

2024

Managed Forest Plan Approver (MFPA) Guide to Mapping Applications

Ministry of Natural Resources and
Forestry (MNR)

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MFPA Guide to Mapping Applications

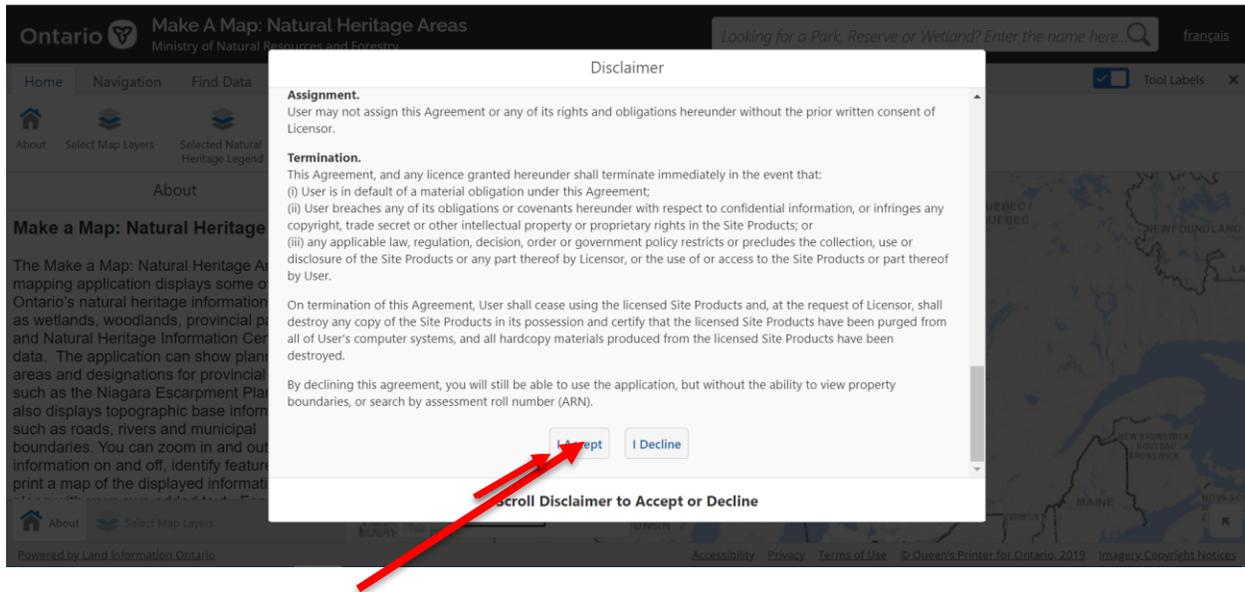
In this guide are four options for online applications which can be used to prepare maps for Managed Forest Plans. MFPAs are not required to use these – there are many other mapping resources and tools available. Many municipalities and counties have their own mapping applications which have property boundaries, zoning and other information, and there are other free online tools with many options for marking up and saving maps. MFPAs can also use any other applications such as Google Earth, ArcGIS, etc., but note that you’ll need the provincial applications, or municipal equivalents, to get property boundaries.

Ministry of Natural Resources

Make a Map: Natural Heritage Areas

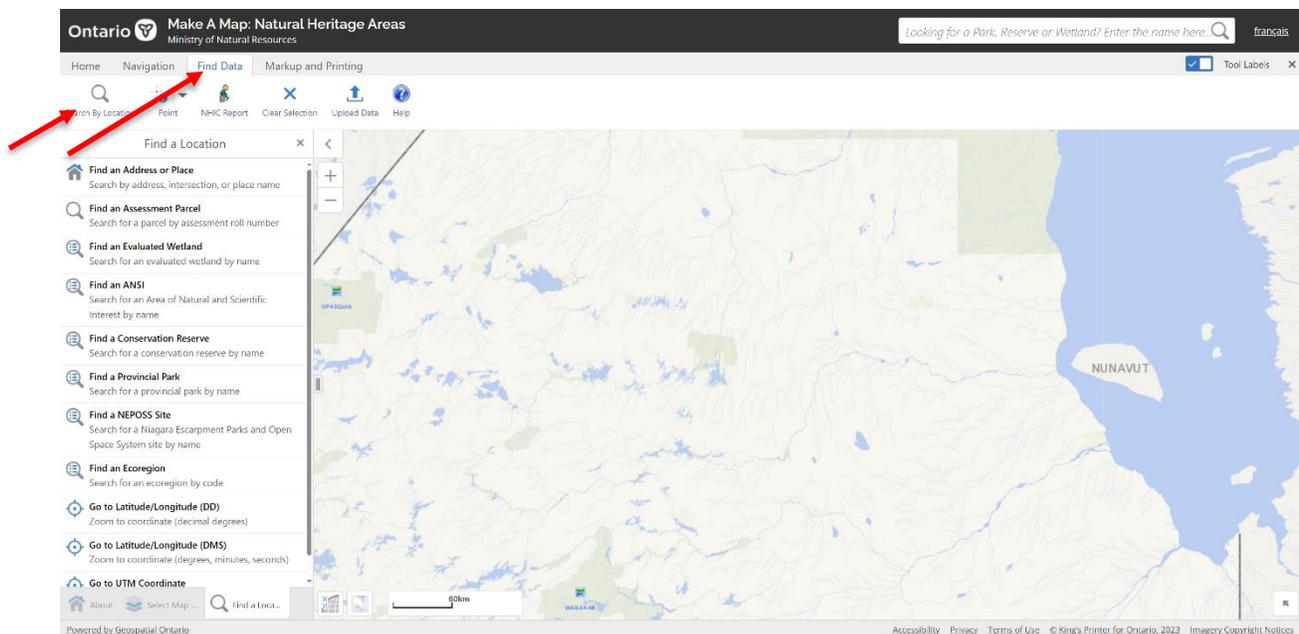
<https://www.ontario.ca/page/make-natural-heritage-area-map>

Step 1: Scroll through and accept the disclaimer.

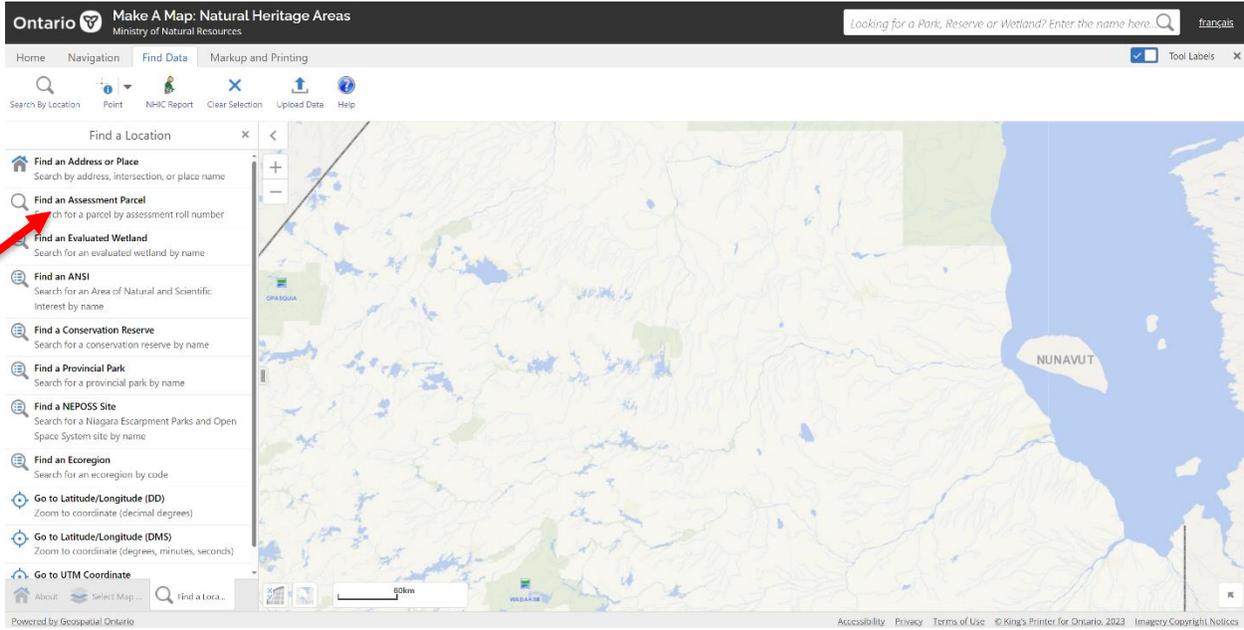


How to find a property by Assessment Roll Number (ARN):

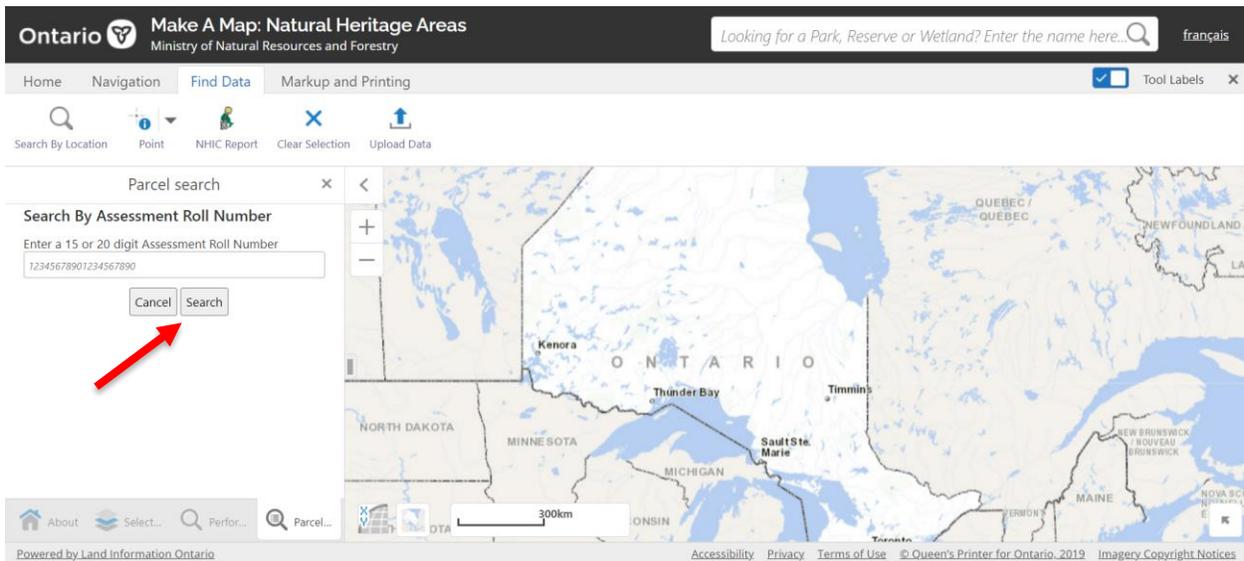
Click on 'Find Data' on top row then choose 'Search By Location.'



Select 'Find an Assessment Parcel' from the list of options.

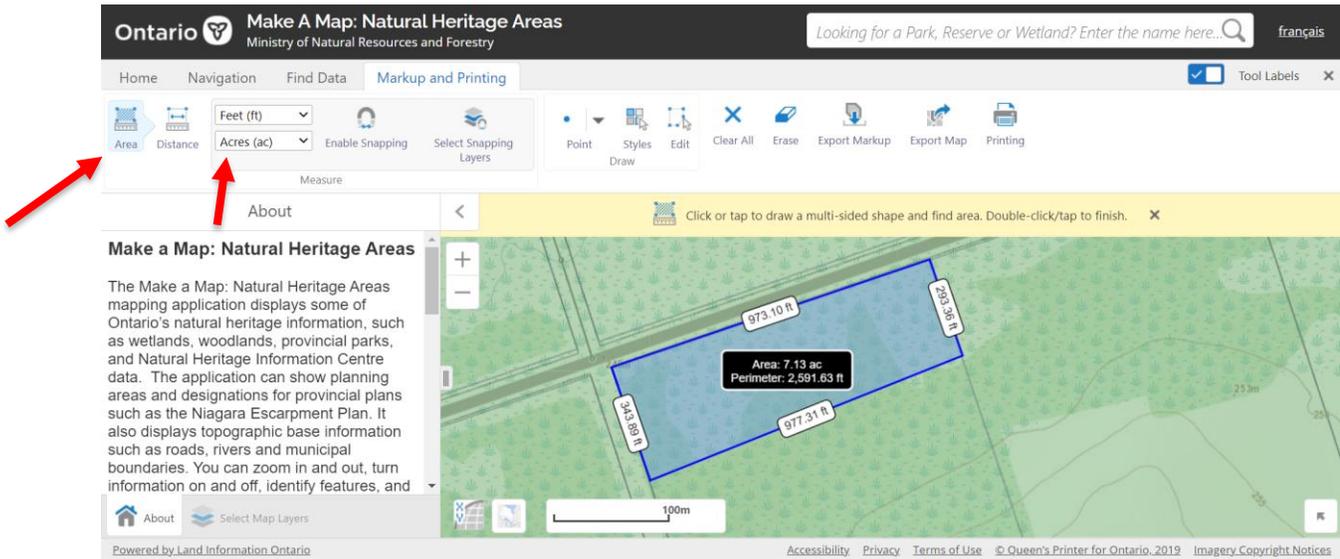


Enter the ARN number with no spaces and click 'Search'.



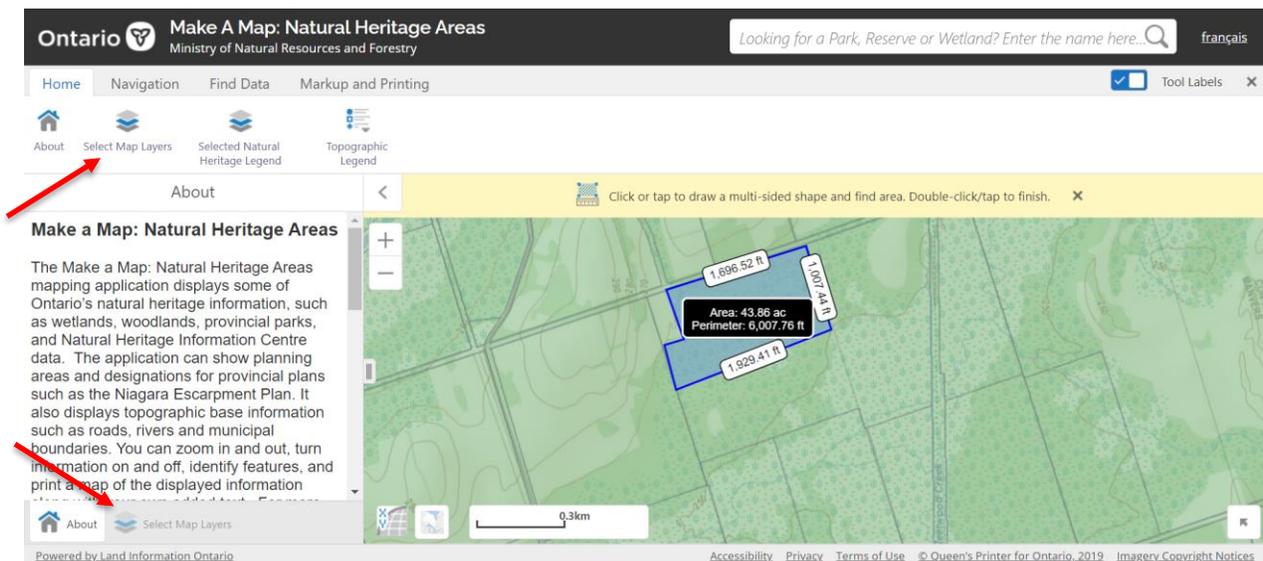
How to measure an area

Click 'Markup and Printing' on the top row, click on 'Area', change the units to 'Acres' and click on the map to begin drawing the area you want to measure. Click to add more points. When the area outline is complete double click to finish and see the total area of what you have measured.

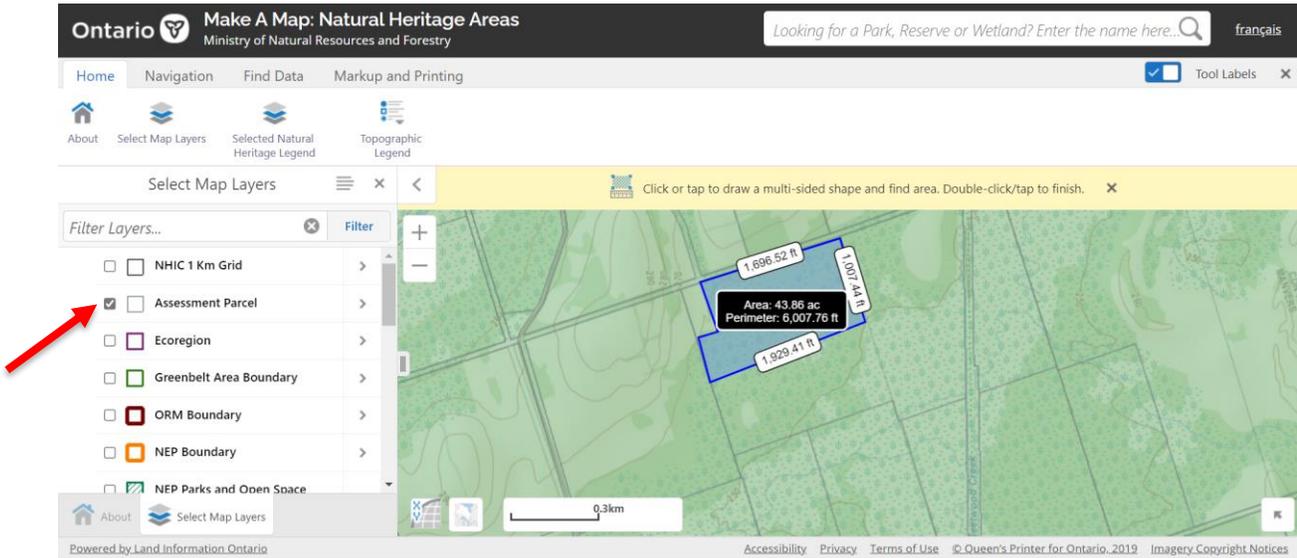


How to view/change map layers and identify CLTIP areas

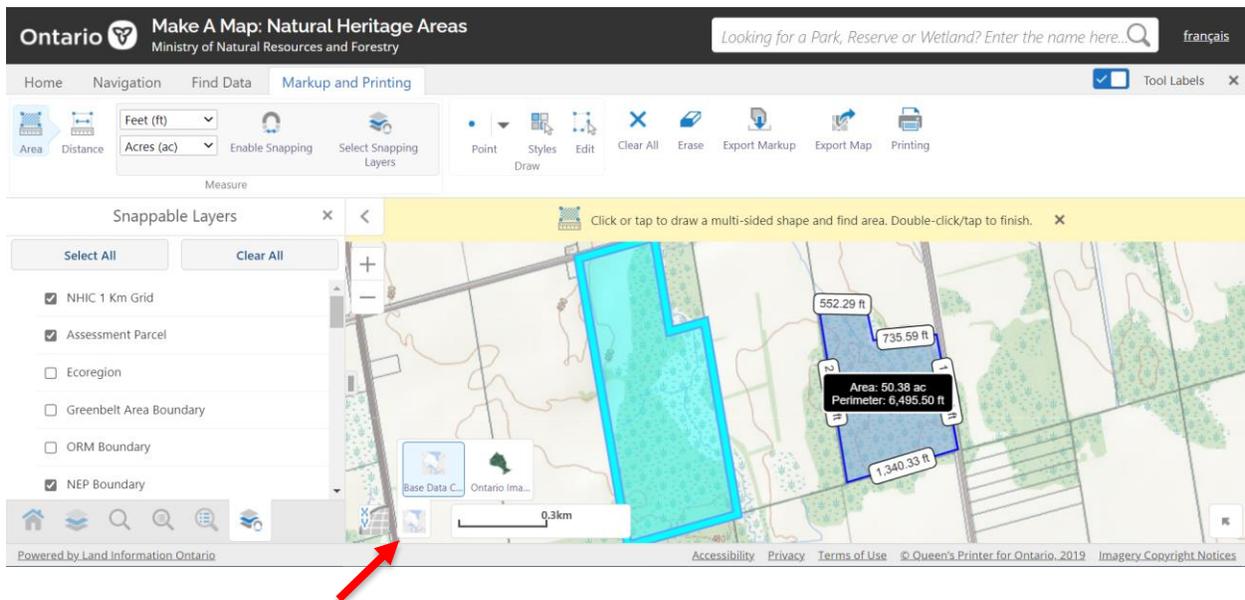
Under the 'Home' tab, you can click 'Select Map Layers'. You can view the 'Select Map Layers' button on the bottom bar within any of the other tabs as well. You can check off or on any layers you'd like to see.



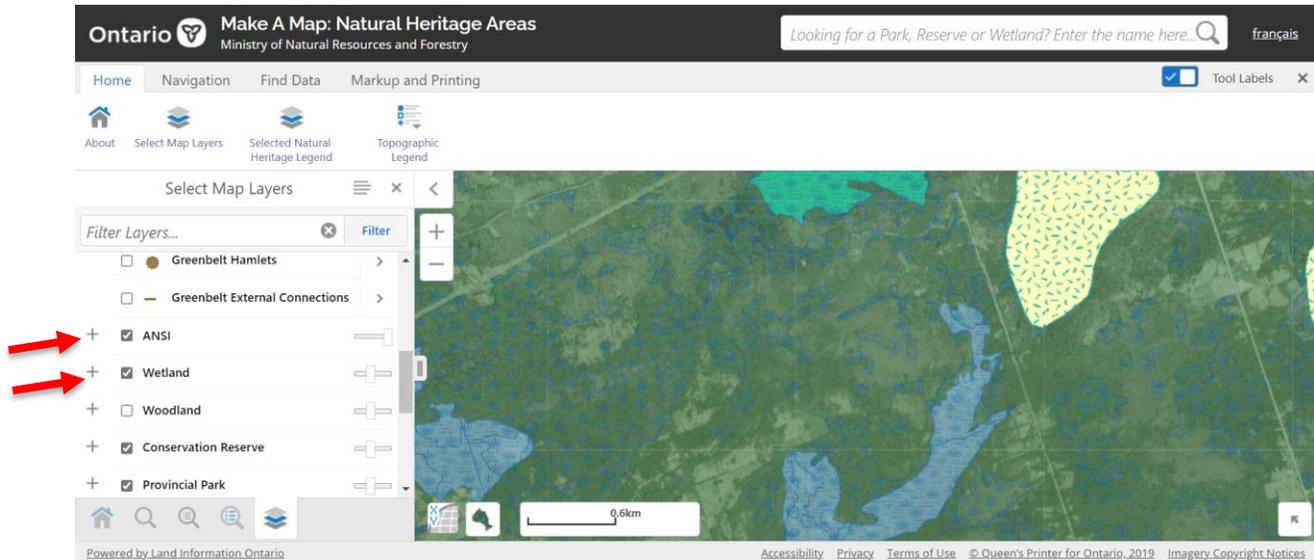
To turn on the 'Assessment parcel' layer, check the box beside 'Assessment parcel'.



To change between viewing satellite imagery and the topographic map, you can select your preferred view on the bottom of the map. The below example displays the topographic map layer. To view satellite imagery, you can select 'Ontario Imagery'.

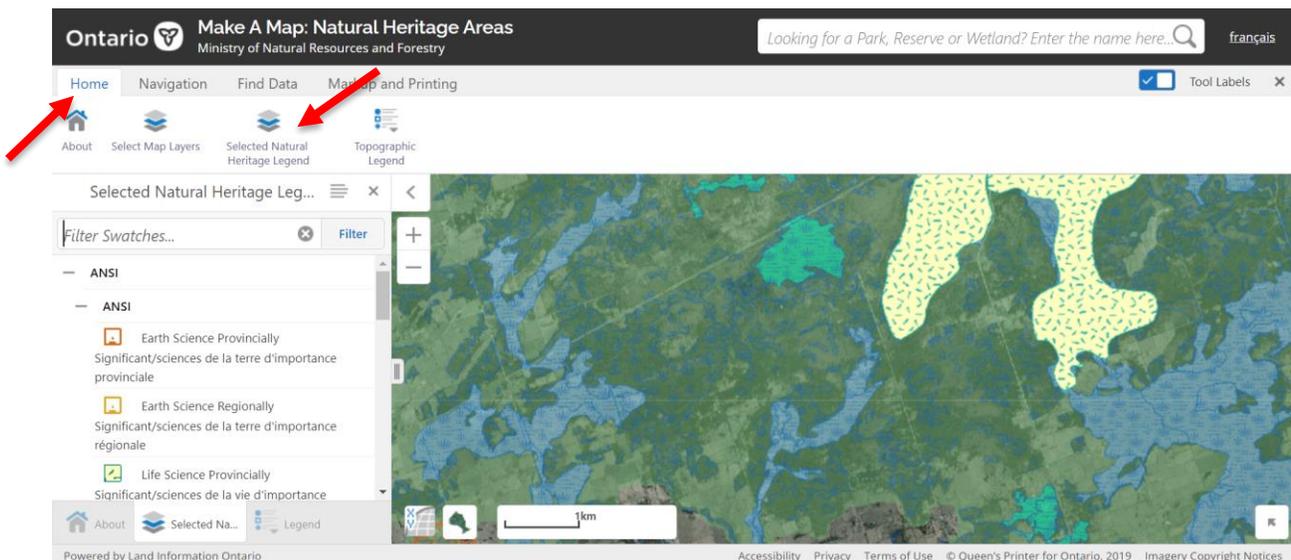


To check for Conservation Lands eligible for CLTIP, check the boxes beside Wetland, ANSI and NEP Land Use Designation to determine eligible areas. Provincially Significant Wetlands, Provincially Significant Areas of Natural and Scientific Interest and Escarpment Natural Areas are all eligible areas for the program.



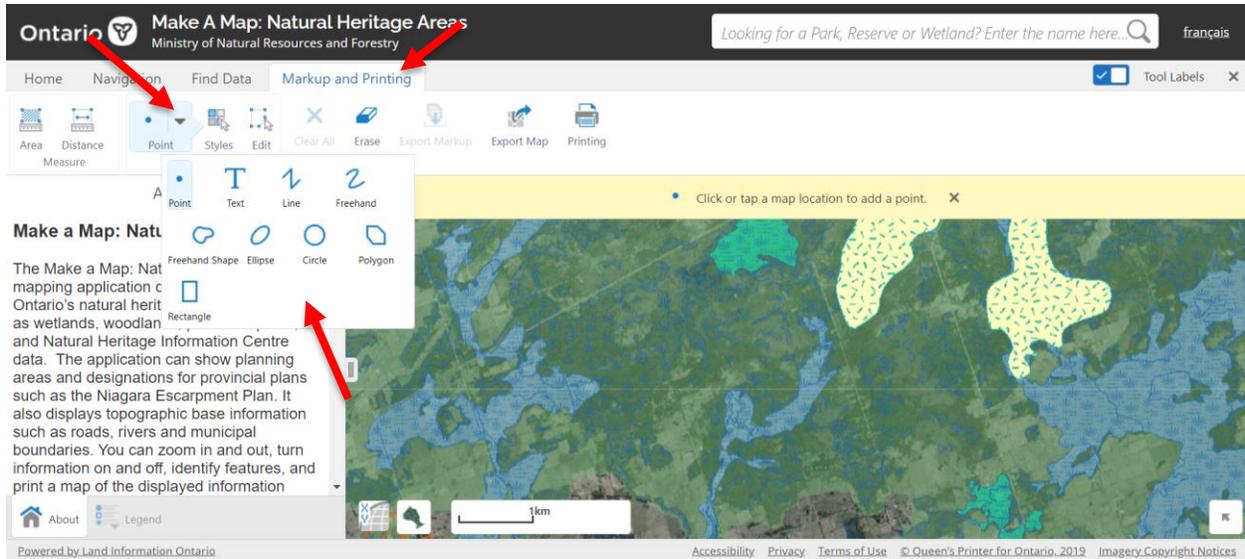
How to view the legend to identify features

Click on the 'Home' tab at the top then 'Selected Natural Heritage Legend'. You can view the topographic legend by clicking 'Topographic Legend'. In the example below, you can see the detailed legend symbology, and in the map view, the feature identified in blue is Provincially Significant Wetland (eligible for CLTIP) and the teal is Non-Provincially Significant Wetland that has been evaluated (not eligible for CLTIP).

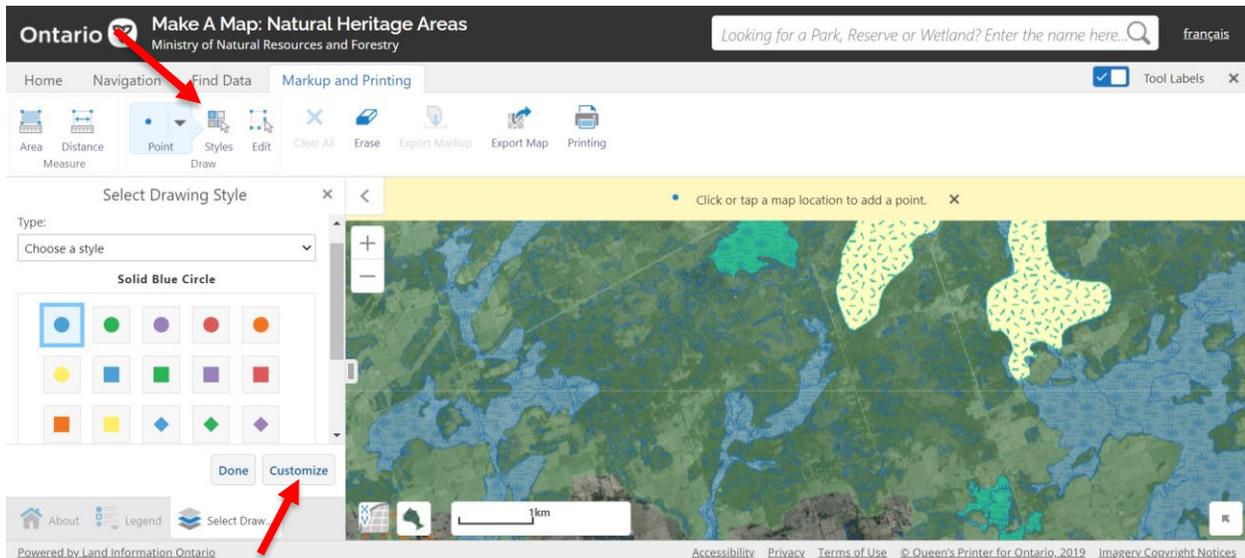


How to draw shapes or lines

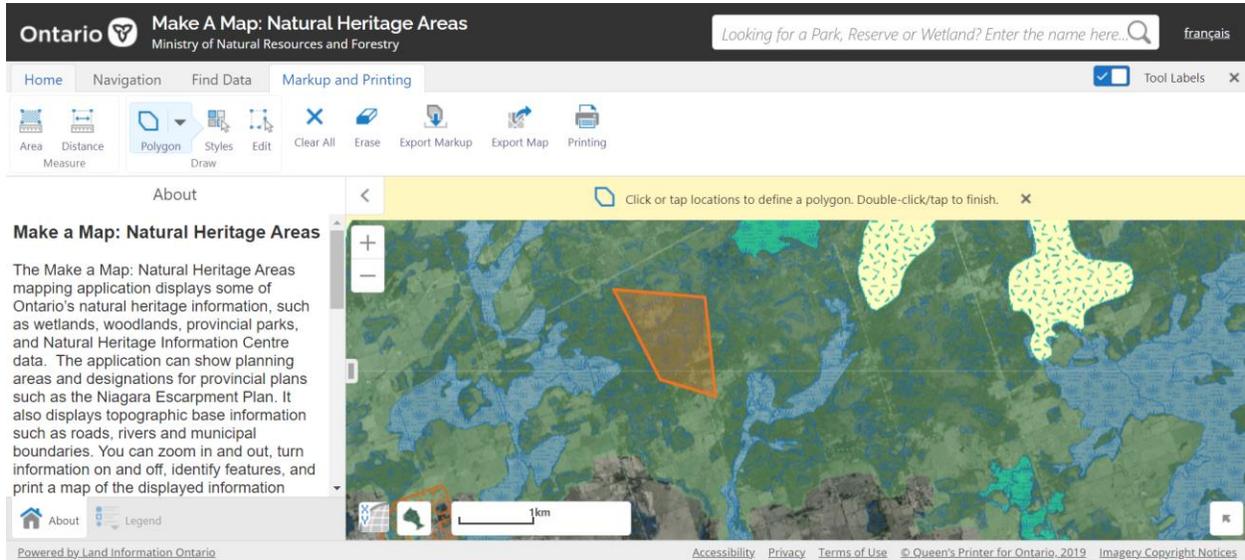
Go to the 'Markup & Printing' tab at the top. Click on the small arrow beside 'Point'. A selection box will appear for you to select the type of shape, line or text you want to add.



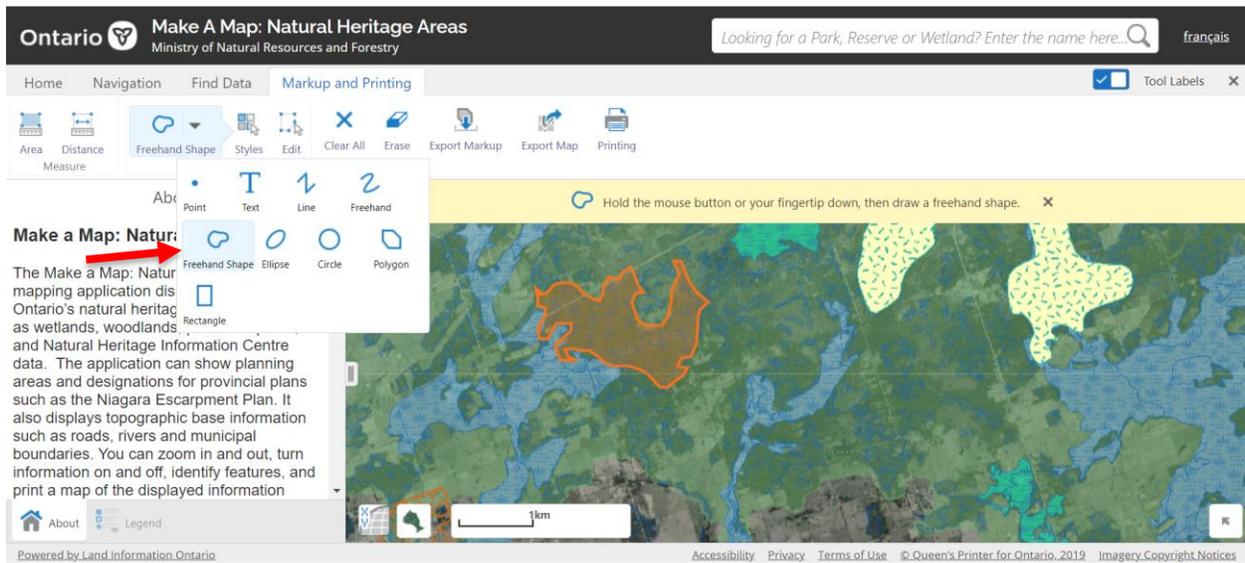
Before drawing your shape on the map, click 'Styles' to change the colour of the shape or line, or the size of the text. You can also customize your shape style by clicking 'Customize' and then 'Done'.



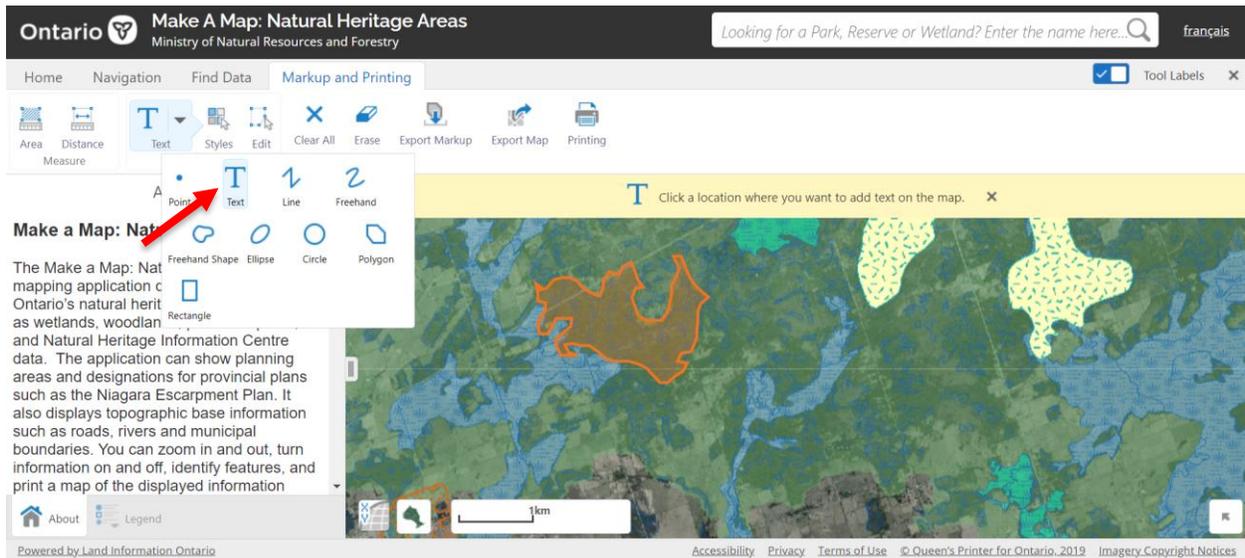
For a polygon or line, click where you want to begin, then move the mouse and click again to make another point with a straight line between the two points. Trace out the shape you want and then double click to finish.



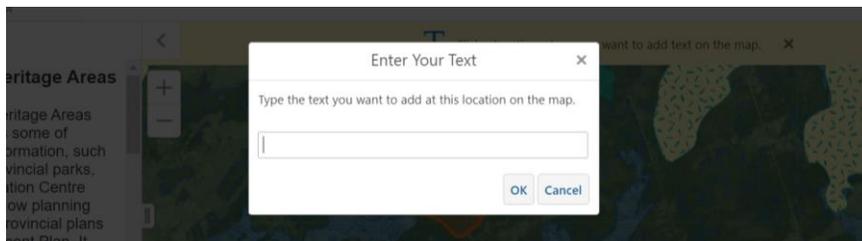
For a freehand line or shape, select 'Freehand Polygon' then click and hold to trace the shape you want to add. Release when finished.



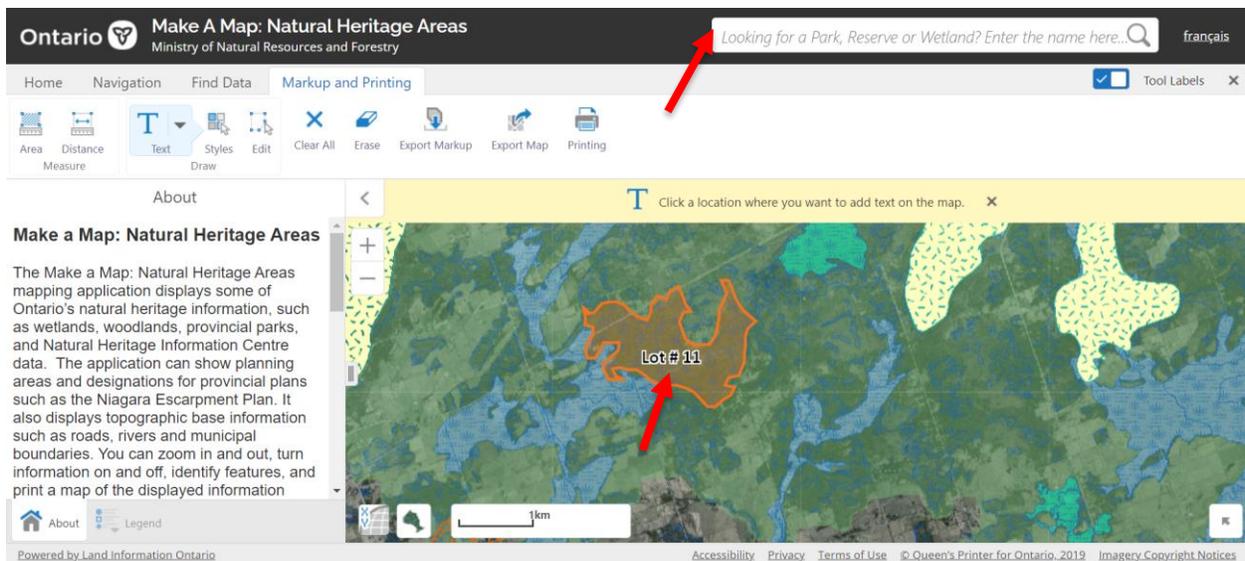
To add text, select 'Text'. Click on the map where you want the text to go.



Type your text into the box and click 'OK'.

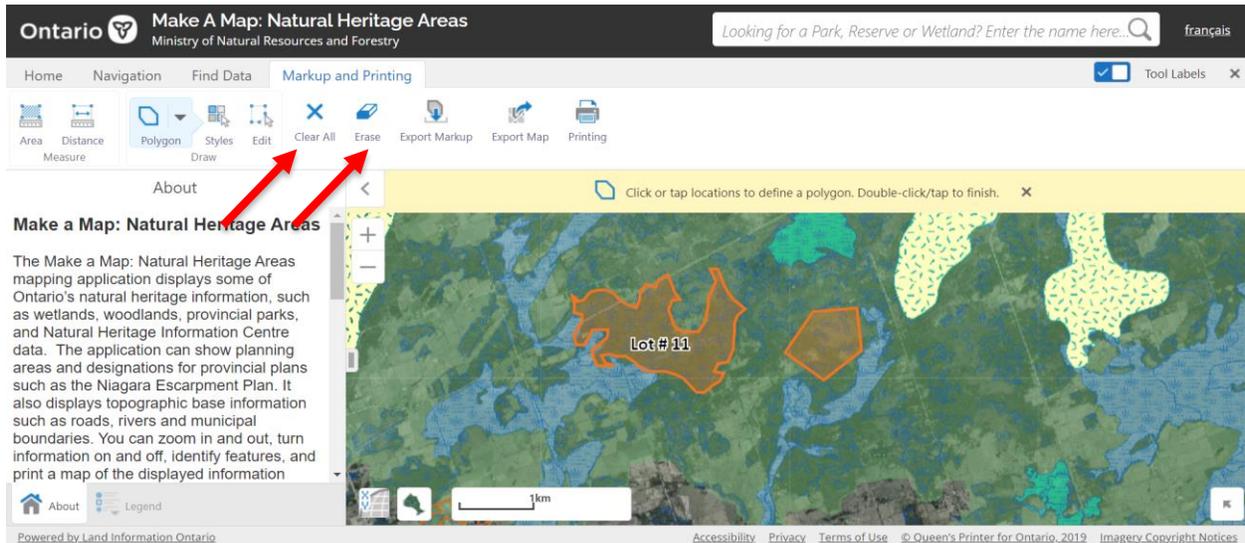


Here is an example below:



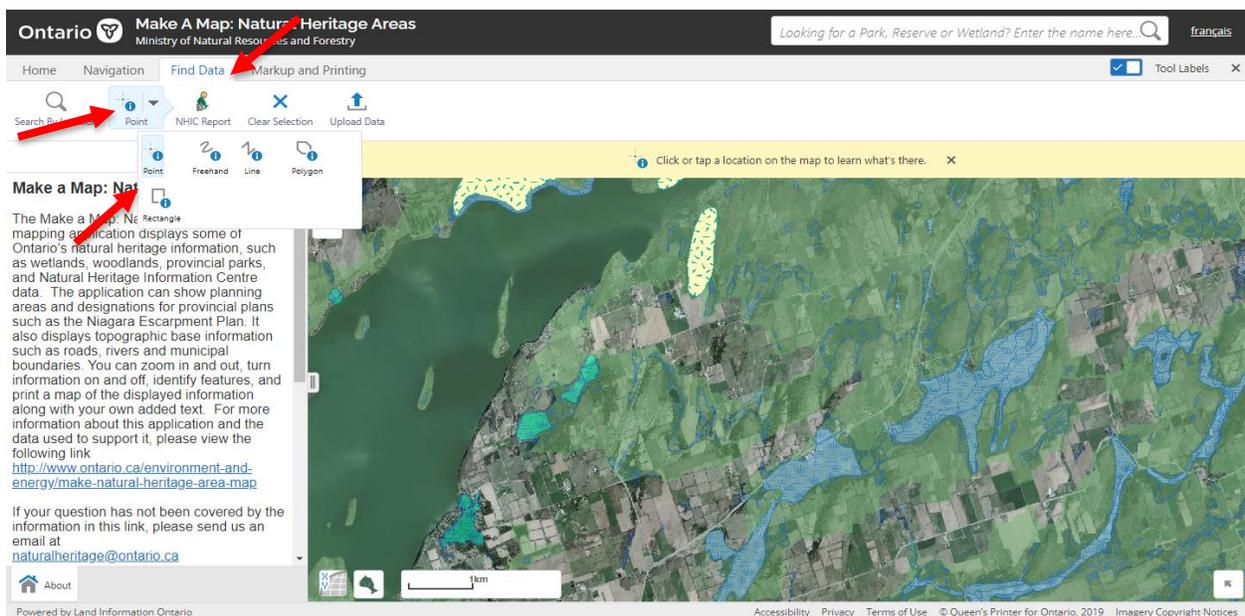
How to erase a shape, line or text

To erase a shape, line or text you have added, click “Erase” and then click on the object you want to erase. To clear everything you have added, select ‘Clear All.’



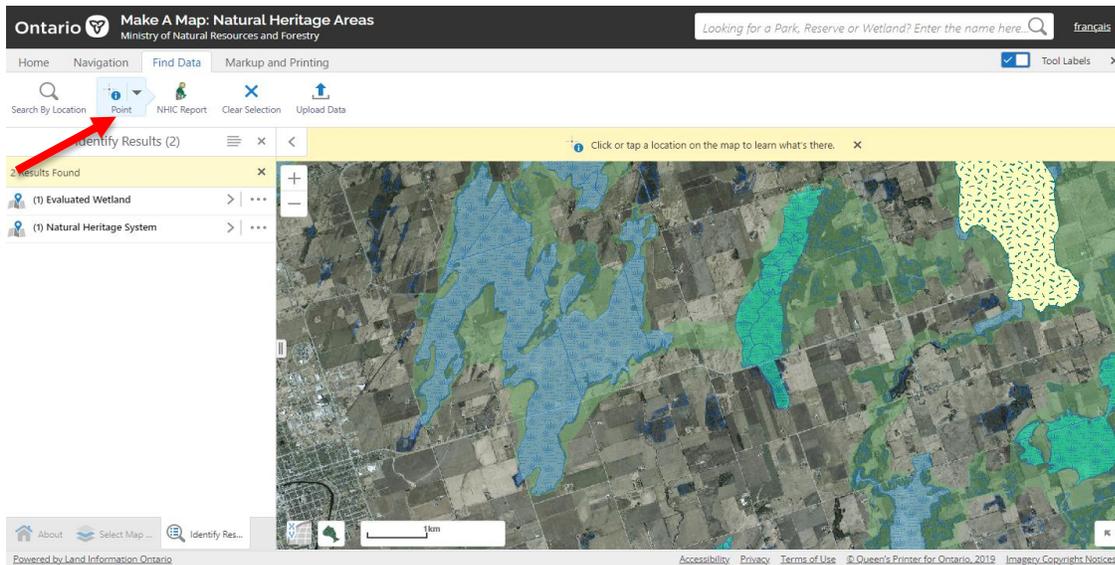
To find information about natural heritage features or species at risk

Click the ‘Find Data’ tab at the top, then click ‘Point’. Click ‘Point’ from the options that appear to find information at a specific point on the map.

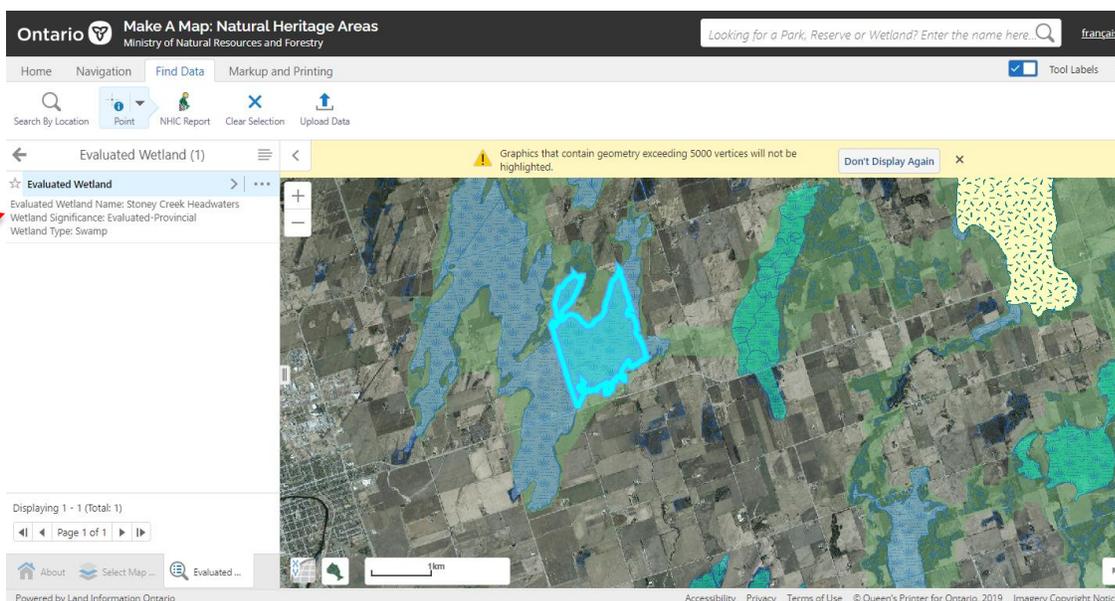


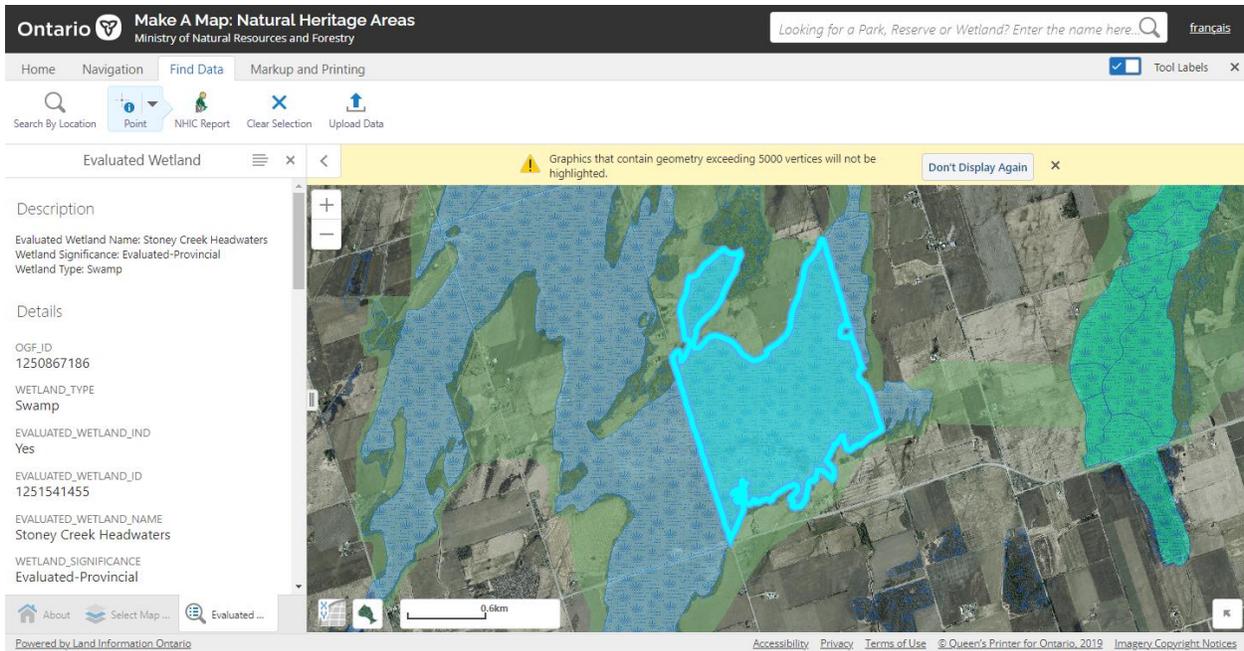
Click a point on the map which you want to find information for. Only information in layers that are checked 'on' in 'Select Map Layers' will be displayed. For example, to see information about a Provincially Significant Wetland, you will need to have the wetlands layer turned on.

After you click a spot on the map, a list of results will open with the type of information at that spot (e.g., 'Natural Heritage System', 'Evaluated Wetland', etc.) Click on the tabs on the left to see detailed information about the different data (e.g., 'Natural Heritage System', 'Evaluated Wetland', etc.)

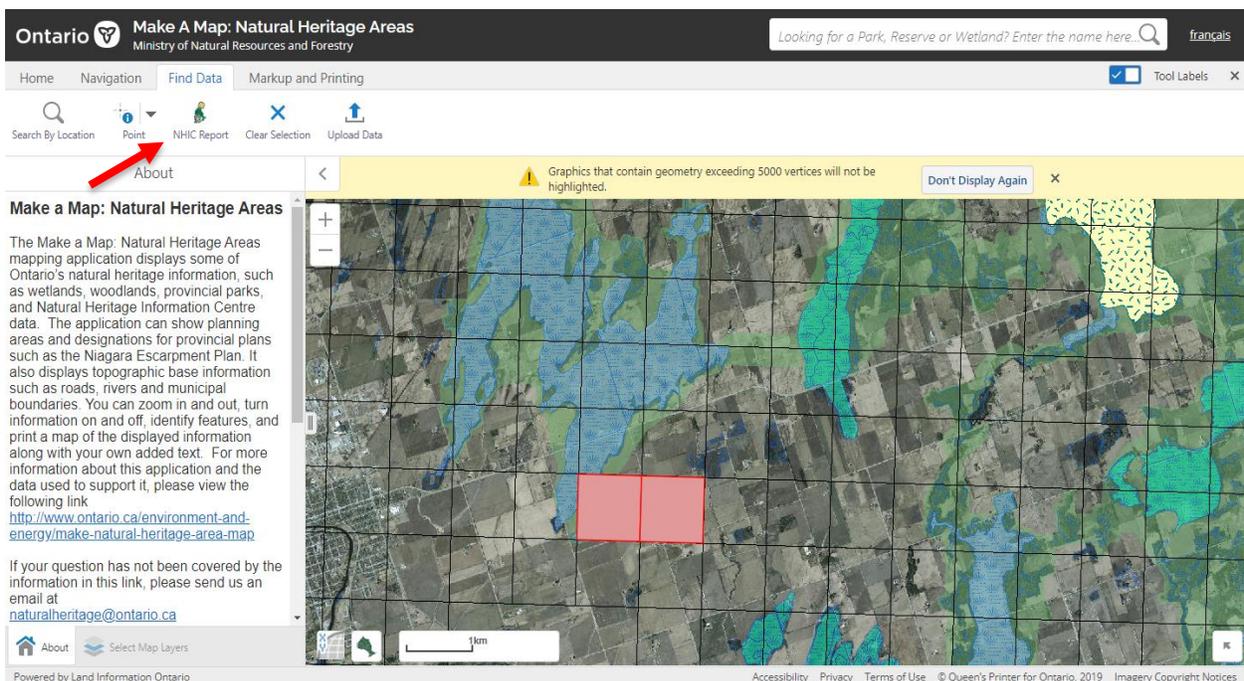


By clicking on the result tab, the map will highlight the selected feature on the map and provide you with a detailed list of information about the feature.





To see data from the NHIC on species at risk which have been observed in the area, you will need to have the “NHIC 1 km Grid” layer turned on. Then click ‘NHIC Report’ at the top. Click and drag across the preferred area of the map to create 1 km square grids.



A list of species or natural areas will open in a new tab with all the detailed information. The list will show the name and the status of the species (e.g., threatened, endangered, special concern) under both SARO and COSEWIC. Here is an example:

Ontario Make A Map: Natural Heritage Areas
Ministry of Natural Resources and Forestry

Looking for a Park, Reserve or Wetland? Enter the name here... francis

Home Navigation Find Data Markup and Printing Tool Labels X

Search By Location

Untitled - Work - Microsoft Edge
about:blank

NHIC Data

To work further with this data select the content and copy it into your own word or excel documents.

OGF ID	Element Type	Common Name	Scientific Name	SRank	SARO Status	COSEWIC Status	ATLAS NAD83	IDENT COMMENTS
1049788	NATURAL AREA	Stoney Creek Headwaters					17PK8514	
1049788	SPECIES	Eastern Meadowlark	<i>Sturnella magna</i>	THR	THR		17PK8514	
1049788	SPECIES	Bobolink	<i>Dolichonyx oryzivorus</i>	THR	THR		17PK8514	
1049788	SPECIES	Snapping Turtle	<i>Chelydra serpentina</i>	SC	SC		17PK8514	
1049798	SPECIES	Bobolink	<i>Dolichonyx oryzivorus</i>	THR	THR		17PK8614	

Make a Map: N

The Make a Map: mapping application displays Ontario's natural heritage areas as wetlands, woodlands, and Natural Heritage Areas. The application also displays topographic features such as roads, rivers, and boundaries. You can identify features, and print a map of the displayed information along with your own added text. For more information about this application and the data used to support it, please view the following link: <http://www.ontario.ca/environment-and-energy/make-natural-heritage-area-map>

If your question has not been covered by the information in this link, please send us an email at naturalheritage@ontario.ca

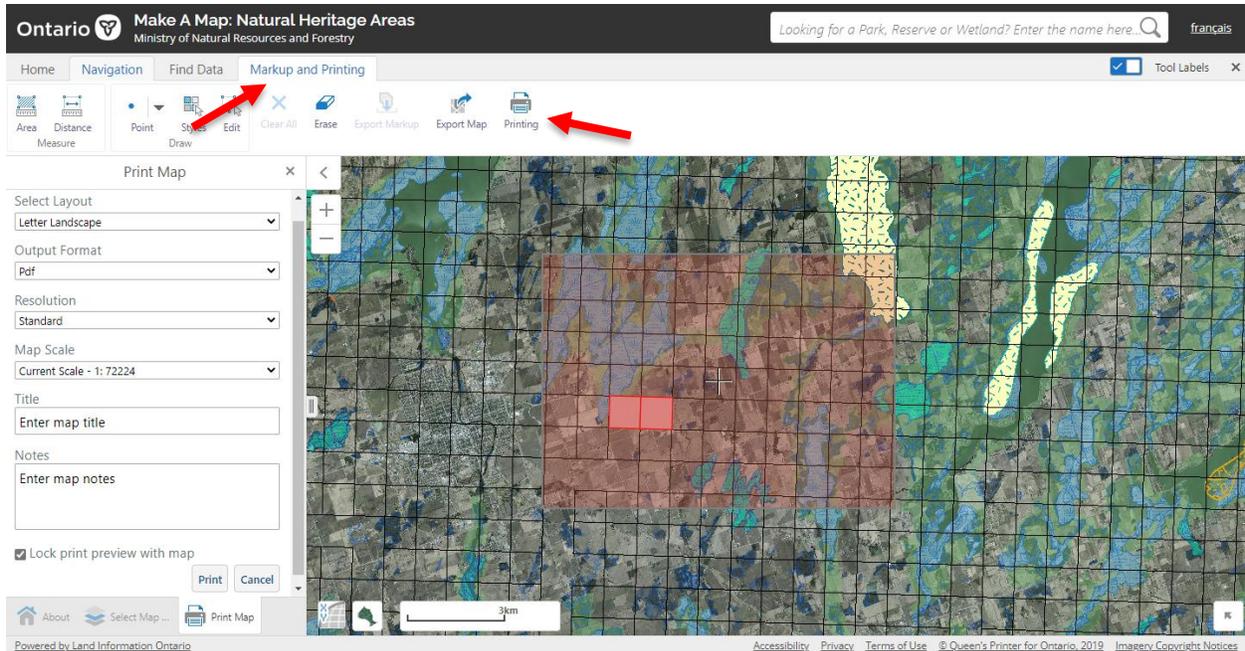
About Select Map Layers

Powered by Land Information Ontario

Accessibility Privacy Terms of Use © Queen's Printer for Ontario, 2019 Imagery Copyright Notices

To create a printable PDF of your completed map

Click 'Markup & Printing' at the top then 'Printing'. Fill in the required information and click print. You can also export the map as a PDF by clicking 'Export Map'.



Your map will open as a PDF. You can then print it or save it.

You can also take a screenshot of your map and save it or edit in another program if you do not want the legend included.

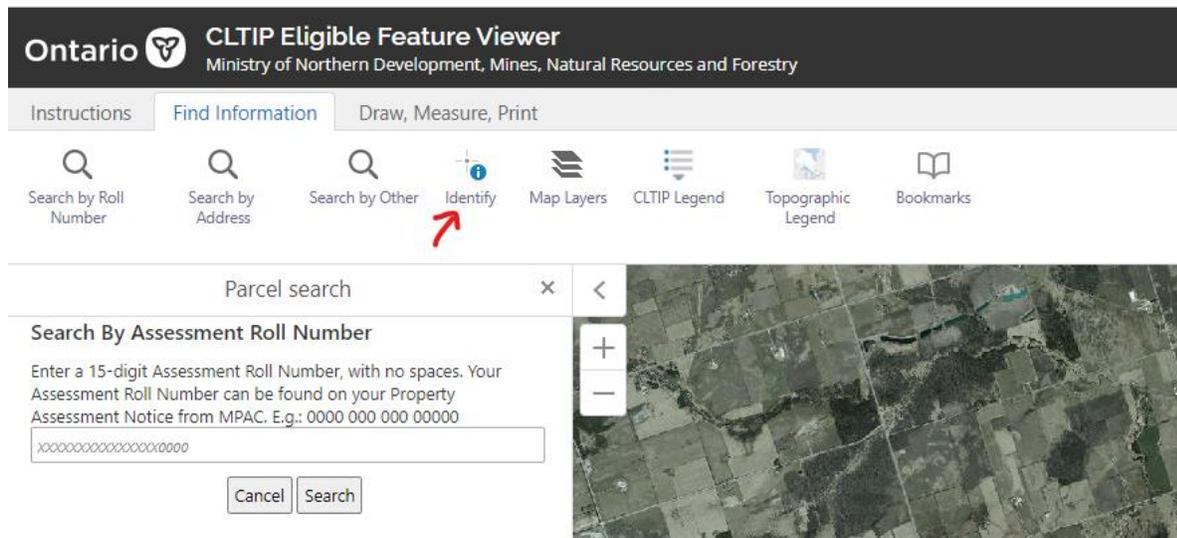
CLTIP Eligible Feature Viewer

<https://www.lioapplications.lrc.gov.on.ca/CLTIP/index.html?viewer=CLTIP.CLTIP&locale=en-CA>

This tool is similar to the Make a Natural Heritage Map tool described above, but the available layers are limited to only CLTIP eligible features, parcel boundaries and MNR district boundaries. To find a property, go to the 'Find information' tab and there are options to search by roll number, address or other features/criteria.

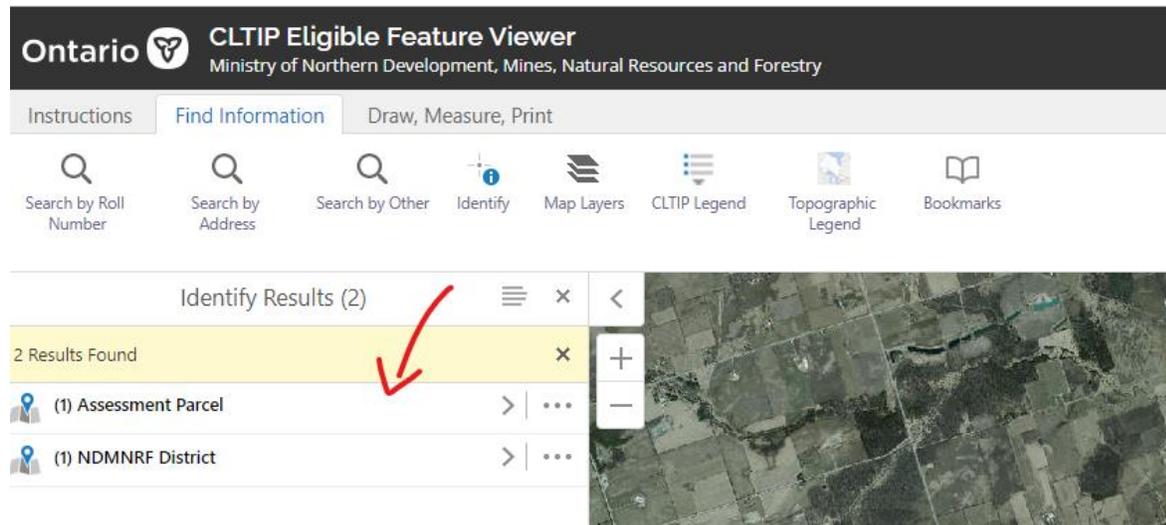
This tool can be used to get the roll number for a property if you're able to locate it by another means.

To get the roll number, click the 'identify' tool, then click on the property in question.



The screenshot shows the 'CLTIP Eligible Feature Viewer' interface. At the top, there is a navigation bar with the Ontario logo and the text 'CLTIP Eligible Feature Viewer' and 'Ministry of Northern Development, Mines, Natural Resources and Forestry'. Below this is a tabbed interface with 'Find Information' selected. A toolbar contains icons for 'Search by Roll Number', 'Search by Address', 'Search by Other', 'Identify' (highlighted with a red arrow), 'Map Layers', 'CLTIP Legend', 'Topographic Legend', and 'Bookmarks'. A 'Parcel search' dialog box is open, titled 'Search By Assessment Roll Number'. It contains the instruction: 'Enter a 15-digit Assessment Roll Number, with no spaces. Your Assessment Roll Number can be found on your Property Assessment Notice from MPAC. E.g.: 0000 000 000 00000'. Below the instruction is a text input field with a placeholder 'xxxxxxxxxxxxxxxxxxxx0000' and two buttons: 'Cancel' and 'Search'. To the right of the dialog box is a portion of an aerial map with zoom controls.

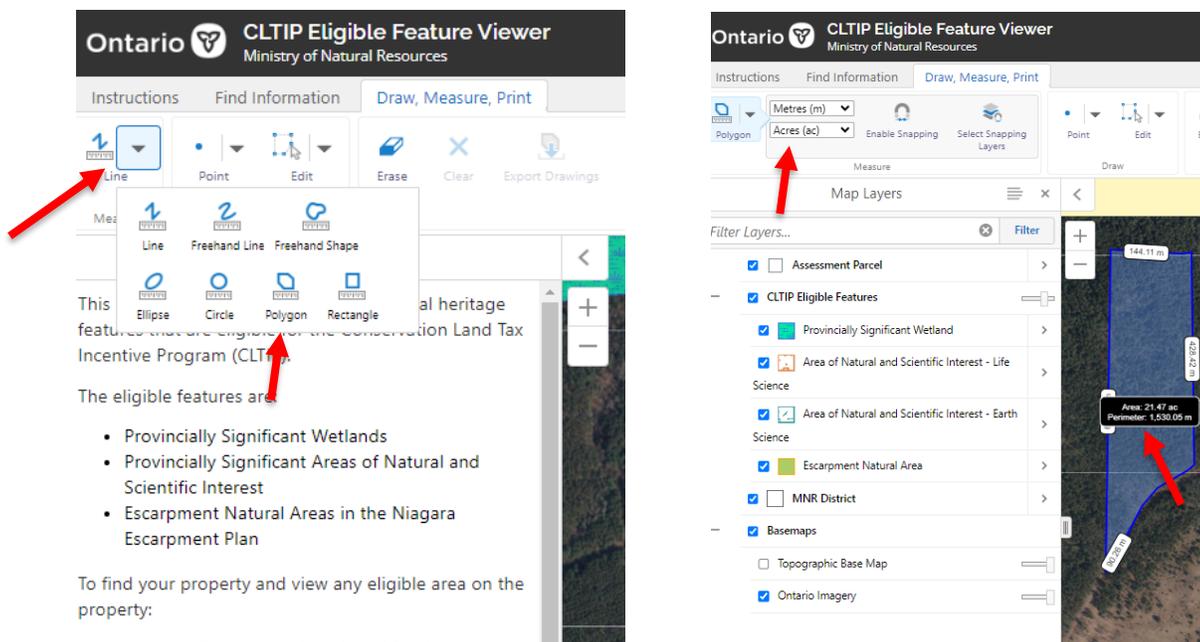
Results will come up for all features found at the point you clicked on. Click 'Assessment parcel' to see the roll number for the property.



Click on the roll number to zoom to and highlight the property boundary.

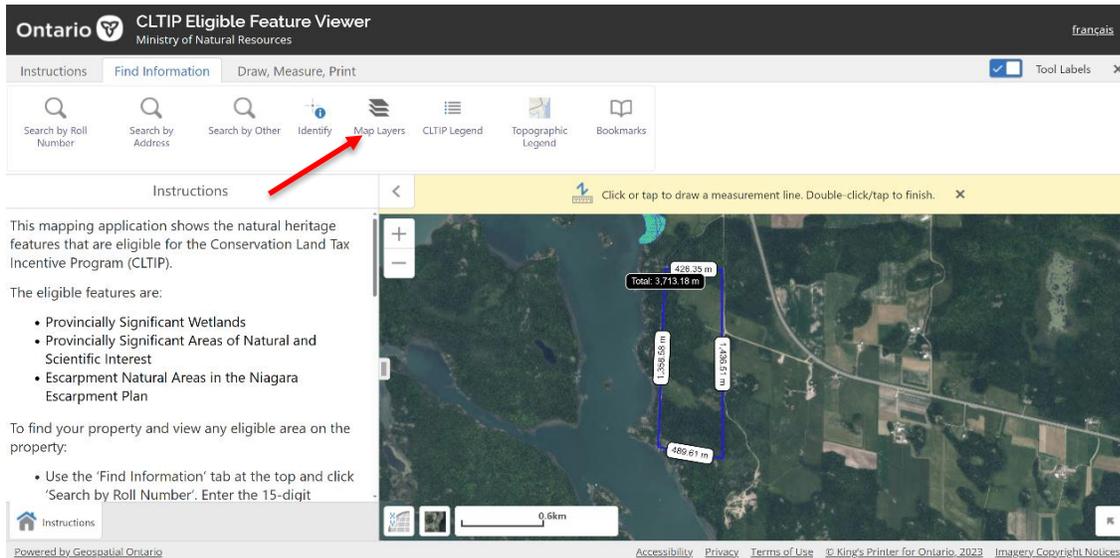
How to measure an area

Go to the 'Draw, Measure, Print' tab. In the 'Measure' box, click on the dropdown arrow next to 'Line' and select 'Polygon'. Change the units to 'Acres (ac)' and click on the map to begin drawing the area you want to measure. Click to add more points. When the area outline is complete double click to finish the shape and see the total area.

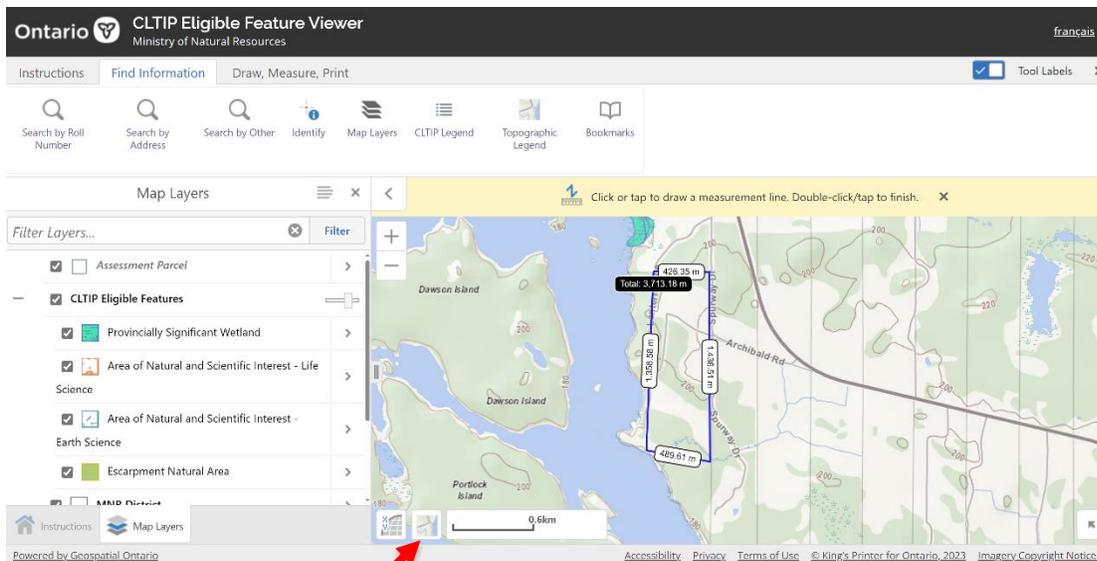


How to view/change map layers and identify CLTIP areas

Under the 'Find information' tab, you can click 'Map Layers'. You can check off or on any layers you'd like to see. All CLTIP eligible features are turned on by default.

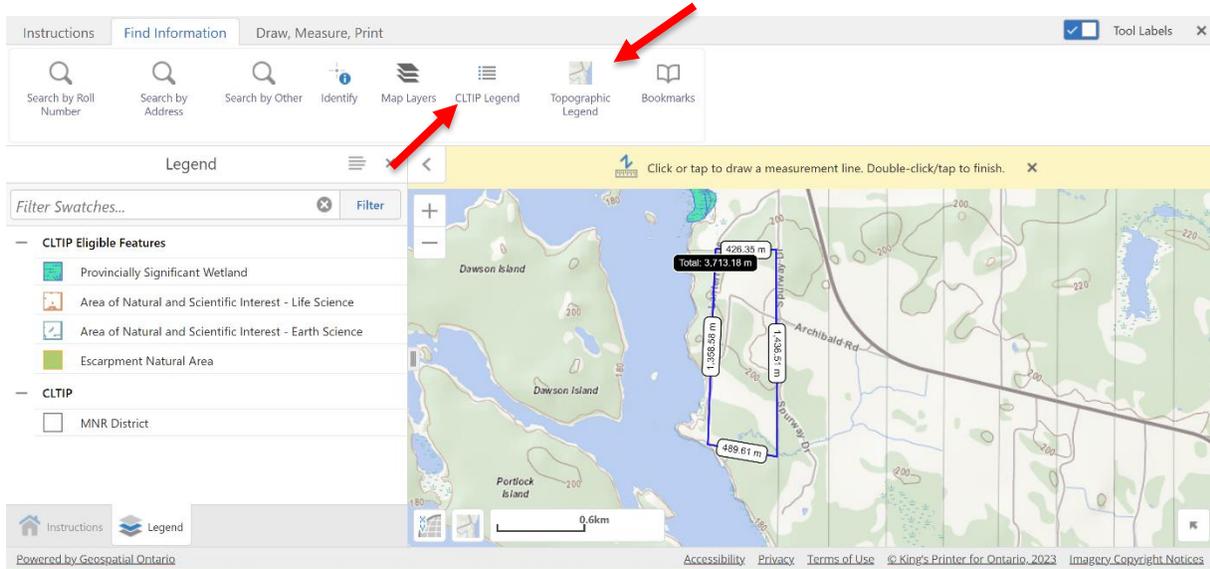


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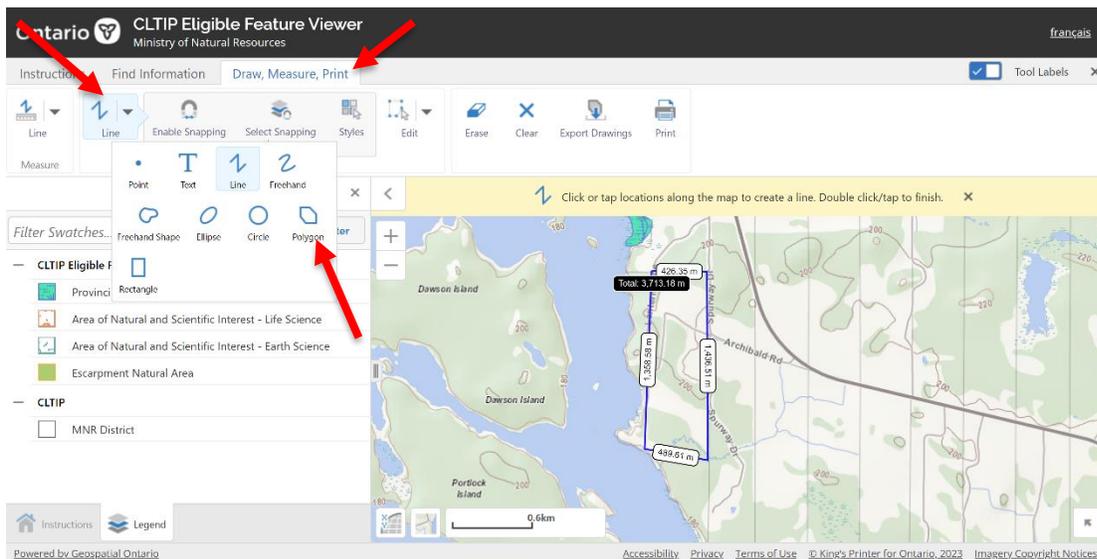
How to view the legend to identify features

Click on the 'Find Information' tab at the top then 'CLTIP Legend'. You can view the topographic legend by clicking 'Topographic Legend'.

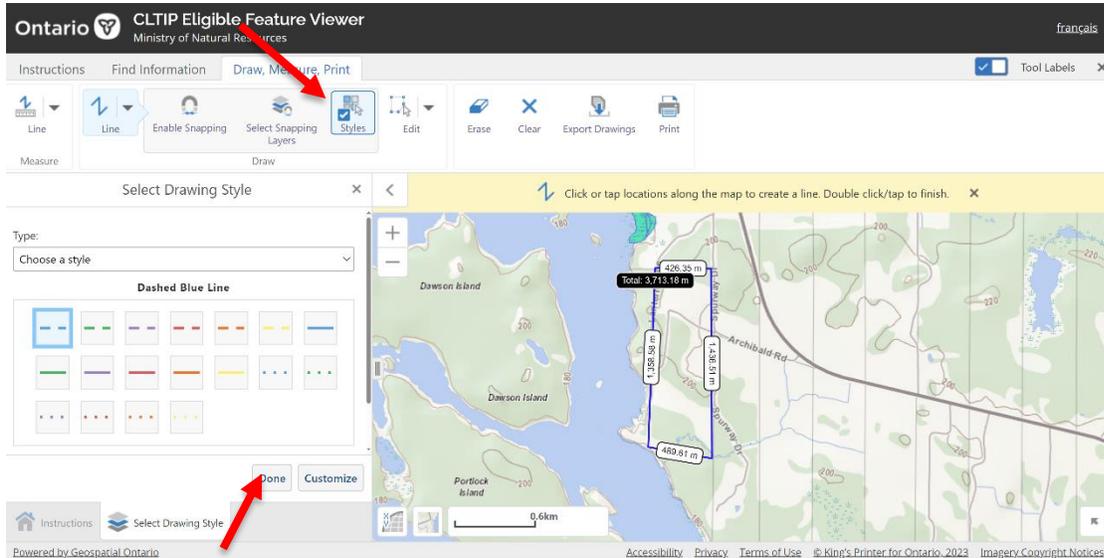


How to draw shapes or lines

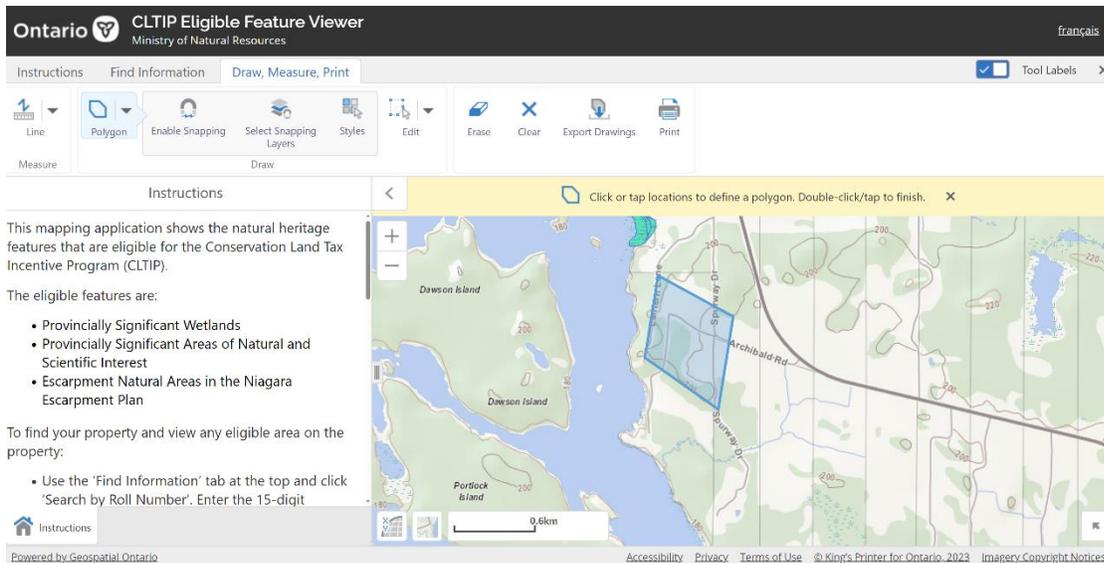
Go to the 'Draw, Measure, Print' tab at the top. Click on the small arrow beside 'Line' in the 'Draw' section. A selection box will appear for you to select the type of shape, line or text you want to add. The "Polygon" tool will allow you to highlight an area on the map.



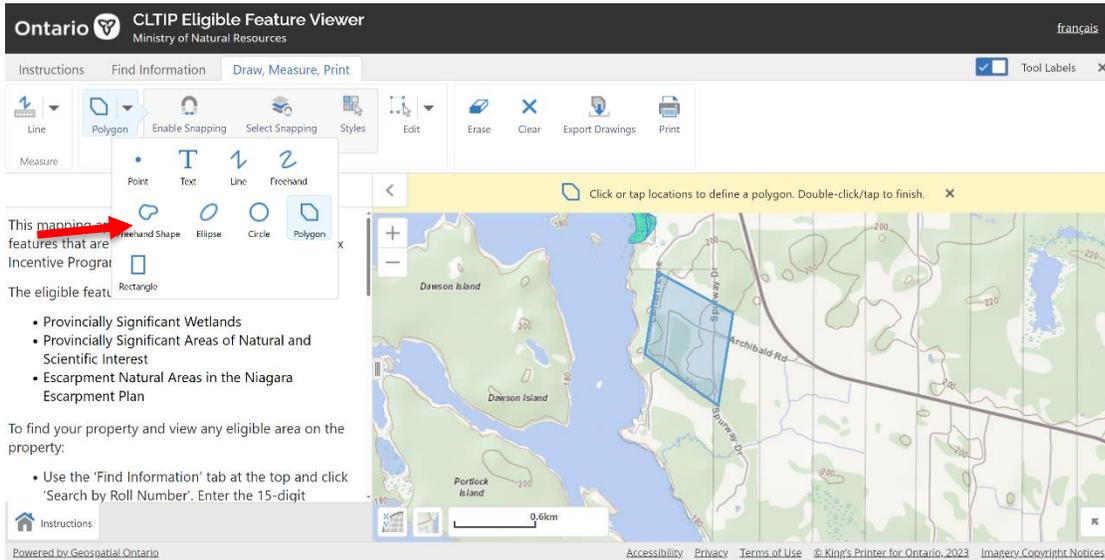
Before drawing your shape on the map, click 'Styles' to change the colour of the shape or line, or the size of the text. You can also customize your shape style by clicking 'Customize' and then 'Done'.



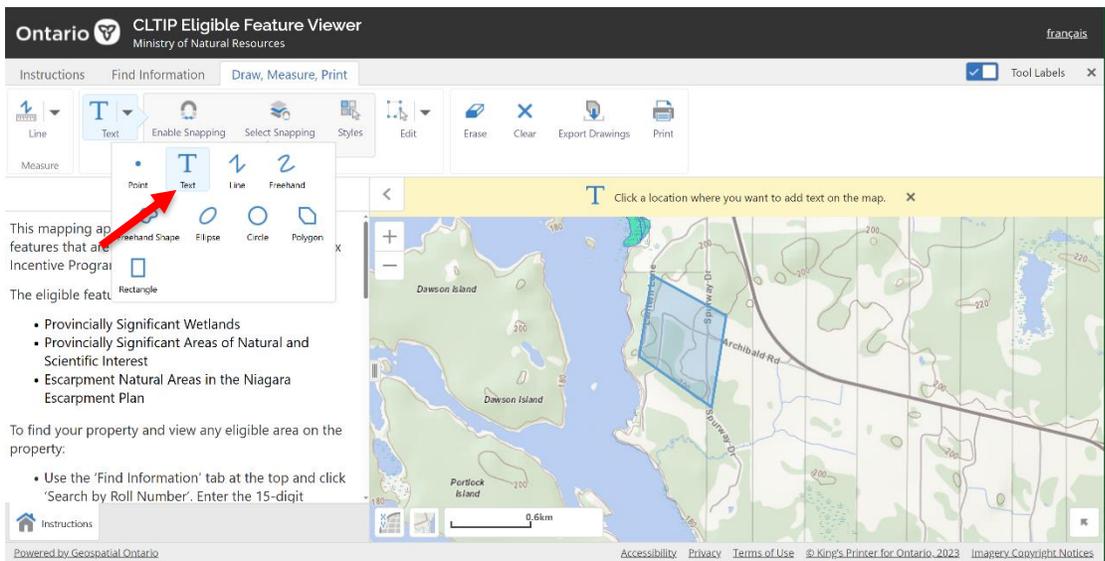
For a polygon or line, click where you want to begin, then move the mouse and click again to make another point with a straight line between the two points. Trace out the shape you want and then double click to finish.



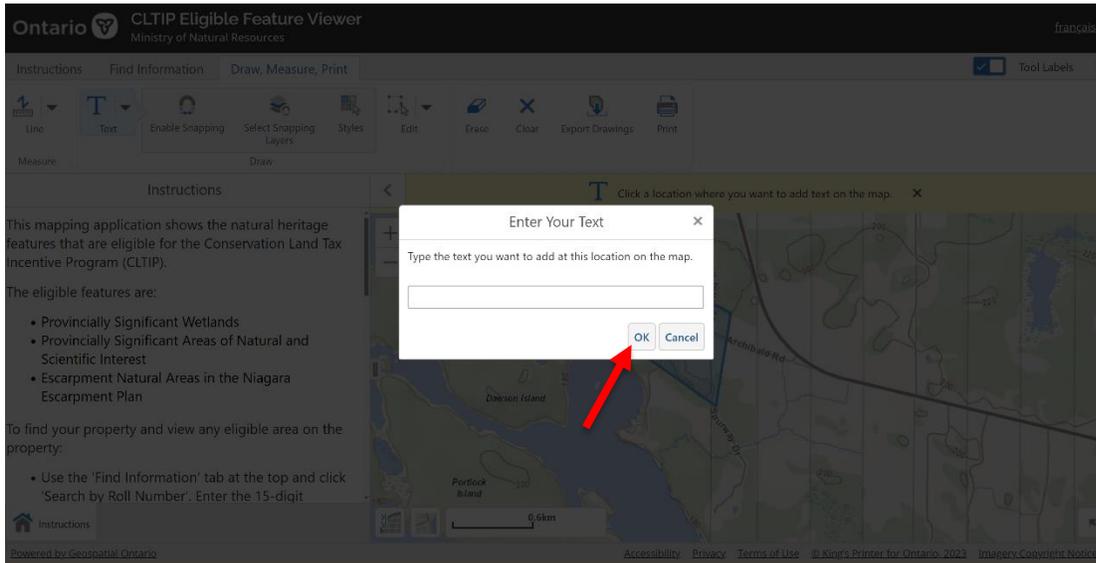
For a freehand line or shape, select 'Freehand Polygon' then click and hold to trace the shape you want to add. Release when finished.



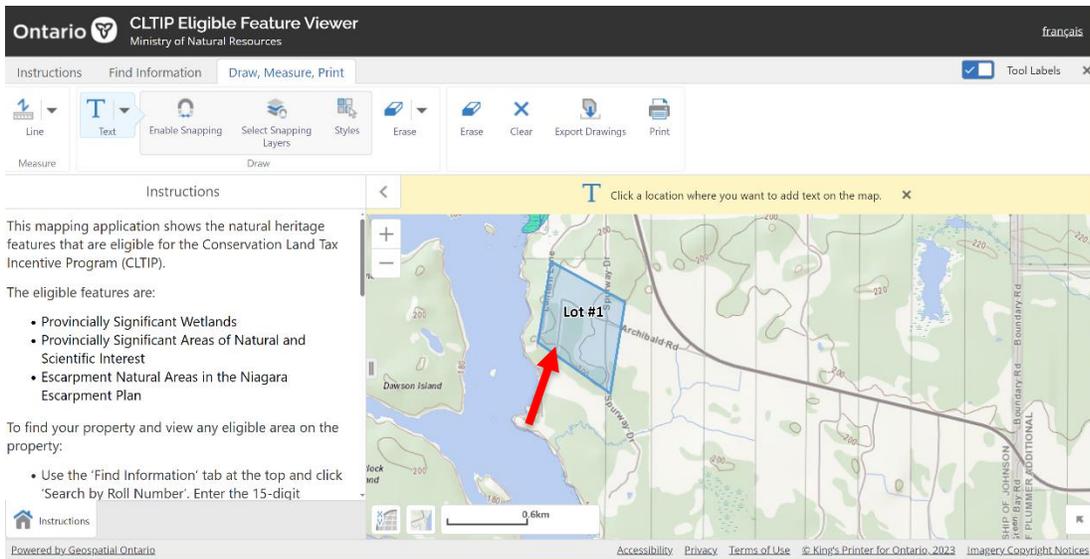
To add text, select 'Text'. Click on the map where you want the text to go.



Type your text into the box and click 'OK'.

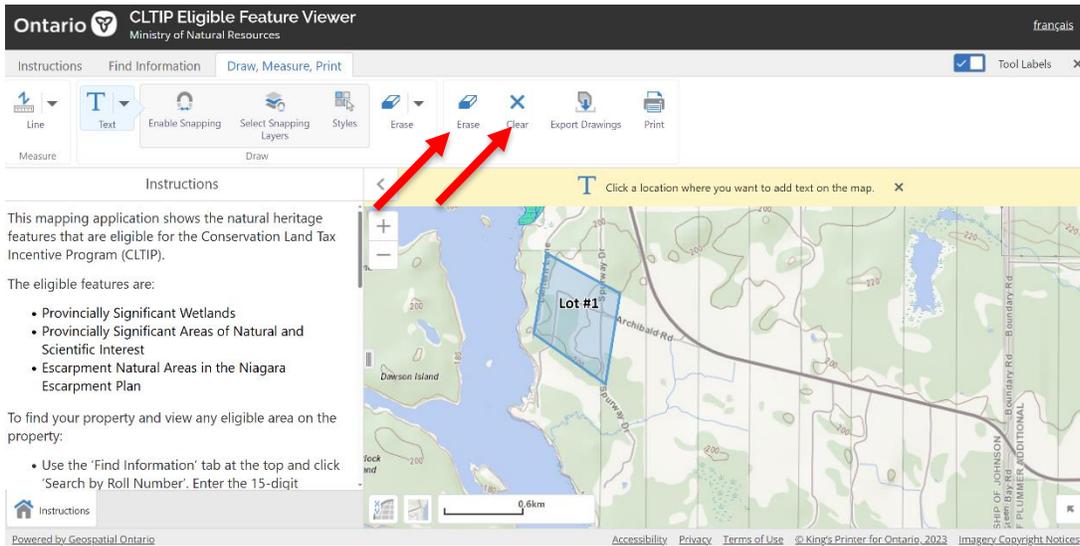


Here is an example below:



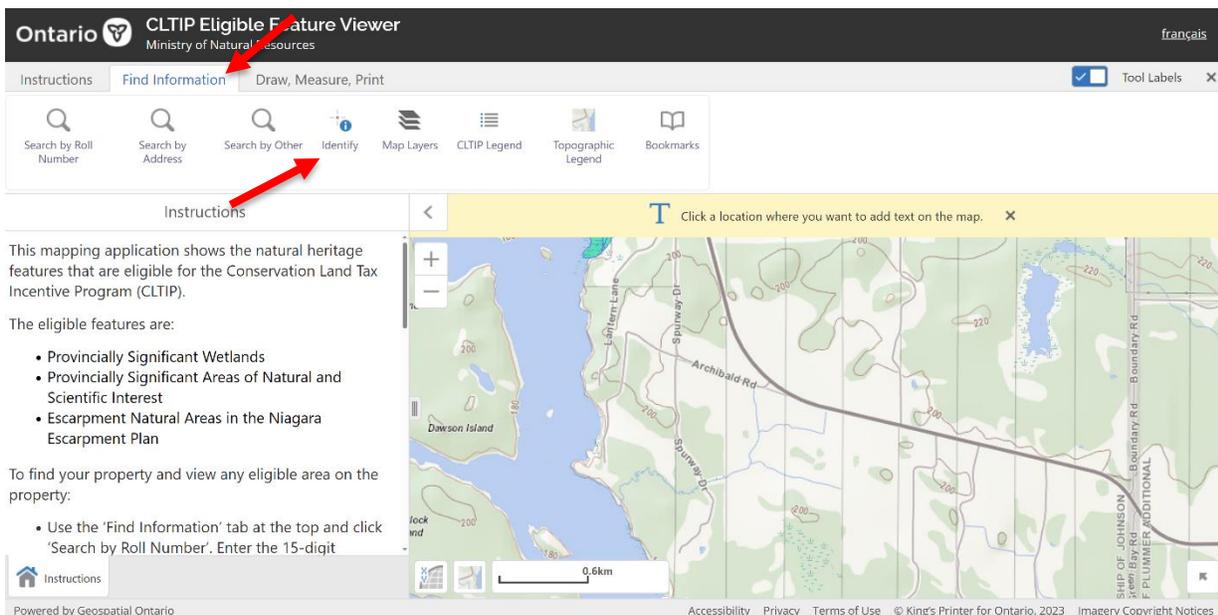
How to erase a shape, line or text

To erase a shape, line or text you have added, click “Erase” and then click on the object you want to erase. To clear everything you have added, select ‘Clear All.’



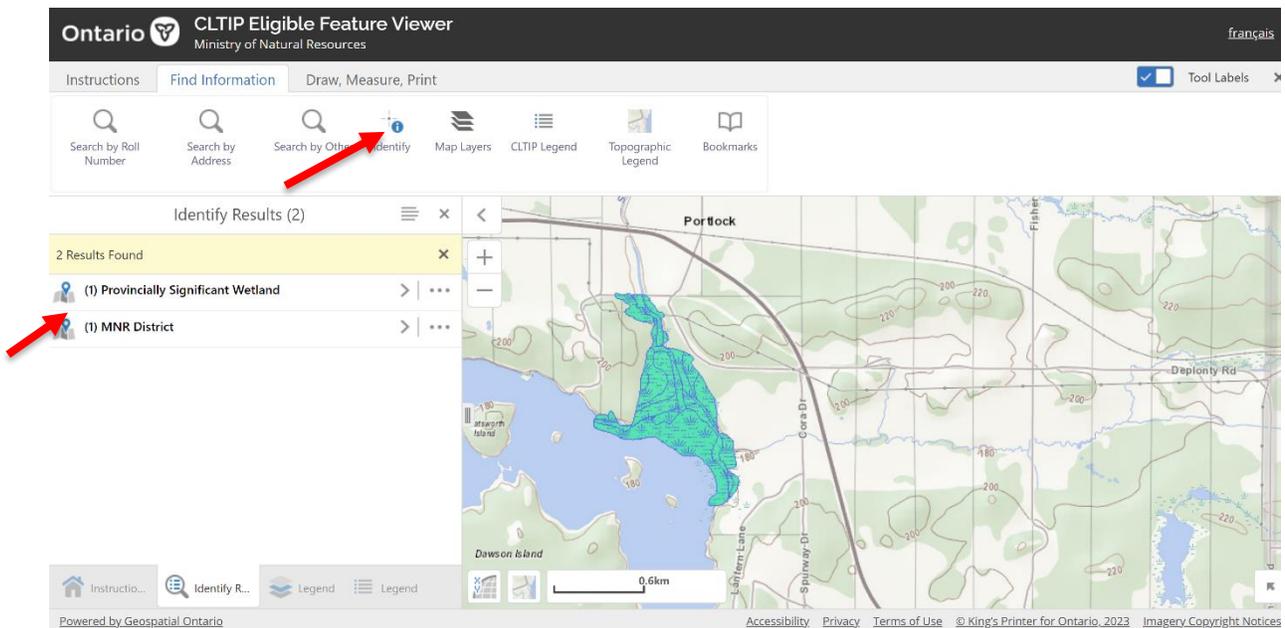
To find information about CLTIP eligible features

Click the ‘Find Information’ tab at the top, then click ‘Identify’.

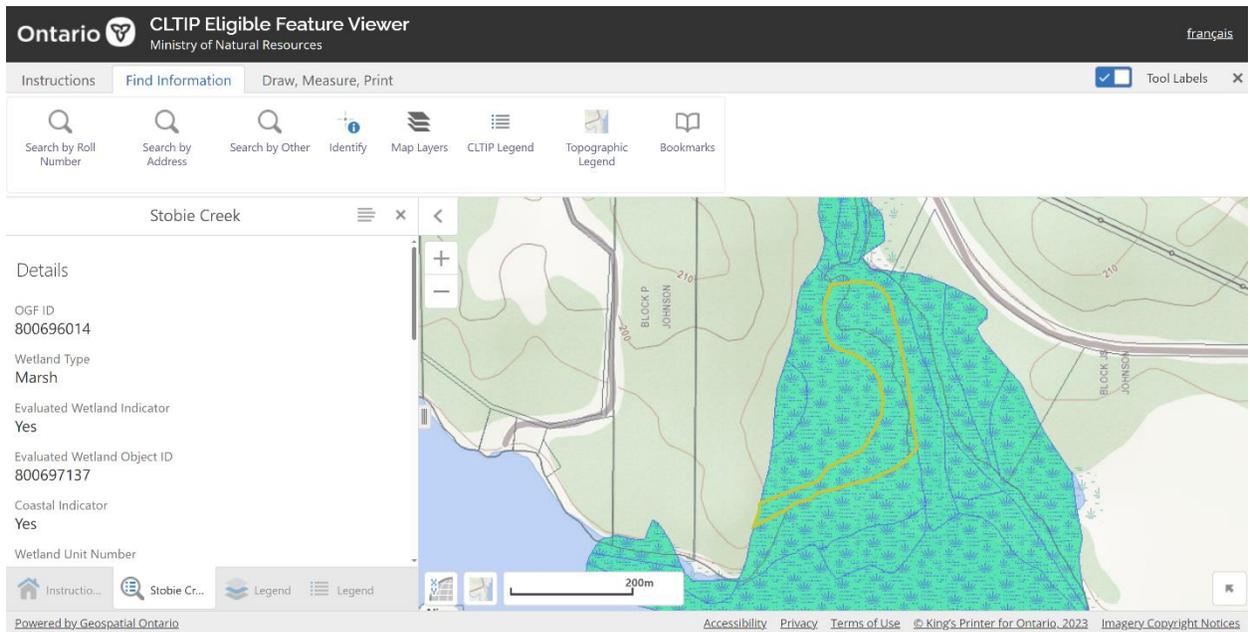
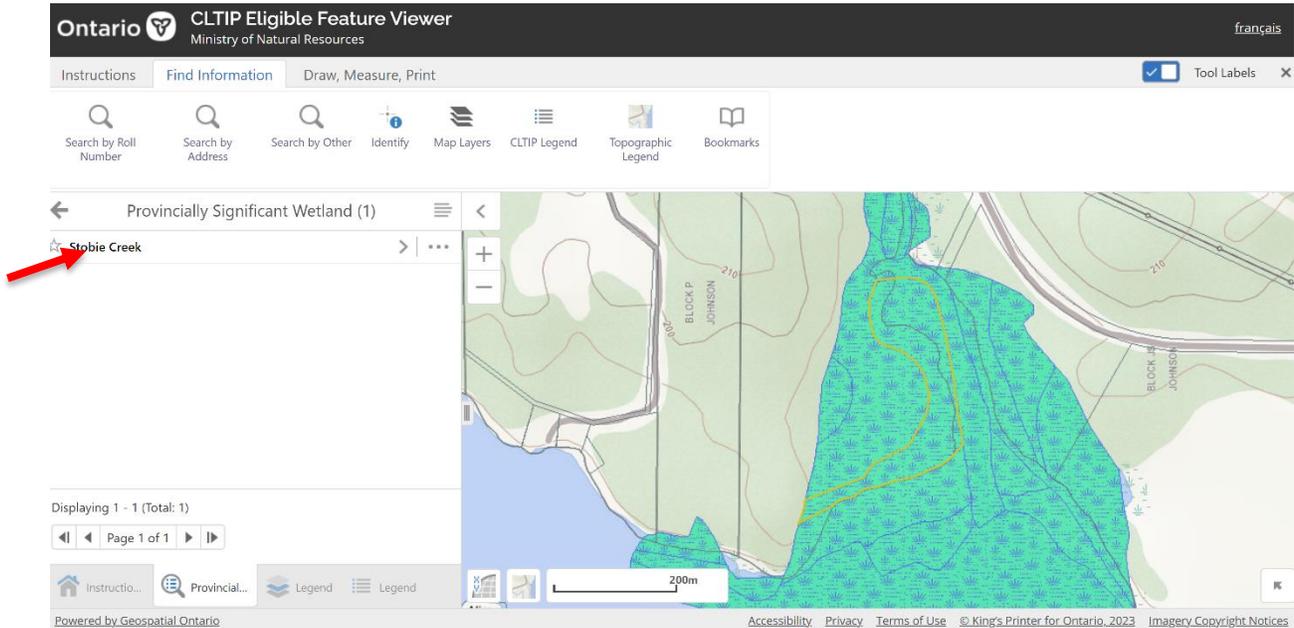


Click a point on the map which you want to find information for. Only information in layers that are checked 'on' in 'Select Map Layers' will be displayed. For example, to see information about a Provincially Significant Wetland, you will need to have the wetlands layer turned on.

After you click a spot on the map, a list of results will open with the type of information at that spot (e.g., 'Natural Heritage System', 'Evaluated Wetland', etc.) Click on the tabs on the left to see detailed information about the different data (e.g., 'Natural Heritage System', 'Evaluated Wetland', etc.)

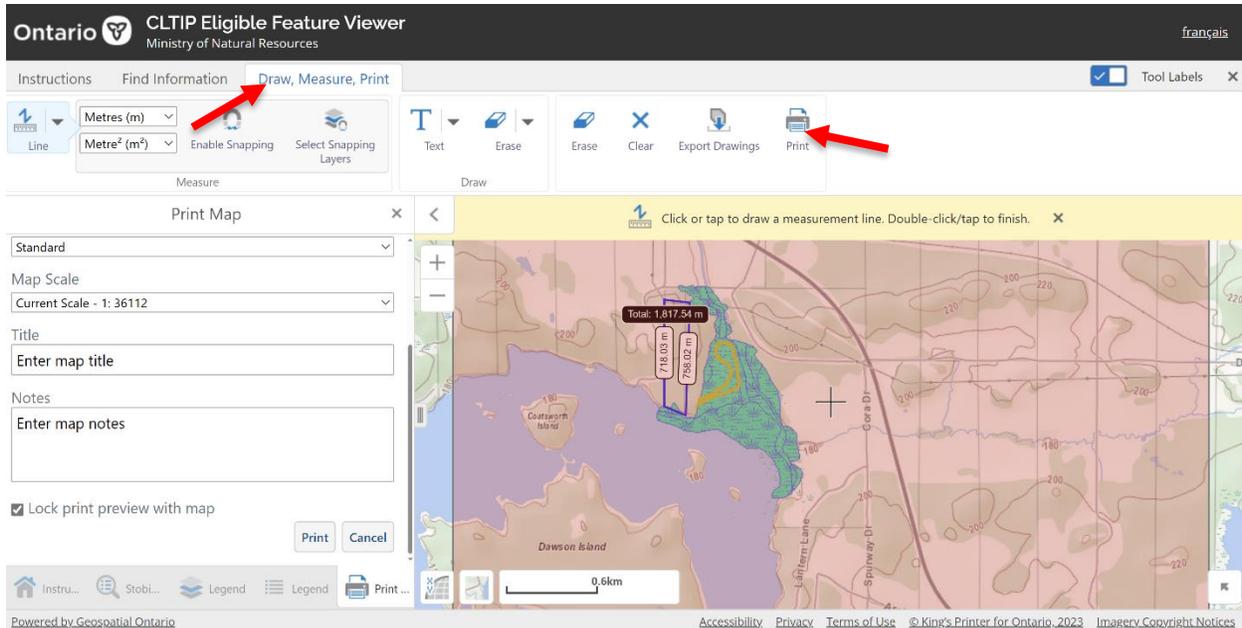


By clicking on the result tab, the map will highlight the selected feature on the map and provide you with a detailed list of information about the feature.



To create a printable PDF of your completed map

Click 'Draw, Measure, Print' at the top then 'Print'. Fill in the required information and click print. You can also export the map as a PDF by clicking 'Export Map'.



Your map will open as a PDF. You can then print it or save it.

You can also take a screenshot of your map and save it or edit in another program if you do not want the legend included.

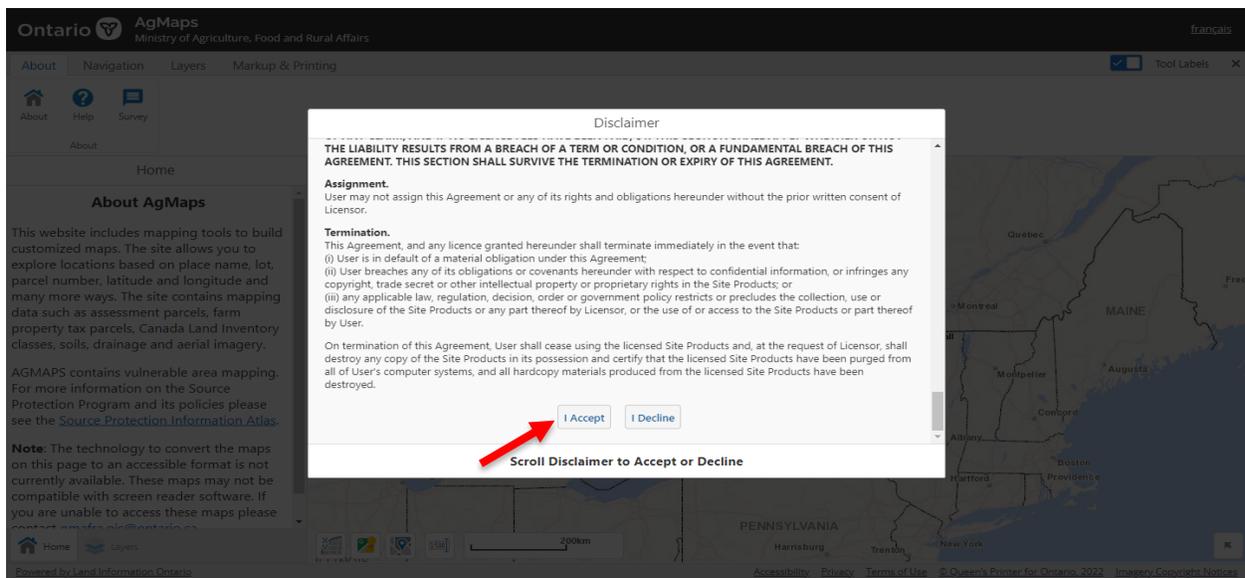
Ministry of Agriculture, Food and Rural Affairs

AgMaps

<https://www.lioapplications.lrc.gov.on.ca/AgMaps/Index.html?viewer=AgMaps.AgMaps&locale=en-CA>

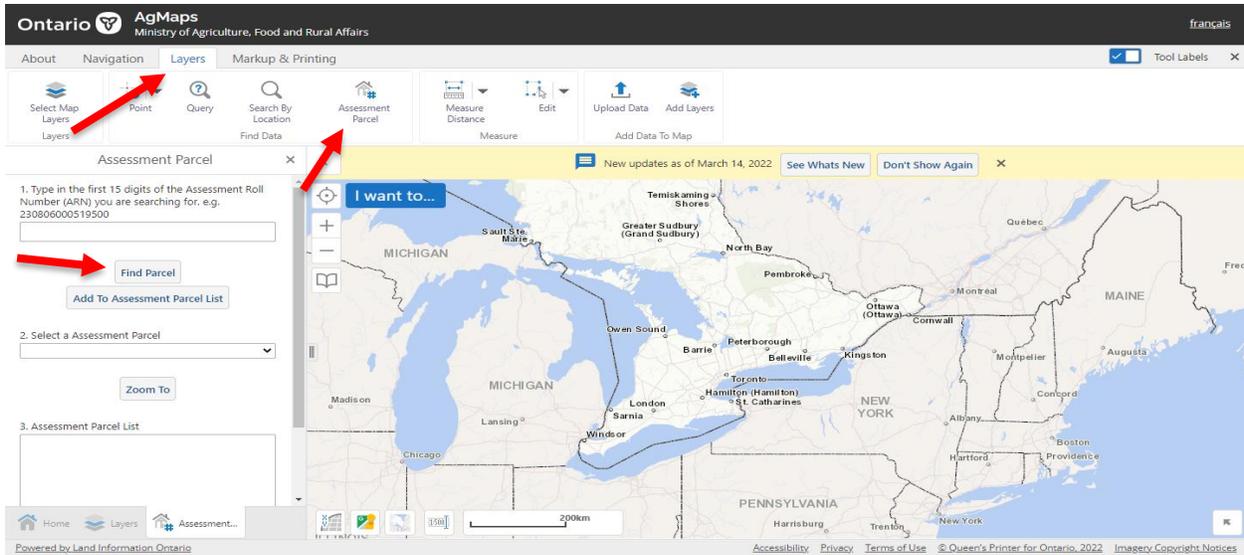
For more information please visit [How to use AgMaps | ontario.ca](#)

Step 1: Scroll through and accept the disclaimer.



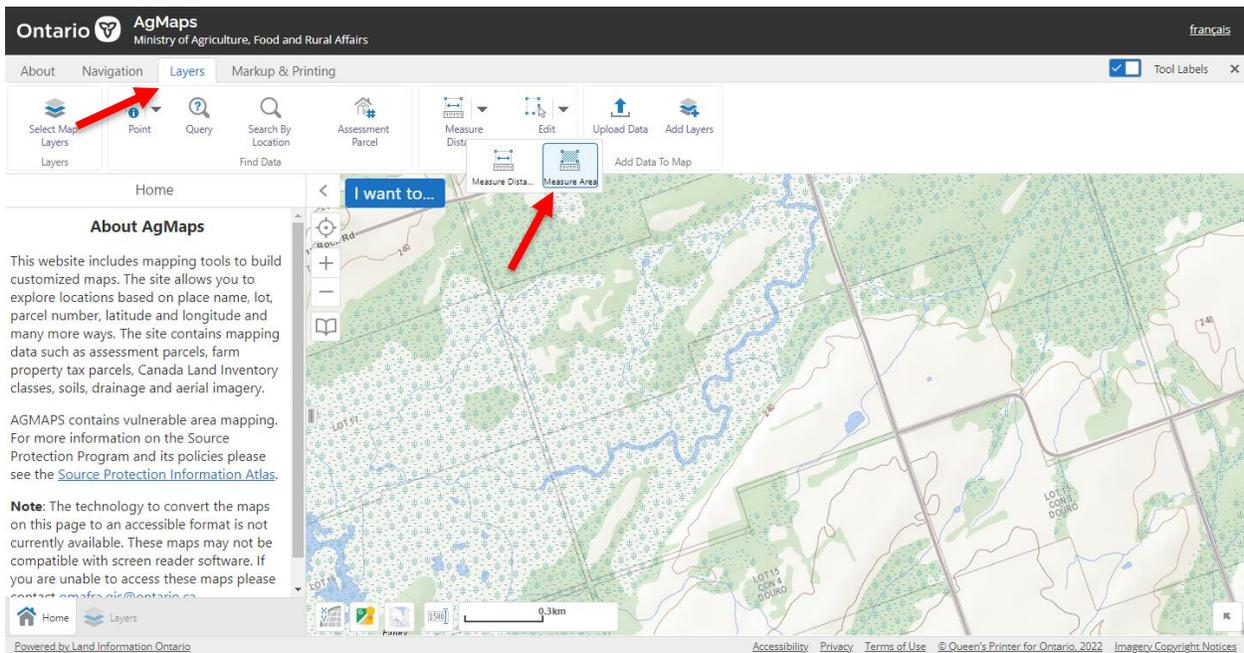
How to find a property by ARN

Click on the 'Layers' tab on the top row. Select 'Assessment Parcel', enter the roll number and then click 'Find Parcel'.

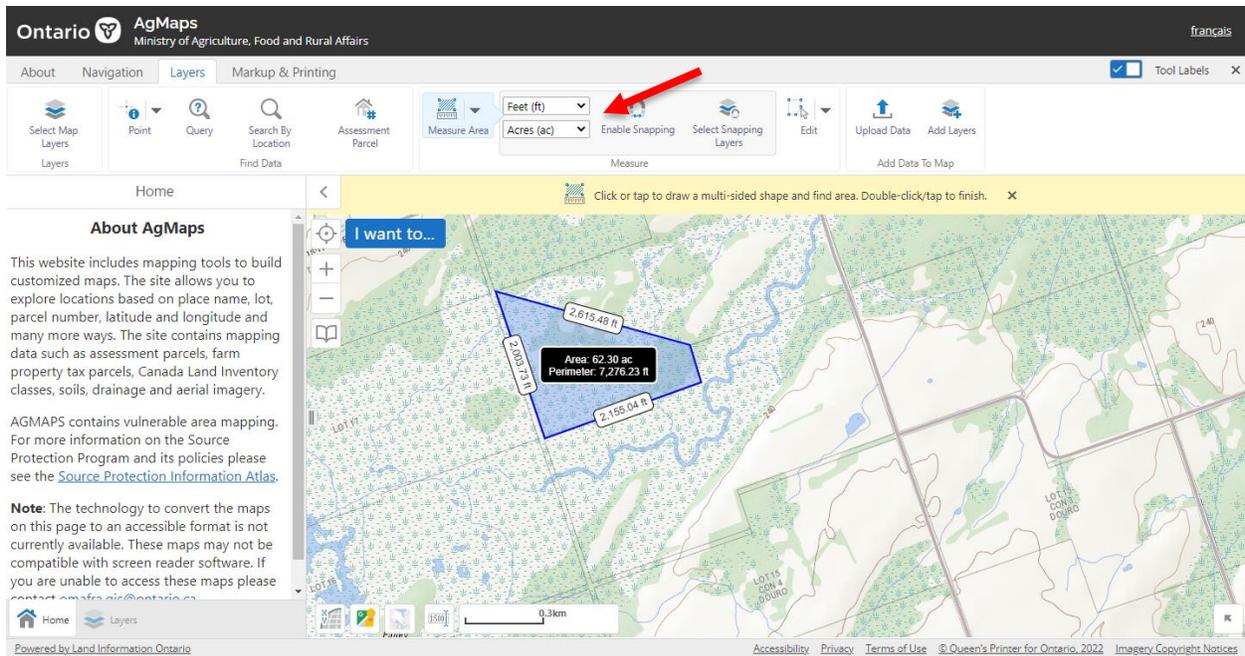


How to measure an area

To measure an area, click 'Layers' then 'Measure Distance', select 'Measure Area' from the drop-down menu.



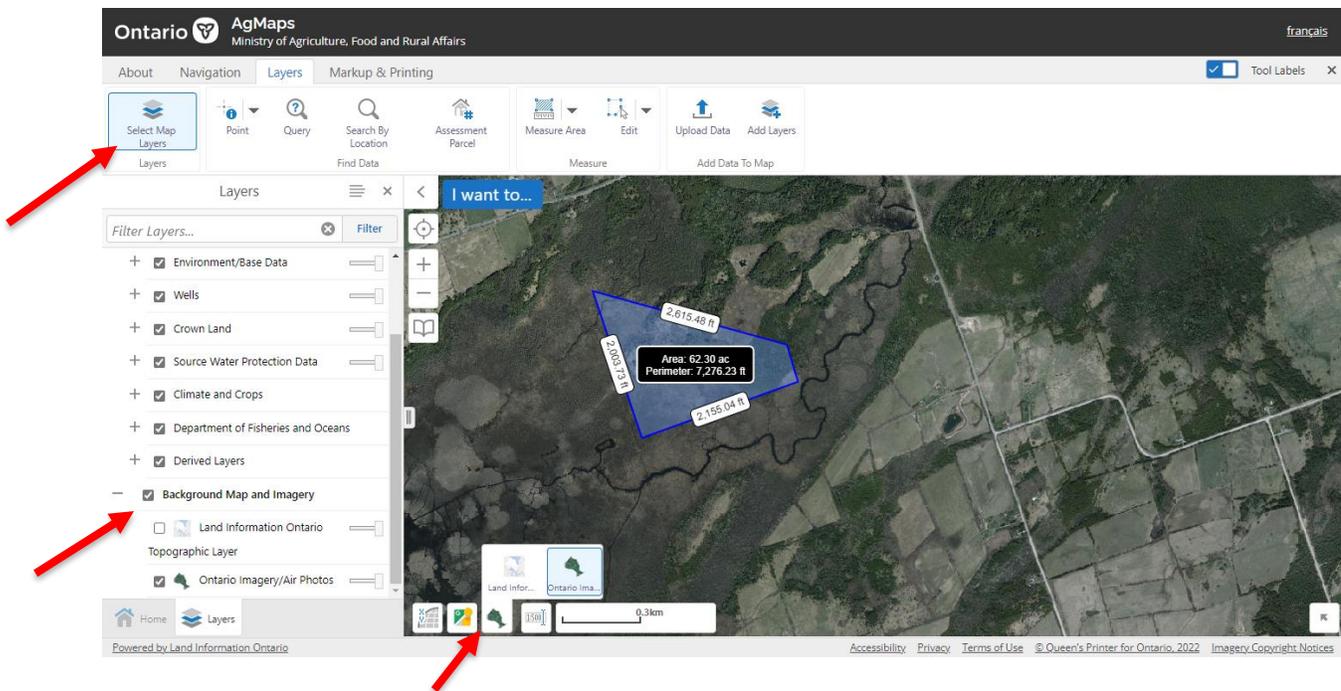
Change the units to 'Feet' and 'Acres' and click to begin drawing the area you want to measure. When your measurements are complete double click to see the total area of what you have measured.



How to view/change map layers

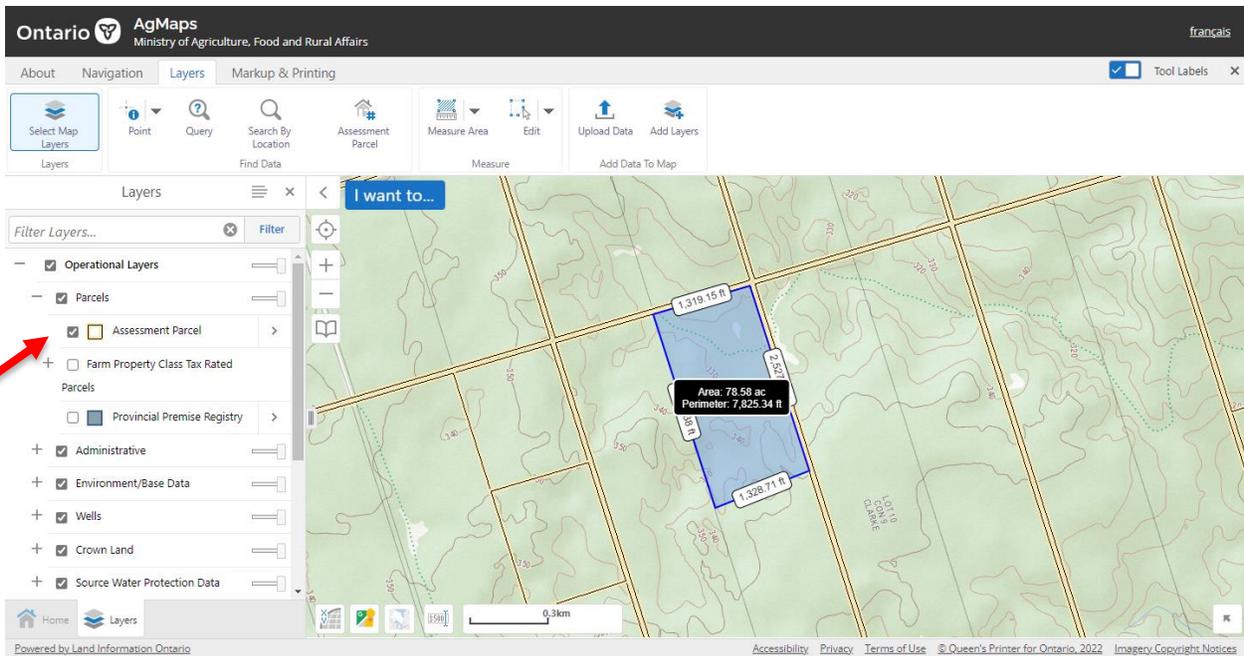
Click 'Layers' at the top then 'Select Map Layers'. You can check off or on any layers you'd like to see.

To change between viewing satellite imagery and the topographic map layer, check the boxes under 'Background Map and Imagery' to select the view you would like. The below example displays the 'Ontario Imagery/Air Photos' layer. To view the 'LIO Topographic Layer', unselect the 'Ontario Imagery' and select the 'LIO Topographic Layer.' You can also switch between the different views by clicking on the view button on the bottom of the map.

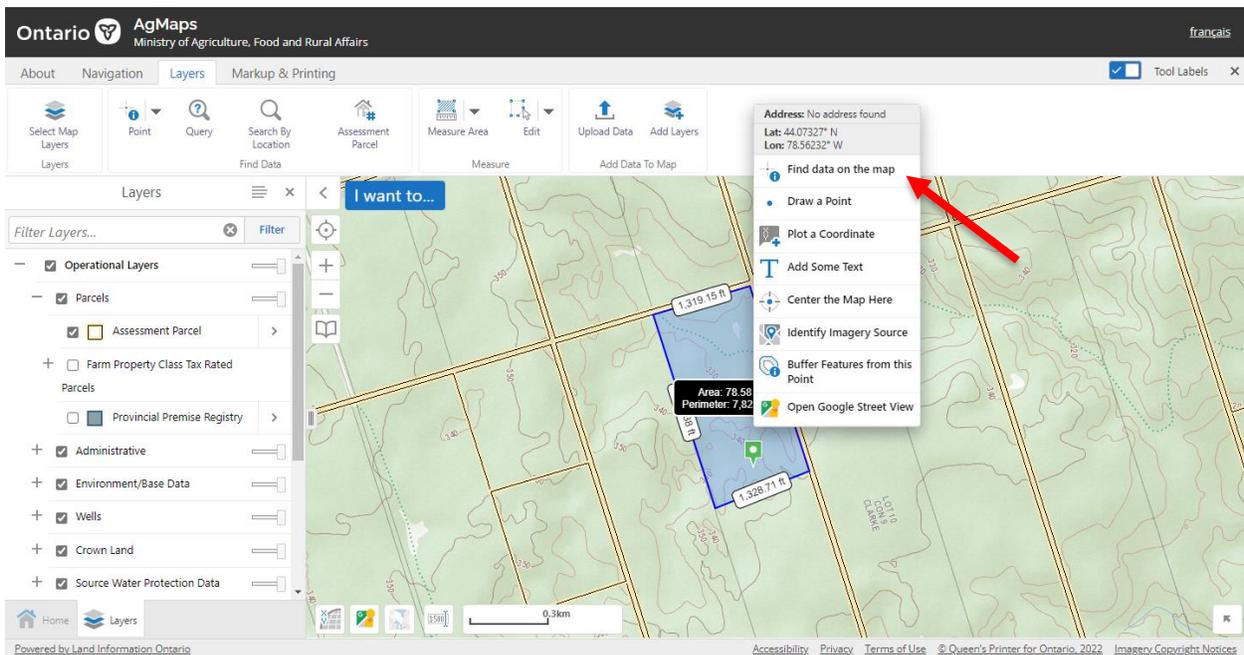


How to turn on the Assessment Parcel Layer/find an ARN number for a property

To turn on the 'Assessment Parcel' layer, expand the 'Parcels' drop-down menu by clicking the + symbol and check off the box beside 'Assessment Parcel'.

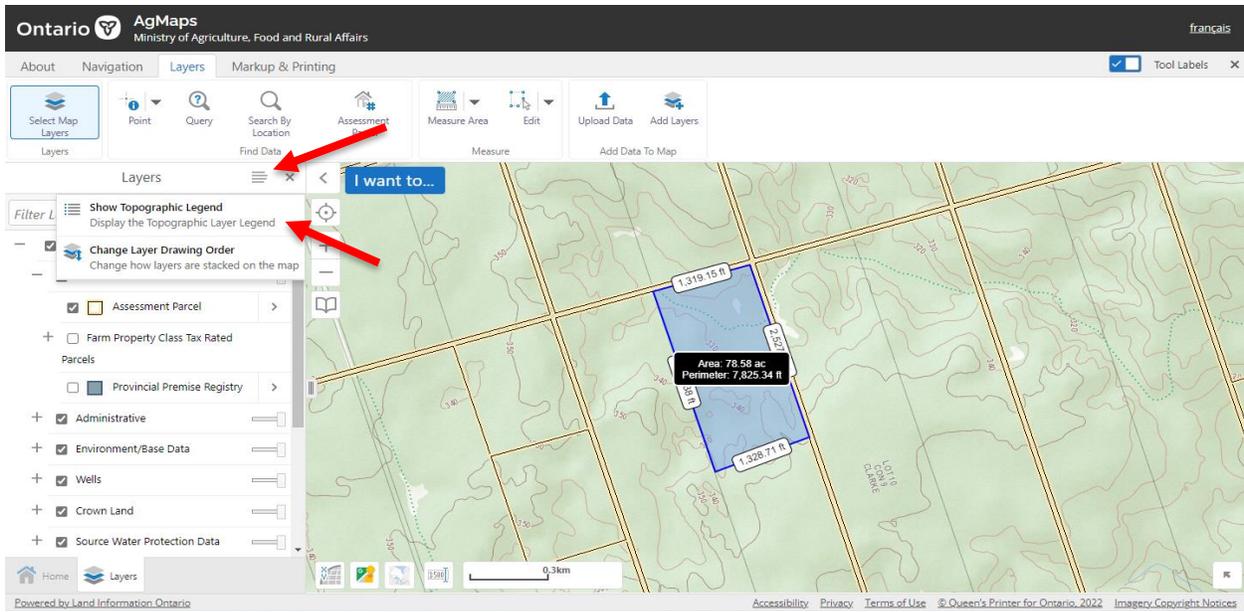


When you have the Assessment Parcel layer turned on, you can find the assessment roll number for a property you are viewing. To do so, right click on the map on the area you would like to find the ARN for and select 'Find data on the map'.



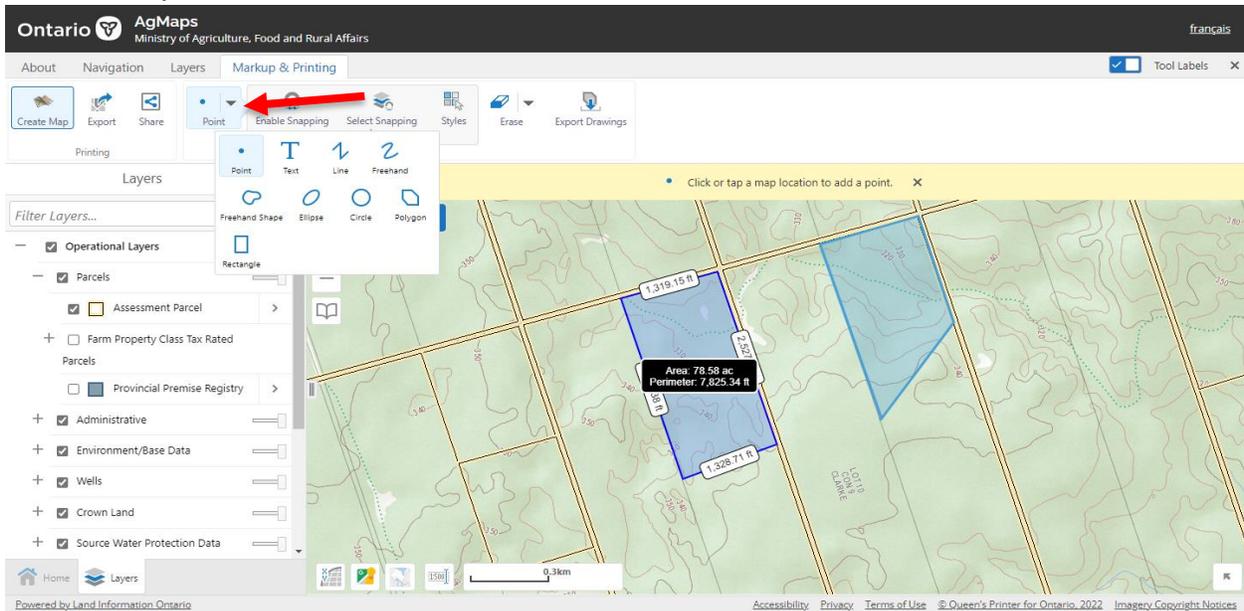
How to view the legend and determine what features are on the property

To view the legend and features on the property, select 'Layers,' then select the list symbol at the top right corner of the box and click on 'Show Topographic Legend.'

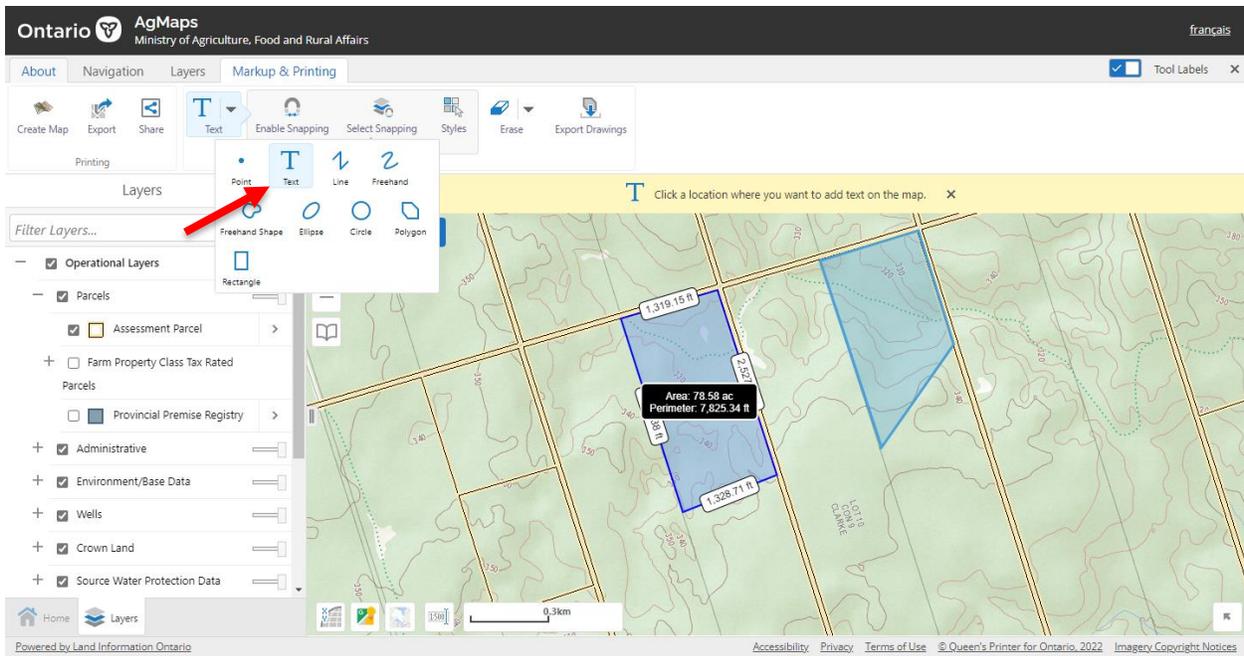


How to draw shapes or lines

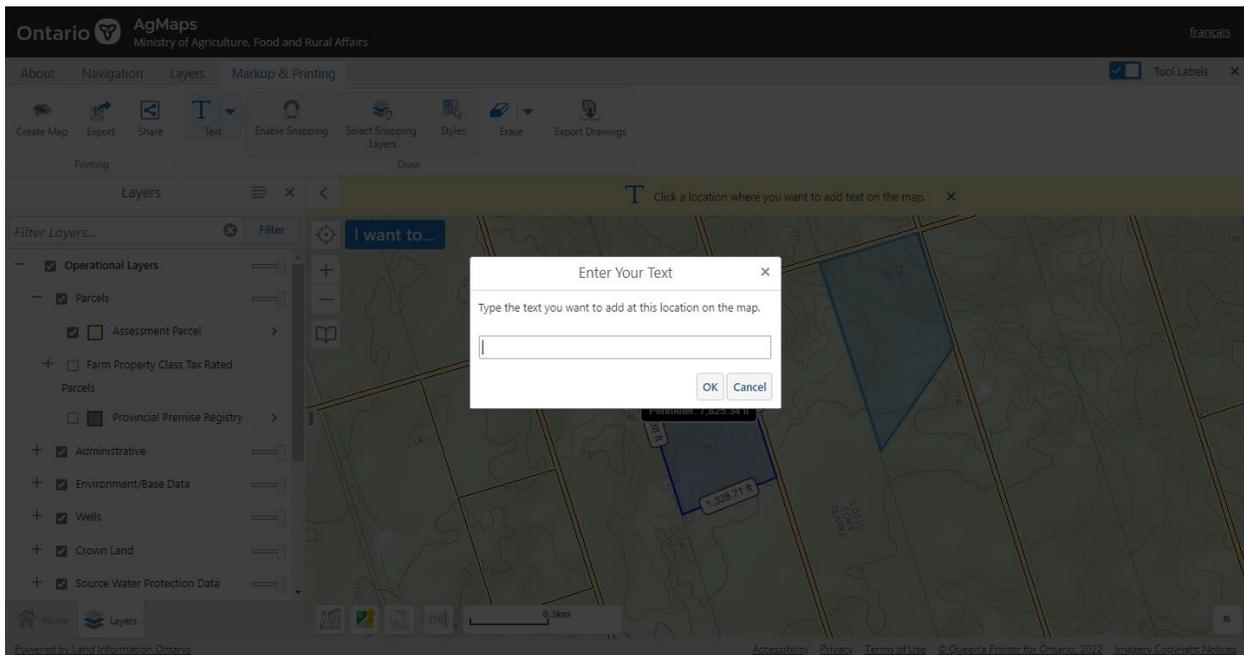
To draw shapes, select the 'Markup & Printing' tab. Click on the arrow beside 'Point'. Select the type of shape, line or text you would like to add. 'Polygon' or 'Line' will let you draw a shape with straight edges. 'Freehand' or 'Freehand shape' will let you draw a curved shape or line.



To add text, select 'Text' from the options. Click on the area on the map you would like to add the text to. A box will appear for you to write the text.

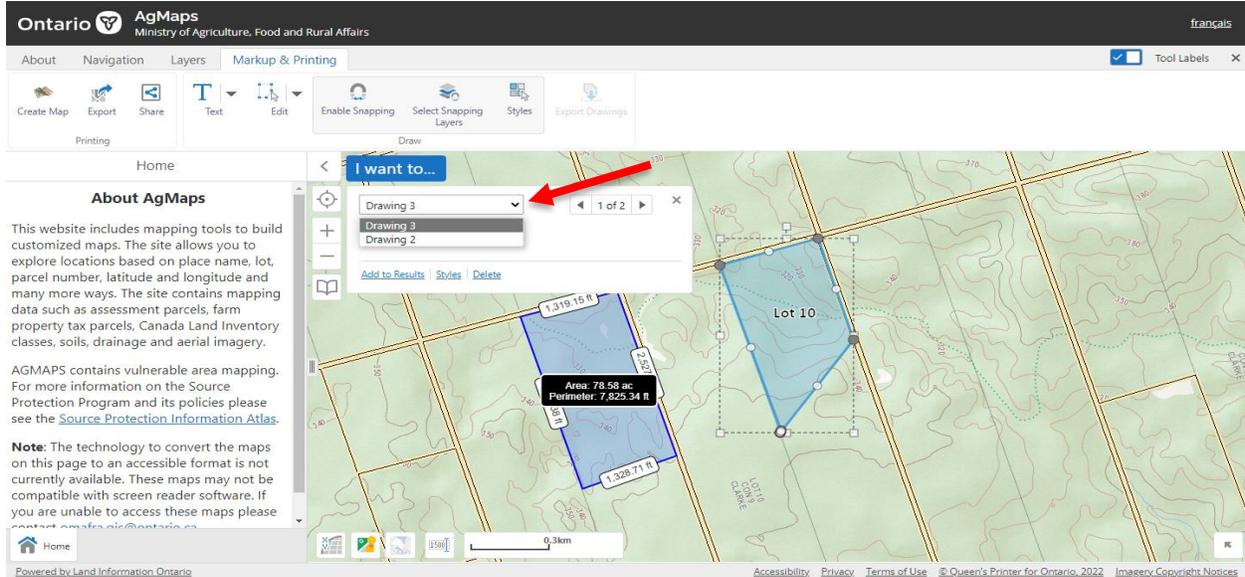


Enter desired text and click 'OK.' Alternatively, you can right click on the map and select 'Add Some Text.'



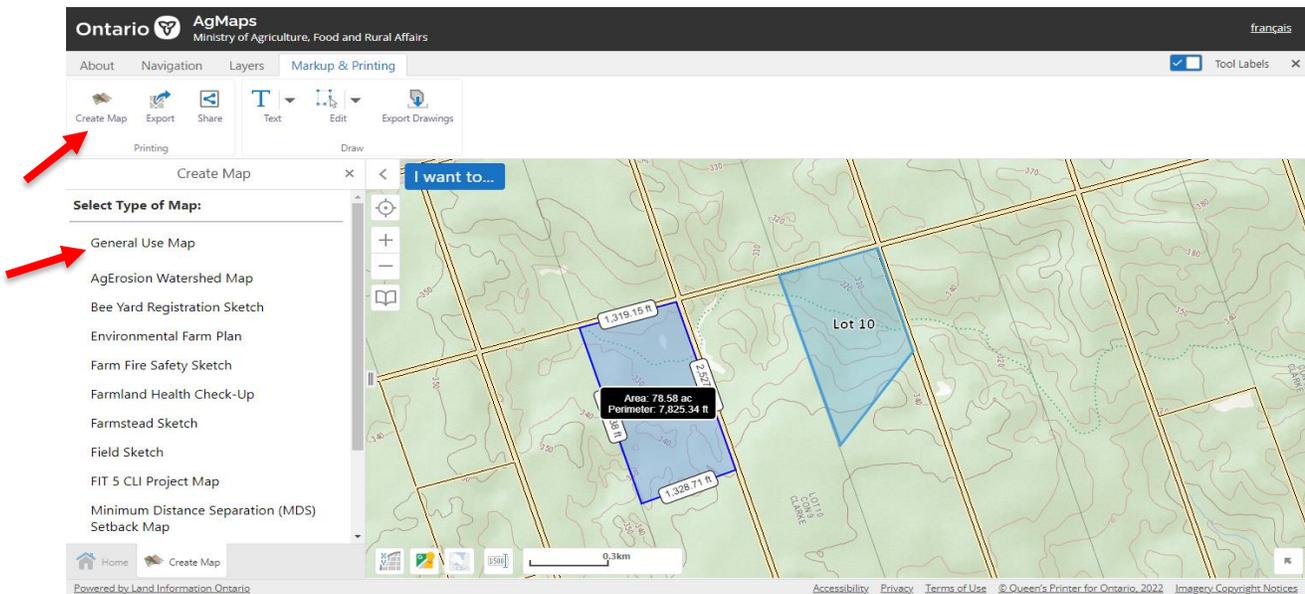
How to erase a shape, line or text

Under the 'Markup and Printing' tab, select the arrow beside 'Edit,' and choose to either edit, erase or clear all shapes, lines or text. You can edit specific drawings by selecting your drawing by their drawing number.



To create a printable PDF of your completed map

To save and print the map, select the 'Markup & Printing' tab. Click 'Create Map.' Select General Use Map and choose General Map with Legend or Without Legend. Check that the output format is set to 'PDF.' Click 'Print.' Click 'Open File.' You can now save or print the map.



Ontario AgMaps Ministry of Agriculture, Food and Rural Affairs français

About Navigation Layers Markup & Printing ☑ Tool Labels ✕

Create Map Export Share Text Edit Export Drawings

Printing Draw

Print Map ✕ < I want to...

Select Layout
General Map with Legend

Output Format
Pdf
Tiff
Bmp
Gif
Jpeg
Png

Title

Lock print preview with map

Print Cancel

Home Create Map Print Map

Area: 78.58 ac
Perimeter: 7,325.34 ft

Lot 10

0.3km

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Ontario AgMaps Ministry of Agriculture, Food and Rural Affairs français

About Navigation Layers Markup & Printing ☑ Tool Labels ✕

Create Map Export Share Text Edit Export Drawings

Printing Draw

Print Map ✕ < I want to...

Your file is ready. To view the file, please click 'Open File'.

Open File

Area: 78.58 ac
Perimeter: 7,325.34 ft

Lot 10

0.3km

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Google

MyMaps

www.google.com/mymaps

For more information please visit

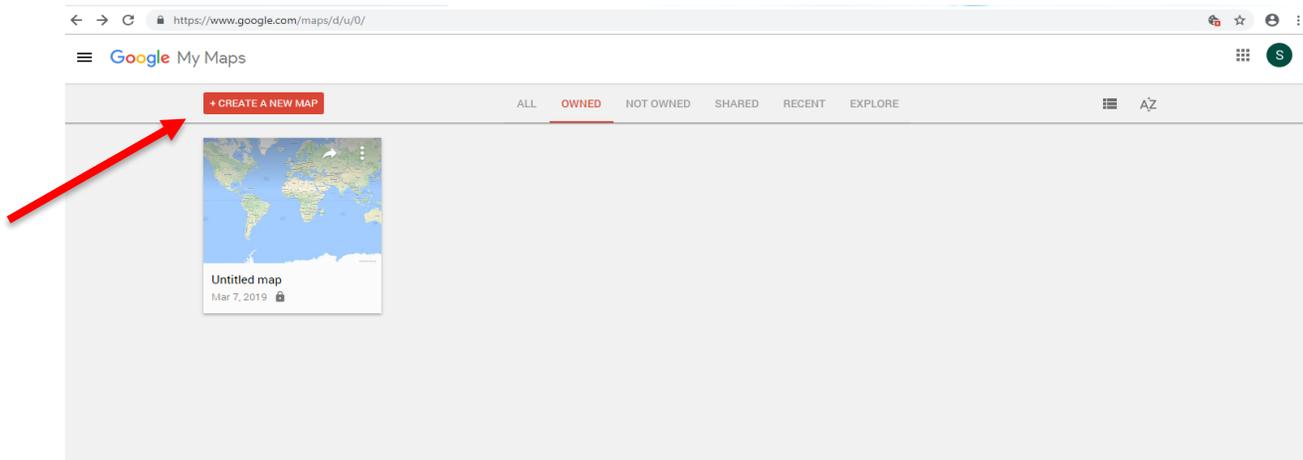
https://support.google.com/mymaps/answer/3024454?hl=en&ref_topic=3188329

Please note that you need to have a Google account to use MyMaps. You already have a Google account if you have a Gmail email address or a YouTube account. If you don't have a Google account, you can create one for free at accounts.google.com.

Google MyMaps lets you add pictures and markers to your maps and share them online with the landowner. It also lets you save a map in progress to come back to it later. However, it does not have property boundaries, CLTIP area or other natural resource information.

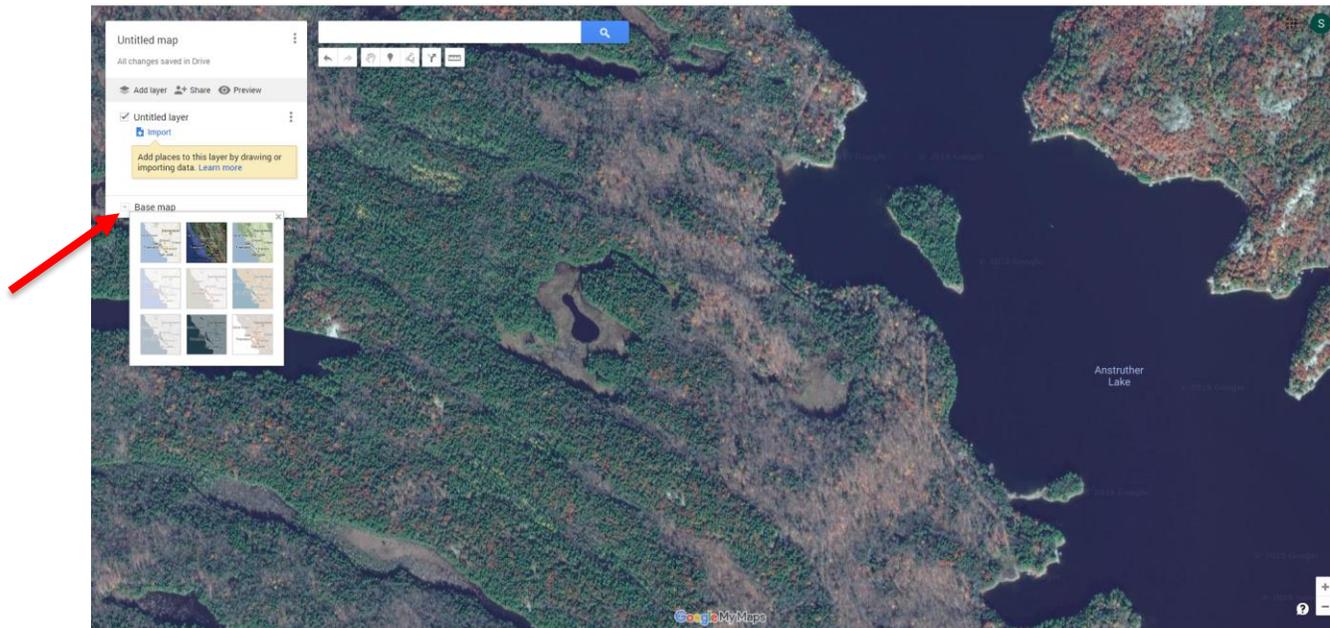
Google MyMaps saves automatically as you go.

Step 1: Select 'Create a New Map'



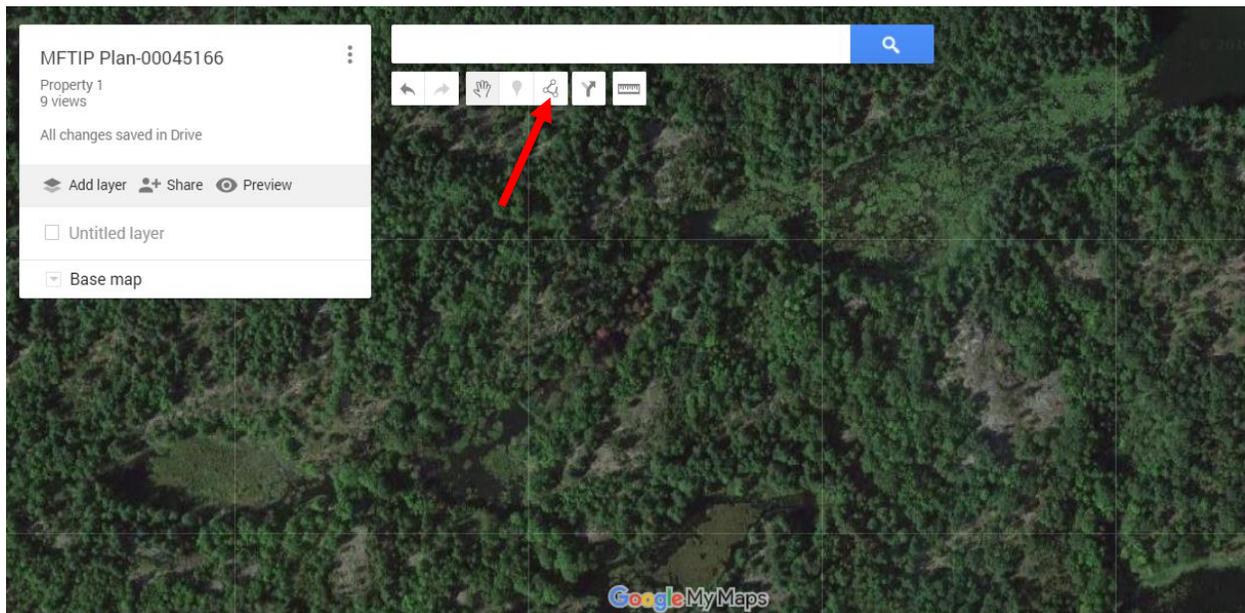
How to view/change map layers

You can change the base map layers that display by selecting the arrow beside 'Base Map.'



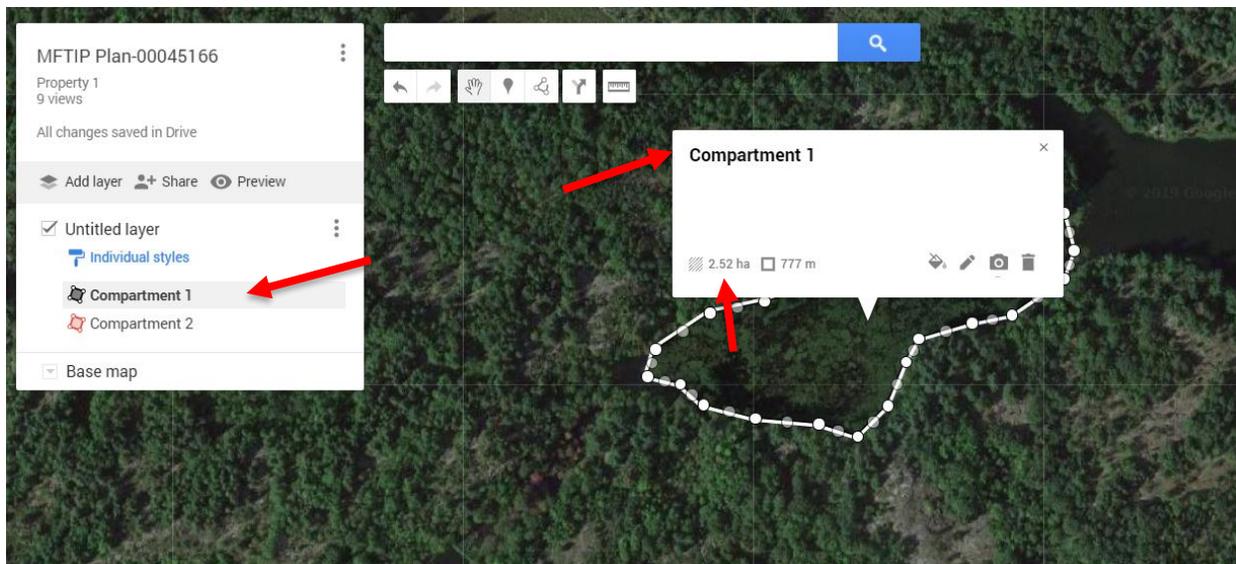
To add a line or shape

Click the 'Draw a Line' button and select 'Add line or shape.'

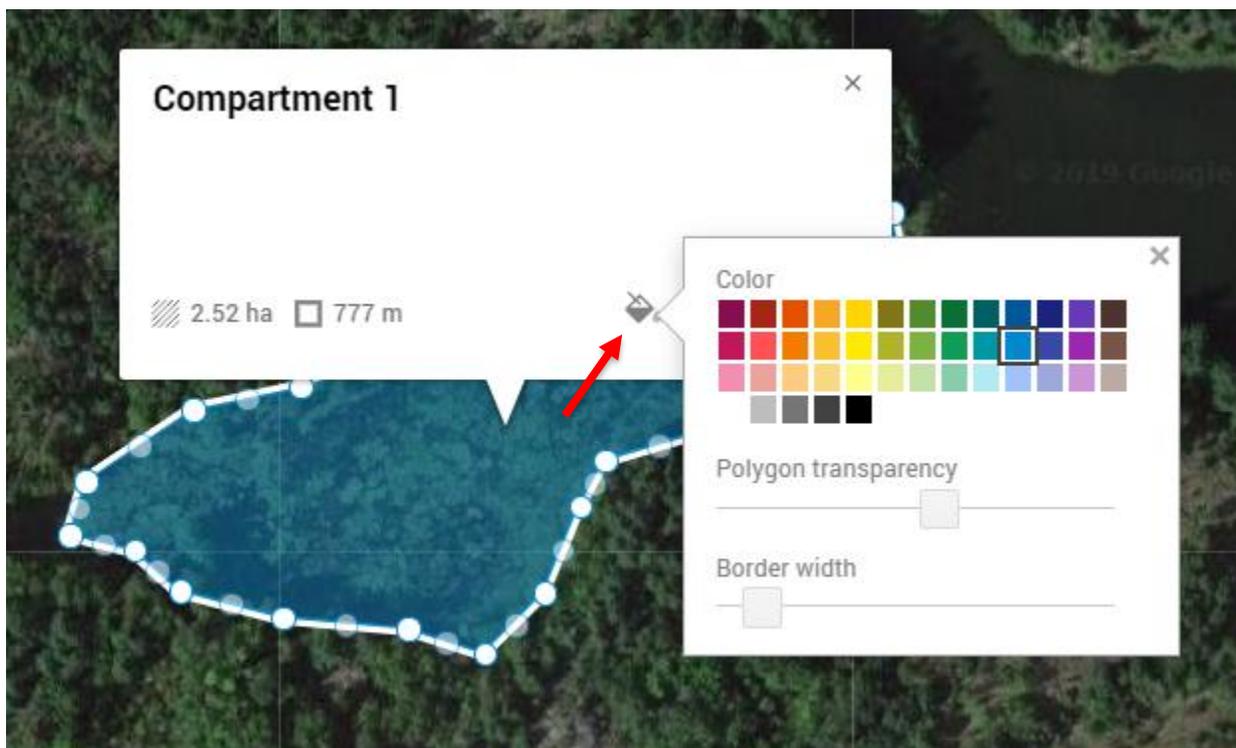


Click on the map to begin drawing. Click to add points. If you are drawing a line, double-click to finish. If you are drawing a shape, click back on the first point you added to close

the loop and finish the shape. A box will appear where you can add a title and see the total area and perimeter of the shape. The shape will then show up in the menu on the left.



To change the colour, click the 'Styles' icon.

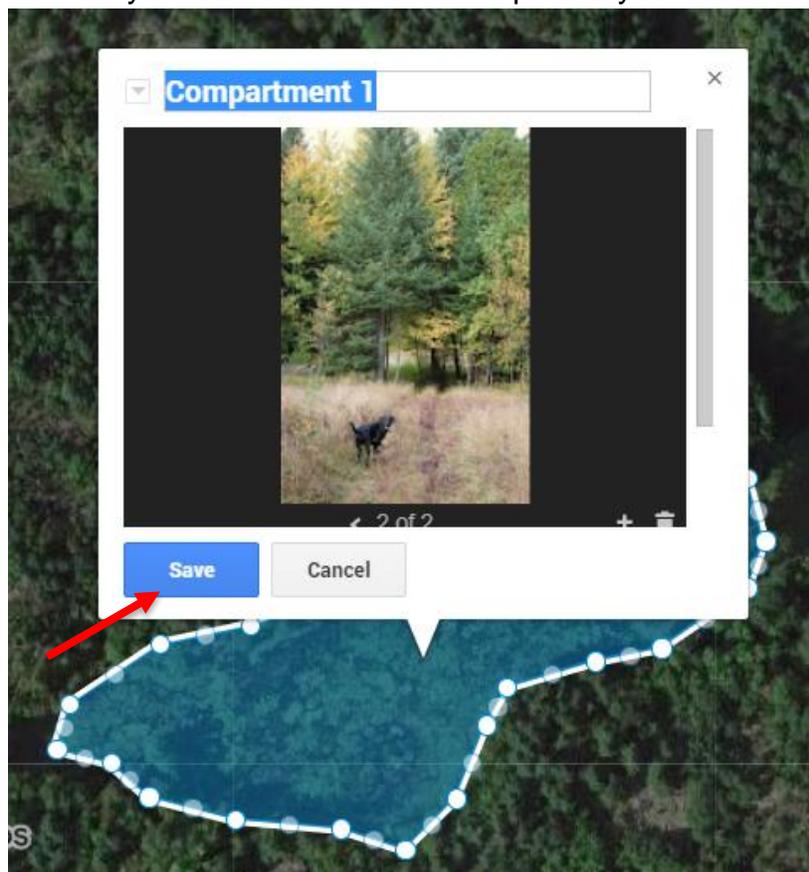


You can click and move the dots around the outside to edit the shape.

You can add a description to the compartment if you wish. Click the camera icon to add a picture to each shape that the user will see when they click on the shape.

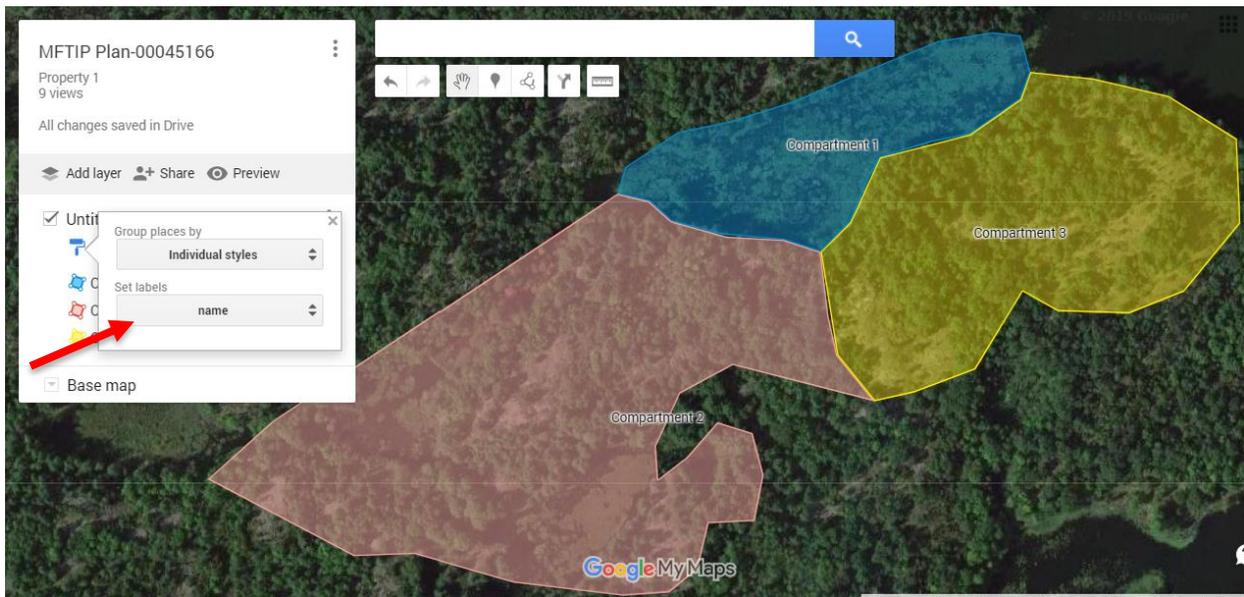


Click 'Select a file from your device' and select the picture you want to add. Click 'Save.'



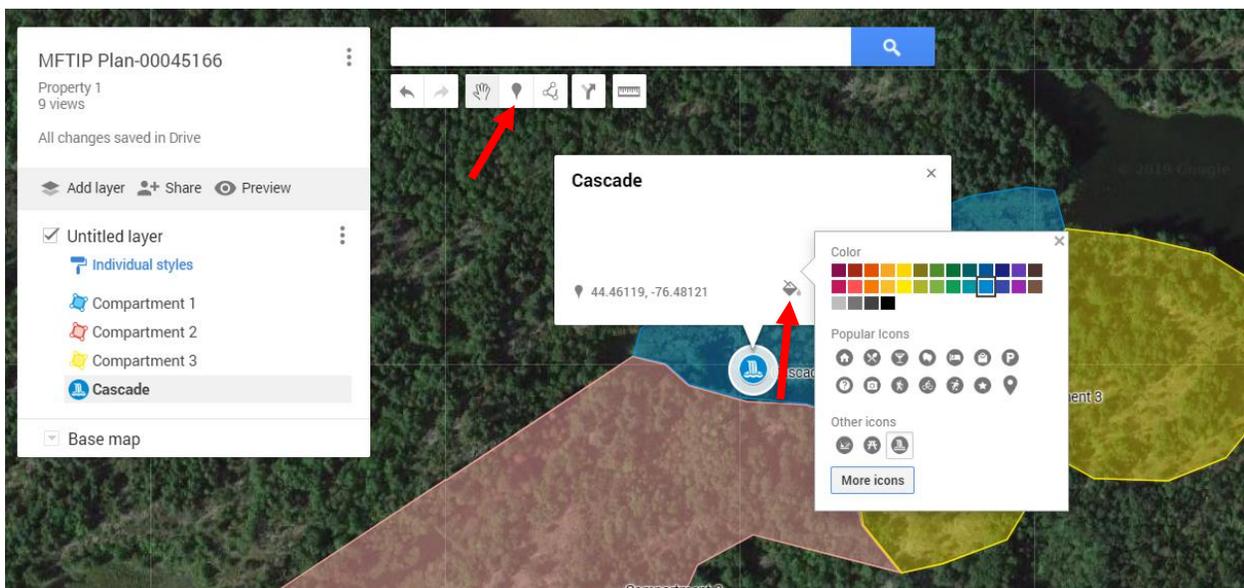
To display shape labels on the map

Click the paint roller icon. Select 'name' under 'Set labels.'



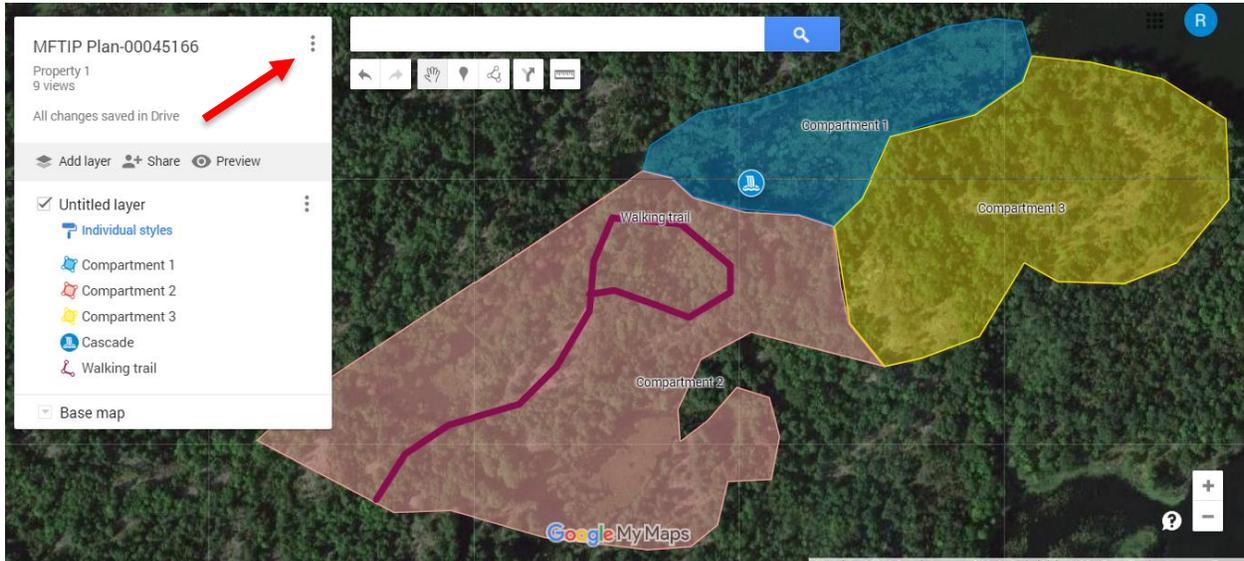
To add points or markers to the map

Click the 'Add marker' button. Click where you want to place the marker. You can change the title, colour and icon that displays under 'Style.'



To print map

Select the 3 dots in the top right corner of the menu. Click 'Print map.' You may want to zoom in a bit closer before printing as it will show a larger area in the printed map than is shown on the screen.



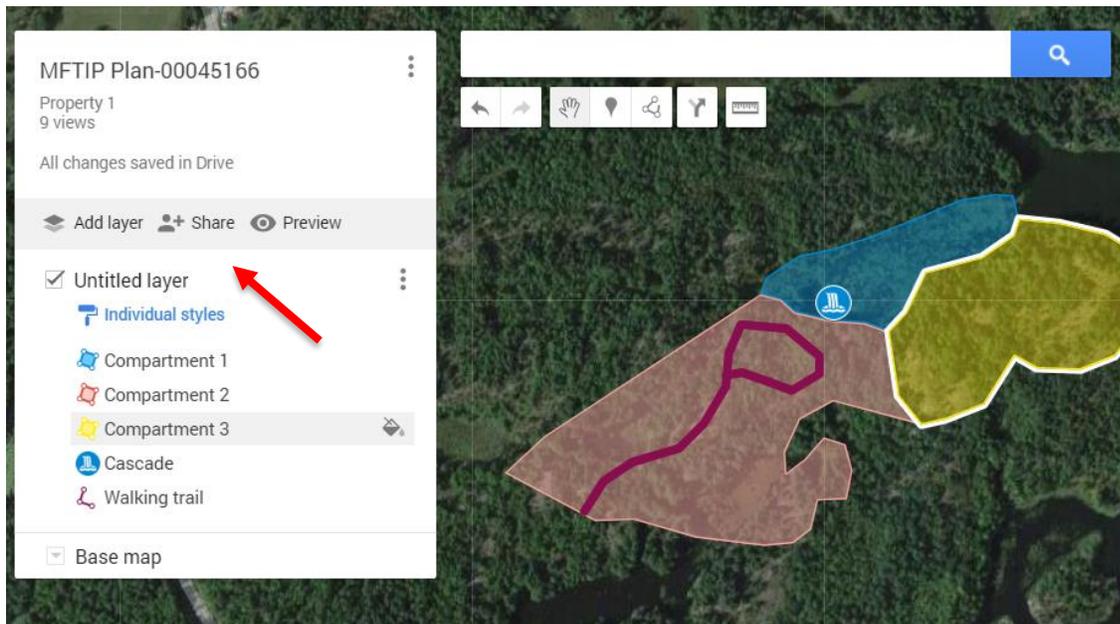
Select the settings you want and click "print". The map will look like this.

MFTIP Plan-00045166



To share the map online

Click on 'Share.'



In the window that opens, you can get a link to the map to send to others, or you can enter email addresses to send them an invitation to view the map. You can change whether the other person can edit the map or just view it without editing.

Sharing settings

Link to share

<https://drive.google.com/open?id=1ZwwztIqLAuizitYXhnHis00dQDFlw5R-&usp=sharing>

Share link via:    

Who has access

 Anyone who has the link can view

[Change...](#)

Invite people:

Enter names or email addresses...



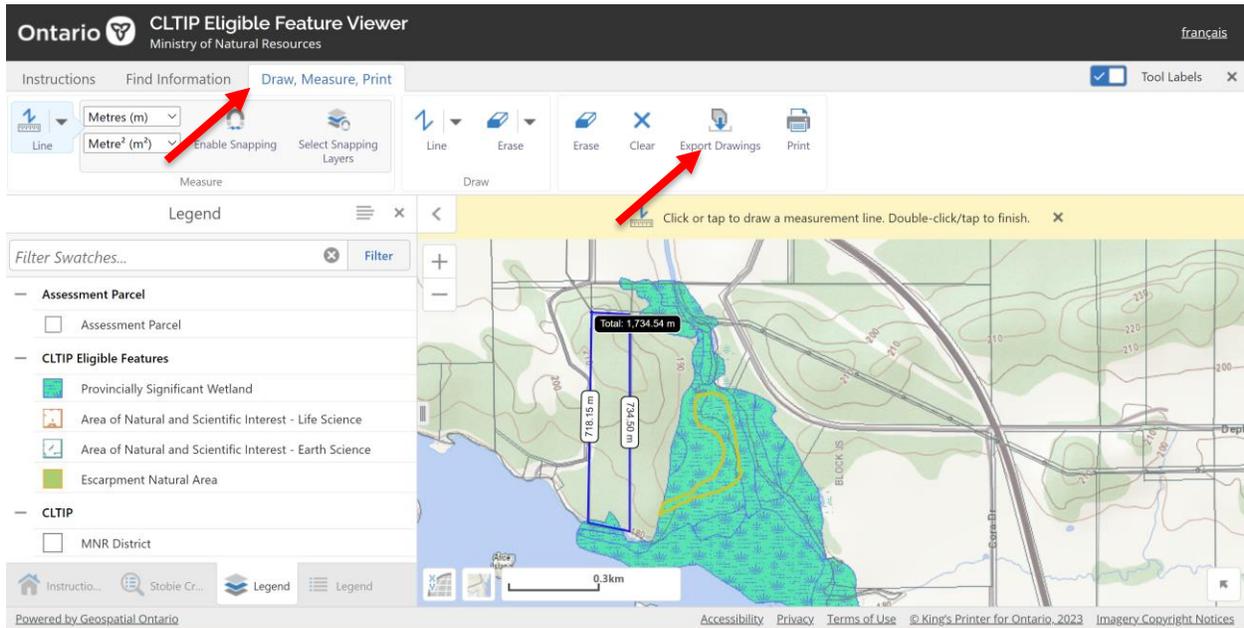
Owner settings [Learn more](#)

Prevent editors from changing access and adding new people

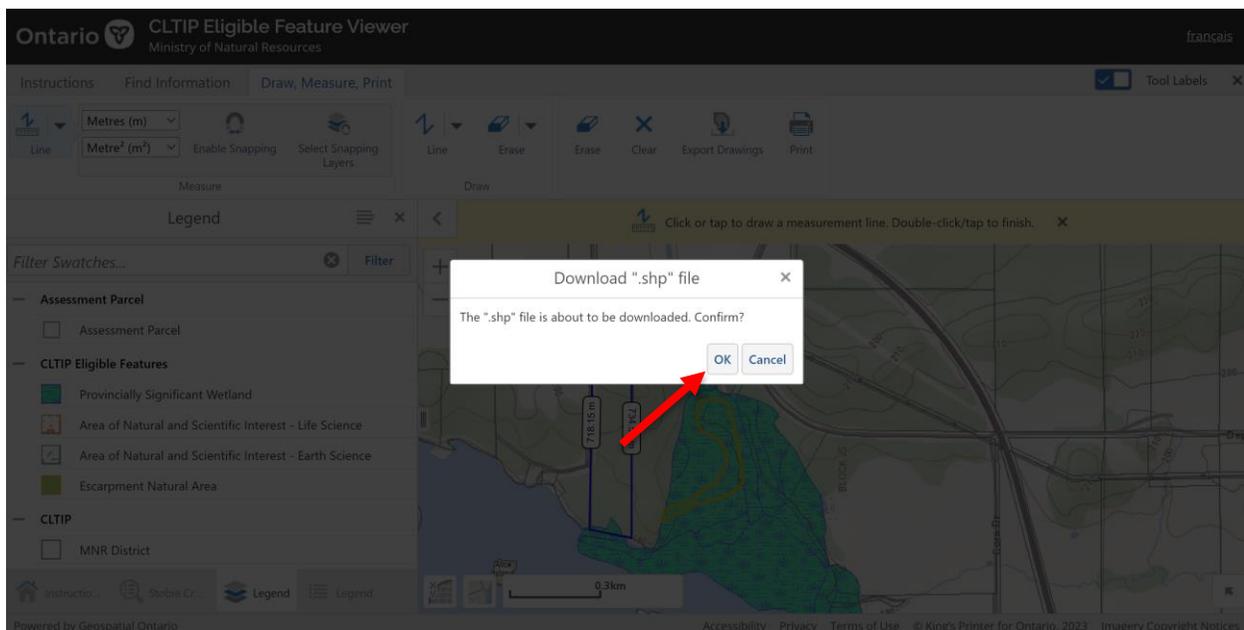
Done

Importing drawing from CLTIP Feature viewer into Google MyMaps

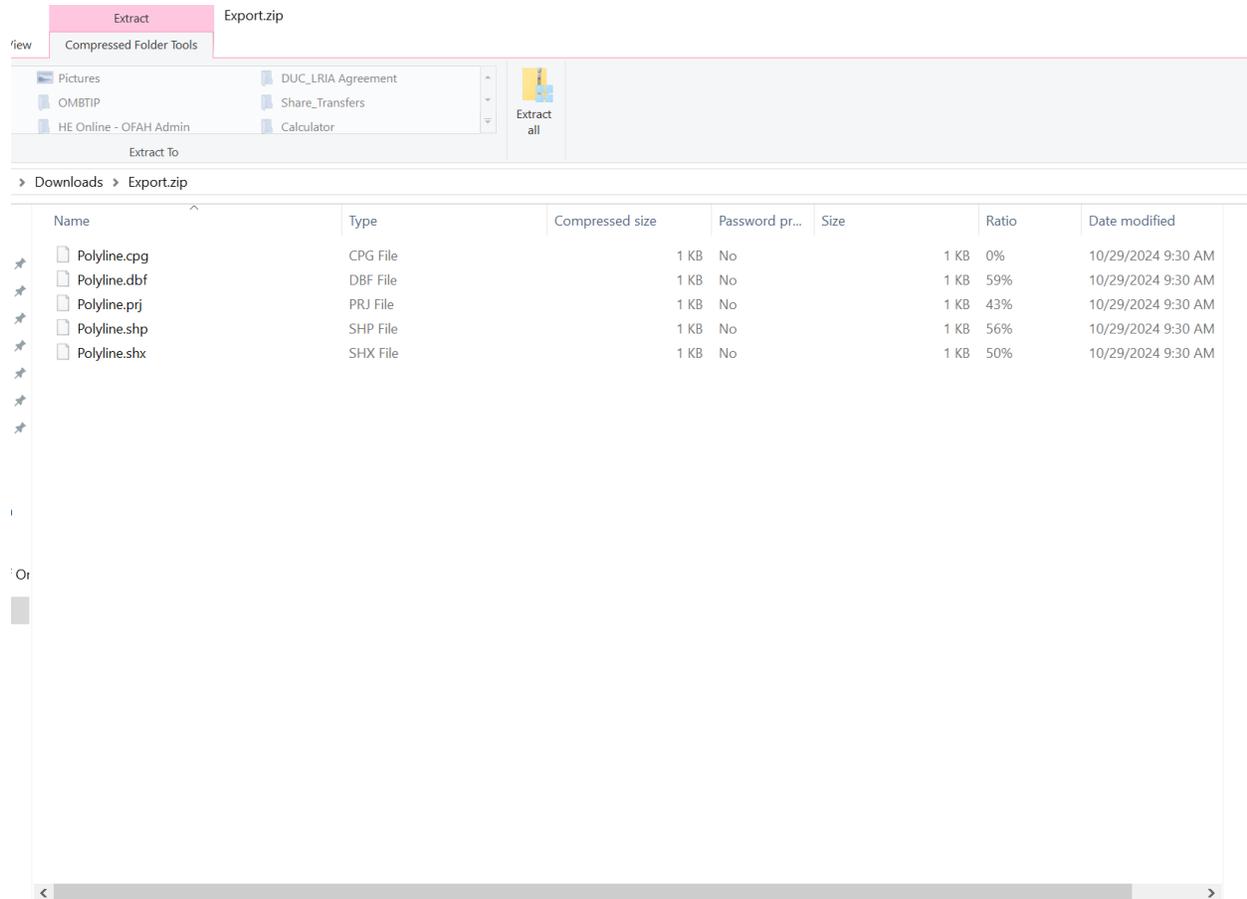
Once you have created your map in CLTIP Feature viewer select the 'Draw, Measure, Print' tab and click 'Export Drawings'



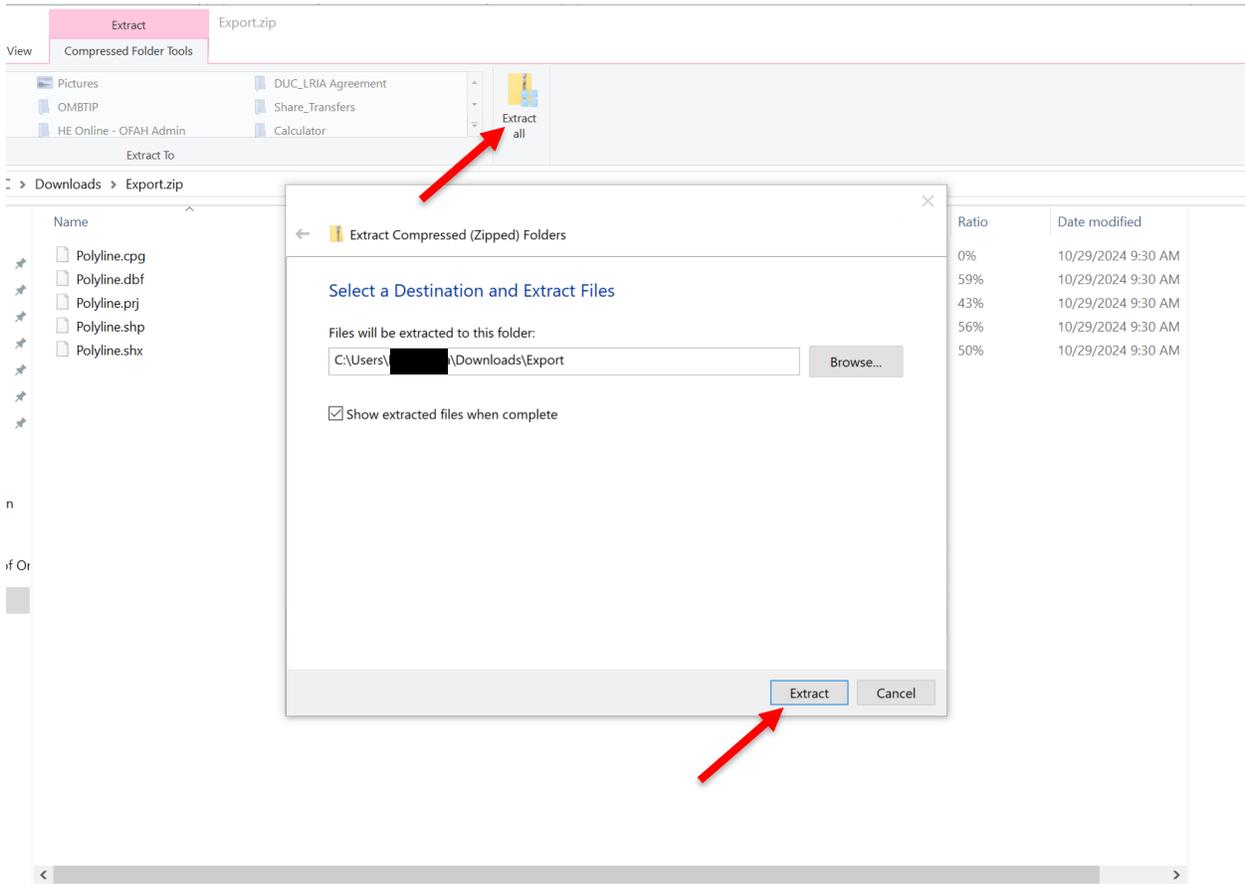
When prompted to confirm click 'OK'



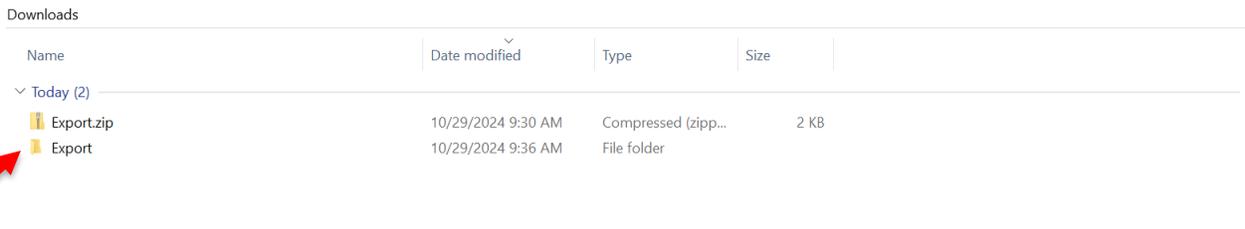
You will have a file named 'Export.zip' downloaded to your computer's 'Downloads' folder. Navigate to this folder and open the file.



Select “Extract all” and then click ‘Extract’ in the menu that pops up.



You will have a new folder in your downloads called ‘Export’.



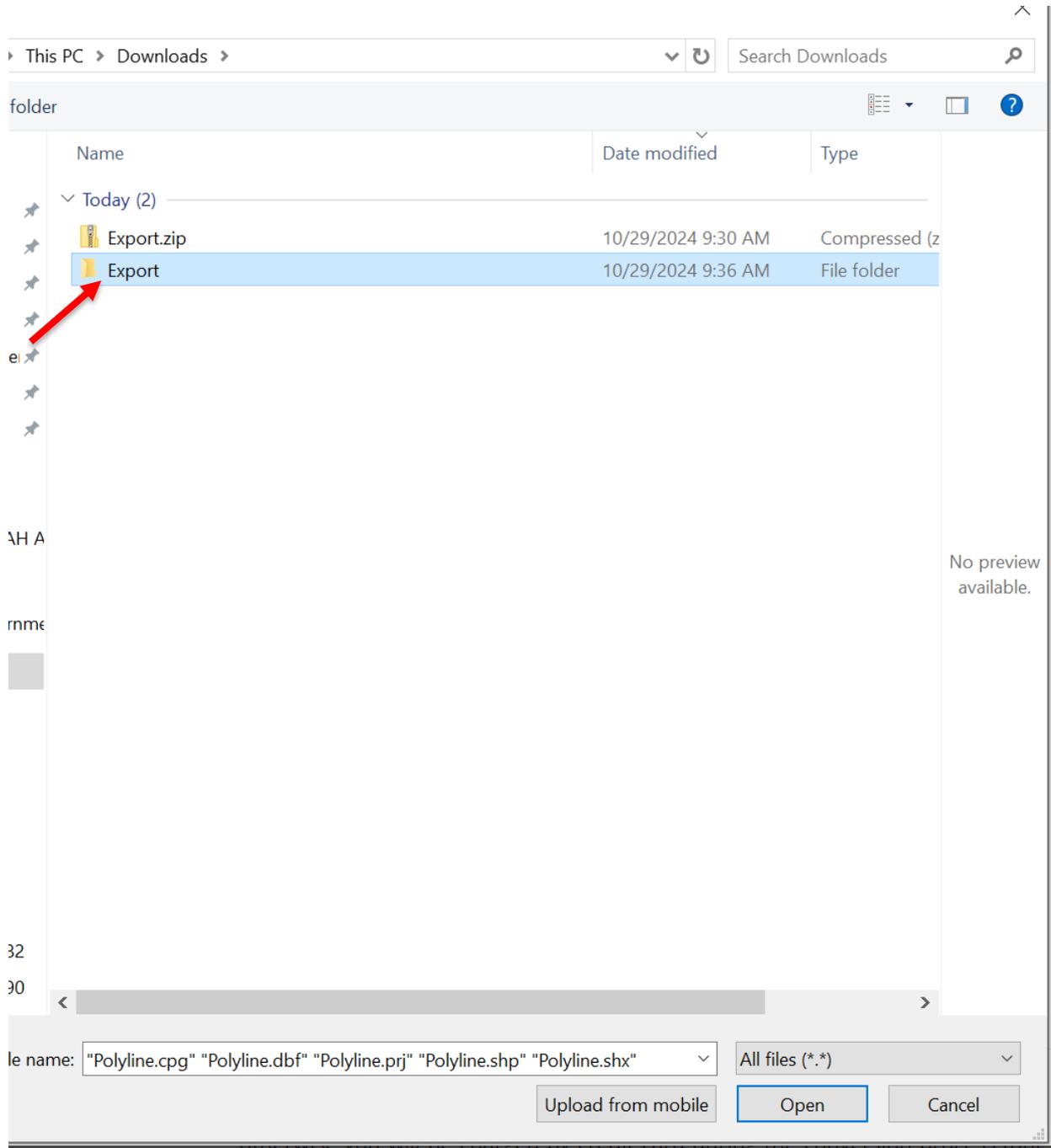
Navigate to “<https://mygeodata.cloud/converter/shp-to-kml>”. Click on ‘Or browse files to convert’ in the ‘Upload your SHP File and Convert’ box. This process will convert the export files from the CLTIP view into KML files for Google MyMaps to read.

The screenshot shows the MyGeodata Converter website. At the top, there is a navigation bar with the logo and links for Home, Apps, Plans, and Sign In. The main heading is "Convert SHP to KML Online" with a sub-heading "Enjoy fast and easy to use online converter for geospatial data!". Below this is a section titled "Upload your SHP File and Convert" which contains a large box with a "Drag & Drop files here..." area and a red arrow pointing to a "Or browse files to convert" button. To the right of this box is a "Conversion from SHP to KML" section with a notice about SHP format and a notice about KML format. Below the upload section are two columns of text: "About MyGeodata Converter" and "Supported coordinate reference systems".

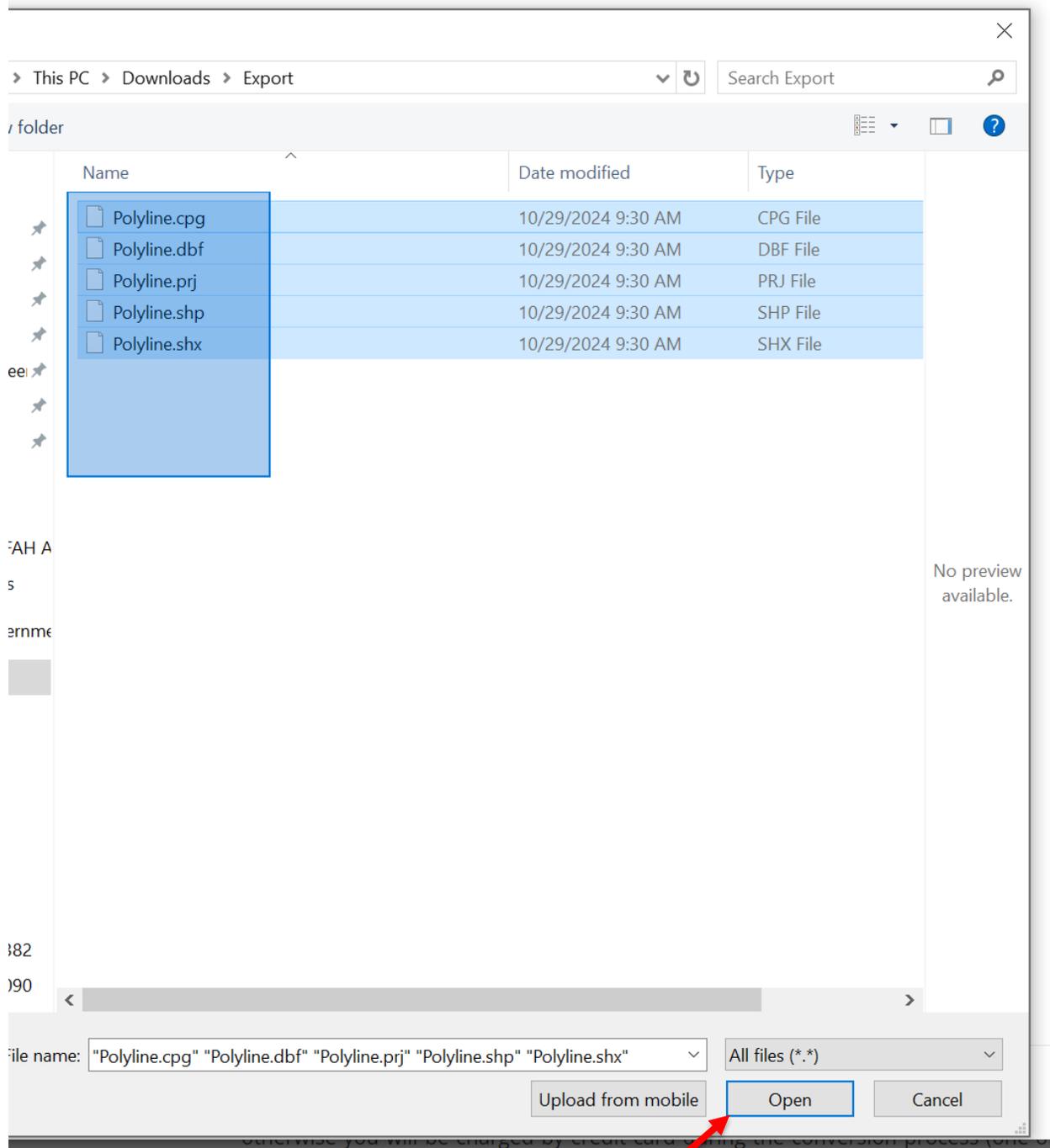
Click the green ‘Add files’ button.

This screenshot shows a file upload interface. At the top, it says "Drag & Drop Files Anywhere Here or Add Files by Browse". Below this, there is a note: "If your data contains any directory, please pack all the file structure to ZIP, RAR, 7Z, TAR or GZIP first. After all data are uploaded, you can continue...". At the bottom of the interface, there are two buttons: a green "+ Add files..." button and a blue "Select from MyGeodata Drive..." button. A red arrow points to the green button. At the bottom right of the interface, there are "Close" and "Continue" buttons.

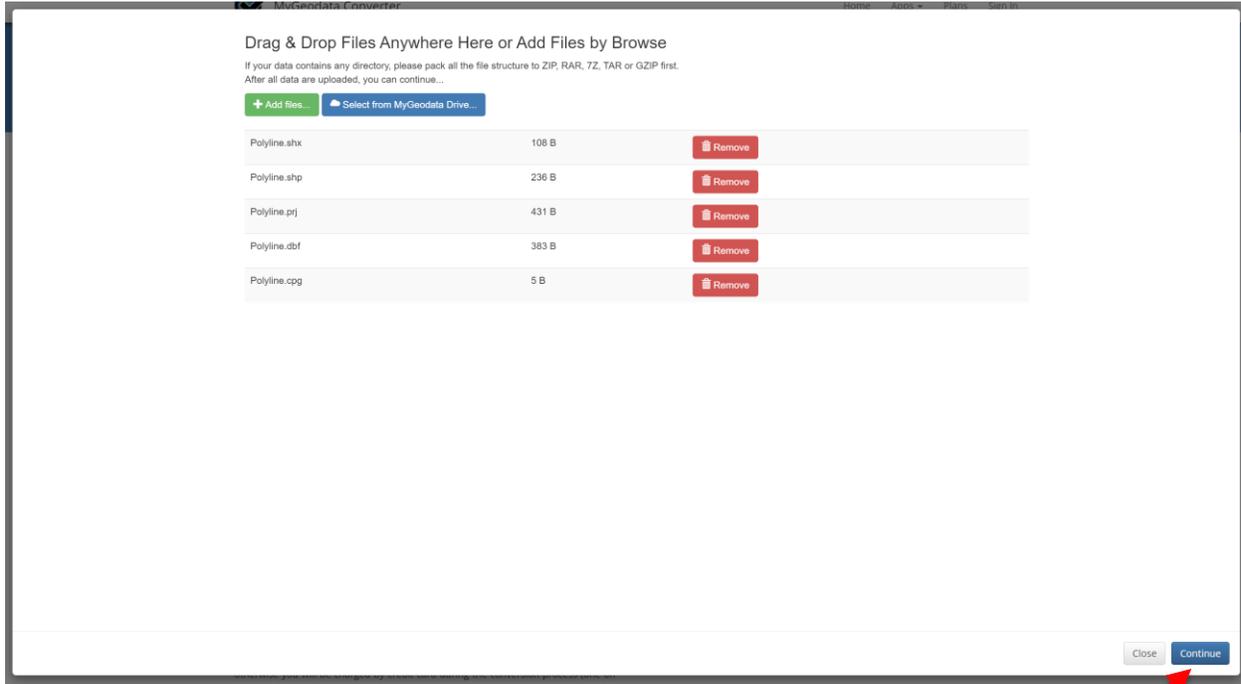
In the pop-up window, navigate to your Downloads and the Export folder that was created in the previous step.



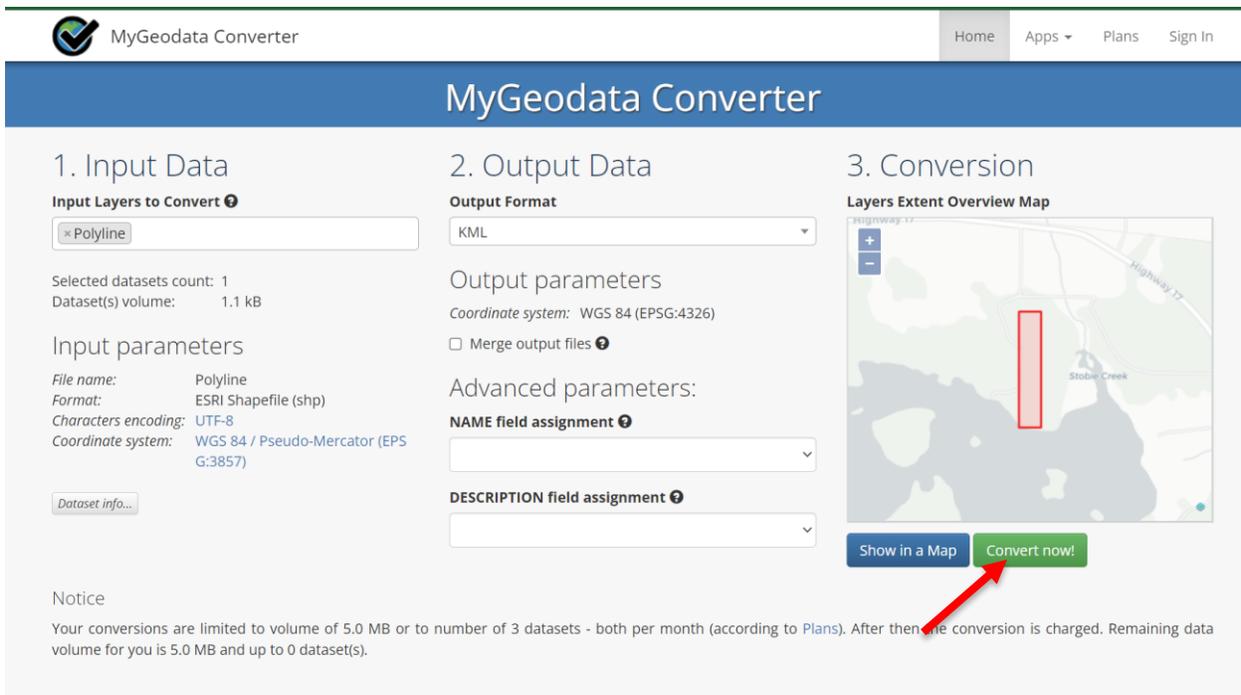
Select all the files in this folder by clicking and dragging your cursor across all of them or by pressing 'Ctrl + A' on your keyboard. Once all files are selected press the open button.



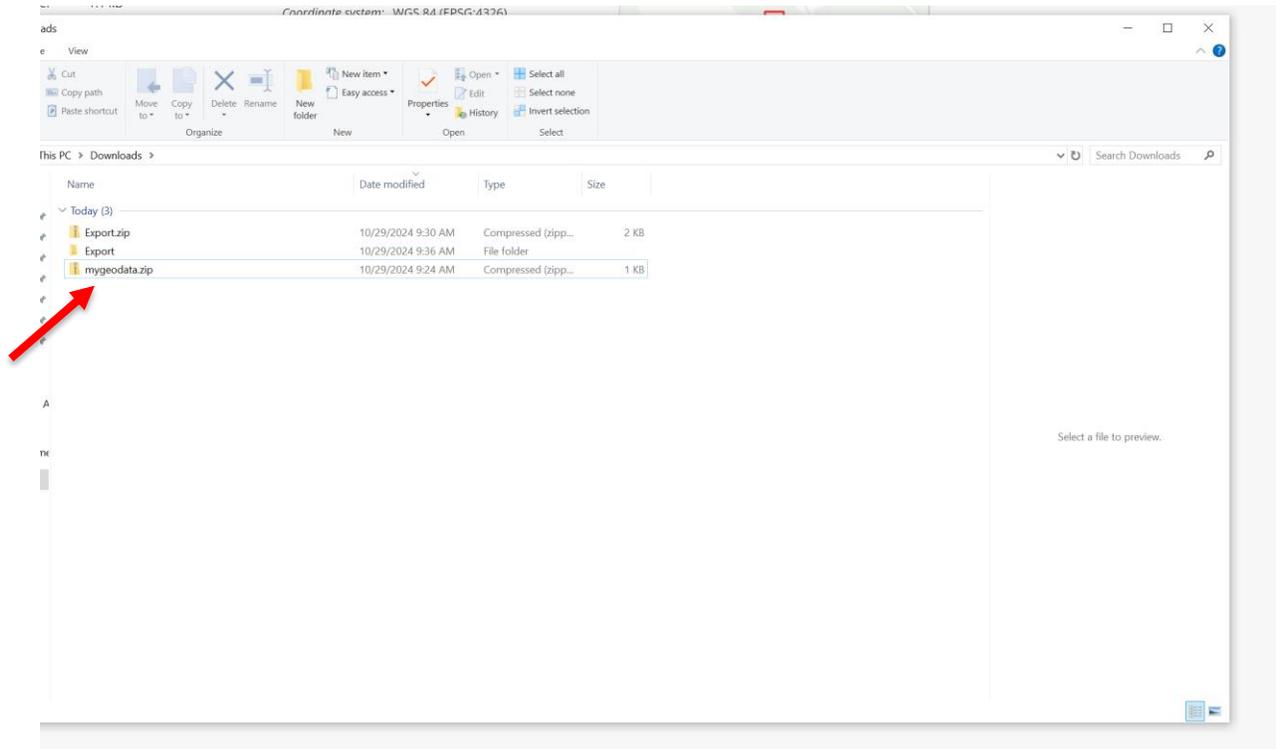
Once all the files have been uploaded. Press the 'Continue' button.



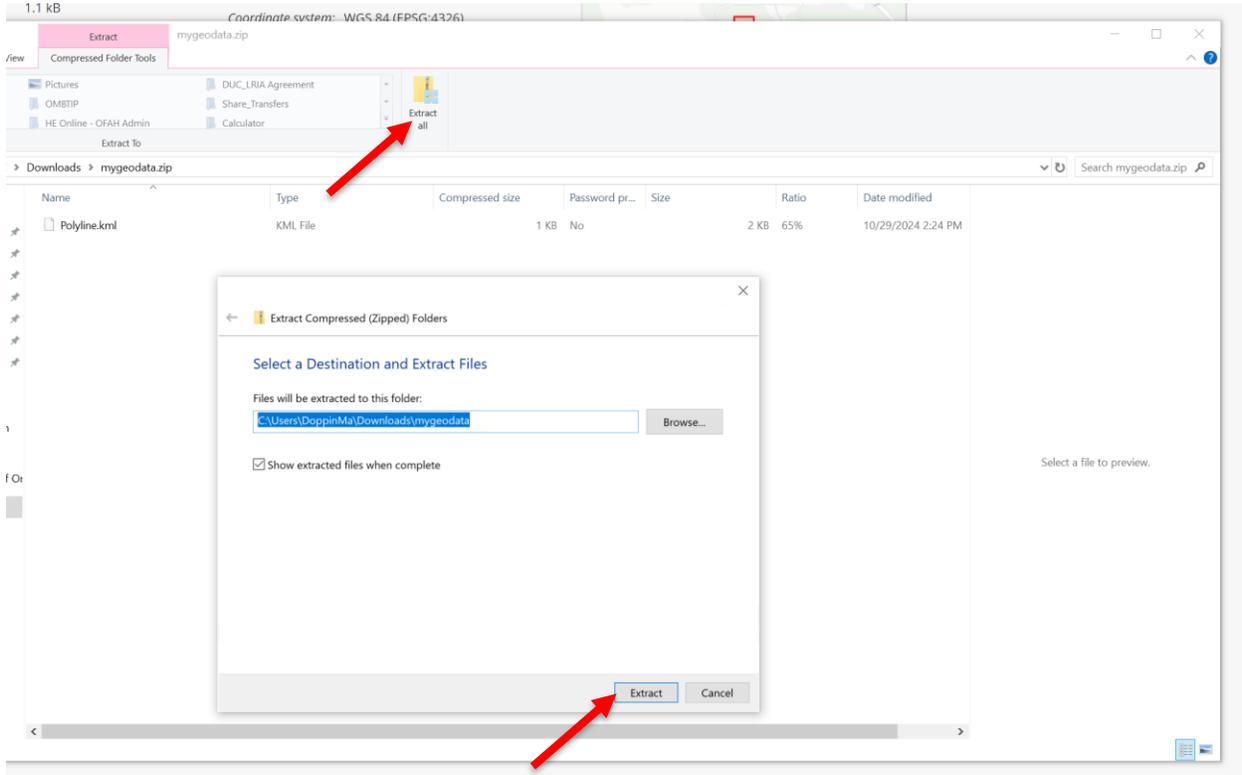
When the files have been imported, wait for the webpage to update. On the new page click 'Convert now!'



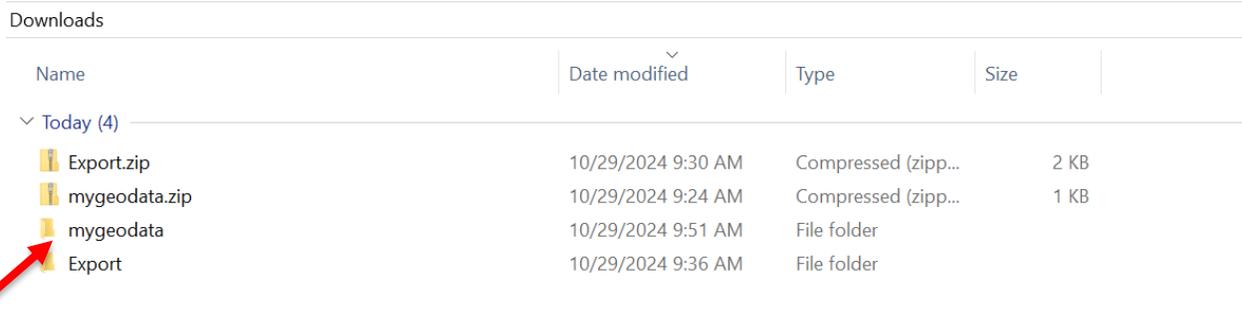
You will receive a file called 'mygeodata.zip' in your computer's downloads.



Open this file by double clicking it. Then click Extract all at the top and the Extract button in the pop up.

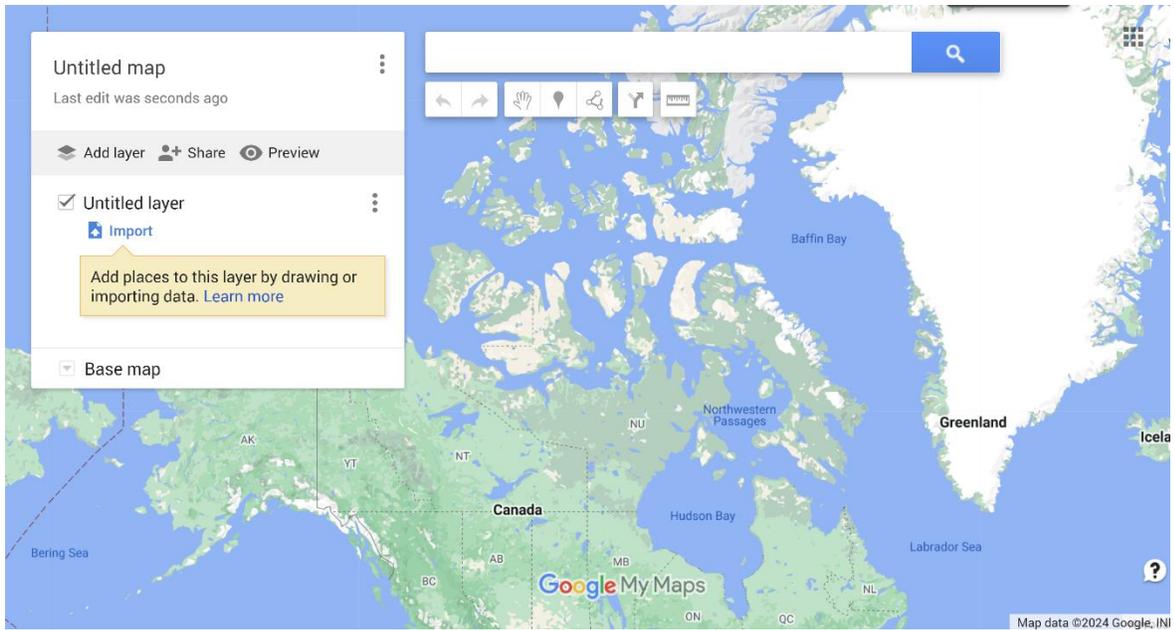


You will have a new folder in your downloads called 'mygeodata'

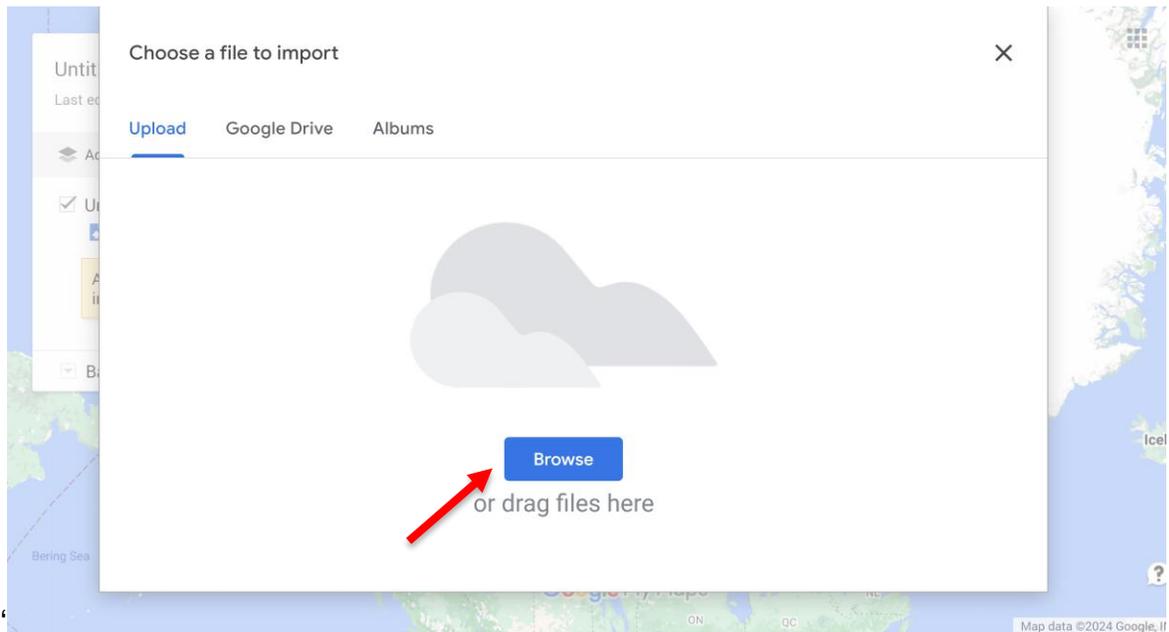


Navigate to Google MyMaps and create a new map as described above. Once you have created a new map select 'Import' under your map options on the left-hand side of your screen.

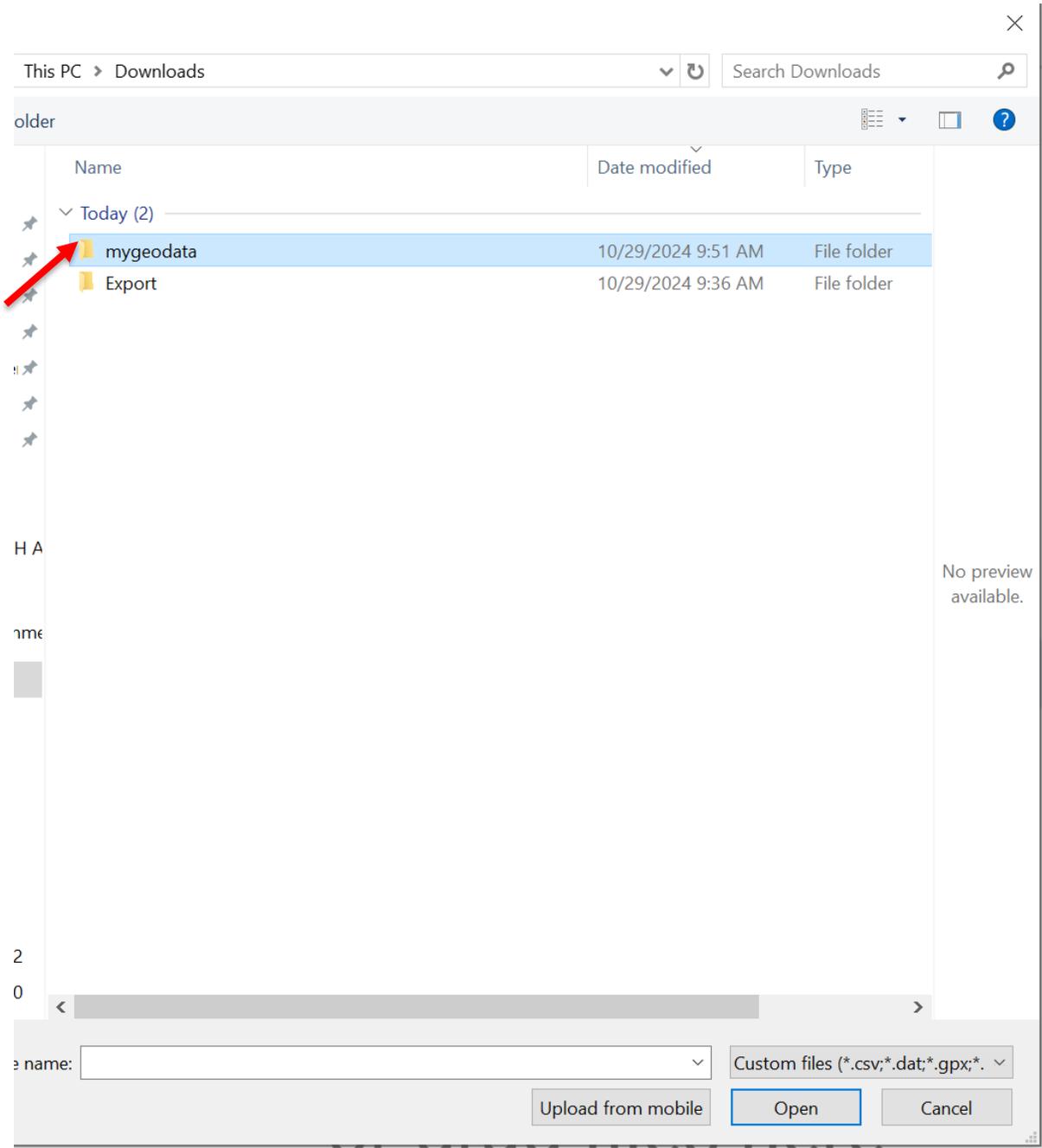




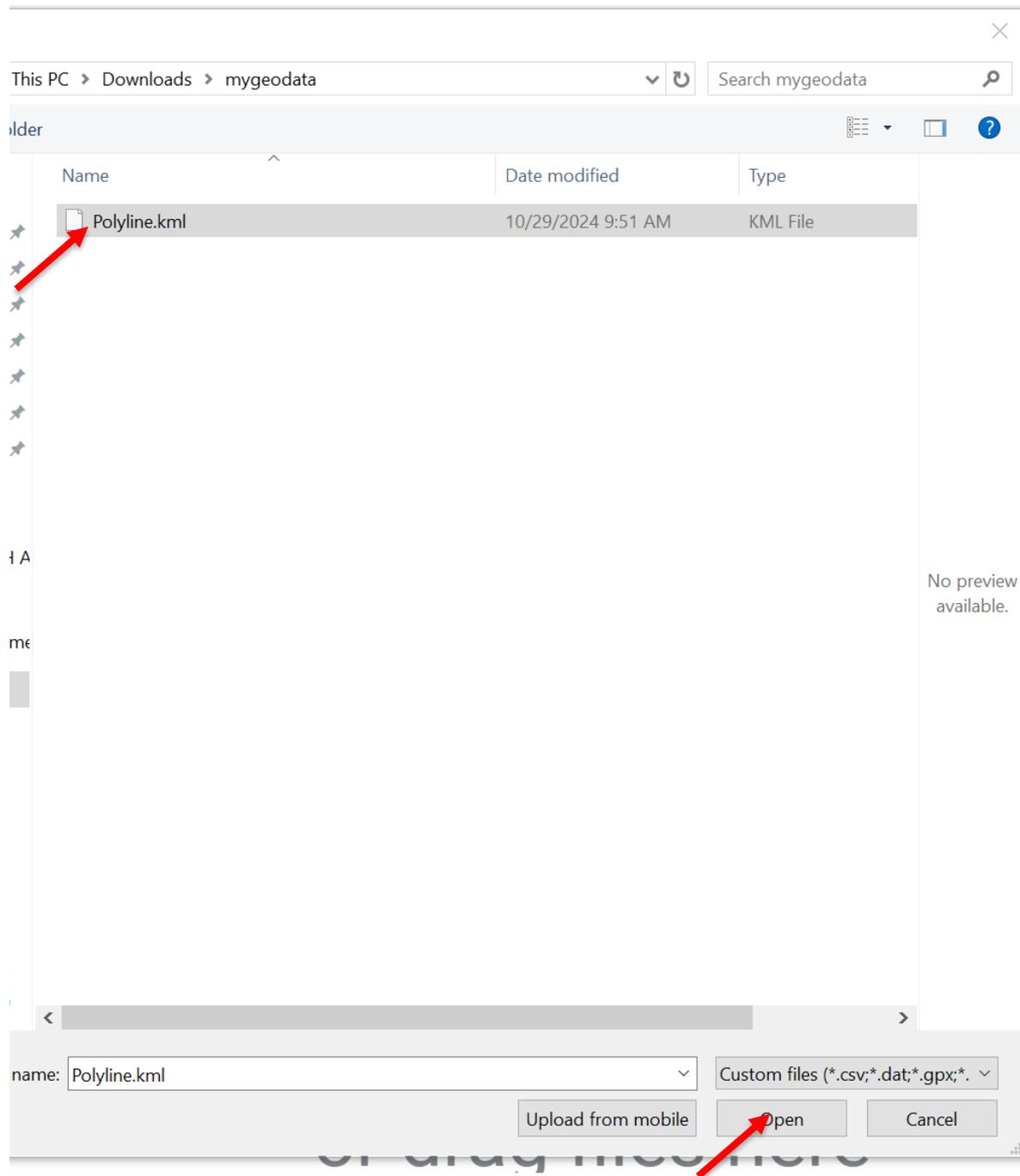
Select 'Browse'



Navigate to your computer's download folder and open the 'mygeodata' folder.



Select the file called 'Polyline.kml' and click 'Open'



The CLITP drawing should now be uploaded into Google MyMaps and you may interact with it as detailed in the prior sections.

