 HARRIS ST
3	40.777724	-124.126254	In		017-031-001-000	3750 HARRIS ST
4	40.777559	-124.129057	In		017-031-001-000	3750 HARRIS ST

**Situation Awareness and Incident Analysis**



Locate an incident (point, line, or polygon) on the map and analyze information from different layers within specified areas. This selection can be buffered and exported into a .CSV report.

1. Set buffer distance of incident location

2. Click shape of incident

3. Places shape of incident selection

4. Identifies closest address from the incident

Results:

Proximity Parcels List

- Lists properties within incident buffer
- Creates .CSV Report for download with parcel number and, distance from incident

Selected Parcels Report

- Counts properties within the incident buffer
- Gives a summary of the GIS acres of the parcels within the incident buffer
- Creates .CSV Report for download with all available parcel data of parcels within the incident buffer

## Printing



This option connects the web application with a printing service to allow the current map to print.

Annotations for the Print dialog:

- Activate print widget
- Title for map
- Page size
- Print format
- Activate print
- Advanced features (Optional)
- Set map scale
- Current scale
- Map extent
- Force scale
- Determine current scale
- Label author
- Label copyright
- Include legend (yes/no)
- Create "map only" size
- Print quality 96 by default\*  
\*("300 – 600" is best)

## Feedback

To submit feedback please click on the following link or contact the support contact listed below:

<http://humboldt.gov/FormCenter/Planning-Building-Department-5/GIS-Mapping-Information-45>

## Support

Jerry von Dohlen

GIS Analyst (Primary Contact)

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E-mail: [jvondohlen@co.humboldt.ca.us](mailto:jvondohlen@co.humboldt.ca.us)

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