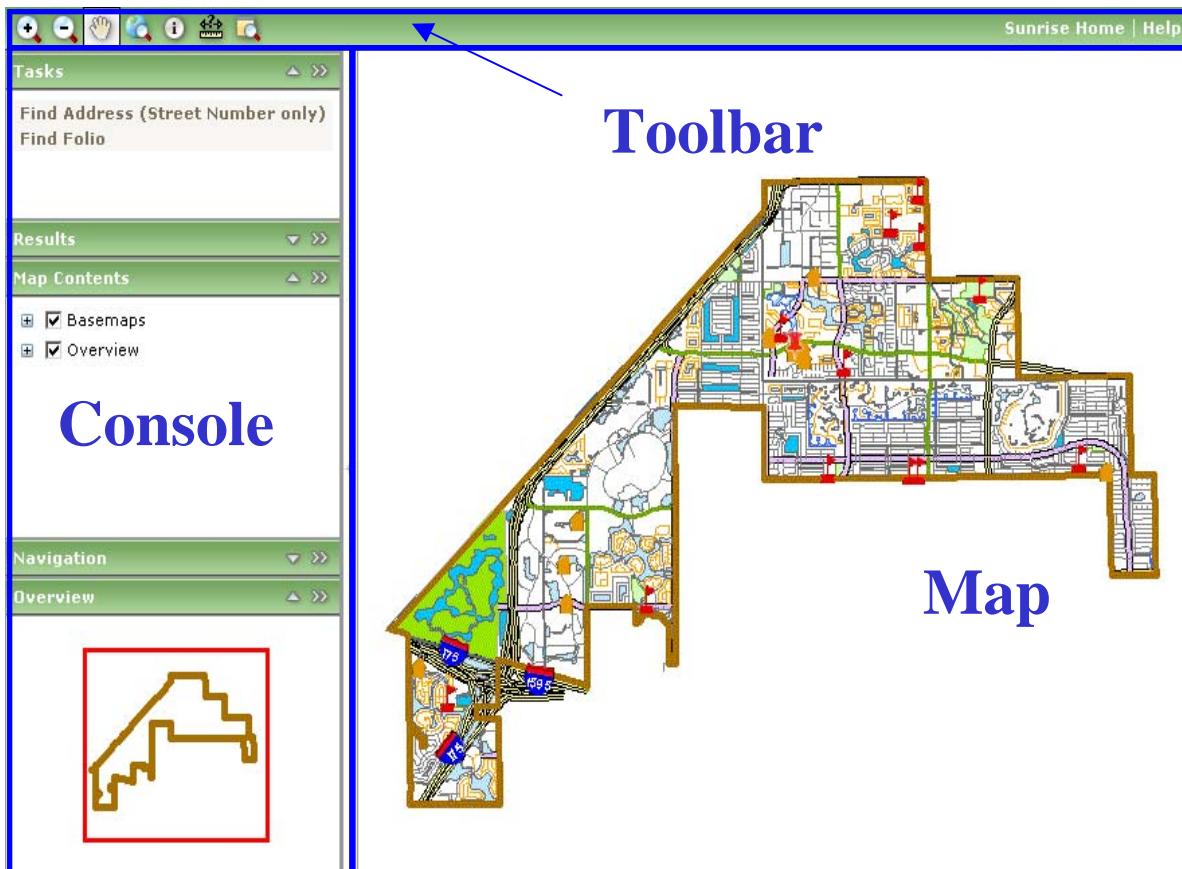


City of Sunrise GIS Tutorial

Application Components

The GIS Mapping Application interface has three main parts:









1. **Toolbar.** Located along the top, it has buttons that enable you to interact with the map, and provides links to the City's home page, as well as additional Help.
2. **Map Display Area.** The large viewing window on the right side of the page.
3. **Console.** This column, on the left side of the page, allows you to refine the map information you see. The Console is divided into five subsections: Tasks, Results, Map Contents, Navigation and Overview.



Toolbar Basics

Click the icons in the Toolbar to interact with the map:



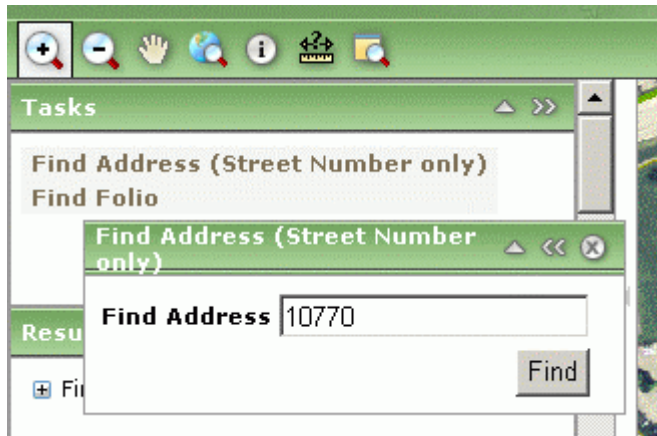
Icon	Name	Description
	Zoom In	Click and hold your left mouse button to drag a rectangle around the portion of the map you'd like to Zoom In on. When you release the mouse button, you'll get a close-up view of the area inside the rectangle.
	Zoom Out	Click and hold your left mouse button to drag a rectangle. The map will Zoom Out so that the current map area will fit into the rectangle drawn. The smaller the rectangle you draw, the more the map will zoom out.
	Pan	Position your cursor over the map, click and hold your left mouse button, and drag the map. The map will re-center, making it easier for you to then use the Zoom In or Zoom Out functions.
	Full Extent	Click this icon to immediately zoom the map out to its original appearance – showing all features and layers. Selecting Full Extent does not de-select any tool you were previously using.
	Identify	Position your cursor over the desired area of the map and click with your left mouse button. A small  icon is added to the map, and its location (expressed as coordinates) will be added to the Results section of the Console. See page 6 of this tutorial for instructions on using the Identify tool.
	Measure	See page 7 of this tutorial for instructions on how to measure distance and area.
	Magnifier	See page 10 of this tutorial for instructions on viewing portions of the map close-up.


Search for Features

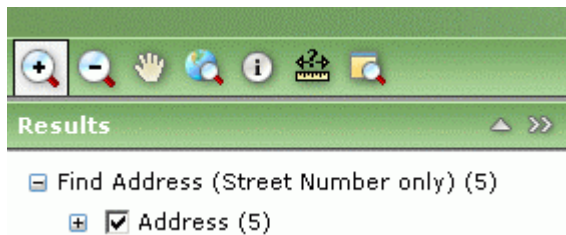
The GIS application allows you to find a location based on an address or folio. This location information is based on Broward County Property Appraiser databases.

To Search by Address:

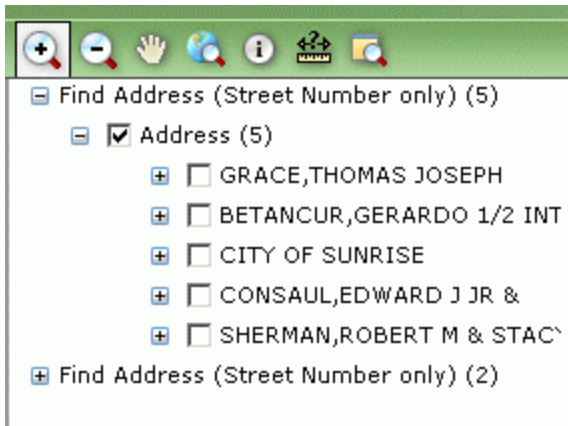
1. In the Tasks section of the Console, click **Find Address**.
2. A Find Address popup window will be displayed.



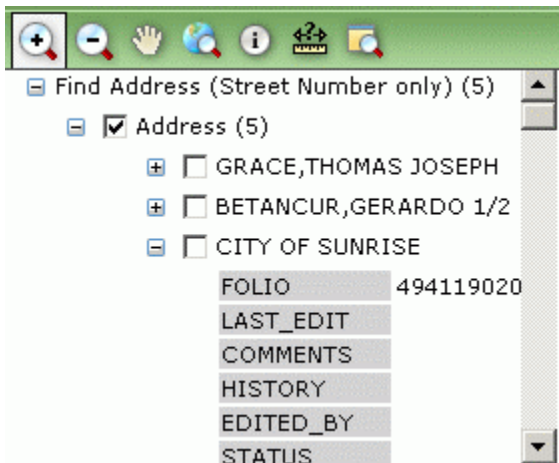
3. Enter the desired address number in the Find Address input field. You need enter only the address number – not the entire street address. (In the example above, you'd type only 10770 to find the full address 10770 W. Oakland Park Blvd.)
4. Click the Find button to start the search.
5. The Results section of the Console will expand to display the results of the search.
6. If one or more corresponding street addresses are found, a plus button  will appear next to the words Find Address



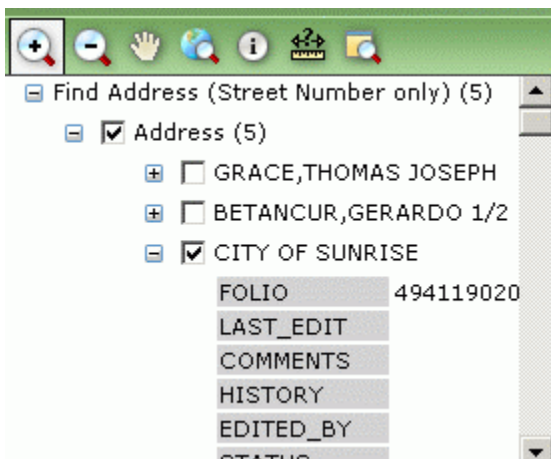
7. Click the plus button to display the list of address matches.



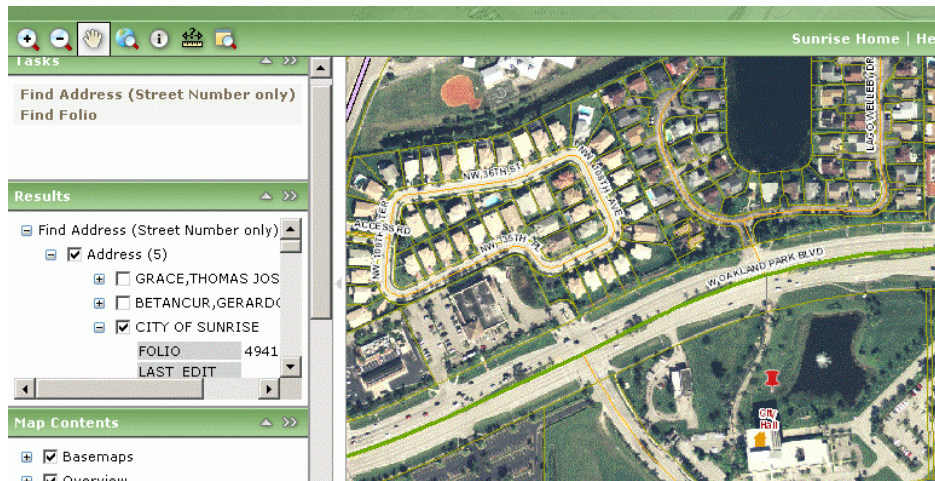
- Click the plus button next to a property owner's name (such as CITY OF SUNRISE in the example shown), to expand and explore the results.



- Click the check box next to the property owner's name (such as CITY OF SUNRISE).



- Right click the property owner's name (such as CITY OF SUNRISE), and select **Zoom To** on the menu that pops up: you should zoom into that parcel's location on the map.



To Search by Folio:

- In the Tasks section of the Console, click **Find Folio**.
- A Find Folio popup window will be displayed.
- Enter the desired folio number in the Folio input field.
- Click the Find button to start the search.
- Follow steps 5 through 10 as described in the Search by Address directions, above.


Working with Layers and Map Contents

The GIS Application allows you to view the list of Map Contents, turn layers on and off, and examine the symbols for layers.

To Examine the Map Contents:

The **Map Contents** section of the Console initially displays only the top-level content items:

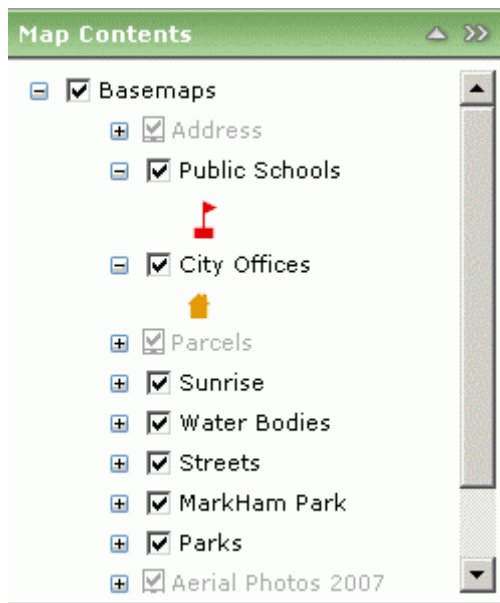


- Click the plus button  next to a content item to display the layers within it.

2. The check box next to a layer indicates whether or not that layer is currently on: Click the check box to turn the layer on (selected/checked) or off (deselected/unchecked). The map automatically redraws to reflect any changes in layer visibility.
3. Some layers may not be visible at the current map scale (zoom level). These layers are called scale dependent. You may need to zoom the map in or out to see a particular layer displayed, even if its check box is selected.




If a layer has a plus button to the left of its name, you can expand this layer to display its legend. The legend may include one or more symbols. Sunrise GIS legend symbols

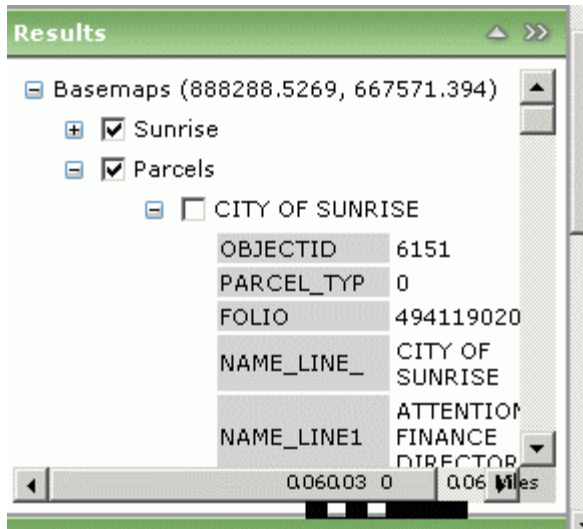
include those for Public Schools  and City Offices .



Identify a Feature on the Map

To Identify a Feature:

1. In the Toolbar, click the **Identify** button .
2. Next, left click on the map location you want to identify. An identify icon  will be placed on the map, and an entry regarding that location (identified by its coordinates) should appear in the Results section of the Console.
3. Expand the location information by clicking on the plus button  to the left of the coordinates. This will display the names of the layers where identifying features were found.



4. Click the plus button next to each layer to expand the corresponding information. Further expand by following this process with each layer and sub-layer.

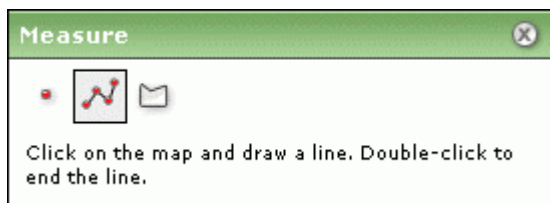


Measure Distance and Area

You can use the Measure tool to:


- Measure distances and areas
- Find X, Y coordinates

Click the **Measure** icon  in the Toolbar to launch the Measure popup window:

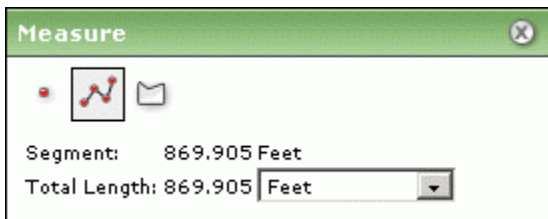
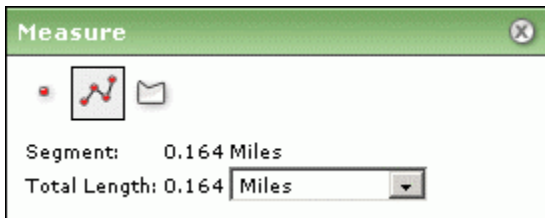


Follow the instructions below that refer to the task you want to complete. You can also use the point option to find the X, Y coordinates of a location on the map.

To Measure a Line:


1. Click to select the **Line** icon  in the Measure window.
2. Move your cursor to the first point of the line you want to measure, and click and hold your left mouse button. As you move your cursor from this location, you will see a line stretching along its path. The Measure window will also begin to display distance.

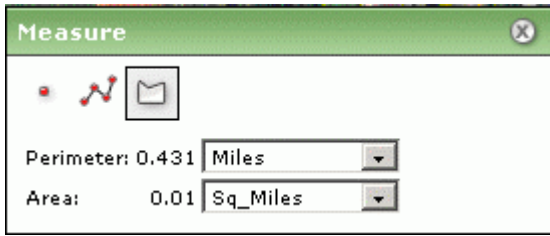
3. Move your cursor to the second point of the line. If you only want to measure one straight-line segment, double-click at this location. Otherwise click once with your left mouse button.
4. If measuring a line with multiple segments (polyline), continue clicking at vertices to add segments. The length of the previous segment is shown in the Segment display in the Measure window. The Total Length displays the sum of segments added so far.



5. At the last point, double-click to end the line. The Total Length will display the length of the line, including all segments if multiple ones were drawn.
6. To change the units in which distance is measured, use the drop-down list in the Measure window. (You can do this at any point during the measuring process, or after it's complete.)
7. To draw a new line, simply click the map at a new point of origin. This will erase the previous line.
8. To erase the line from the map, close the Measure window – or click any other icon in the Toolbar.


To Measure Area:

1. Click to select the **Polygon** icon  in the Measure window.
2. Using the drop-down lists in the Measure window, choose your preferred measurement units (feet, miles, etc.).
3. Move your cursor to the first point in the polygon, and click and hold your left mouse button. As you move your cursor from this location, you will see a line stretching along its path.
4. Move your cursor to the second point in the polygon and click your mouse button. Continue adding points and defining your polygon's shape. The Measure window will display and update the perimeter and area of the polygon as vertices are added.



5. At the last vertex in the polygon, double-click your mouse button. (You do not need to click at the original point again.) You may change the measurement units by using the drop-down lists in the Measurement window.
6. To draw a new polygon, simply click the map at a new point of origin. This will erase the previous polygon.
7. To erase the polygon from the map, close the Measure window – or click any other icon in the Toolbar.

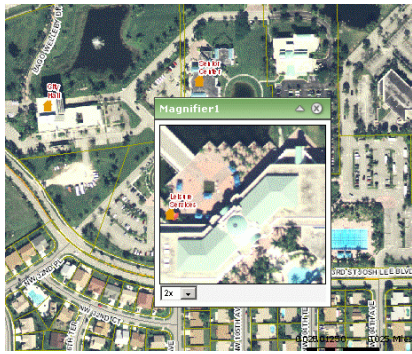
To Find X, Y Coordinates:

1. Click to select the **Point** icon  in the Measure window.
2. Click on the map. The X, Y coordinates of the location you selected will be displayed in the Measure window.

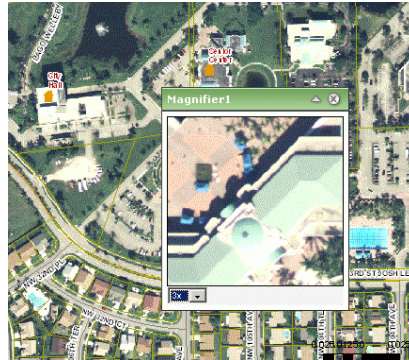


Use the Magnifier


The **Magnifier** window allows a close-up view of a small portion of the main map. This window can be moved, collapsed and closed as desired.



Magnifier moving to new location



Magnifier displaying zoomed view

1. Click the Magnifier icon  on the Toolbar: The Magnifier window will pop up.
2. Position your cursor on the title bar of the Magnifier window. Click and hold your left mouse button, and then drag the window to its desired location. A small red rectangle will outline the magnification area. Release your mouse button to drop the Magnifier on the map and get an up-close view.
3. To change the level of magnification, use the drop-down list in the lower left corner of the Magnifier window.