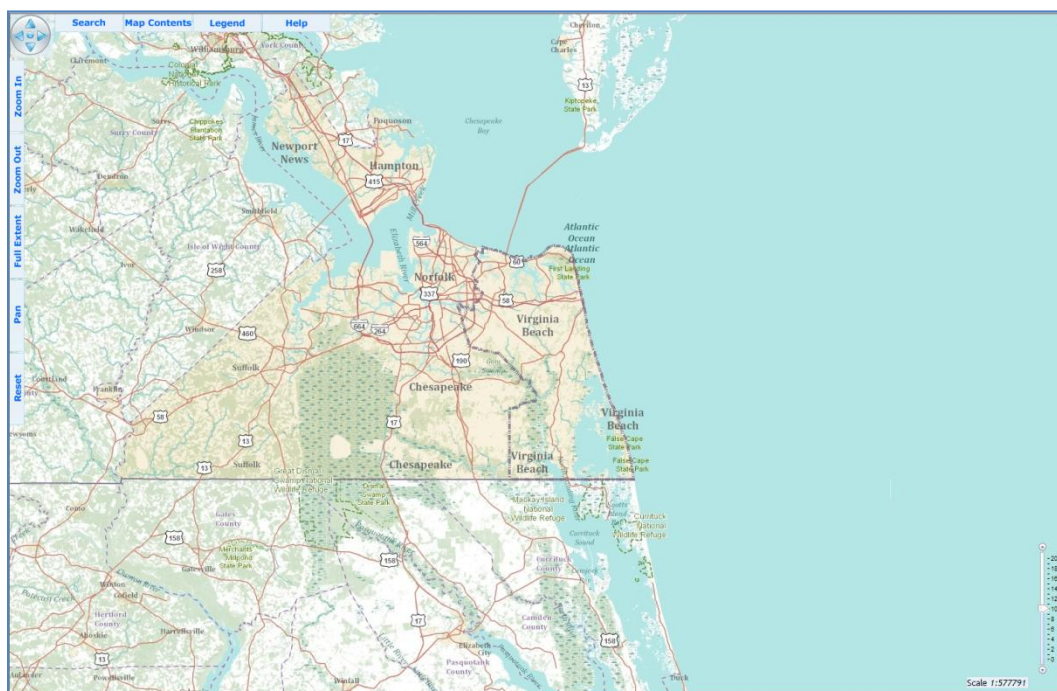


# City of Virginia Beach Web Map Help

Revised August 2011

The new City of Virginia Beach web map has been designed to provide a simple and intuitive web mapping experience modeled after popular consumer-based mapping applications. This includes a simple interface, seamless panning, scroll-wheel zooming and intuitive search tools. This help guide provides an overview of the interface and available tools. Please contact the City of Virginia Beach Center for GIS at [cvbgis@vb.gov](mailto:cvbgis@vb.gov) for any questions or comments.

*Note: This web site is best viewed in current browsers. Legacy browsers may experience problems rendering maps.*



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## Overview

The City of Virginia Beach web mapping application has several main components:

- **Map:** Map layers and interactive display
- **Horizontal Toolbar** (top left) : Access to functions such as Search and Map Contents
- **Vertical Toolbar** (left): Access to map navigation functions, such as Zoom In, Zoom Out, and Pan
- **Compass Navigation** (upper left): Alternate access to map Pan functions
- **Zoom Bar** (lower right): Alternate access to map Zoom function
- **Coordinate Location** (lower left): Identification of Lat/Long based on cursor location
- **Overview Map** (upper right – click on red arrow to open the Overview window): Alternate access to map Pan functions

## Map Navigation

You can use a mouse to perform all navigation functions on the map:

- **Zoom In**
  - Mouse Wheel - Scroll the mouse wheel forward to zoom in.
  - Zoom In Tool on Vertical Toolbar – Click on the Tool, then hold the left mouse button down and drag on the map to draw a rectangle. The map will zoom to the area of the rectangle.
  - Shift + Left Mouse – Hold the Shift key down, then hold the left mouse button down and drag on the map to draw a rectangle. The map will zoom to the area of the rectangle.
  - Double-click – Double click on the mouse to zoom in to the next level.
  - Zoom Bar – Drag the pointer up using the mouse.
- **Zoom Out**
  - Mouse Wheel – Scroll the mouse wheel backward to zoom out.
  - Zoom Out Tool on Vertical Toolbar – Click on the Tool, then hold the left mouse button down and drag on the map to draw a rectangle. In zoom-out mode this box represents where you want the current map extent to "shrink into". Drawing a small box will zoom out very far, while drawing a large box will only zoom out a little. The resulting map extent will be the "best fit" to accommodate the maximum of your zoom box's height or width.
  - Zoom Bar – Drag the pointer down using the mouse.
- **Pan or Re-Center**
  - Click the left mouse button and drag the map to the new location.
  - Use the Overview Map (upper right) to drag the rectangle to the new location.
- **Overview Map**
  - Open the Overview map by clicking on the red arrow in the upper right-hand corner of the map 
  - Use the mouse to drag the focus box within the Overview window to a new location. The full map window will pan to the selected location.
  - To close the Overview map window, select the red arrow in the upper right-hand corner. 

## Map Layers

There are multiple map layers available on the City of Virginia Beach web map. As indicated below, some layers are city-developed maps; others are web map services provided by ESRI® ([www.esri.com](http://www.esri.com)). Due to the source and content, some layers may not be available at all scales. For example, the parcel lines and address points will only appear as the user zooms in to the appropriate scales. The layers available at each scale can be viewed and toggled on or off using the Map Contents Tool explained in greater detail in the Tools section. The Map Contents Tool also contains a slider to allow the user to adjust the transparency of individual layers. The available layers include:

- **Virginia Beach Basemap** – Includes streets, building footprints, parking lots, and other local physiographic features.
- **World Basemap** – An ESRI® map service that includes country and city boundaries, water features, physiographic features, parks, landmarks, and streets.
- **Regional Extent** – Includes World Basemap areas adjacent to the City of Virginia Beach that can be toggled on or off for viewing features such as piers that extend outside the city boundary.
- **World Imagery** – ESRI® map service that presents satellite imagery for the world and high-resolution aerial imagery for the United States.
- **2009 Imagery** – Displays the Commonwealth of Virginia 2009 aerial photography.
- **Property Information** – Includes property lines, address points, easements, and other property information.
- **ir Installation Compatible Use Zones (AICUZ)** – Areas designated for uses compatible with noise levels, accident potential and obstruction clearance criteria associated with military airfield operations.
- **Voting Information** – Areas created for election purposes, including City Council Districts, House Districts, Senate Districts, and Voting Locations.
- **Flood Zones** – Representation of unofficial flood potential areas. For official flood zone information, please visit [www.fema.gov](http://www.fema.gov).
- **Fire Hydrants** – Location of Public, Private, and Under Construction fire hydrants
- **Points Of Interest** – Location of commonly requested City facilities and public places

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## Tools

Map navigation tools appear along the left-hand side of the map window. Additional tools appear along the top of the map window. Hovering over the Tool icon will display a 'tool tip' for the tool's use. Clicking on the Tool icon activates the selected tool.

### Navigation Tools

- **Zoom In** - Click on the Tool, then hold the left mouse button down and drag on the map to draw a rectangle. The map will zoom to the area of the rectangle.
- **Zoom Out** – Click on the Tool, then hold the left mouse button down and drag on the map to draw a rectangle. In zoom-out mode this box represents where you want the current map extent to "shrink into". Drawing a small box will zoom out very far, while drawing a large box will only zoom out a little. The resulting map extent will be the "best fit" to accommodate the maximum of your zoom box's height or width.
- **Full Extent** – Click on the Tool to zoom to the Virginia Beach vicinity.
- **Pan** – Click on the tool, then click the left mouse button and drag the map to the new location.
- **Reset** – Click on this tool to deactivate any navigation tool previous selected. This will allow the user to return to using the mouse scroll wheel or other mouse functions to navigate.

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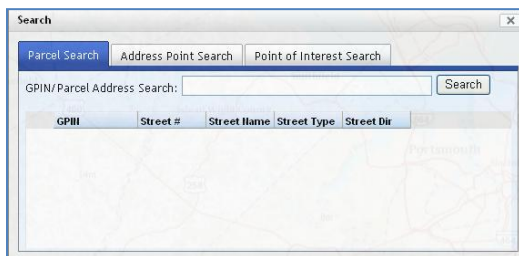
## Function Tools

**Move** - Function Tool dialog windows can be moved by clicking on the Title bar and dragging the window to the desired location on the screen.

**Close** - The dialog windows can be closed by clicking on the 'X' in the upper right-hand corner of the window.

- **Search** – This Tool is used to locate a Virginia Beach property or Point of Interest. Clicking on the Tool icon will display a search window with three tabs. The first tab allows you to search by Parcel Geographic Property Identification Number (GPIN) or Parcel Address. The second tab allows you to search by Address Point. The third tab allows you to search for a Point of Interest by name or any portion of the name.

In many cases, the Parcel address and the Address Point address will be identical for a given property. However, multi-unit commercial sites and apartment complexes have multiple Address Points on the individual property. Therefore a search for an apartment address using the Parcel Search tab may return the message "Please search again" (not found). For best results with multi-unit addresses, use the Address Point Search.



### Parcel Search Tab:

**GPIN** Key a GPIN number in the search field provided and click [Search]. You may key a partial GPIN number and the system will return the list of all GPIN's that begin with the entered number. However, keying only one or two digits will return an extensive list and negatively impact response time.

**Parcel Address** Key an address number and street name in the search field provided and click [Search]. You may key a partial street name and the system will return a list of all addresses that begin with the entered information. Keying the street name only will return a list of all addresses for the entered street. However, a long list of responses (for a street name such as "Atlantic") may negatively impact response time.

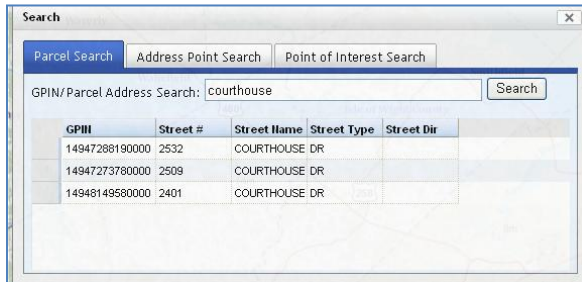
### Address Point Search Tab:

Key the Address Number and Street Name in the search field provided and click [Search]. You may key a partial address and the system will return the list of all addresses that begin with the entered information. However, keying partial information may return an extensive list and negatively impact response time.

### Point Of Interest Search Tab:

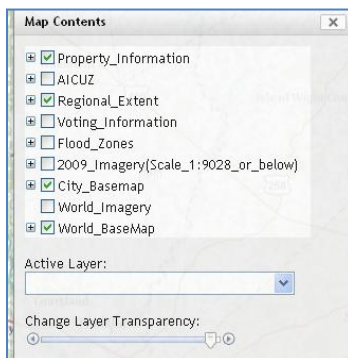
Key the name of the Point of Interest for which you are searching, or any portion of the name into the search field provided and click [Search]. Examples include 'fire' to retrieve a list of Virginia Beach Fire Stations or 'school' to retrieve a list of all schools.

**Search Results** – If only one Parcel, Address Point, or Point of Interest matches the entered criteria, the system will automatically zoom to the resulting location. Searches resulting in multiple matches will display a list of results below the search criteria:



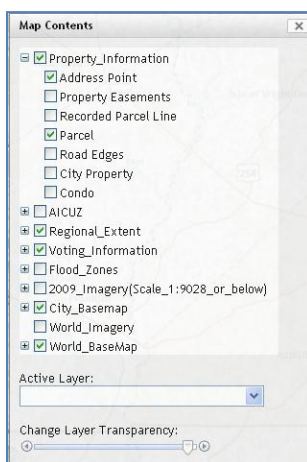
To zoom to a selected location, click on an item in the list.

- **Map Contents** – Click on the Map Contents Tool to see a list of all map layers.



The checkbox to the left of the Layer name can be used to toggle the layer on or off. Some of the listed layers are on by default. Other layers, such as AICUZ and Voting Information, are off when the map initially displays, but may be toggled on by the user.

Each Map Contents layer has a main category, such as 'Property Information'. Within each main category, there are sub-category layers, such as Address Point, Property Easements, Parcel, etc. To toggle a sub-category layer on, check the box to the left of the sub-category name. Also, make sure the checkbox to the left of the main category name is checked. If the sub-category box is checked and the main category box is checked, the sub-category layer will be displayed on the map.



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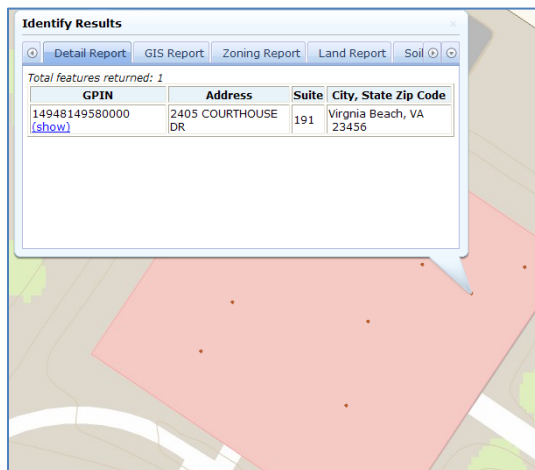
Multiple map layers and imagery can be displayed at the same time. In order to adjust the transparency of a layer, use the Active Layer drop-down to select the map layer; then use the **Transparency** slider to adjust the transparency of the Active Layer.




- **Legend** - Click on the Legend tool to display the map legends.

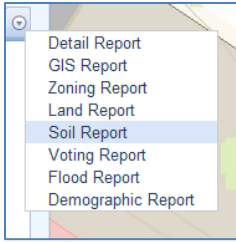


## Identify Property Information

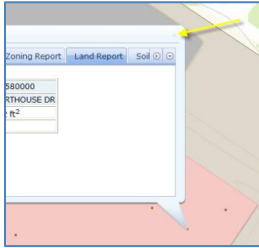
When Address Points are displayed on the map (Zoom Levels 17 – 20), you can click on an Address Point and display information about the parcel including acreage, voting district, and census tract. (If there are no Address Points within the 'tolerance' distance of your mouse click, a message will display indicating 'Click on an Address Point for Property Information'.)



Once the Identify Results window is displayed, you can use the Left  and Right  arrows to navigate through the result tabs, or use the far right Down arrow  to display the list of result reports and click on an item in the list to navigate to the selected report:



To close the Identity Results window, click on the 'X' in the upper right-hand corner. The 'X' is transparent, but will display when you hover the mouse over the corner of the window.



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