GENERAL PUBLIC HOW-TO GUIDE:

THE COUNTY OF FRONTENAC INTERACTIVE MAP VIEWER

Welcome to the County of Frontenac public interactive mapping tutorial

This guide is meant to provide a tutorial to be used by the general public for navigating the interactive mapping site and its features. This guide can be accessed freely on the Frontenac Maps GeoHub website. In the interactive mapping application, users can browse geographic information found throughout the County of Frontenac including transportation, hydrology, aerial imagery, emergency services, points of interest, zoning and more.
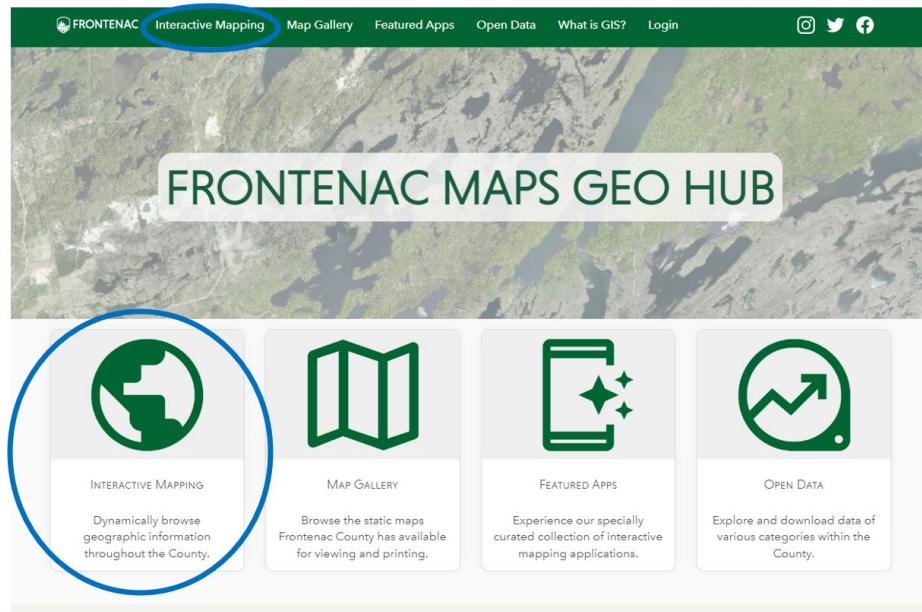
CONTENTS

INTERFACE BASICS

Opening the Interactive Map

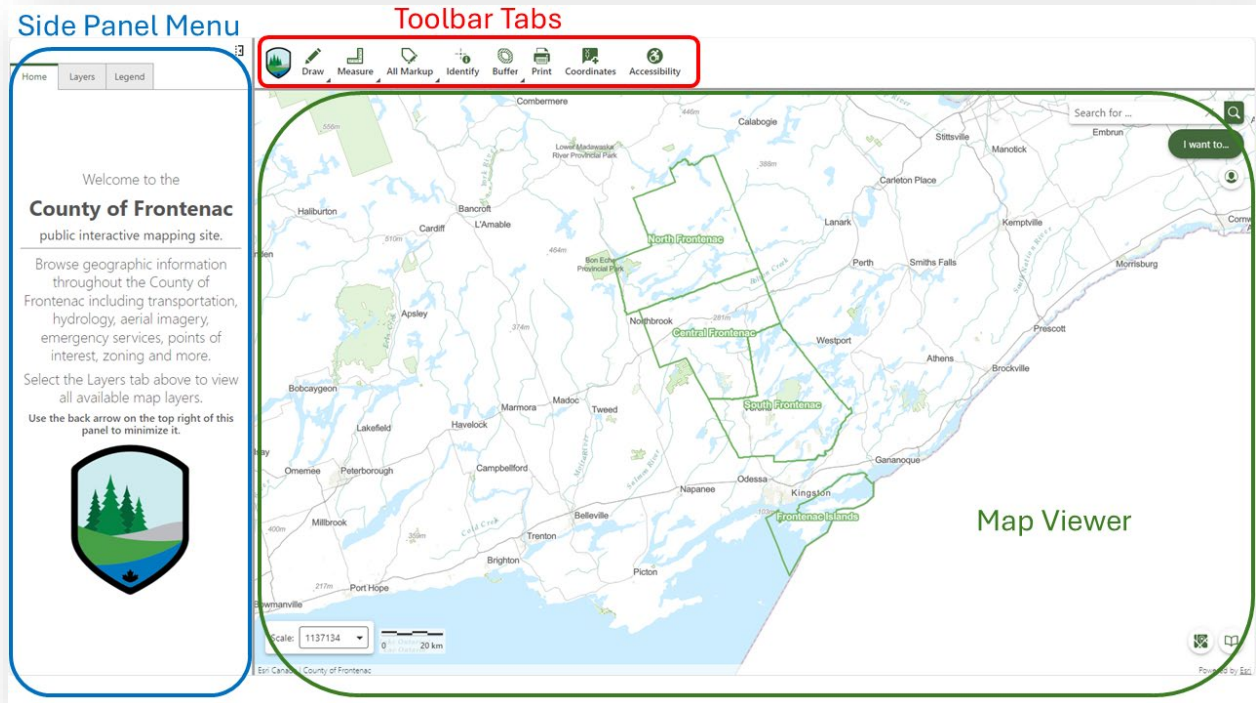Go to https://www.frontenacmaps.ca/

Click on "Interactive Mapping" in the top ribbon or the icon.
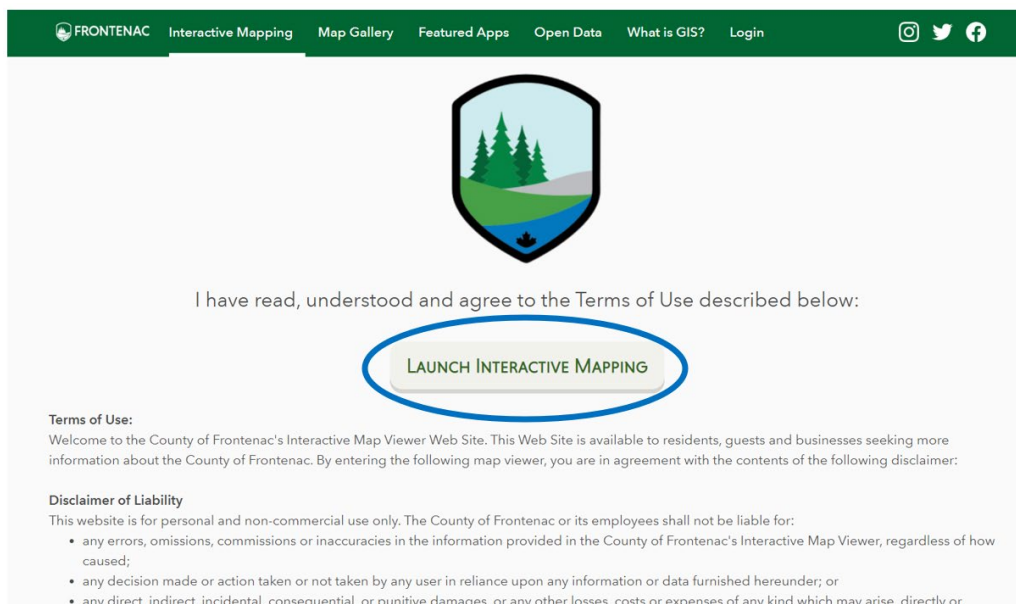
Accept the Terms and Conditions by clicking on "LAUNCH INTERACTIVE MAPPING". This will open the Interactive Mapping Tool.

The Mapping tool consists of a Map Viewer, Toolbar Tabs and Side Panel Menu

Clicking on the **Accessibility** icon Accessibility in the Toolbar Tabs will bring up more information:

Accessibility

Accessibility is the degree to which software is accessible to people with disabilities. Web Content Accessibility Guidelines (WCAG) 2.1 AA↗ is a technical standard with the goal of providing a shared standard for web content accessibility. The Web Accessibility Initiative – Accessible Rich Internet Applications (WAI-ARIA) 1.1↗ is a technical specification that aims to increase the accessibility of rich internet applications with dynamic content. Both standards were developed by the Web Accessibility Initiative of the World Wide Web Consortium (W3C↗). VertiGIS Studio Web conforms with the WCAG 2.1 Level AA standard and aims to follow WAI-ARIA 1.1 keyboard navigation guidelines.

VertiGIS Studio Web offers the following accessibility features for end users:

- Screen Readers: Run a screen reader to vocalize and interpret page content.
- Keyboard Shortcuts: Interact with the viewer using only the keyboard.
- Skip Links: Navigate directly to a component by pressing **ALT+Q**.

These features can be used together.

The Map Viewer

The Map Viewer automatically loads a view of the Township boundaries within the County of Frontenac. Additional features can be loaded from various locations surrounding the Map Viewer.
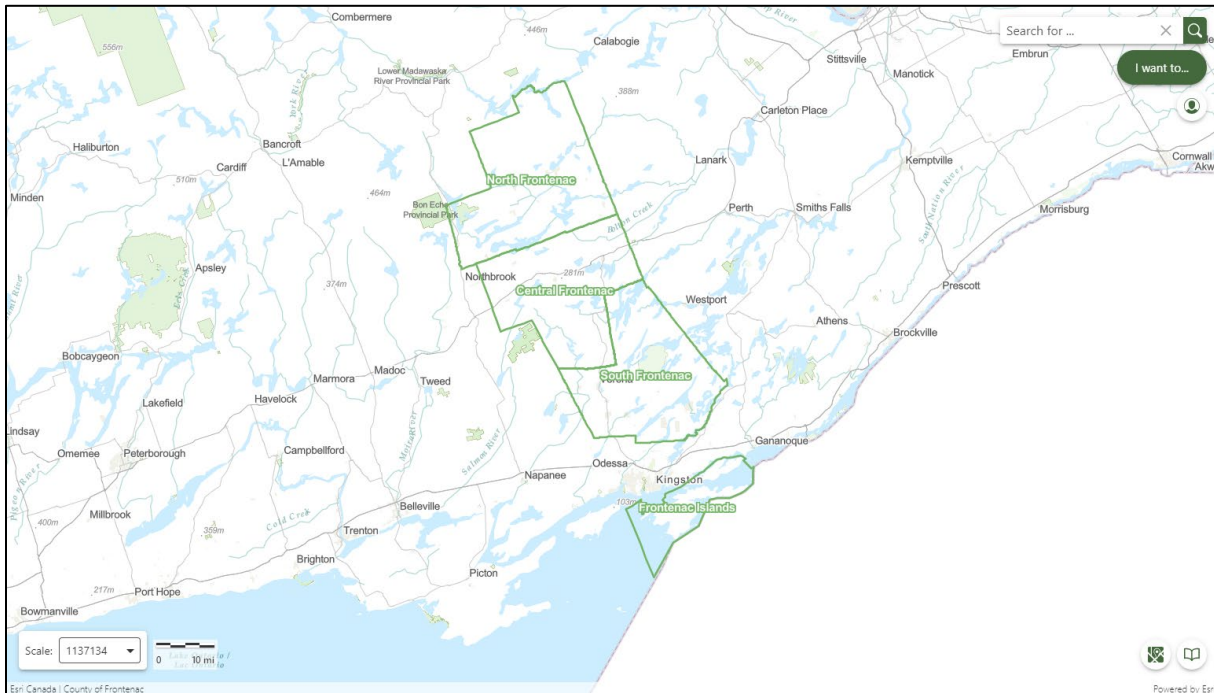

Changing Base Maps

Changing the base map alters the way in which the landscape and labels are displayed on the map. One common option is to change the base map to Satellite View.

1. Click the **Show Basemaps** button in the bottom right-hand corner of the Map Viewer.
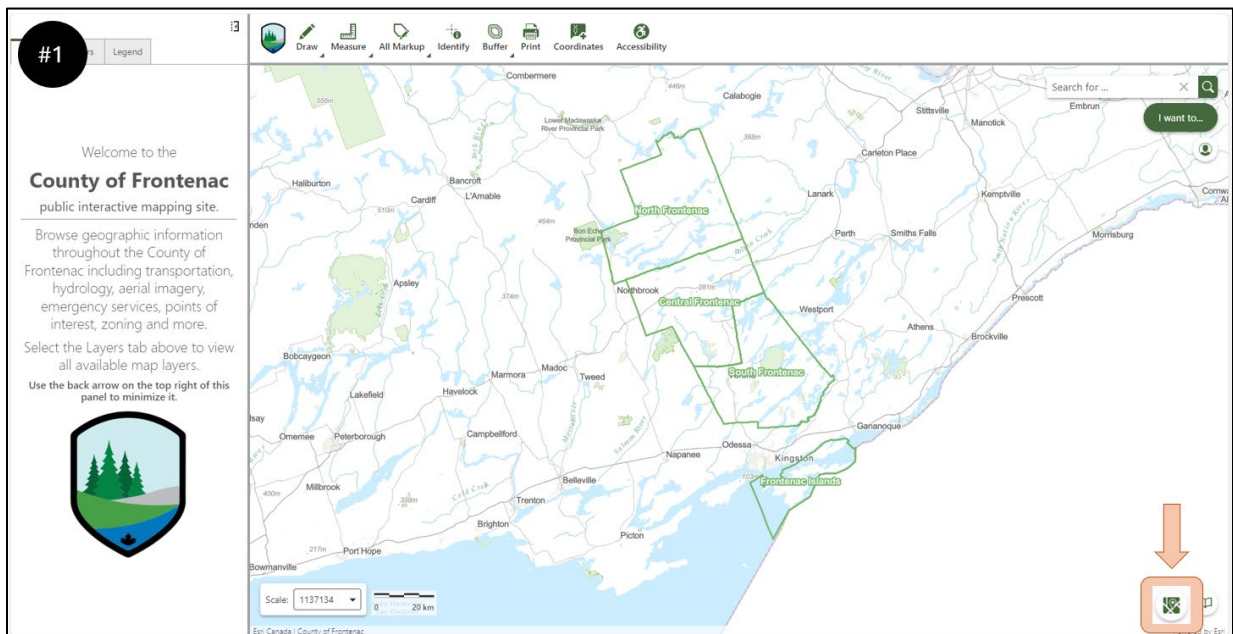
2. Choose one of the options displayed.

3. The Imagery Base Maps are labeled by the year they were photographed in.

4. The County of Frontenac has 2008, 2014 and 2020 Imagery available.
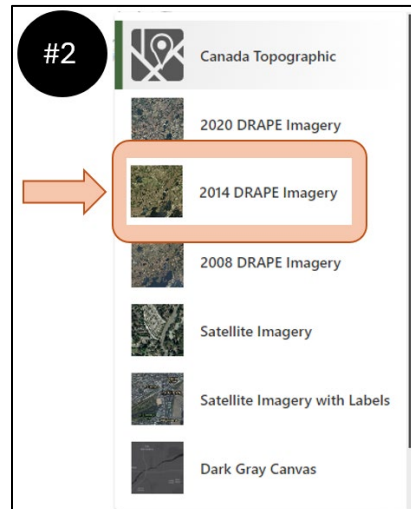
Note: **For a side-by-side comparison of the Satellite Imagery through the years please go to https://www.frontenacmaps.ca/ and explore the** Imagery Swipe Viewer **available under** *Featured Applications.*

Bookmarked Locations

Bookmarked locations are available in the Bookmarks Menu. There are preset bookmarks listed in the menu. To add a custom bookmark, click the 'Add Bookmark' button.
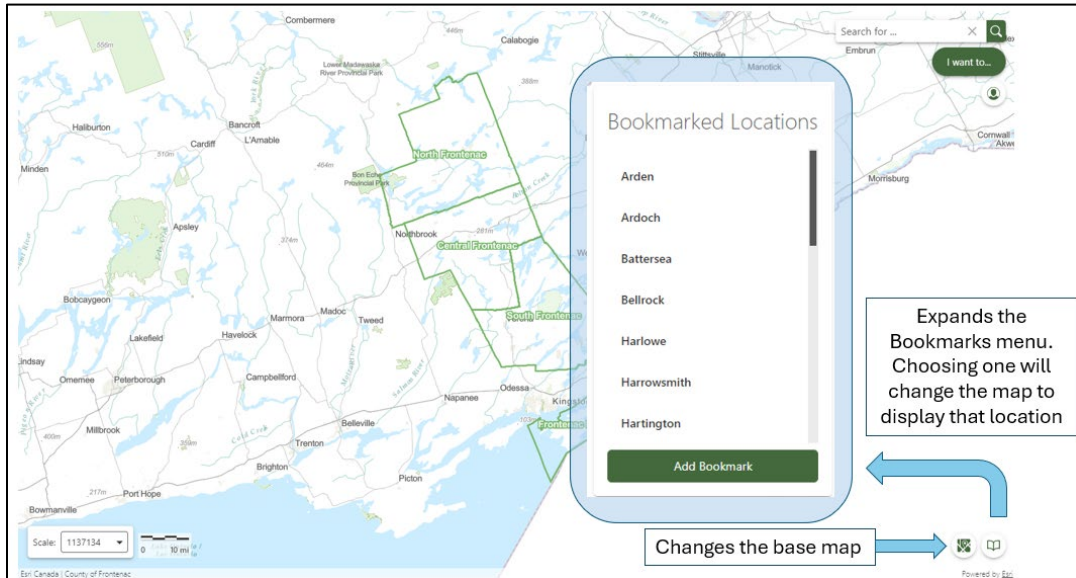

The Side Panel Menu

Clicking the **Layers** button at the top of the Side Panel Menu will display all the layers available for the County of Frontenac. Any layer chosen will be displayed on the map in the Map Viewer. Click on the arrow symbol > beside each layer to reveal sublayers of the same category.
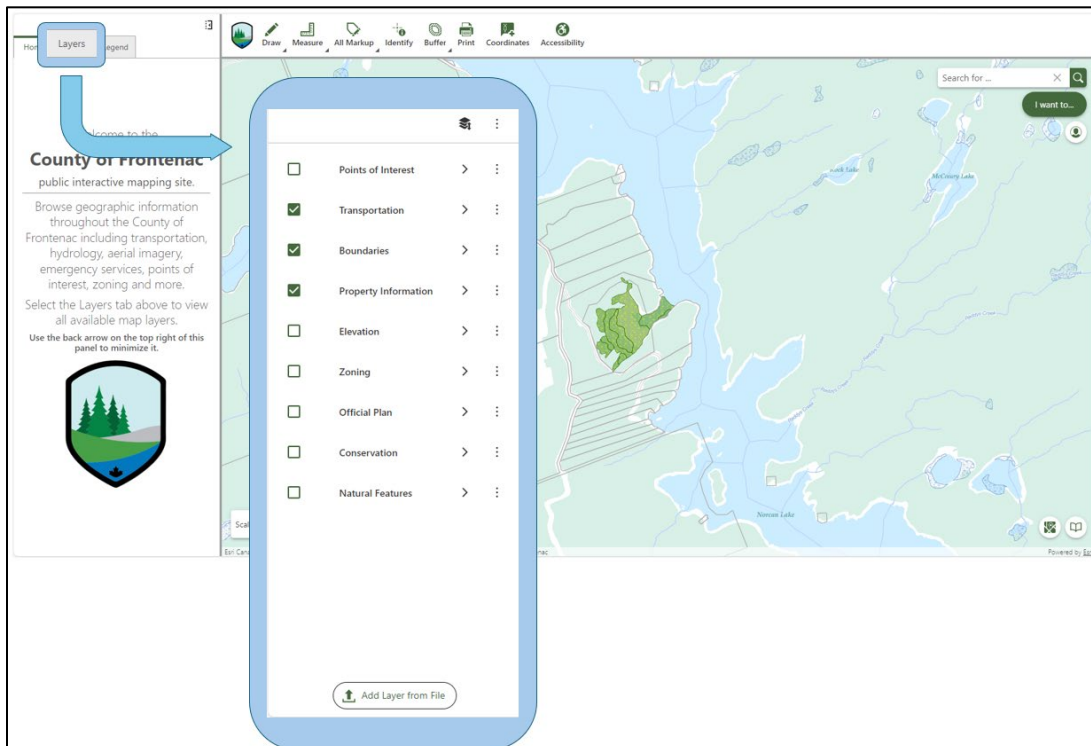
The layers can be reorganized using the Reorder Layers button on the top of the layers window ⬚.

Both the ⣿ and arrow buttons ↓ can be used to reorder layers. On the map, layers on top will appear above other layers. For example, the zoning layer will cover the official plan layers.
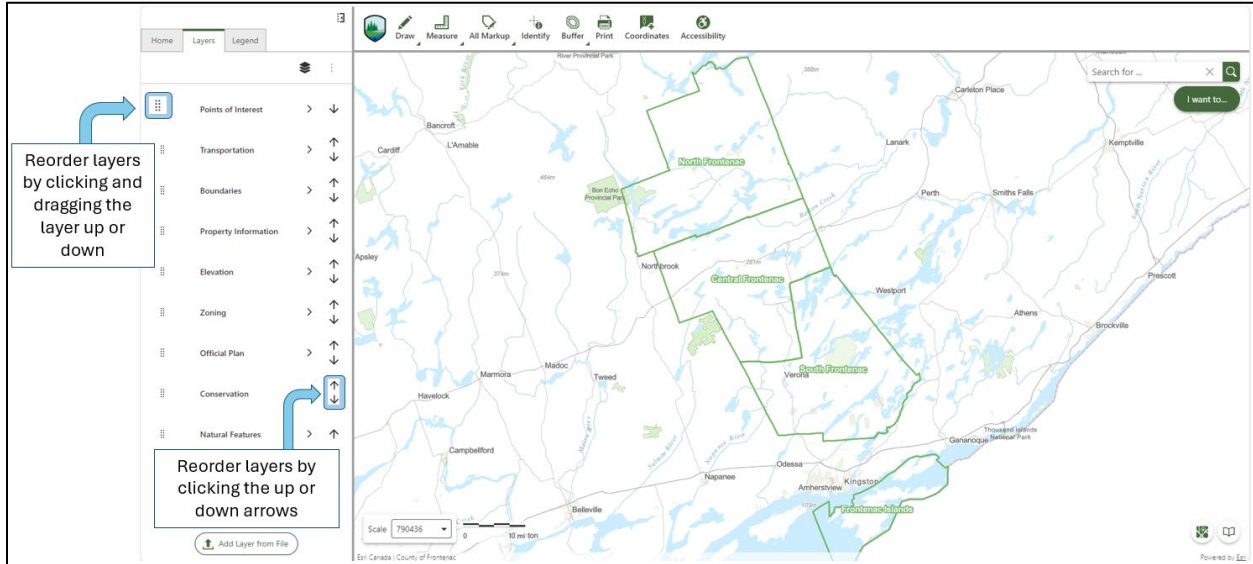

Results and **Results Details** tabs will appear after performing a search or selecting features on the map. The Results tab shows the searched or selected feature(s), and the Results Details tab shows the details of a feature clicked on in the Results tab.
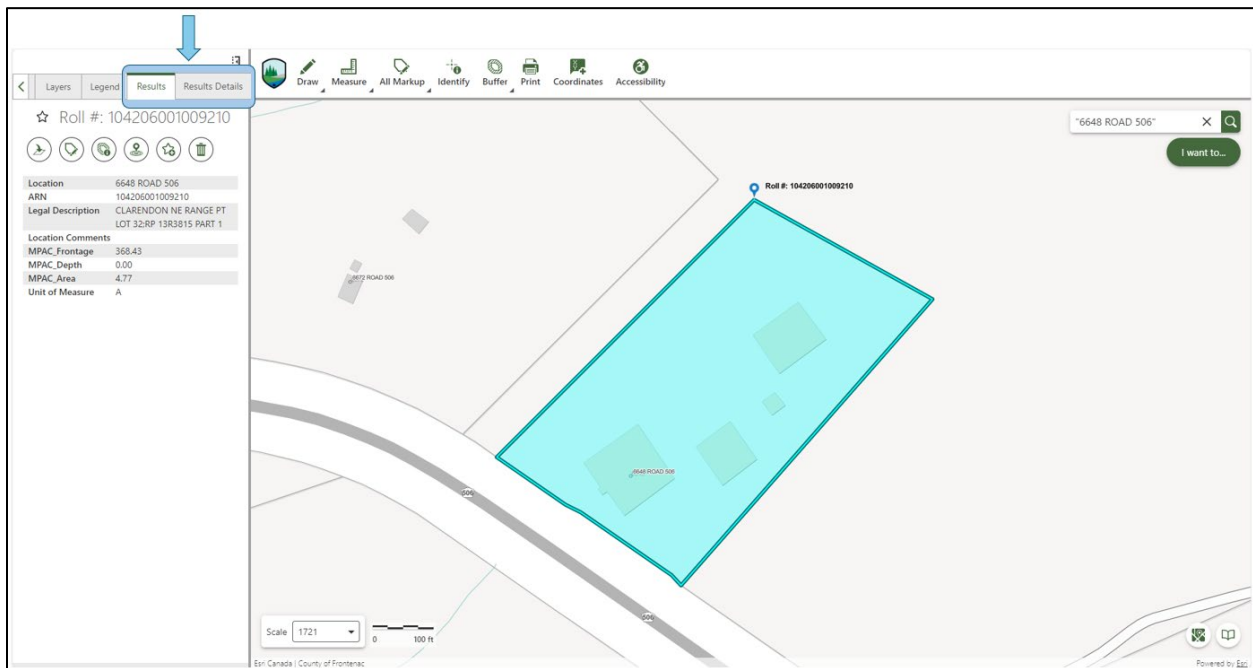
Basic Functions

The '**I Want To…**' function generates more options for interacting with the map. Hover the mouse over the map and scroll in and out to change the zoom level. The **Search Bar** performs a search for address or locations. Searching by address, assessment roll number, or street name will yield the best search results. Searching by Concession/Lot will not return accurate results. Note that searching will only return results from layers that are turned on and within their visible extent.
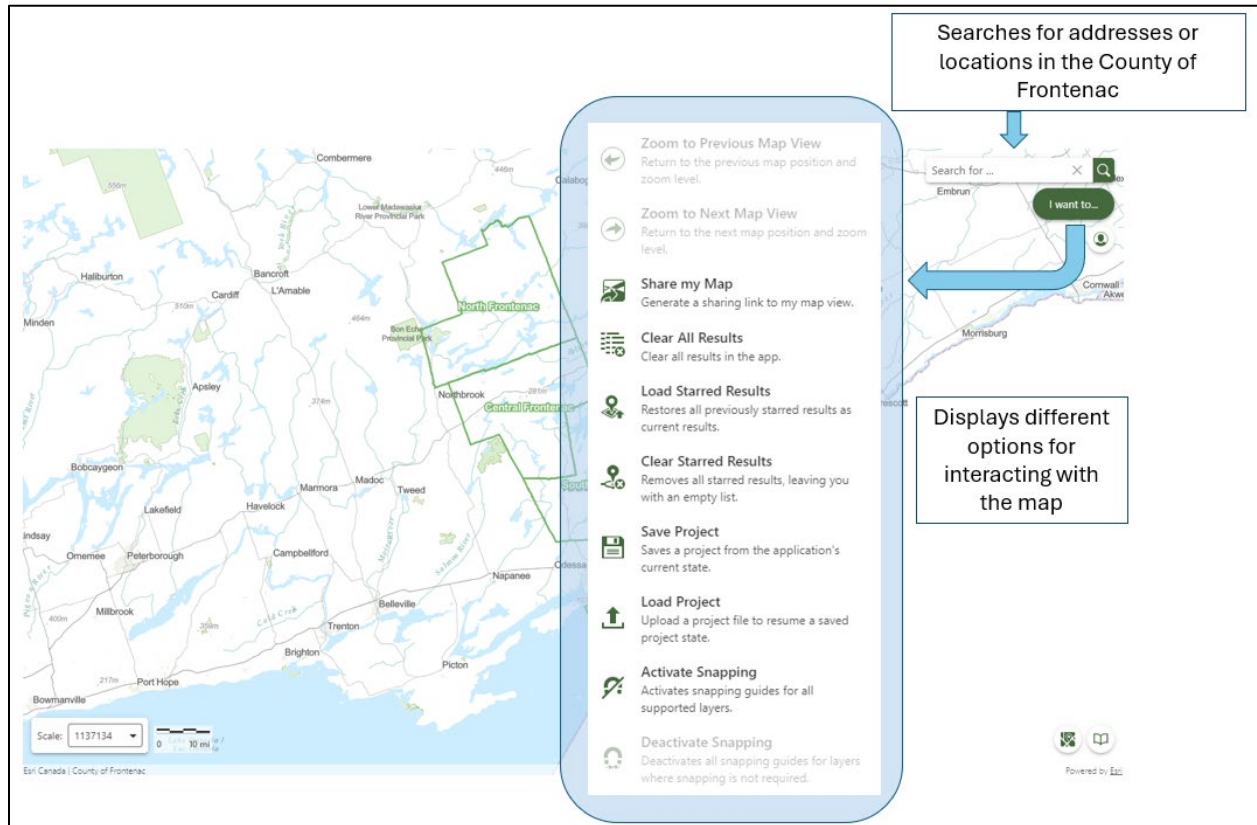
To save a map and its settings, select the **Save Project** button. Enter a title for your project and click OK. A .json file that contains the project settings will automatically download. To load the saved project into the Map Viewer, select **Load Project**. A dialog box will open. In the pop-up dialog box, click Upload and navigate to the downloaded .json file. Click on the file and click Open. After returning to the dialog box, click OK. The map will return to the same view/scale the map was saved at, the same layers will be turned on, the order of the layers will be saved, and any other settings that were active at the time the project was saved.

The Toolbar Tabs

There are 7 different Toolbar Tabs found at the top of the page. Clicking one will bring up a new set of commands to use.
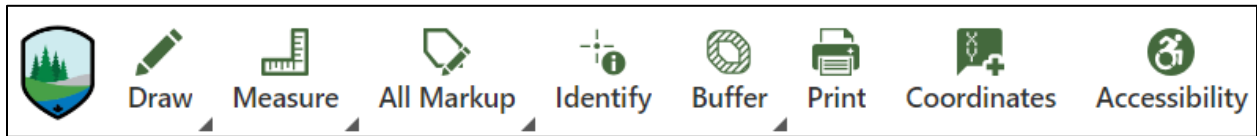

Draw: In Frontenac Maps, there is the option to draw shapes and figures on the map to emphasize a location or highlight an area you are interested in.

Note that the options on the Draw tab only create the outline of shapes. To see the coordinates or area within a shape, please use the Measure Toolbar Tab.
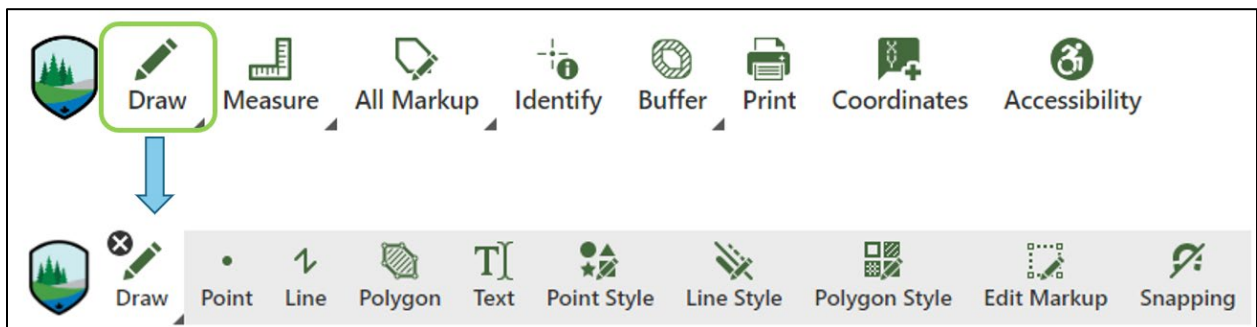
- **Point**: double click anywhere on the map to add a point.
- **Line, Polygon**: click to start, click again to add another vertex, and double click to complete the drawing.
- **Text**: add writing to any place on the map by filling out the form on the left side of the Map Viewer and clicking Add Text. Click on the map to add the text box.
- **Point Style, Line Style, Polygon Style**: change the appearance of point, line, and polygon symbols. Does not apply to existing features.
- **Edit Markup**: make edits to existing text, point, line, and polygon markups. To edit, click and drag to draw a rectangle over the entire extent of the markup and use the functions in the pop up to make desired edits. Select the ⓘ button in the pop-up window to view Keyboard Actions for advanced editing.
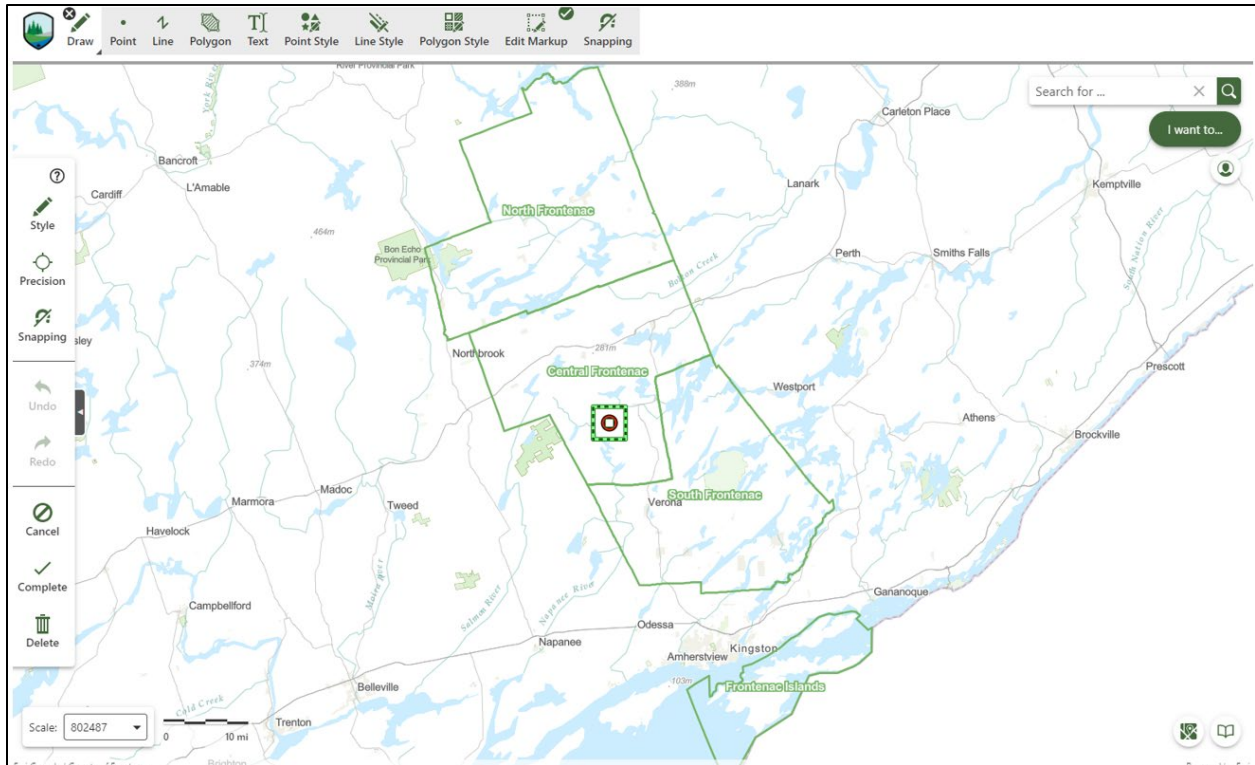
Measure: Selecting any of the options on the **Measure** Toolbar Tab will create and draw a shape on the map. It automatically adds the area and perimeter of the shapes. To clear any measurements/markups, go to the **All Markup** tab and select Clear Markup.
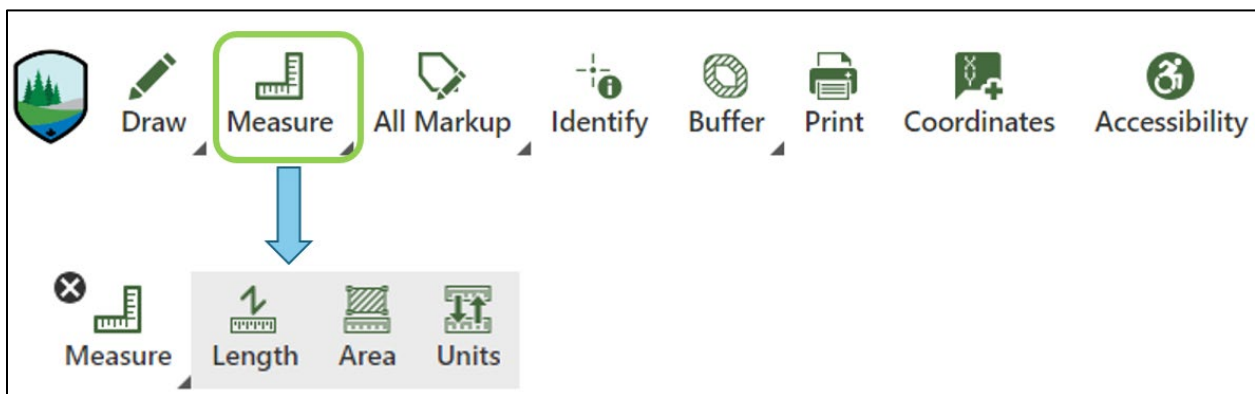

- **Length**: Click anywhere on the map to start, click again to end, and double click to complete the area of measurement.
- **Area**: Click anywhere on the map to start, click again to add another vertex, and double click to complete the area of measurement.
- **Units**: Change the measurement system, length units, or area units.

Identify: This Tab provides information on selected features. Whenever a layer or feature is added to the Map Viewer, clicking the **Identify** Tab and then clicking on the map, will bring up specific details like the title and location for the feature selected.

Details appear in the Side Panel Menu.
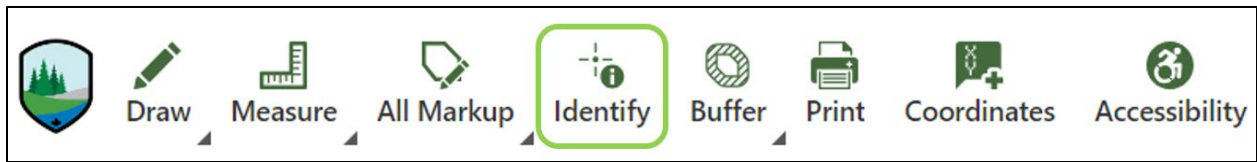
- When using the Identify tool, clicking once on a feature will display its details.
- Clicking on the map and dragging will create a rectangle that will display details for the features intersecting it.
- To clear the details in the Side Panel Menu and clear the entire selection on the map, click on the **Actions menu for: results list** button ⋮ and select **Remove Result(s)**
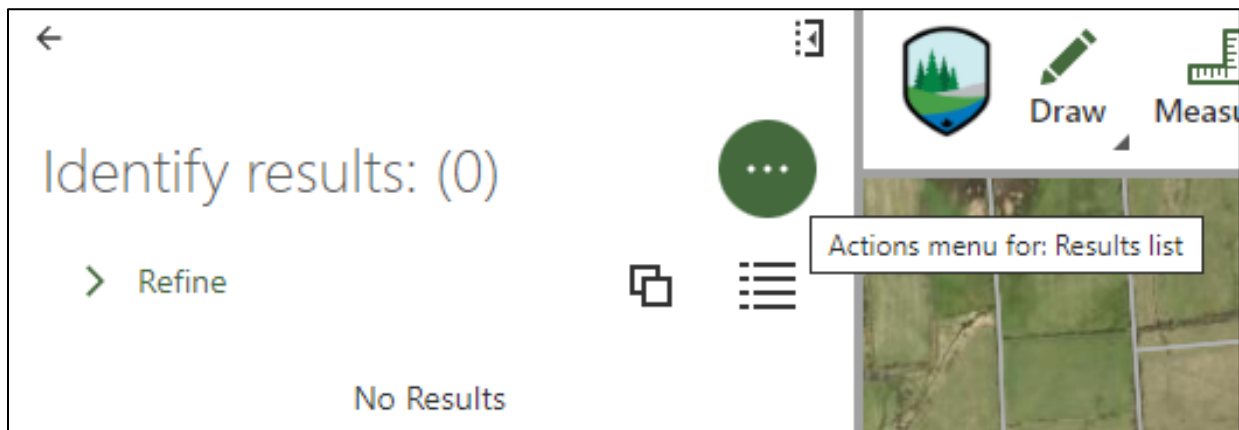

- Individual results can also be removed from results by clicking on the ⋮ button beside them.
- In the I Want To menu, the option **Clear All Results** will also remove all results from the Results tab.
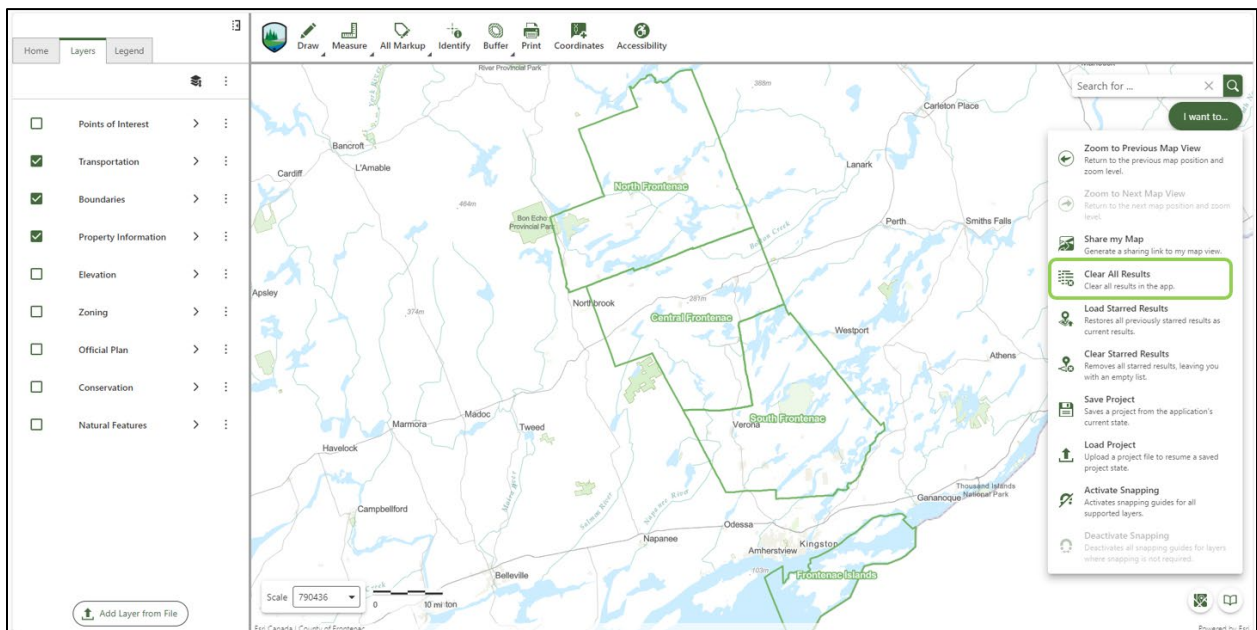
**Buffer:** The Buffer Tab can be used to buffer features on the map.
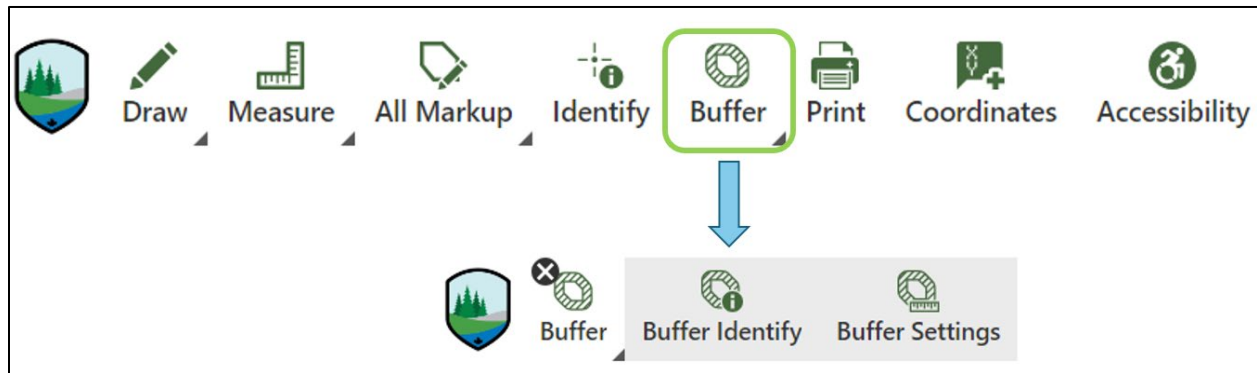
- **Buffer Identify:** buffer a point on the map. After clicking the **Buffer Identify** button, click anywhere on the map to create a buffer. The features intersecting with the buffer will be selected and details for all selected features will appear in the Side Panel Menu.
- **Buffer a Feature:** To buffer to the exact geometry of a feature, select the feature using the Identify tool, click on the three dots ⋮ beside the feature in the Side Panel Menu and select **Buffer Result(s).** If you want to buffer all selected results at once, select the main three dots at the top right of the **Results** tab and select **Buffer Result(s)**. All features from active layers that intersect the buffer(s) will be added to the Results tab.
- **Buffer Settings:** change measurement system, buffer units, and buffer distance. This must be adjusted prior to creating the desired buffer; it cannot be changed afterwards.
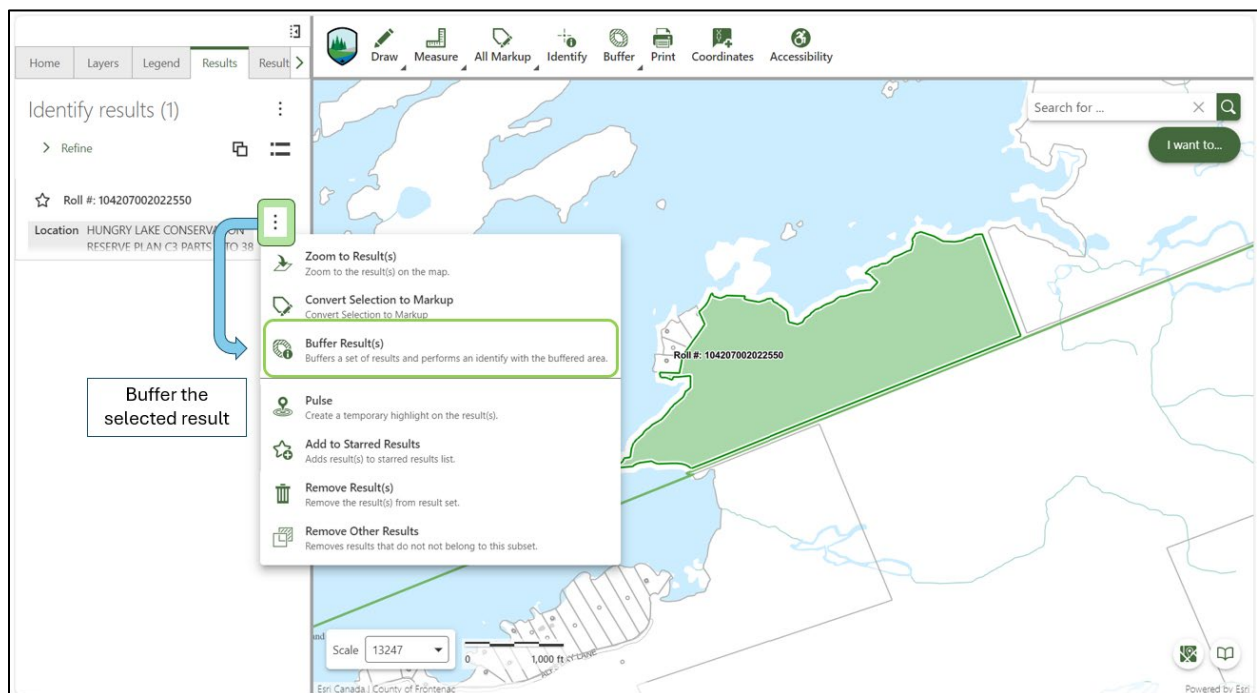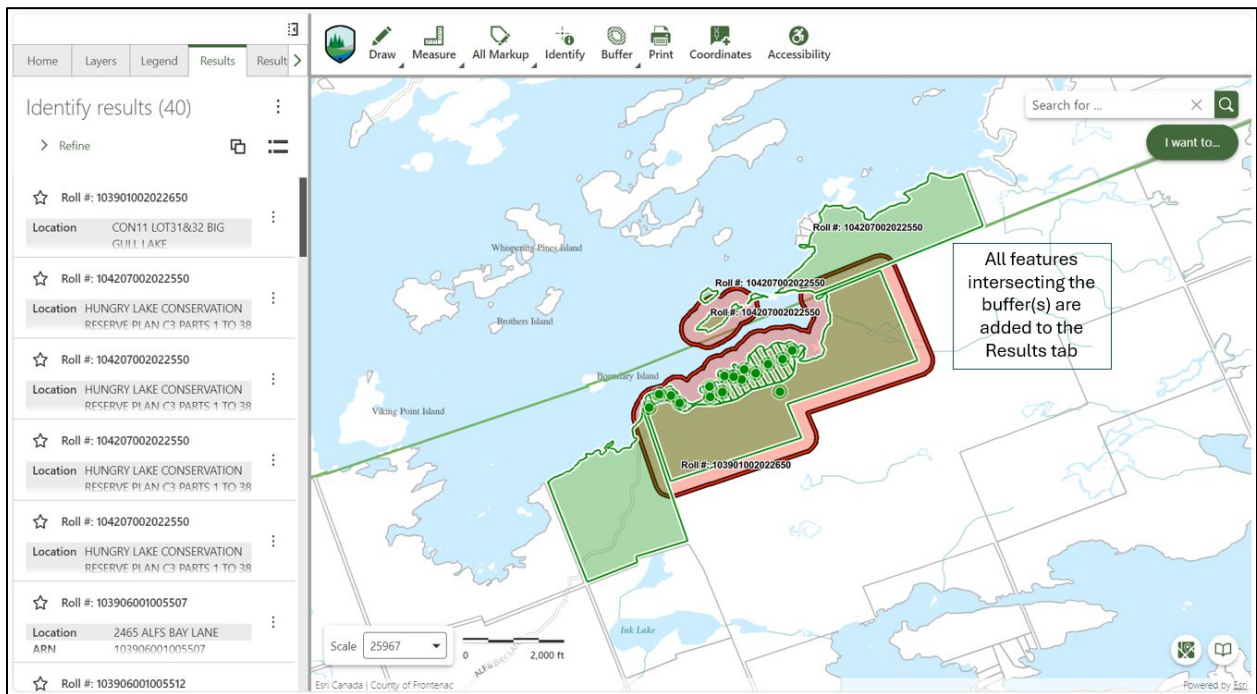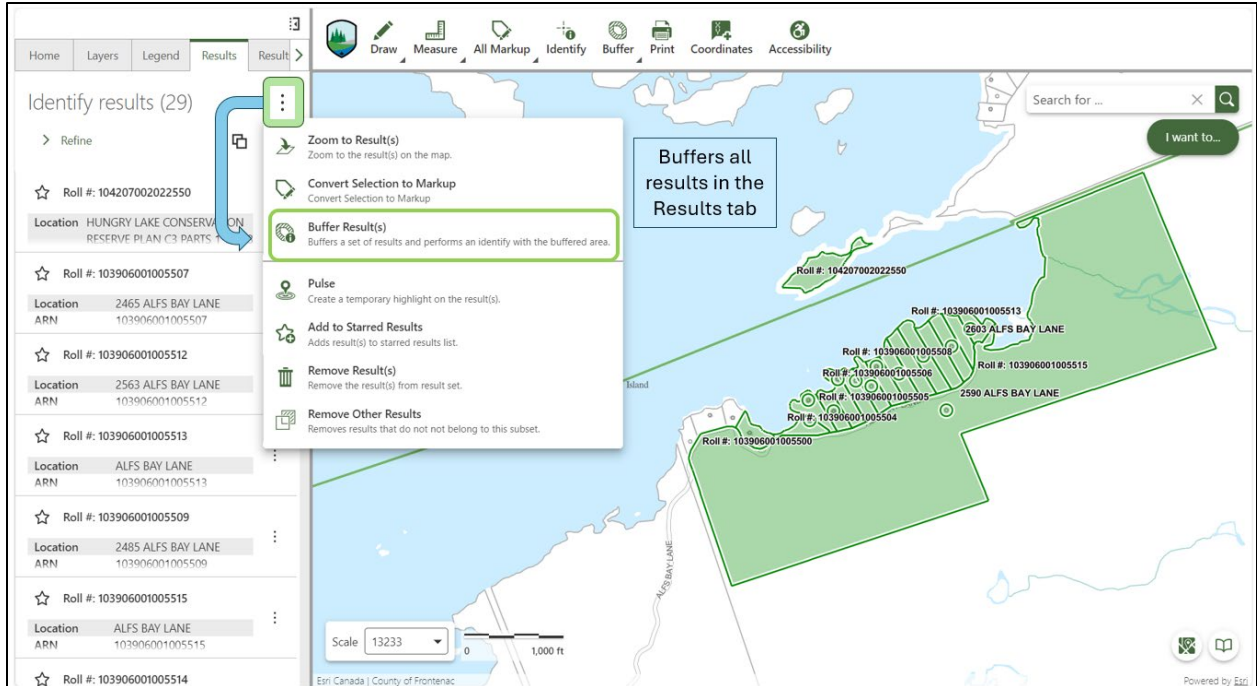
Print*:* The Frontenac Interactive Mapping tool comes with the ability to export or print out anything created on the map.
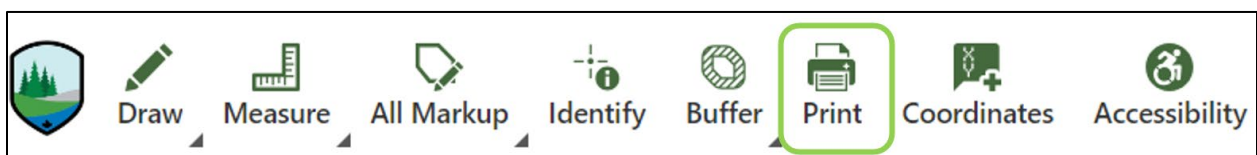
- **Print**: click the **Print** button and a pop up will open on the Side Panel Menu. On the map, adjust the area to be printed. Fill out the form in the pop up to change the template, scale, rotation, title, and add any notes. Click **Print** when finished. When the map is finished processing, a message will pop up on the Map Viewer. Select Click to download to open the map and save it to your computer.

Coordinates: Clicking on the map and inputting the coordinate information in the pop-up will add a point to the map at that location. The coordinate system can be changed. It is possible to add multiple coordinate points to the map. To delete a point(s), go to the **Draw** Tab and use the Edit Markup Tool. To clear multiple points at once, go to the **All Markup** Tab and select Clear Markup. Note: The style of the point(s) can be edited in the same way as drawings made using the tools in the Draw tab.
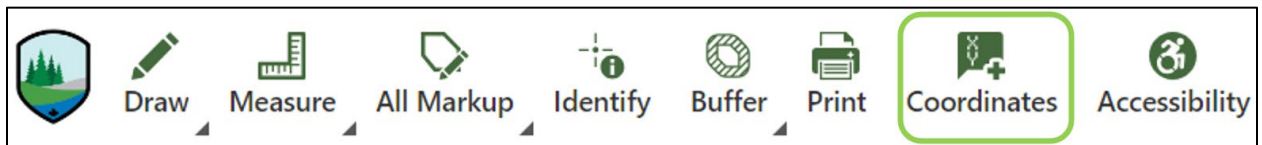
COMMON ACTIONS

How to Turn On Zoning

1. Zoom to your area of interest on the map and click the **Layers** button at the top of the Side Panel Menu, on the left-hand corner of your screen
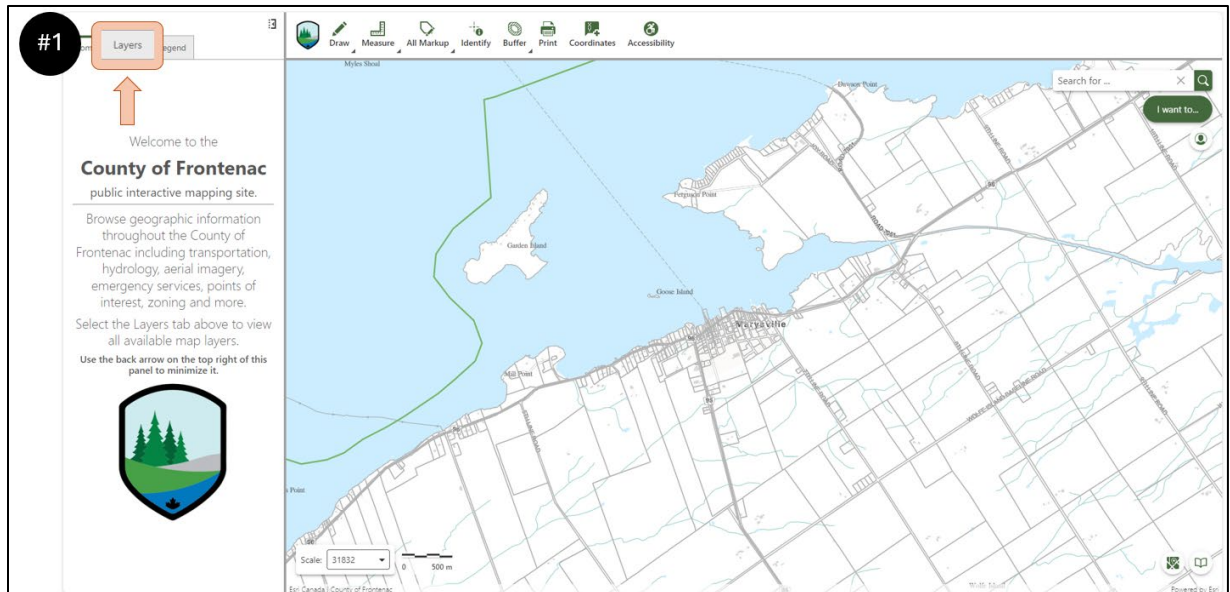

2. Click the arrow ⟩ next to **Zoning** to expand the options. Make sure **Zoning** is checked ✅. Click the check box next to one of the zoning sublayers to turn it on and display it on the map. The zoning sublayers will already be activated. Check the box to turn them off if desired.
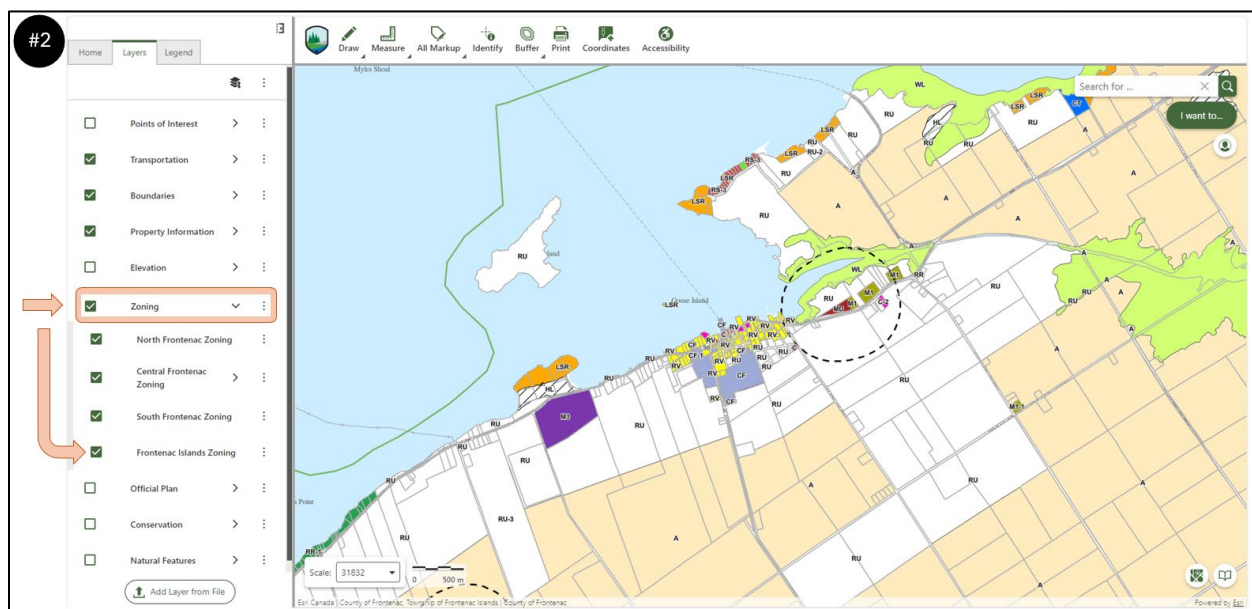
3. Each Zone shown on the map has a different colour and code associated with it. Clicking the **Legend** Tab will display the legend for that particular Township.
   a. Please take note of the **full name** and **letter code**
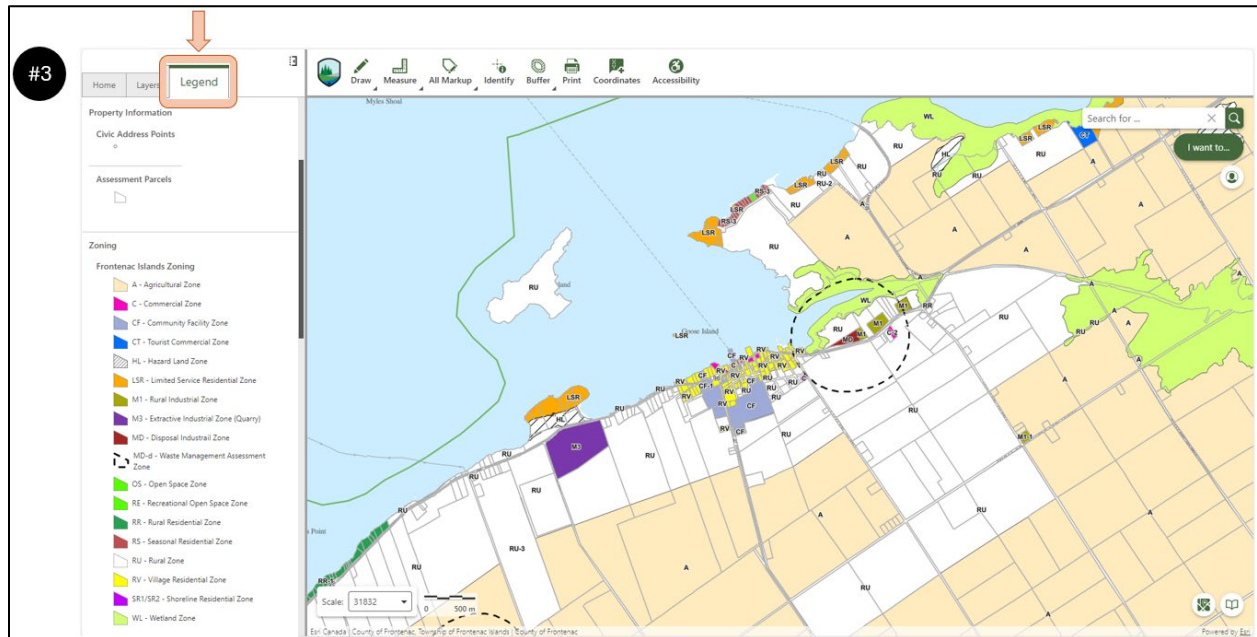

4. The Zones on the map will display and cover all the other features of the map. To make the zones more transparent, select the three dots next to **Zoning** and drag the green circle under Layer Transparency left or right. The transparency for individual zoning sublayers can be adjusted in the same way.
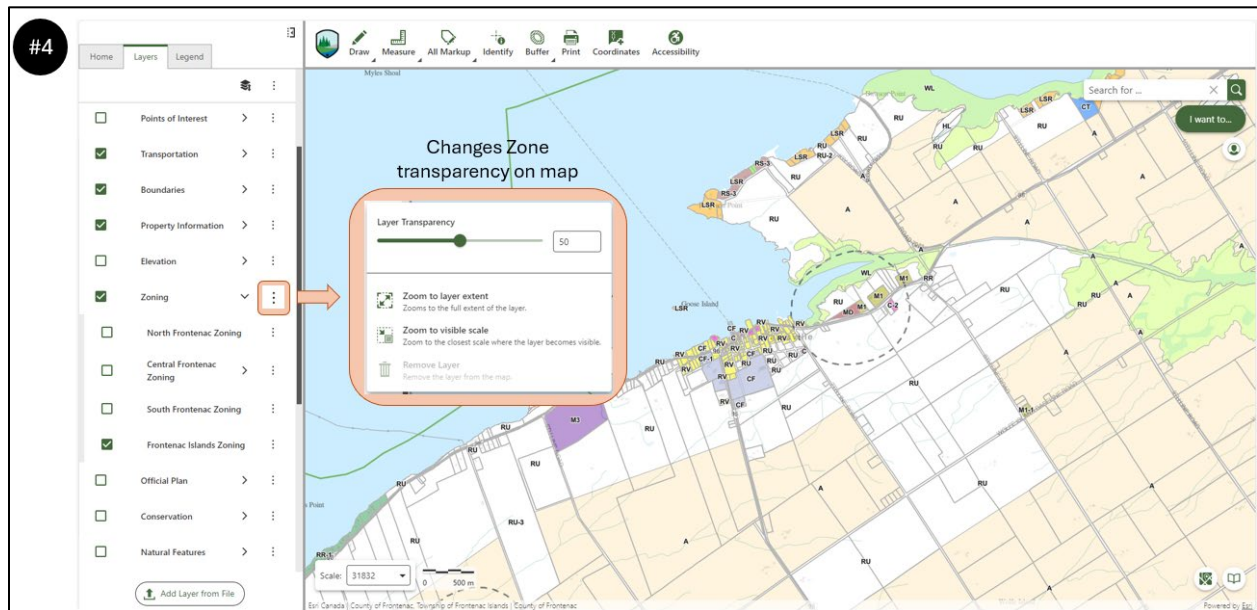

5. You can open the Zoning By-Law document specific to each Township (ie. FI Zoning). Select the **Identify** Tab and click on a zoning feature. The Identify result will appear in the Side Panel Menu.

Clicking on the result directly will open details of the zoning feature. Click on the link under the External Links heading.
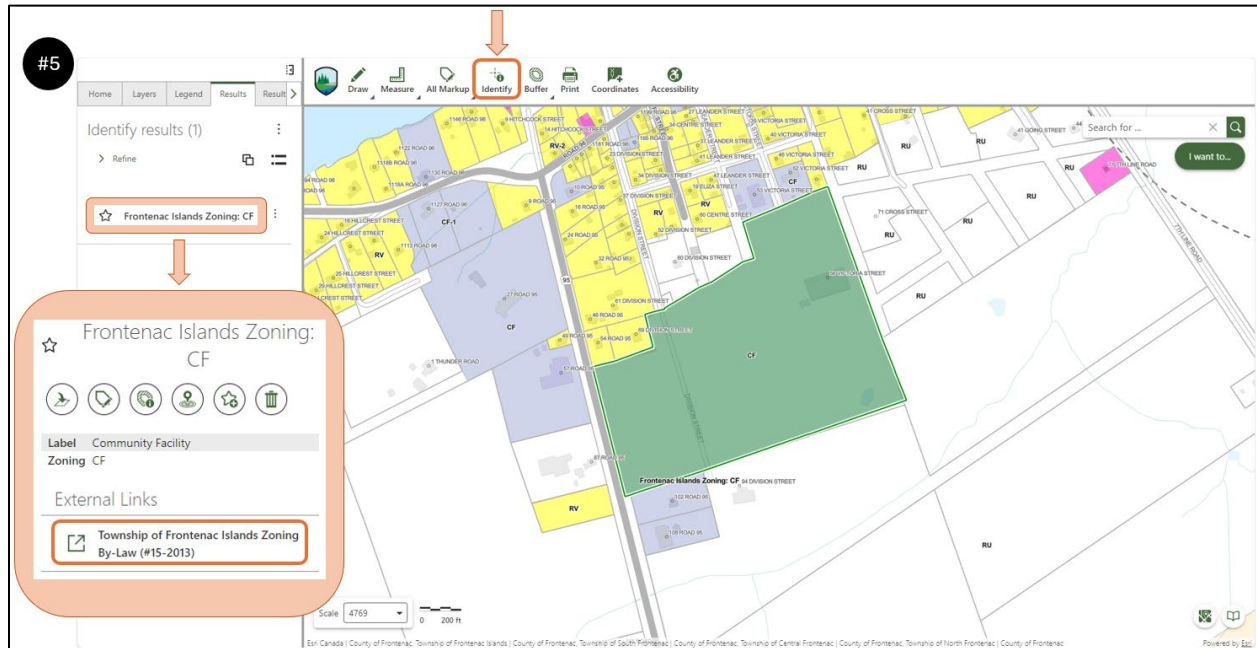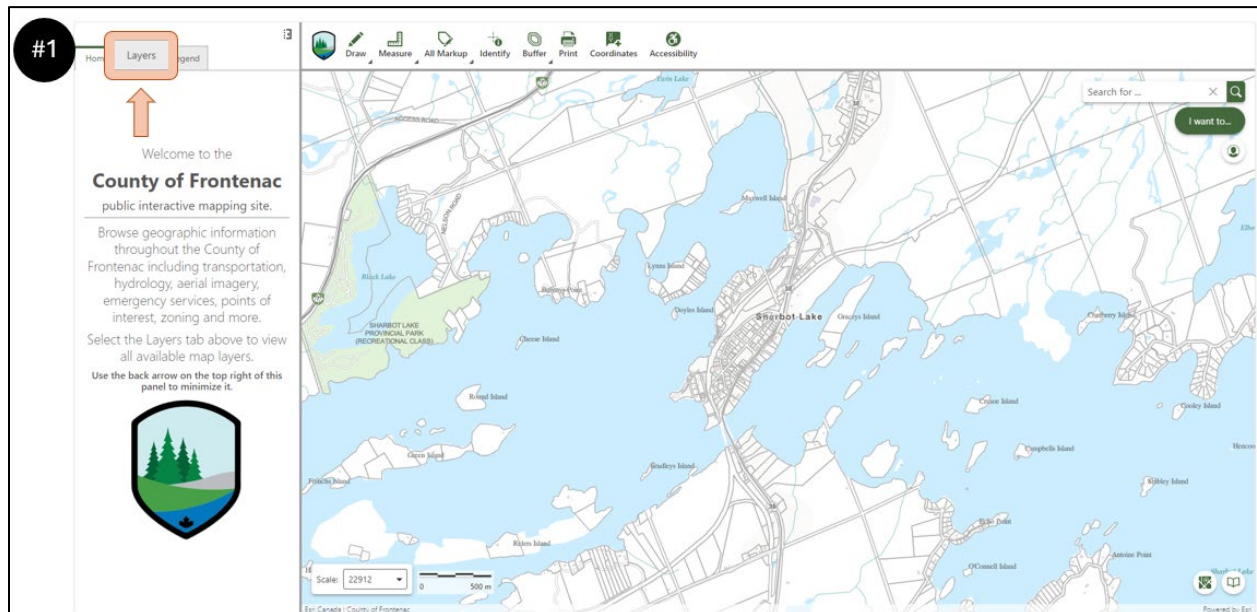

6. The link will open the corresponding Township webpage containing the Zoning By-laws. In this example, the Township of Frontenac Islands.
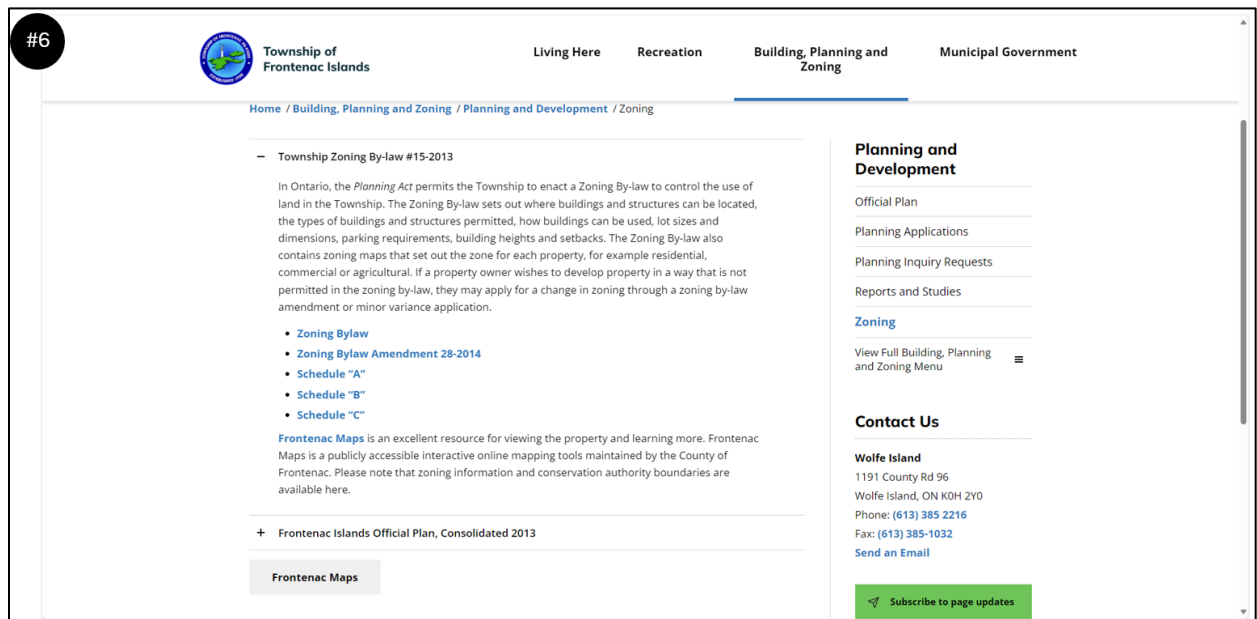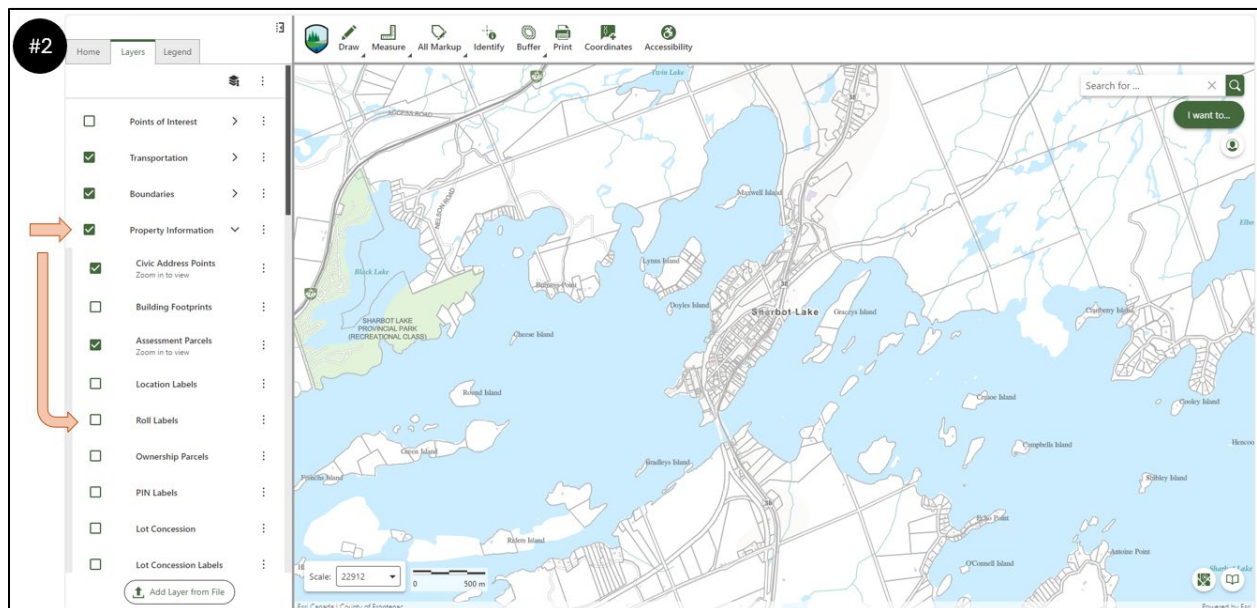
Find Your Roll Number

1. Zoom into or search for the area of interest and click the **Layers** button at the top of the Side Panel Menu.

2. Click the arrow ❯ next to **Property Information** to expand and show the different sub layers.


3. Click and place a check mark next to the desired label, such as **Roll Labels**. This will display the Roll number for each property. If the roll numbers do not load immediately, zoom in closer to the area of interest. Some layers will not display on the map when zoomed out too far.
4. Alternatively, click on the parcel you are interested in and the roll number will be shown in the Results information.
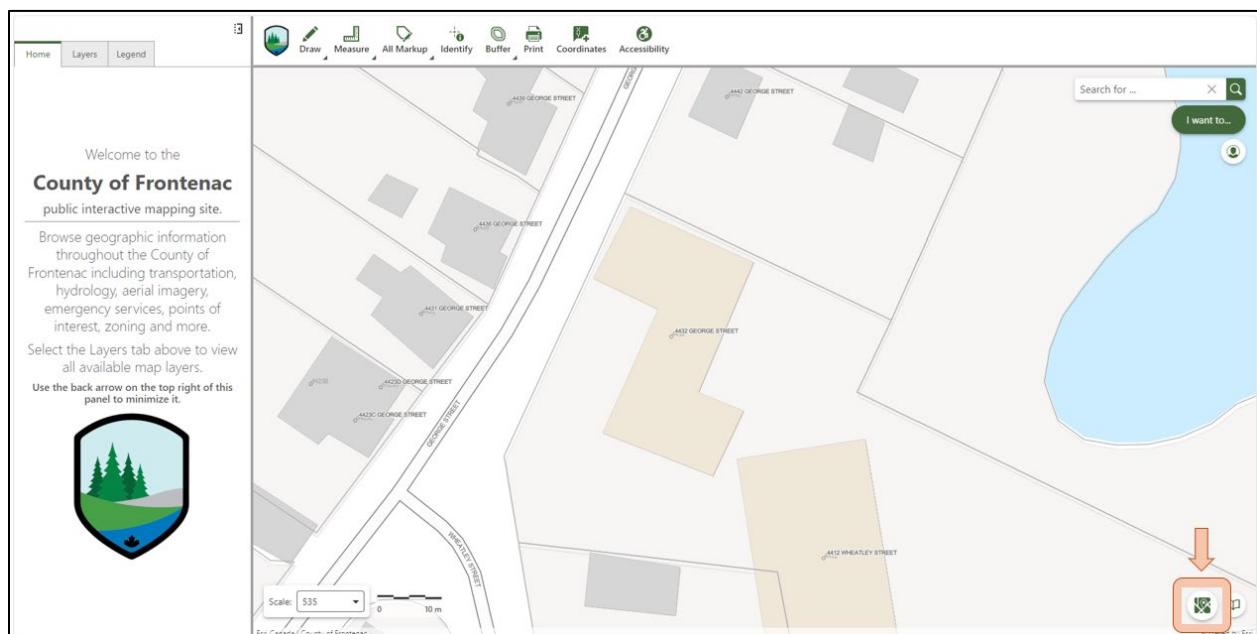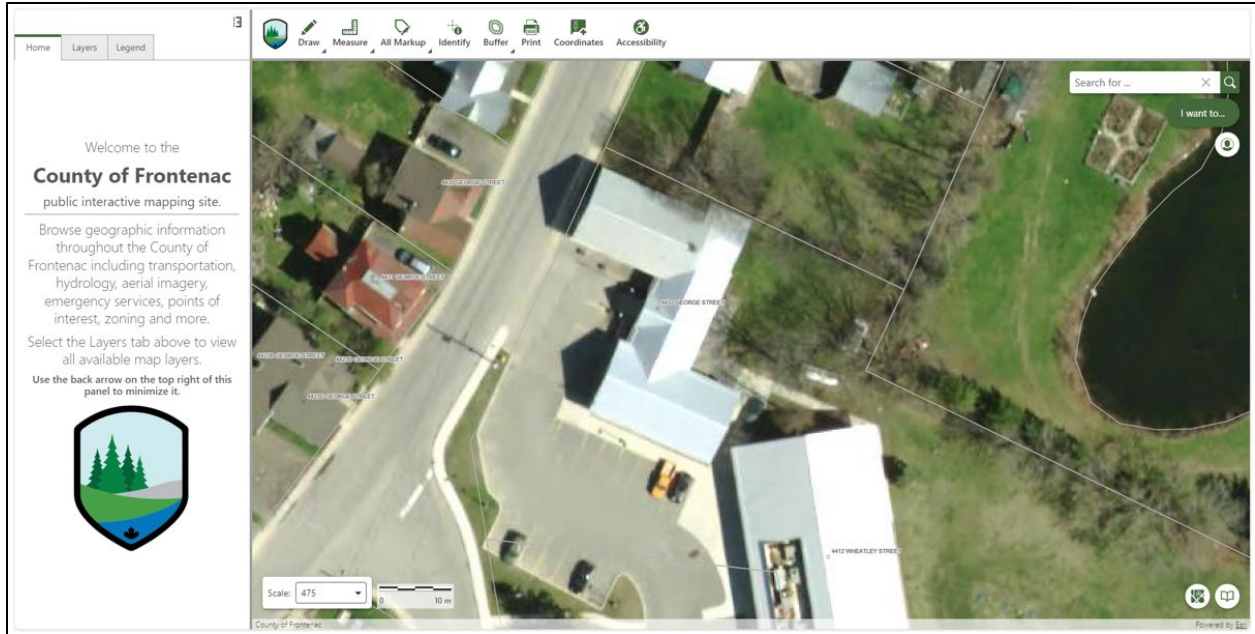
Drawing on the Map

As an example, let's say you want to measure the area behind the South Frontenac County Office.

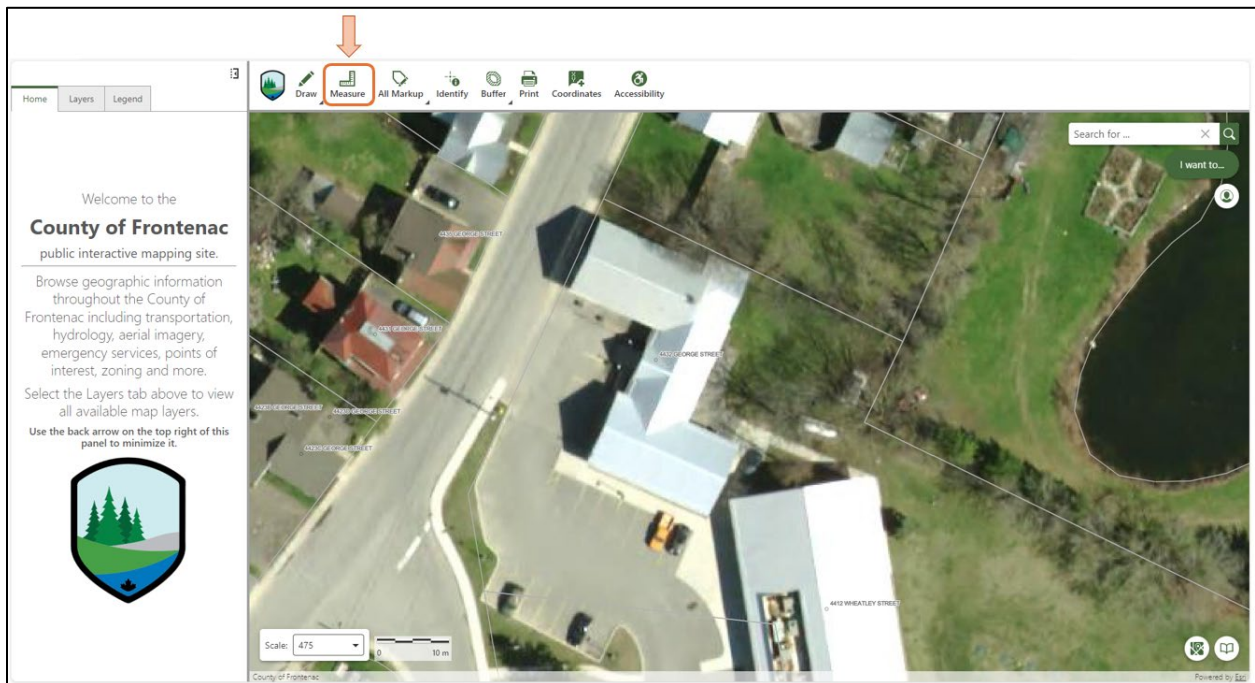1. Zoom to the area of interest, in this case the municipal office building.
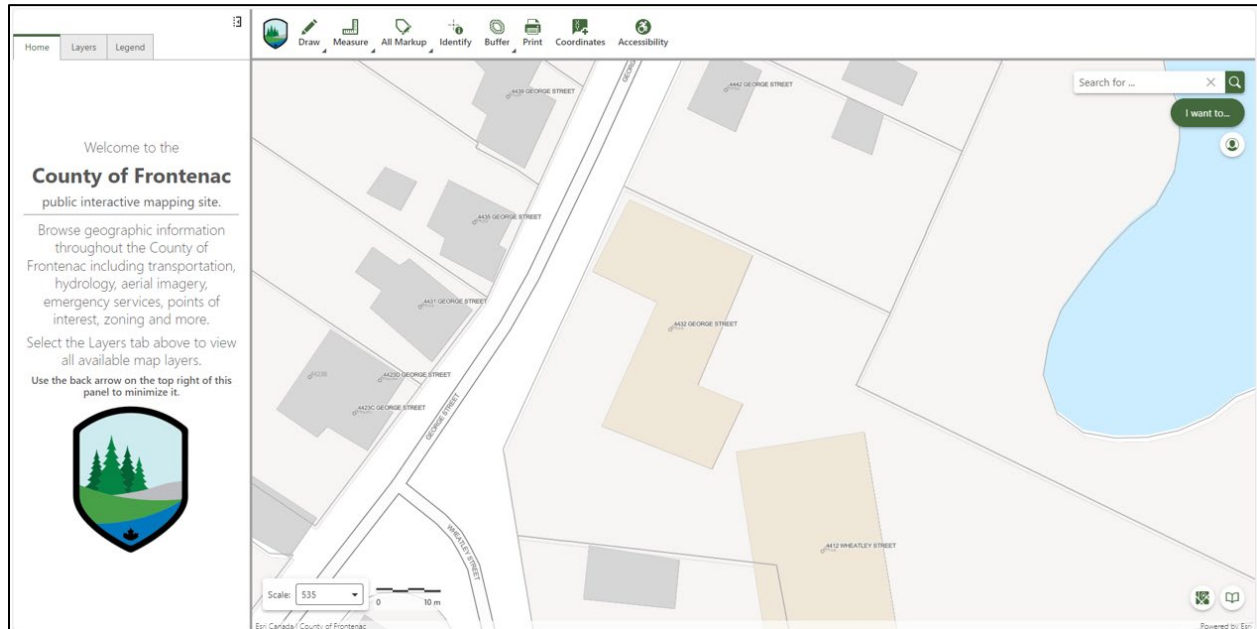
2. Maps can be viewed with or without satellite imagery. To do this, select the **Show Basemaps** button in the bottom right part of the map viewer and choose 2008 Imagery or 2014 Imagery.

3. Look at the Toolbar Tabs and choose **Draw**, **Measure**, or **Identify**

a. **Draw** will create shapes on the map, but without any measurements
b. **Measure** will create shapes (Line for Length and Polygon for Area) and provide the units of whatever shape is drawn on the map
c. **Identify** will can provide property information for the specific area selected using one of the tools

Select Distance or Area first:

- o **Length:** will allow you to draw a line on the map to measure length
- o **Area:** will allow you to draw a polygon on the map to measure area of an area of interest. To draw the polygon, click on the map, drag your mouse and click again to add a vertex. Double click to finish
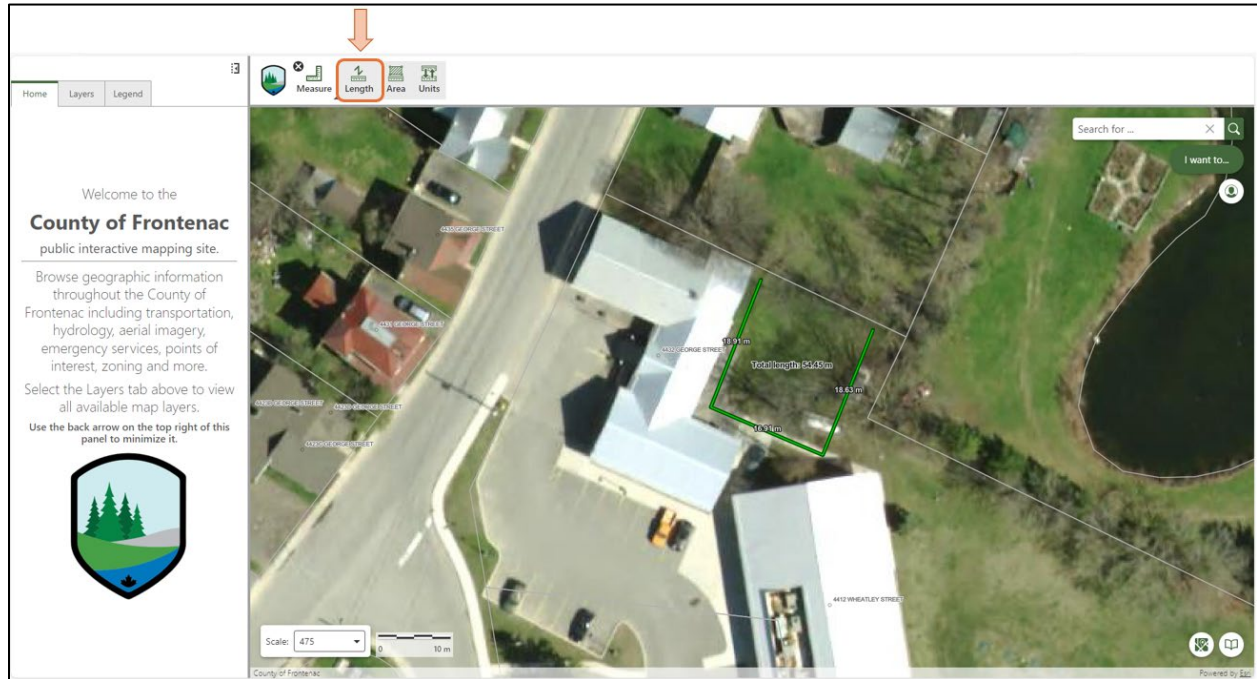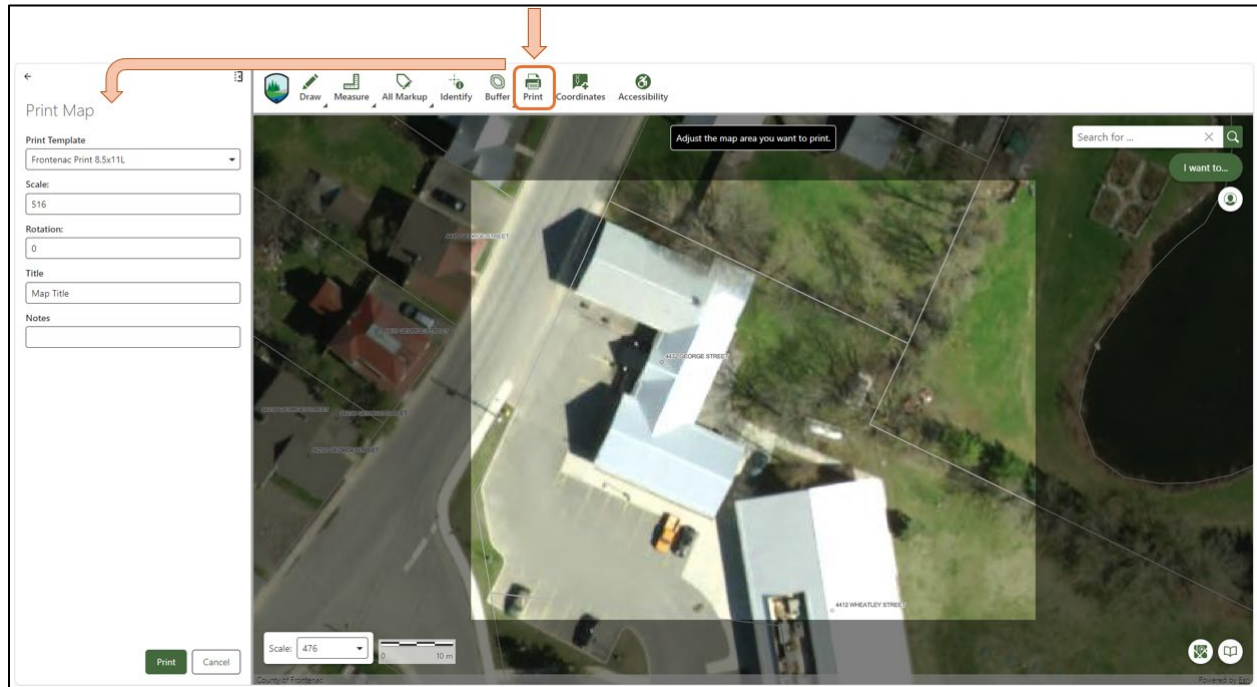
4. To erase any shapes drawn on the map, go to the **All Markup** Tab and select Clear Markup to clear all shapes. Or navigate to the **Draw** Tab and use Edit Markup to select and delete individual shapes
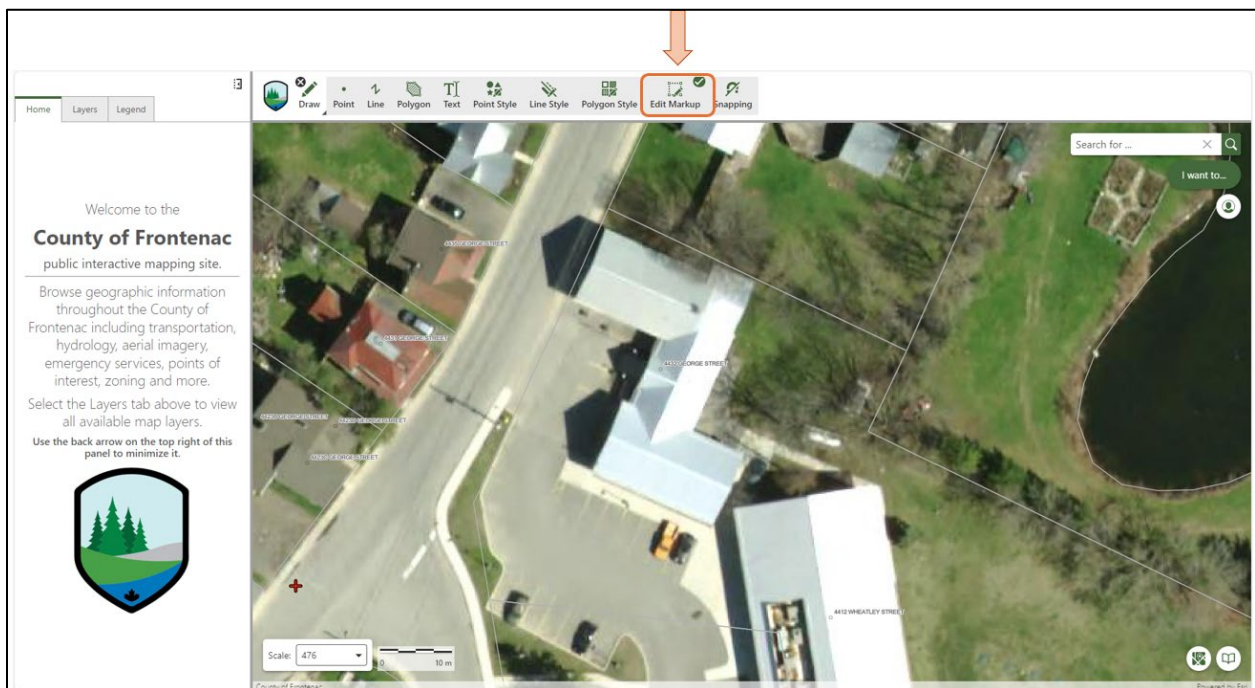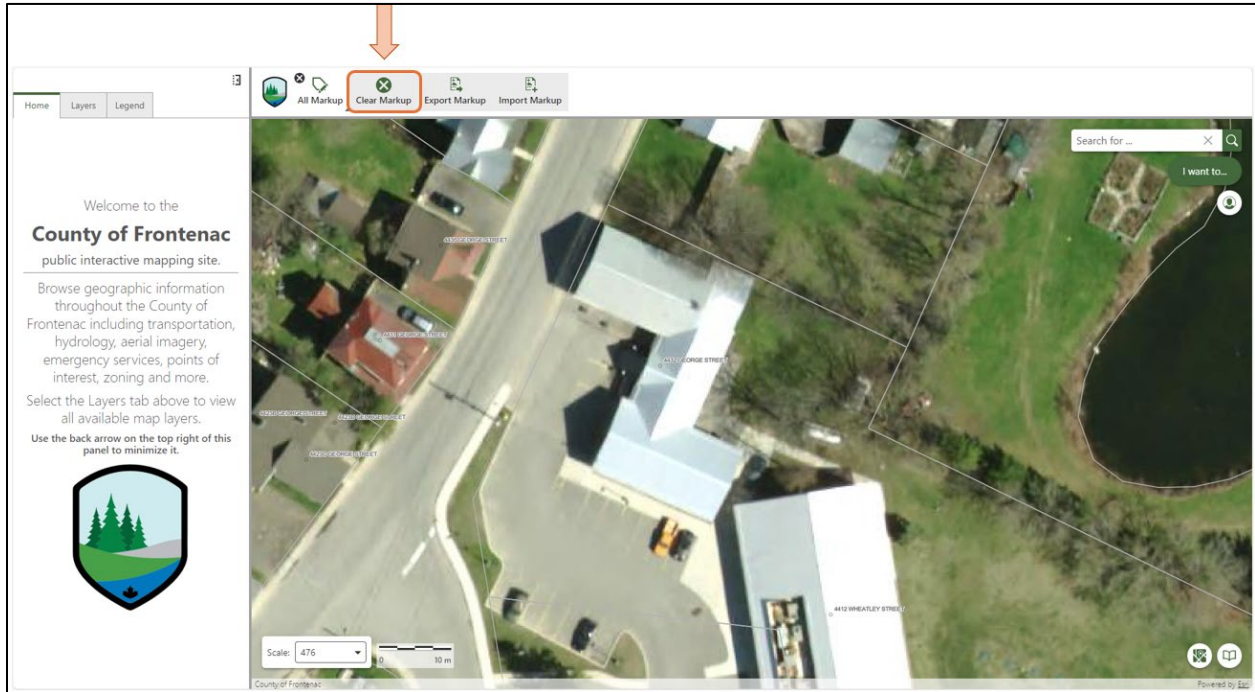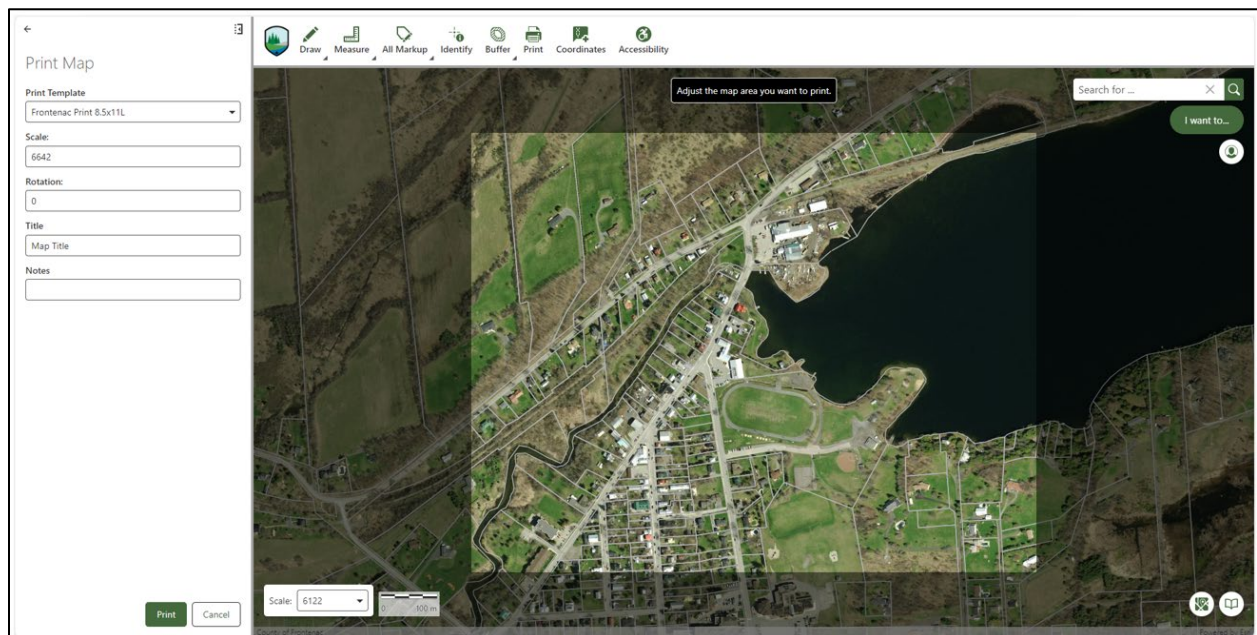
Printing a PDF

1. Select the **Print** Tab. A pop-up will appear in the left Side Panel Menu

2. Everything in the highlighted area will be saved to the PDF. Make sure to zoom out to include some of the surrounding area, such as the neighbouring houses or street block.

3. Fill out the options that appear in the menu on the left-hand side. Map title and Notes will appear in a frame around the map. Then click **Print.**
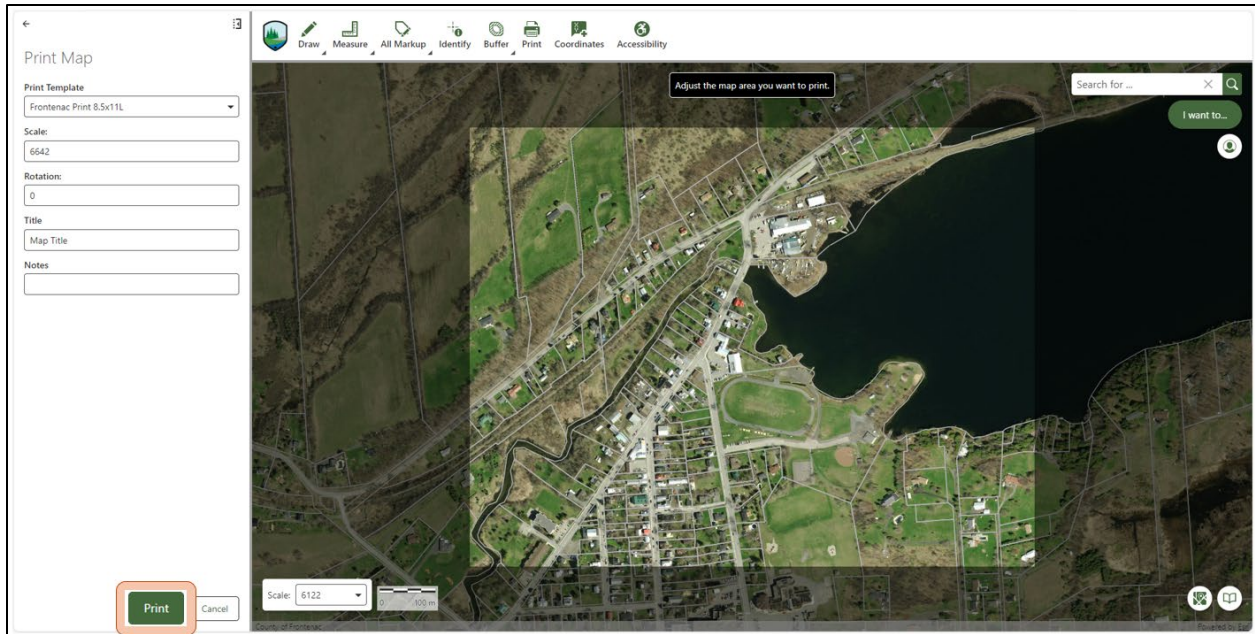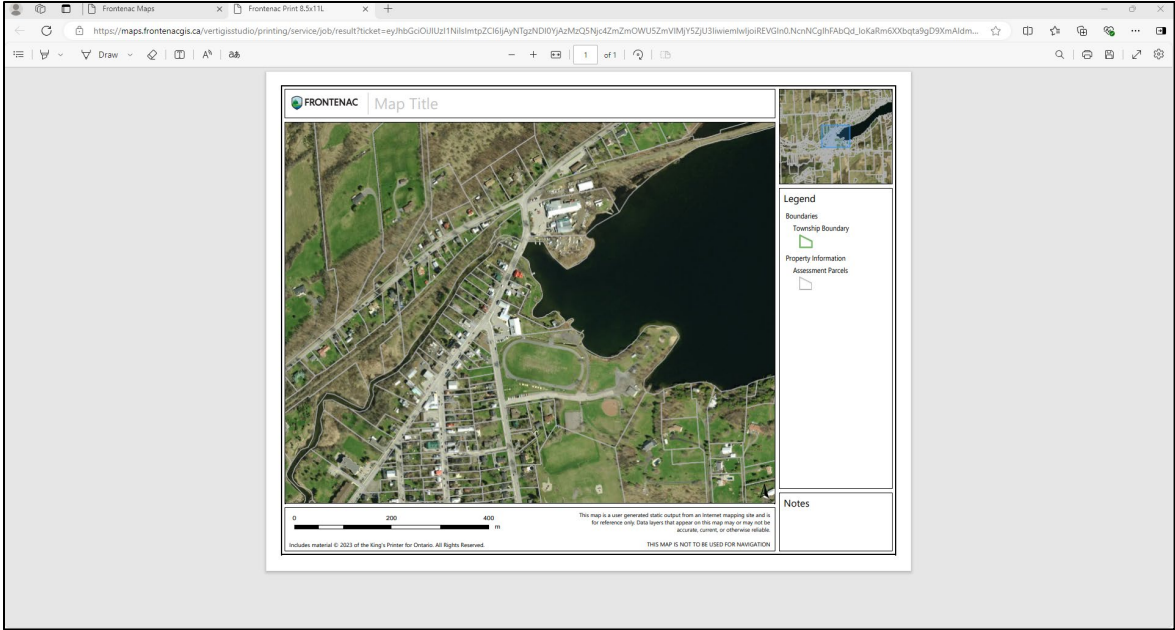
4. The Print Map pop-up will close, and a message will appear at the top of the Map Viewer indicating that the map is being processed.
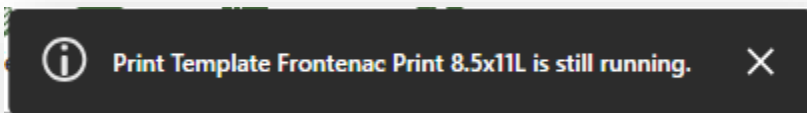
5. When the map has finished processing, a new message will appear. Select the **Click to download** link on the pop-up message.

6.   A new tab will open with the map result. The map can now be downloaded as a pdf.

Contact Us

If you can't find the answer to your question above, we would be more than happy to help. You can contact us at frontenacmaps@frontenaccounty.ca.

FRONTENAC