Trust for Public Land

Central Arizona Conservation Alliance Decision Support Tool

User Guide

October 2026

Contents

GETTING THERE 2

CATALOG OF BASIC MOVES 3

THE BASIC MOVES 4

Change the viewer extent 4

Search 4

Change the map background (Basemap) 4

Additional map Data Layers 5

Get popup map information about specific map features 6

PROJECT IMPACT REPORT 9

QUERY CONTROL 10

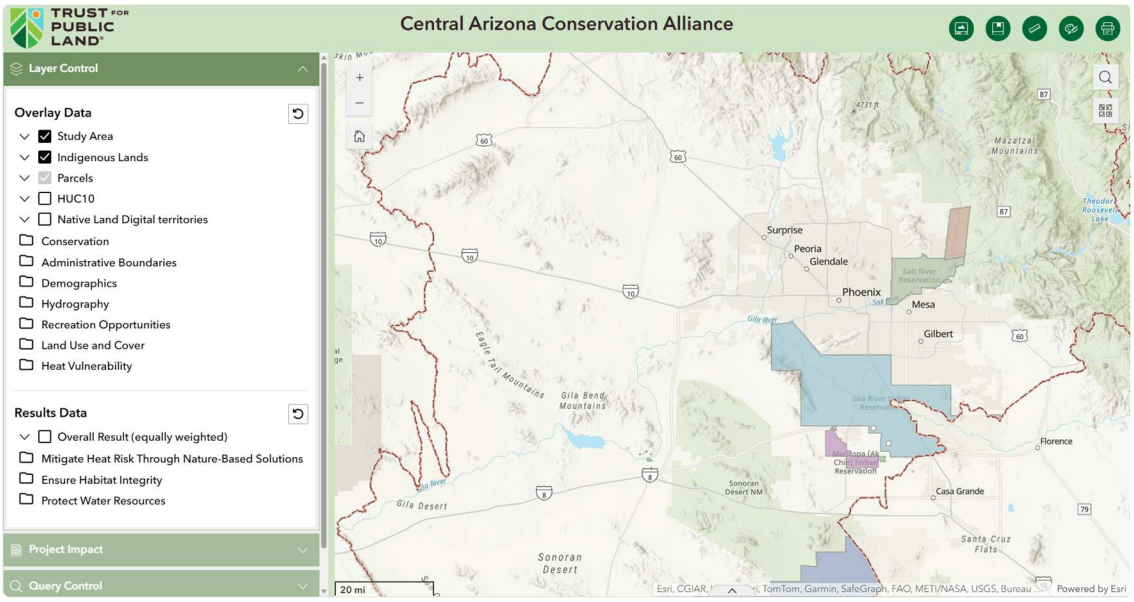
GROUP REPORT 11

TOP BAR NAVIGATION MENU 13

GET HELP 15

GETTING THERE

- From the Central Arizona Conservation Alliance landing page, select Mapping Portal. Or use the provided link to access the web application, Central Arizona Conservation Alliance Decision Support Tool.
- Some Decision Support Tools require a login and password.
    - TPL staff will instruct you on login requirements.
- **Note: Mozilla Firefox, Edge, Safari and Google Chrome work best for this mapping site.**
- This New DST works best on computer browsers but should also work adequately on tablets and phones.



CATALOG OF BASIC MOVES

- Change the viewer extent
- Search
- Change the map background
- Additional reference map layers
- Data and Support Tools
    - Overlay data and Results Data
    - Project Impact
    - Query Control
    - Group Report
- Top Bar Navigation Menu
    - Get information about specific features
    - Add bookmarks
    - Measurement
    - Draw, add graphics to your map
    - Print a custom map
    - Get help

THE BASIC MOVES

Change the viewer extent

- There are several ways to pan and zoom the map.
    - Pan
        - → Click the left mouse button and drag your mouse across the map.
        - → Hold the shift key and use Arrow keys.
    - Zoom
        - → Move your mouse over the zoom location and use the scroll wheel to zoom in or out.
        - → Hold down the Shift key, click your mouse on one corner of the desired extent, and drag your mouse to the opposite corner of the desired extent.
        - → Click the (+) or (-) buttons in the upper left corner of the map.
        - → Hold down the Shift key and press the (+) or (-) keys.
- As you change the viewer extent the map detail changes and some layers can turn off or on.
- Click the  button to return to the original extent.



Search

- To zoom to a specific location, click the  button in the upper right corner of the map.
    - Enter an address, place name, zip code, county, etc. in the search box.
    - Select the correct search item from the search list.

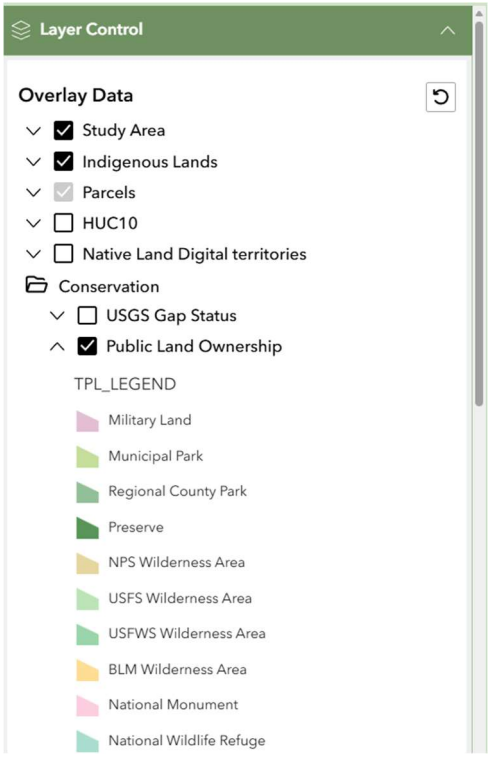
Change the map background (Basemap)

- Click the  button in the upper right corner of the map.
- A drop-down panel will appear.
- Click the basemap you prefer.
- Hover your mouse over each basemap for more information.

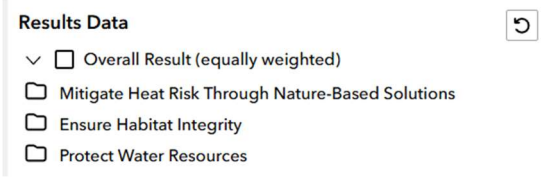
- Click the (x) to close the dialog box.

Additional map Data Layers

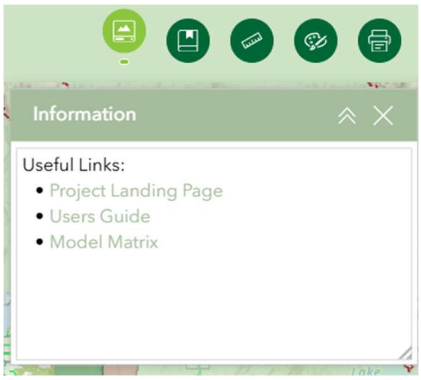
- Turn on and off the thematic overlay GIS layers for the project.
- This functionality is found in the Overlay Data expanding panel to the left of the map.
- At the top of the layers list there is an option to reset the default layer visibility . Click this to return to the original layer visibility.
- Each  symbol indicates that there are multiple layers grouped under that heading. Click the  to expand and see what layers there are.
- Click to show the symbology for an individual layer.
- Hover your mouse over a data layer to obtain additional information on the layer.



- **Results Data** layers are displayed in a separate layer category.
- Results data layers are displayed like other data layers, but they often have radio boxes that only allow one layer to be viewed at a time.



- For additional information on overlay data and results data a link to the Model Matrix document is provided in the Information button in the upper right header button bar, .



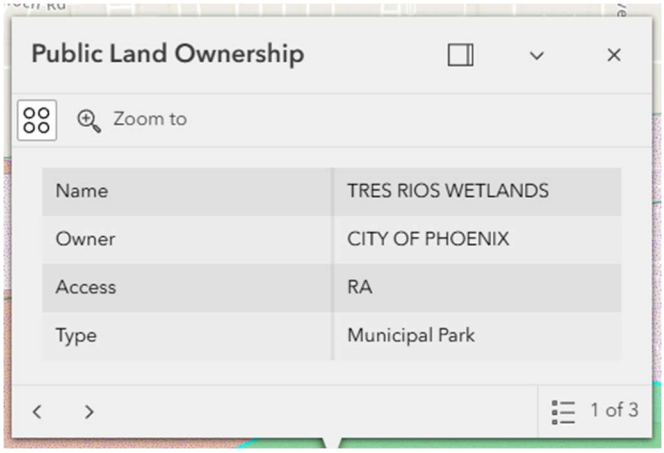
This link directs you to a table titled Context Layers that lists layers, analysis methodology, and data sources.

	A	B	C
1	**Context Layers**		
2	**Data Name**	**Definition**	**Data Source**
3	Native Lands Digital Territories	A layer of Indigenous land territories across the globe, provided by the Native Lands Digital API. This layer is updated weekly.	Arizona Department of Health Services
4	Indigenous Lands	Boundaries of federally recognized American Indian reservations and off-reservation trust lands in Arizona.	Arizona Department of Health Services
5	**Conservation**		
6	USGS Gap Status	USGS Protected Areas Database of the United States (PAD-US) Protection Status by GAP Status Code - Service representing a measure of management intent to permanently protect biodiversity.	PADUS
7	Land Ownership	Compiled from various sources, including PADUS, AZ Geo clearinghouse, AZGFD, and ParkServe	PADUS, AZGFD, ParkServe, AZGEO
		The CAZCA Conservation Opportunity synthesis layer is the product of a qualitative stakeholder process, which involved a survey and an interactive, meeting among a diverse group of	

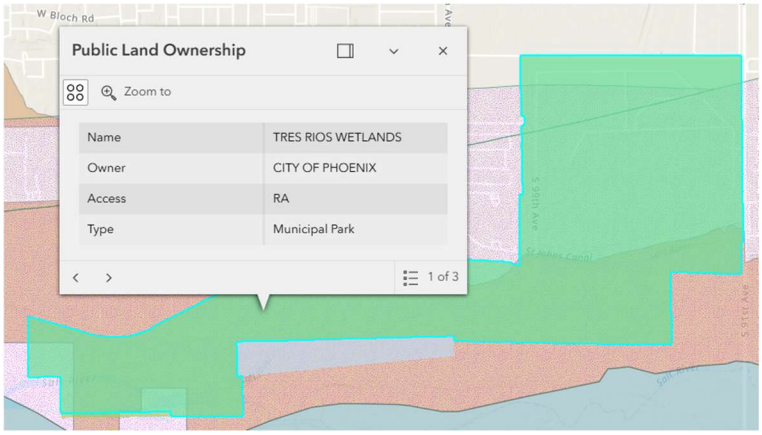
Get popup map information about specific map features

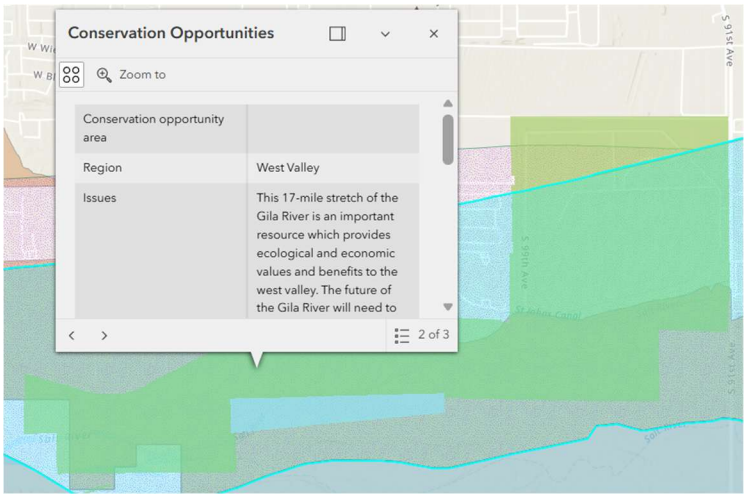
- Turn on a GIS Data Layer.
- Click on a map feature on the map.
- The selected feature will be highlighted on the map and an information box will appear that describes the feature(s) that you clicked.
- To dock the popup box in the corner of the map, select .

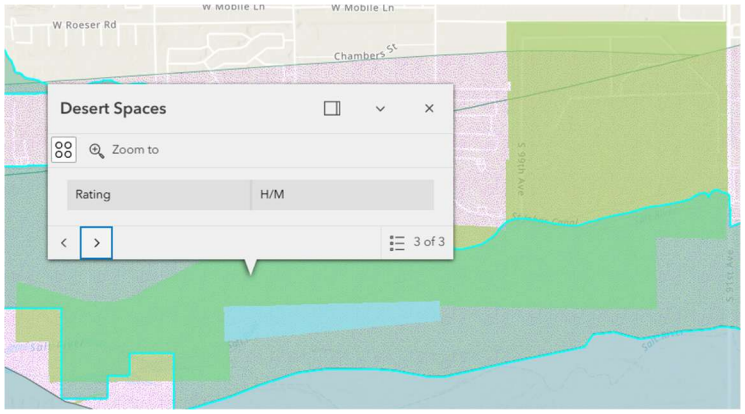
- To undock this popup box, select .



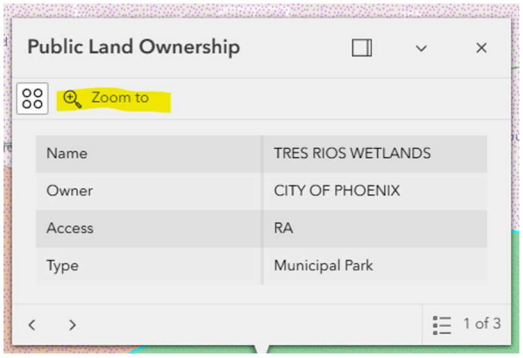
- **Note: multiple map features can be identified at one time.**
- **Note: If you have multiple layers on, the one that is highest in the table of content will be identified first.**
- If there are **<** **>** and  in the information box title bar, you have identified multiple features. Click **>** to view information on the other selected. Or select  (1 of 2, 1 of 3, etc) to show attributes for and highlight on the map a specific feature.



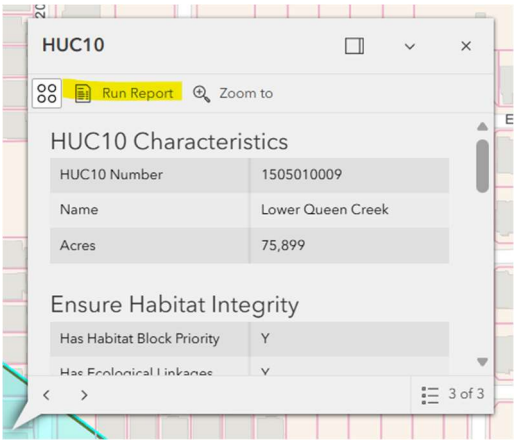




- There is additional popup functionality in the bar between the heading and the popup values.



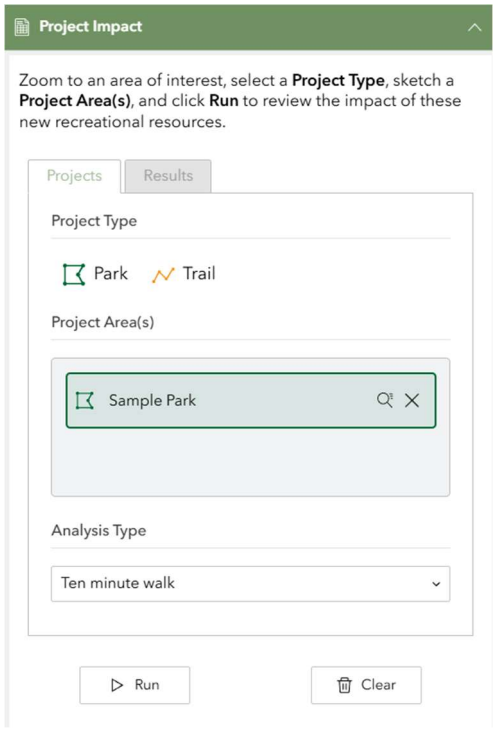
- PDF Reports are configured for Parcels and HUC10 layers. You select a feature on the map and create individual reports from the Run Report button on the popup window.



PROJECT IMPACT REPORT

Run a custom walk, cycle, or drive time Impact Report of a proposed project area.

- Pan and zoom to your area of interest.
- Under the Projects tab, use Project Type tools to digitize a project area on the map.
- Type in project name in the name field.
- Use the Zoom button to zoom to this area on the map.
- Multiple project areas can be assessed together.
- Press (X) to delete an area.



- Select a project impact analysis type from the Analysis Type drop down menu.
- Press Run to execute the analysis (will take several minutes).
- Analysis results will appear on Results tab.
    - Select the ⌄ button next to each to expand and view the results tables.
    - On the map, orange access points will appear around the project area and the Service Area will be shown in yellow.
- Press Download, ⬇ Download ⌄ , to save the report (pdf) or analysis shapefiles.
- Press Clear, 🗑 Clear , to close results and return to the project area.

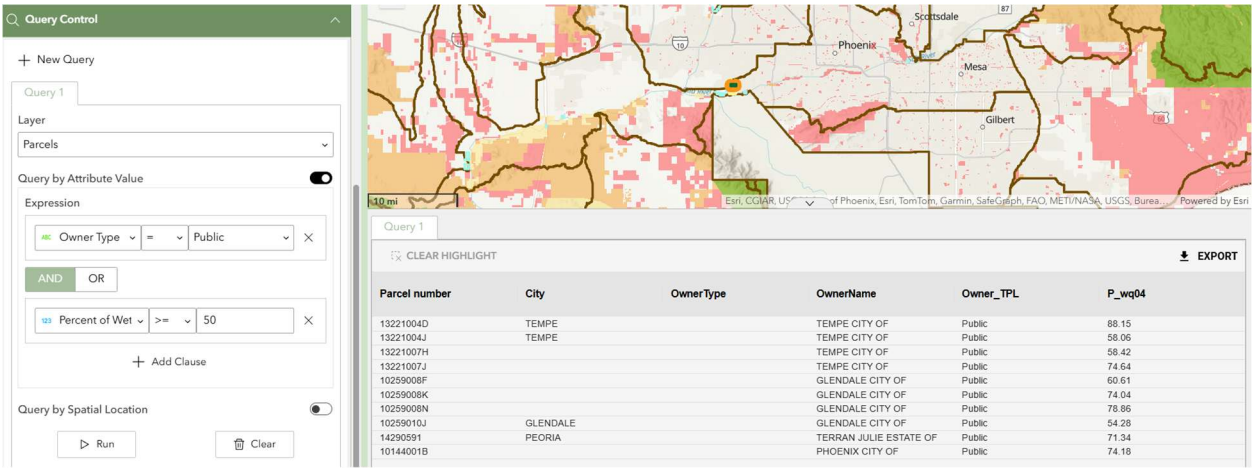
QUERY CONTROL

Query is usually set up on one or two layers, such as Parcels and HUC10. Query can be configured by either attribute values (parcel characteristics, block group demographics, ensure habitat integrity, manage heat risk, etc) or by spatial location. Multiple queries can be done at a time by selecting **+New Query** and opening a new Query tab.

- *Query by Attribute Value:* In the Layer drop down menu, select Parcels. Include multiple clauses in search by selecting +Add Clause

    - Select Query by Attribute Value by pressing the toggle

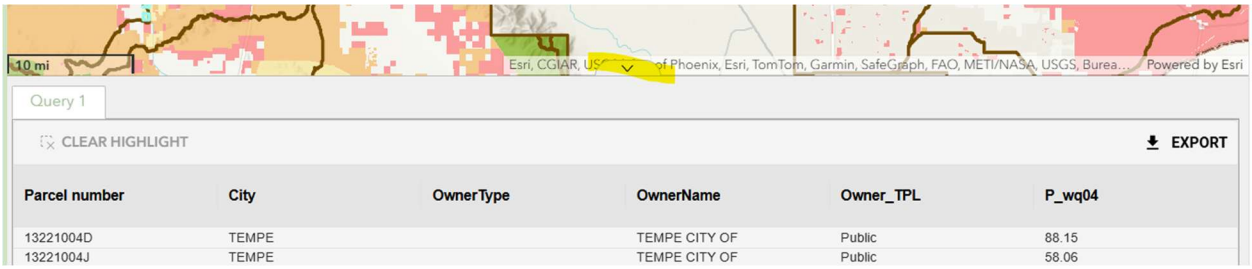
      Query by Attribute Value ⬤
    - *Example:* Query by Attribute Value with the following expressions: Owner Type = Public AND (+Add Clause) Percent of Wetlands (under Protect Water Resources) >= 50.
    - Click the Run button to execute the query.



- Query results will appear highlighted on the map and in a table below the map.
- Select EXPORT to download a copy of the table as a CSV or XLSX.
- Click on records in the table to zoom to the clicked record.
- Click CLEAR HIGHLIGHTED to unselect the zoom feature and resume the full view.

- *Query by Spatial Location:*
  - Select the toggle for Query by Spatial Location.

    Query by Spatial Location
  - To set query location parameters, use Geometry Type tools and select Buffer Distance.
  - Press to make the feature visible or invisible on the map.
  - Press to erase the feature from the map.
  - Press Run.
  - Query results will appear highlighted on the map and in a table. Select EXPORT to download a copy of the table as a CSV or XLSX.
- Click the **Clear** button on the query window to undo the current query.
- To close the Query table, press the down arrow button at the top center of the table pop up box.

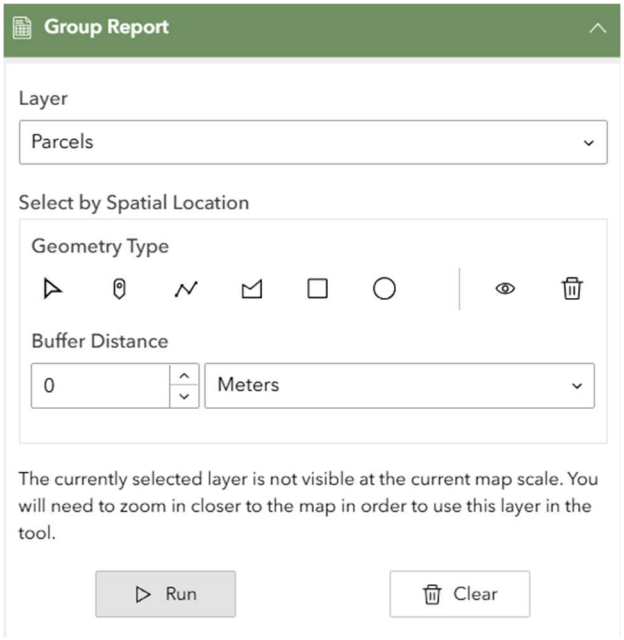


GROUP REPORT

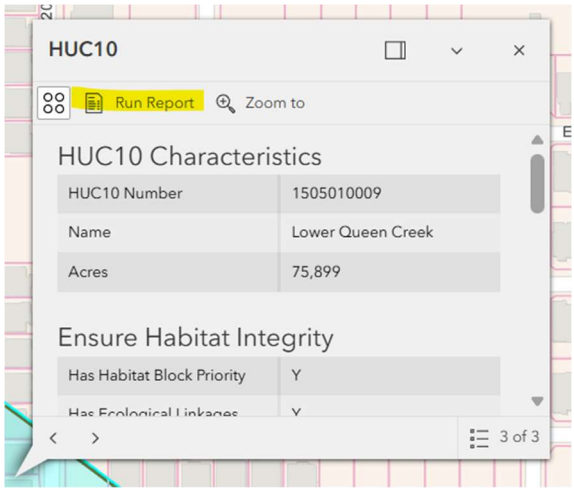
Generates a PDF report based on the layer selected, usually Parcels, by spatial location tools and buffer distance input.

- Use the tools to select parcel(s).

- Select the Run button to generate a PDF report (this may take some time). The report lists the selected parcel(s) and provides summarized analysis results for the individual priorities for each parcel.



- If PDF reports are configured for a layer then you can also generate individual feature reports from the feature popup window.



TOP BAR NAVIGATION MENU

 Information

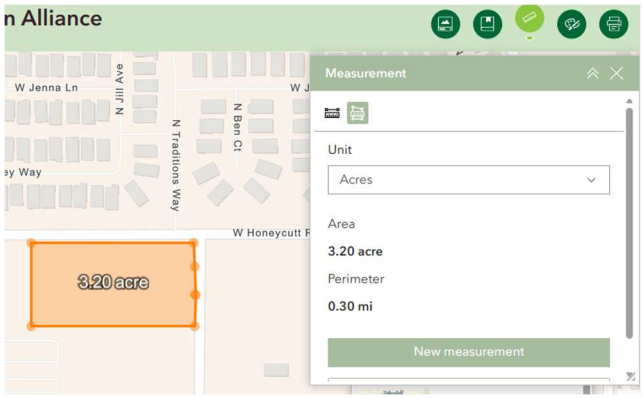
- Opens a dialog box with links to additional project information.
    - Project Landing Page
    - Users Guide
    - Model Matrix

 Bookmark tool to add saved reference locations or map Bookmarks.

- To add a Bookmark zoom to the desired map extent and click **+**. Enter a title for the location. At any point you can open the Bookmark tab and revisit your location bookmarks.

 Measurement

- Distance and area measurement tools with a dropdown list of measurement units to select from.



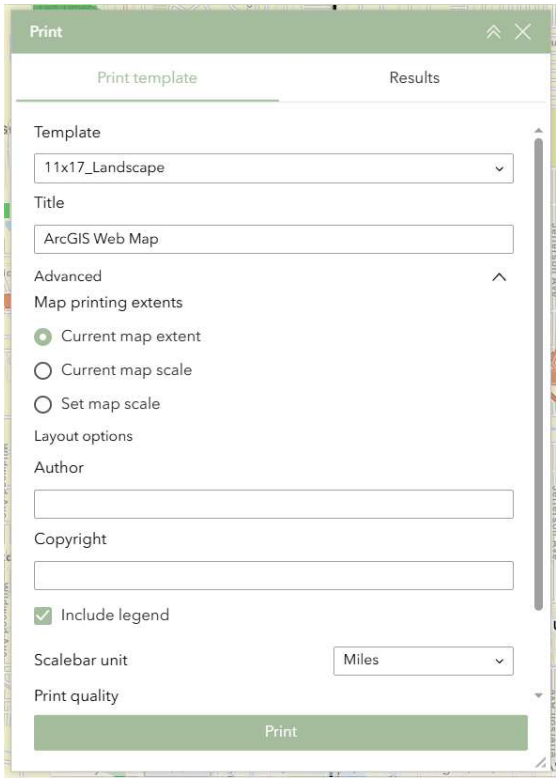
 Draw

- Select from several annotation tools to add graphics to your map. The Draw tool allows you to create points, circles, polylines, polygons (standard and freehand) within the mapping panel.
- To sketch a polygon on your map, click the ▱ button.

- Select polygon color, outline, and % transparency. Begin sketching a shape on your map by clicking on your map. Double click to finish the sketch. To re-select the shape and either duplicate or delete, press the button. Select and drag to reposition a duplicated shape.
- You can also add text, points, lines, circles, rectangles, and freehand polygons to the map by using the other draw buttons.
- If you want to change (delete) the graphics, use the button, and recreate the graphics using the methods described above.
    - **Note: This action will erase all your drawings**
- To stop drawing click the **X** button
- Annotations are included when using the print tool described below to create a printed map.


Print

- On the **Print Template** tab, select template dimensions from dropdown menu and add title.
- Advanced options are also available for selecting map extent, print quality, including author and copyright, legend, and attributes.
- Click the Print button once you have completed selections from the provided options. Be patient while the mapping site generates a map for you. This process can take up to a minute.
- In the **Results** tab, a file will appear once the export is complete. Click on the link to open your map.
- A formatted map will be displayed that you can print or save to your computer hard drive to share with others.
- Close the export window.



GET HELP

- Contact Mitchel Hannon at The Trust for Public Land, Geographic Information Systems team (mitchel.hannon@tpl.org) for assistance.