

GESTIM Geoportal

Consultation by map

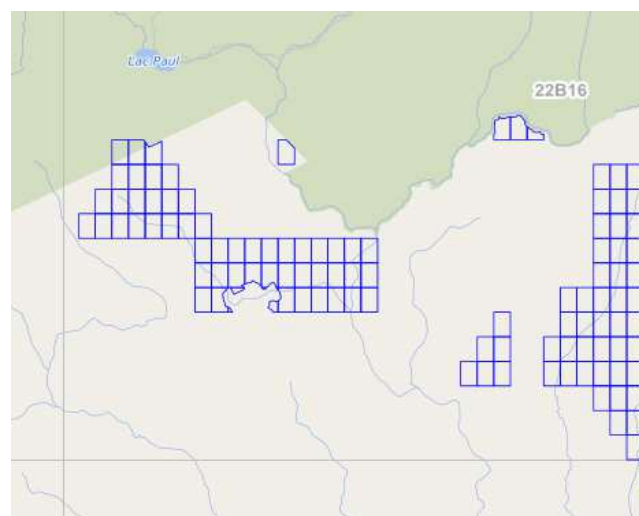
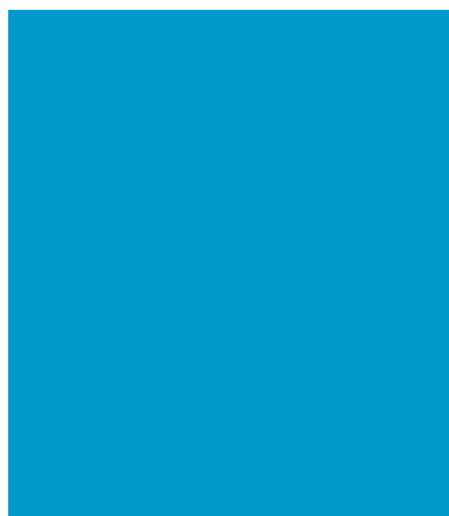
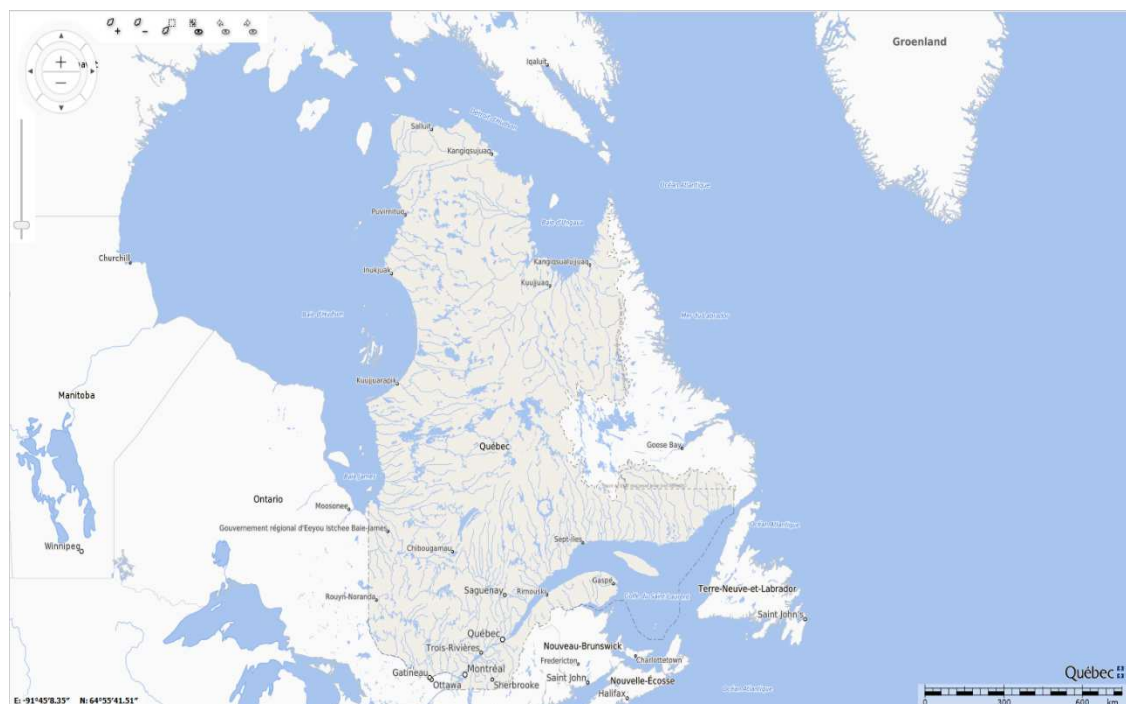
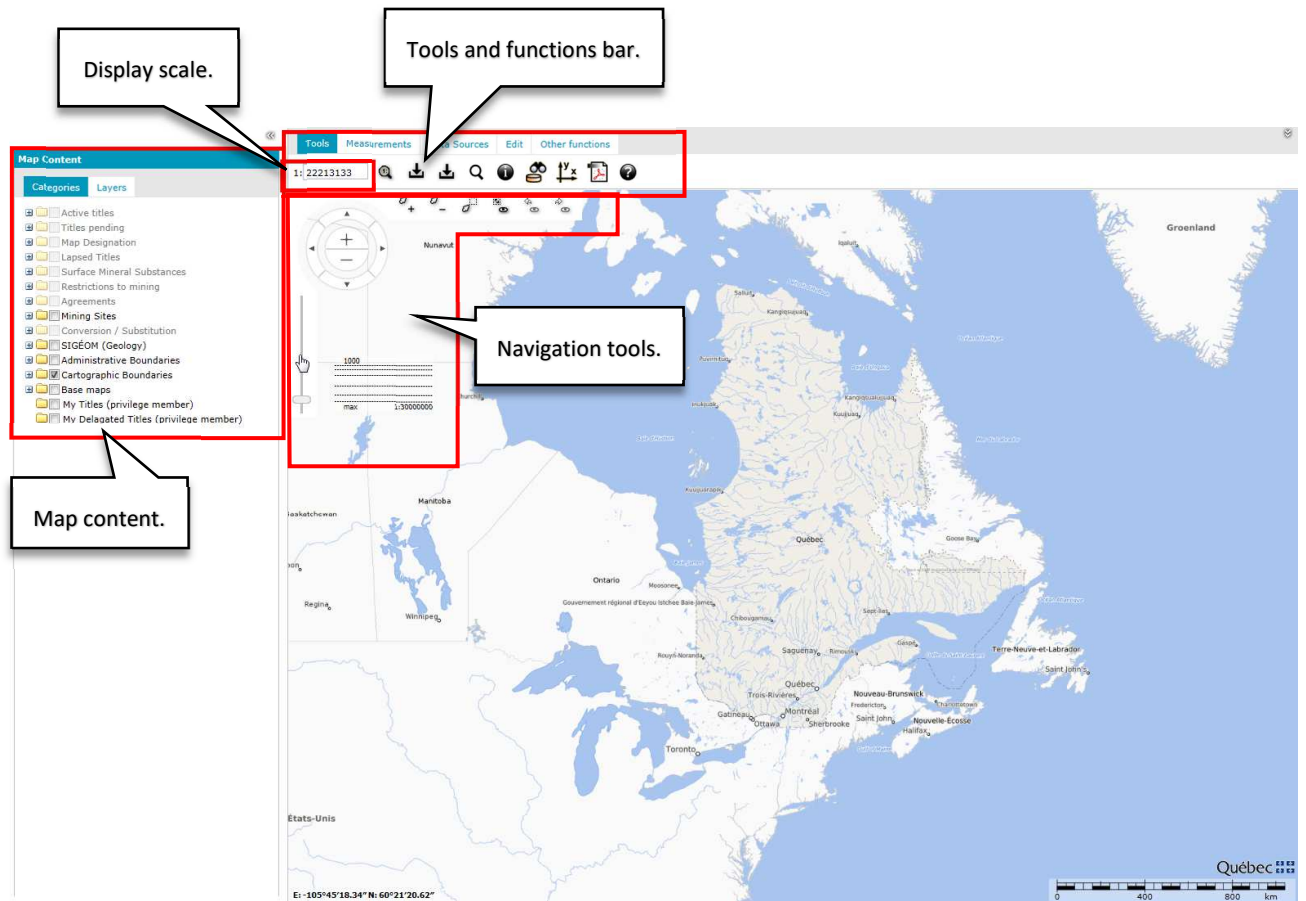


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SECTION 1 : GENERAL PRESENTATION OF MAP



SECTION 2 : GEOPORTAL TOOLS

Section 2.1 : Description of the **Navigation tools**.

Section 2.2 : Description of the « **Tools** » tool bar.

Section 2.3 : Description of the « **Measurements** » tool bar.

Section 2.4 : Description of the « **Data Sources** » tool bar.

Section 2.5 : Description of the « **Edit** » tool bar.

Section 2.6 : Description of the « **Other functions** » tool bar.

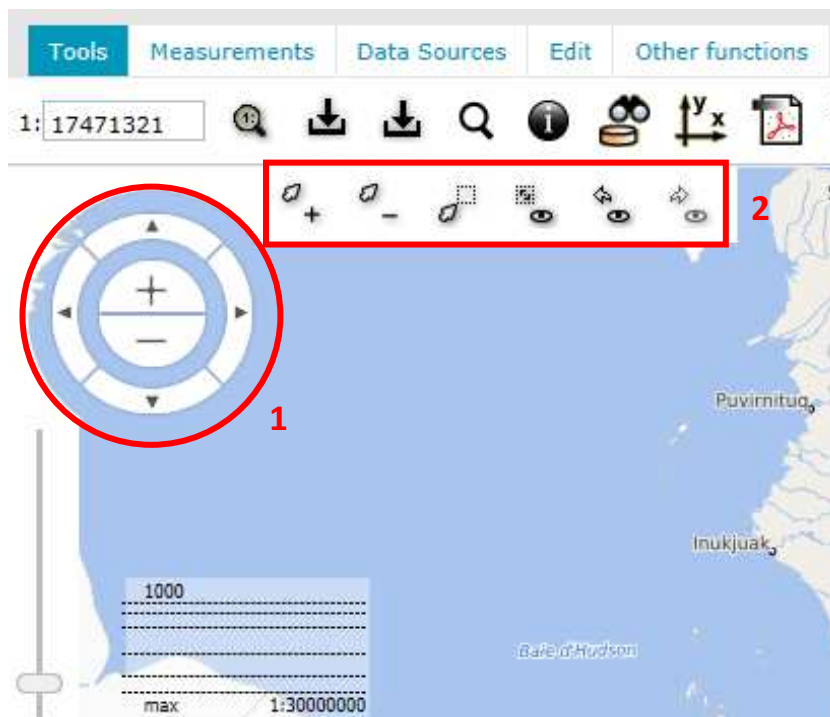
2.1 NAVIGATION TOOLS

You can navigate in the geoportal using the mouse:

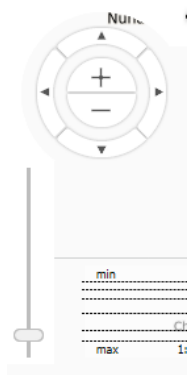
- The mouse scroll wheel can be used with the zoom feature to make a specific area of the map image larger or smaller.
- To move around on the map, click on the map and hold down the left mouse button.

Alternatively, tools can be used to navigate around the map.

The map wheel is a navigation tool that is permanently displayed. It is shown in Section 1. When you place your cursor over the map wheel, other navigation tools described in Section 2 appear. The following image shows these navigation assistance tools.



1. Navigation wheel



The navigation wheel is a tool comprising three functions for navigating on the map.

Plus (+) and minus (-): these signs can be used to zoom in and out on the map.

Arrows: the arrows allow you to move from left to right and up and down on the map.


Scroll bar: this tool is also used to zoom in and out.


2. Other navigation tools





Zoom in (+) : when centred on the map window, this tool enables zooming in.

Zoom out (-) : when centered on the map window, this tool enables zooming out.

Zoom in on a rectangle () : this tool enables zooming in on a selected area of the map using the mouse.

Frame all () : this tool enables fitting the map on all layers checked off under map content.


Previous map window () : this tool enables returning to the previous map frame.


Next map window () : this tool enables returning to the next map frame after using the *Previous map window* function.


2.2 « TOOLS » TOOL BAR





Display Scale (1:) : with this tool, you can view and change the display scale.

Set the Map Scale () : you can use this tool to access the map based on the display scale entered in the « Display Scale » section.

Import Shapefile () : this tool enables adding data from files in Shapefile format to the map. For more details, see Section 4.


Import KML or GPX () : this tool allows adding data from files in KML or GPX format to the map. For more details, see Section 4.


Search and localization () : with this tool, users can search a map by place name, civic address, postal code, NTS sheet number, as well as by name of township or seigneurie. For more details, see Section 5.


Displayed Layers Information () : by clicking on the desired item, the tool enables you to consult the attribute data from the activated searchable layers on the « Legend » tab in the « Map Content » section. For more details, see Section 5.


2.3 « MEASUREMENTS » TOOL BAR



Measure distance (): this tool enables calculating the distance between two entities by tracing a line from one to the other. The user can draw several line segments.


Measure area (): with this tool, the user can calculate the surface area of a given surface by drawing a polygon.


Erase measurements (): this tool allows users to erase measurements taken and displayed on the map.

Show/Hide measurements (): with this tool, measurements that have been taken can be displayed on the map or masked.

2.4 « DATA SOURCES » TOOL BAR




Define a data source (): this tool enables connecting to another data service using a known Web address. Users must know the type of service they wish to connect to, whether WFS, WMS or WMTS. Users can also create personal databases. For more details see Section 6.


Display feature classes and queries (): with this tool, the user can add entity classes to the map content. For more details, see Section 6.


2.5 « EDIT » TOOL BAR




For more information on using these tools, see Section 7.


Insert feature () : this tool allows the user to create a punctual, linear or surface entity in a personal database.


Insert text () : with this tool, text can be added to the map.


Edit geometry () : this tool enables users to add, delete or move one or a number of points of an existing geometry.

Continue geometry () : with this tool, the user can continue the geometry of an existing surface entity. For example, creating a hole in an entity or adding a new geometry to the entity.

Move geometry () : this tool can be used to move the entity selected to another place on the map.


Remove part of geometry () : with this tool, users can delete part of a geometry and not the entire geometry.


Remove selected features from the database () : this tool enables deleting a selected entity from a personal database.

Insert marker/annotation () : with this tool, users can add annotations to the map.

2.6 « OTHER FUNCTIONS » TOOL BAR

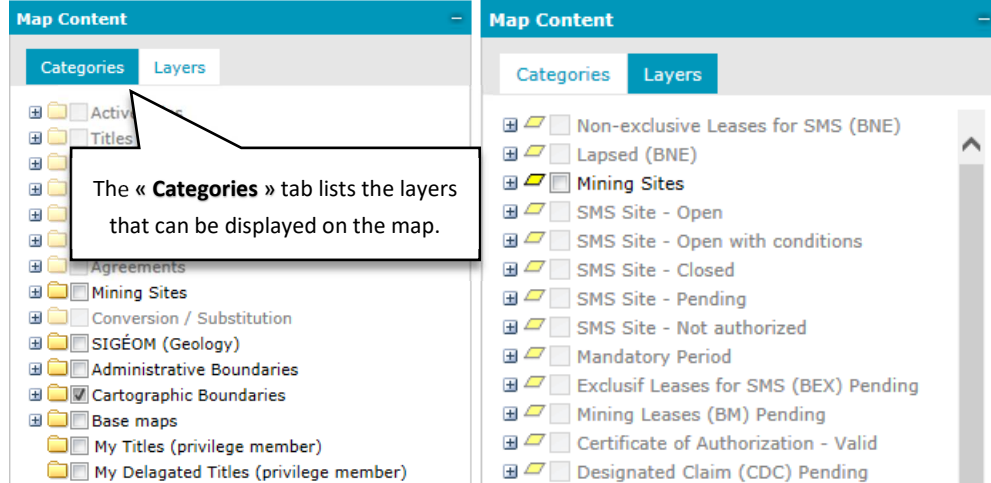


Export (kml, shp) () : this tool enables the user to export an entity layer in KML or Shapefile format. For more details, see Section 4.

Locate by coordinates () : with this tool, users can find a particular location using coordinates. The four following coordinate systems are available in the North American Datum 1983 (NAD83) geodetic reference system.

- Geographic (longitude and latitude)
 - Decimal degrees or degrees-minutes-seconds
- Lambert Québec
 - East (X), North (Y).
- Universal Transverse Mercator (UTM)
 - East (X), North (Y).
- Modified Transverse Mercator (MTM)
 - East (X), North (Y).

SECTION 3 : PRESENTATION OF DISPLAY MENU



On the « **Categories** » tab, users may check off the layers they wish to see displayed on the map.

On the « **Layers** » tab, the user can manage layer arrangement, i.e., select the order in which layers will appear on the map.

SECTION 4 : IMPORTING AND EXPORTING DATA


Section 4.1 : Description – **Importing data in Shapefile format.**

Section 4.2 : Description – **Importing data in KML or GPX format.**

Section 4.3 : Description – **Managing imported data.**

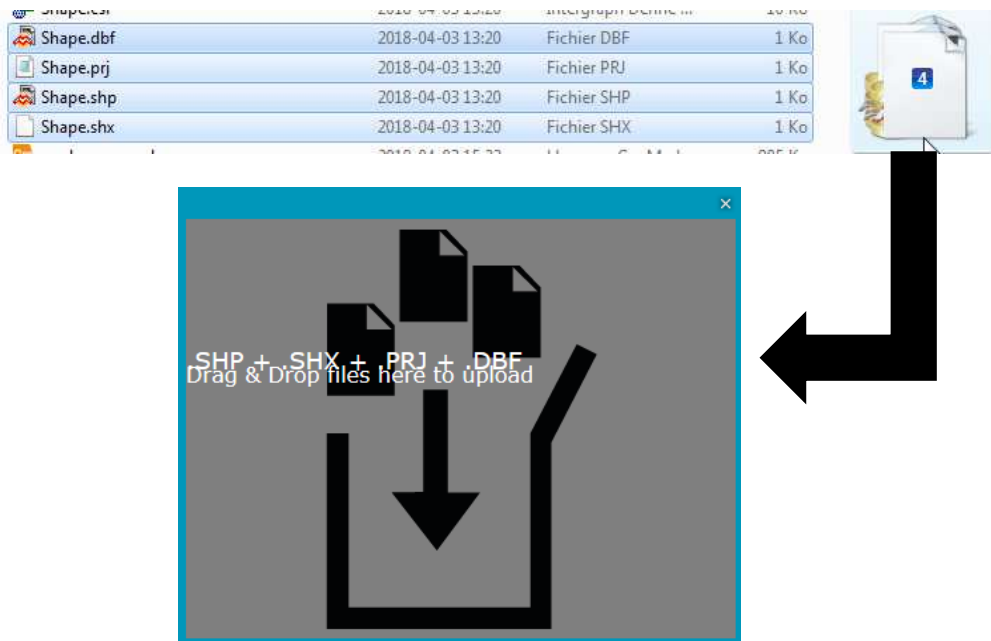
Section 4.4 : Description – **Exporting data in Shapefile or KML format.**

4.1 IMPORTING DATA IN SHAPEFILE

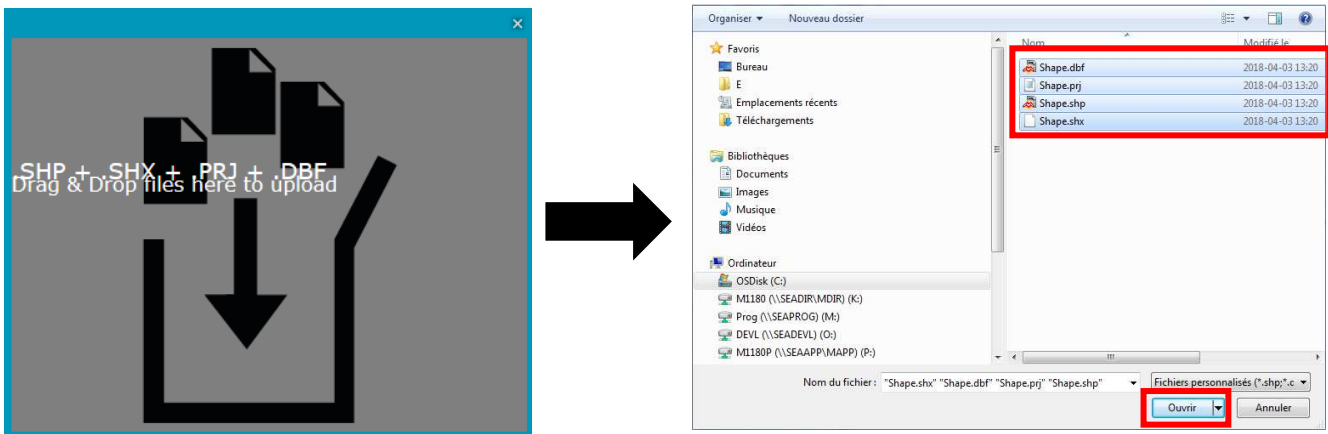
On the « **Tools** » tool bar, click on **Import Shapefile** (.

The following two methods are available:

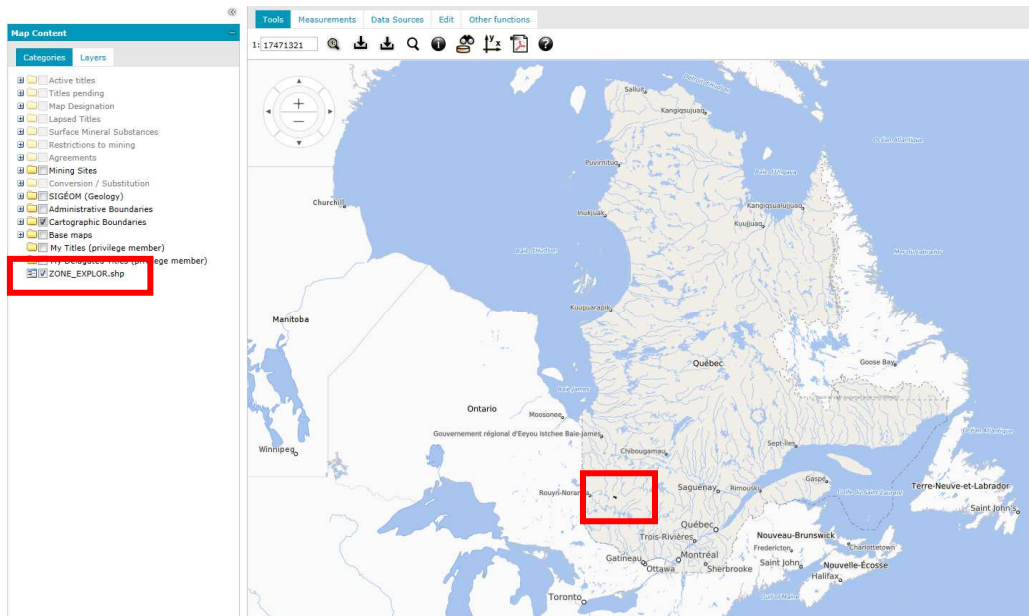
- 1- In the window that opens, the user drags and drops the four files comprising the Shapefile (file extensions .SHP, .SHX, .PRJ and .DBF).




- 2- The user can also click on the following image. A Window's dialog box will open and the user can navigate among the files to select the files comprising the Shapefile (.SHP, .SHX, .PRJ, .DBF).



The Shapefile is displayed on the display menu and on the map.

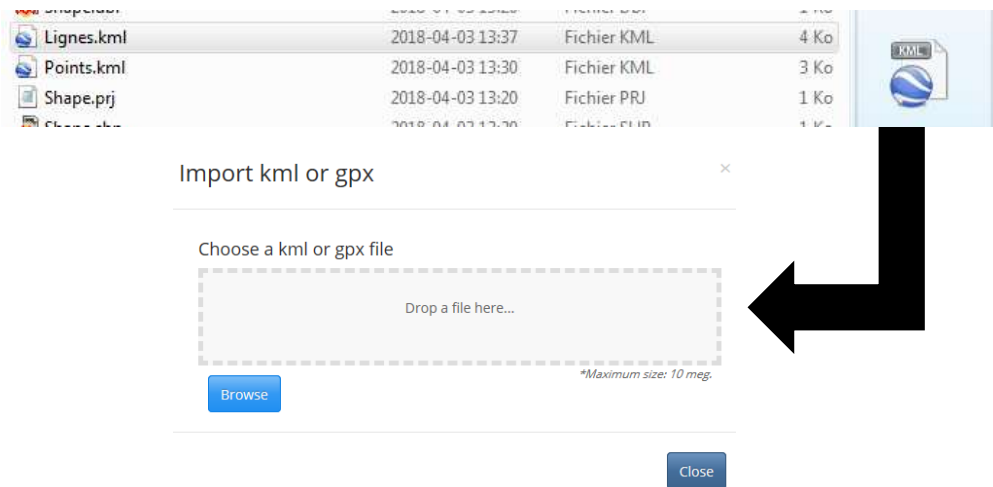


4.2 IMPORTING DATA IN KML OR GPX

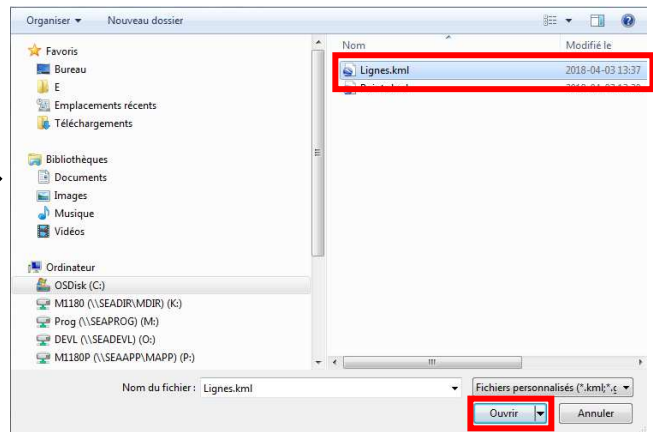
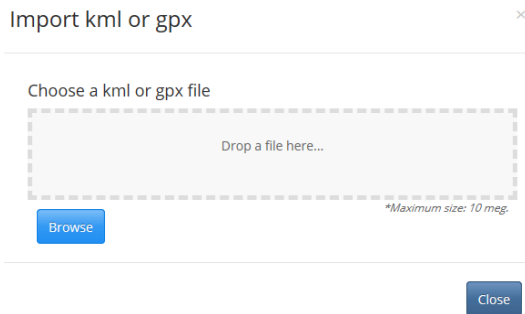
On the « **Tools** » tool bar, click on « **Import KML ou GPX** () ».

The following two methods are available:

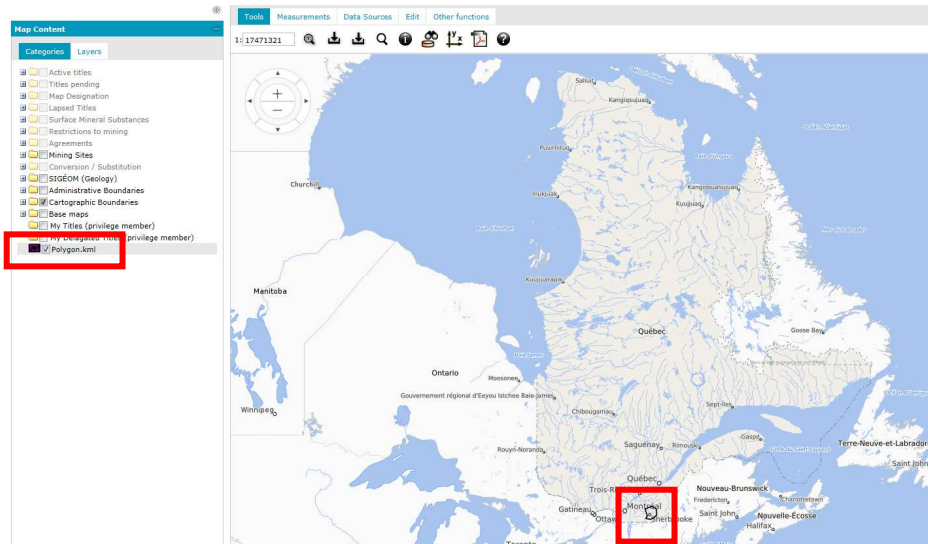
- 1- In the window that opens, the user can drag and drop the KML or GPX file.



- 2- The user can also click on the following image or on the « **Browse** » button. A Window's dialog box will open and the user can navigate among the files to select the KML or GPX file that the user wishes to add to the map.




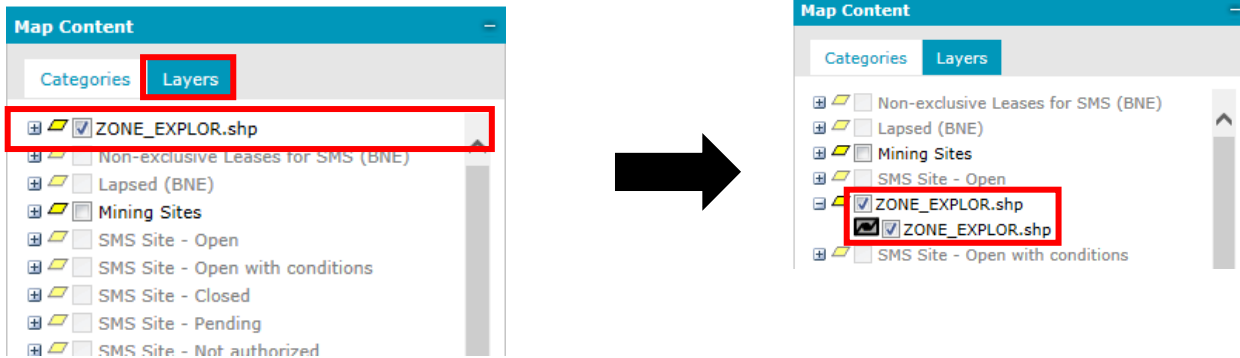
The KML or GPX file will appear on the display menu and on the map.



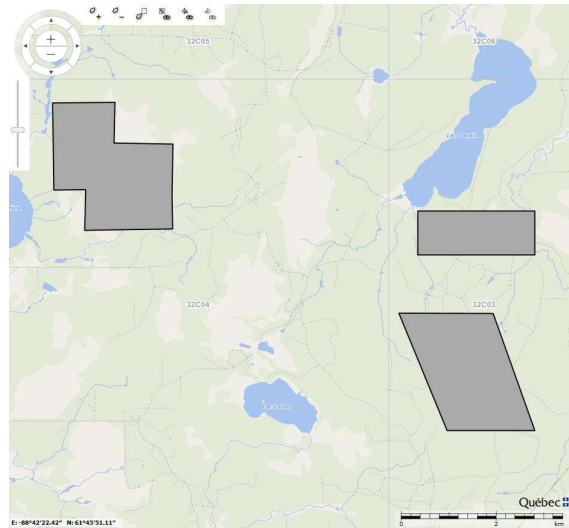
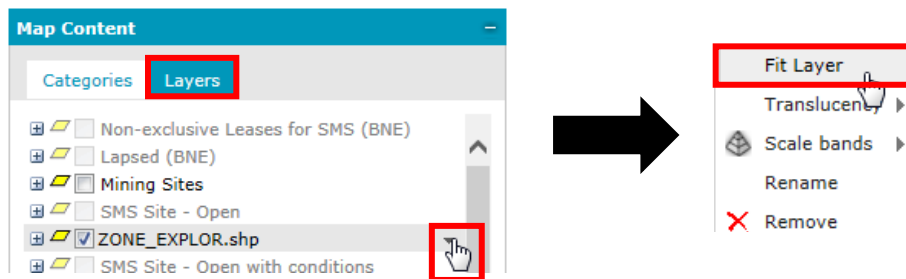
4.3 MANAGING IMPORTED DATA

Data imported to the map can be managed. Users can select the layer display order, fit the map on the layer and determine the layer presentation style.

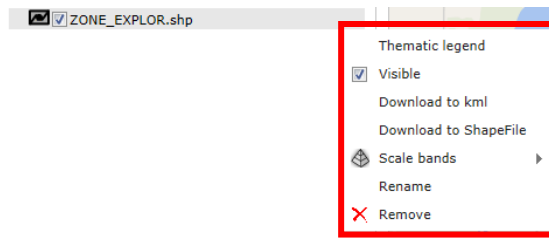
To select the layer display order, go to the « **Layers** » tab. Click on the layer holding down the left mouse button, then move the cursor slightly and the following image will appear: . Next, move the layer to the desired position and release the left mouse button.



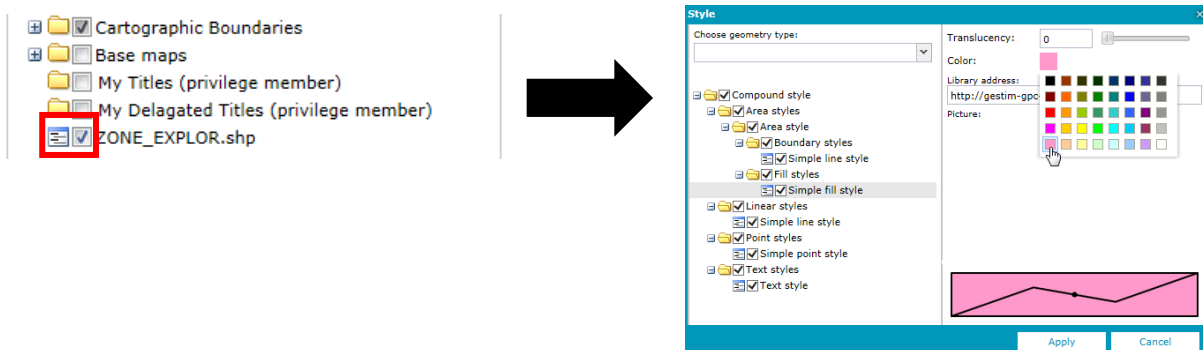
The map can be centred on the imported data layer. To do this, select the « **Layers** » tab. Next, move the cursor over the layer corresponding to the imported data. An arrow will appear. Click on the arrow. Then on the menu that is displayed, click on the « **Fit Layer** » tab.




The user can select certain display settings for the layer on the « **Categories** » tab, by clicking on the black arrow to the right of the layer.



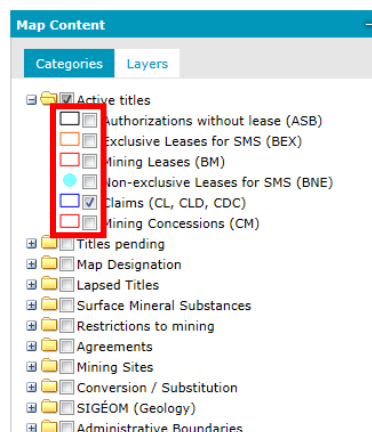
It is also possible to change the layer style by clicking on the icon to the left of the layer name. In the box that opens, the user can select the desired colour, transparency and line thickness, etc.




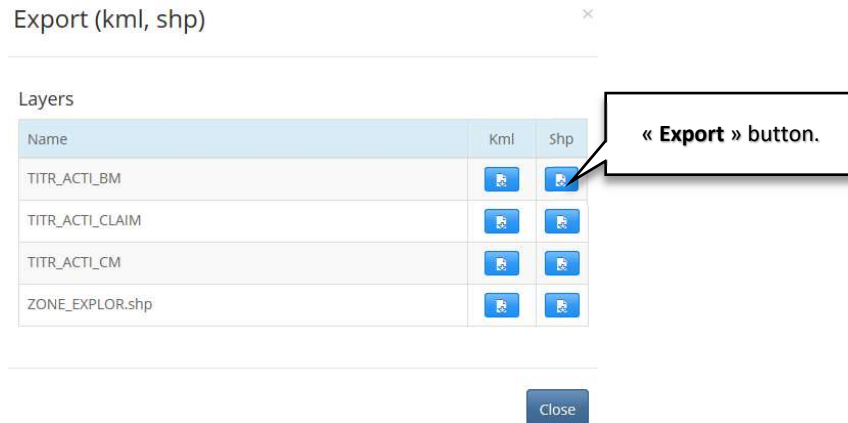
In addition, as with other searchable layers, the layer can be queried using the « **Displayed Layers information** » button () on the « **Tools** » tool bar.

4.4 EXPORTING DATA IN SHAPEFILE OR KML

First under map content, using the « **Categories** » tab, select the layer(s) to be exported. These layers will be displayed on the map.



Next, on the « **Other Functions** » tool bar, click on « **Export (kml, shp)** () ». In the window that opens, click on the « **Export** » icon to the right of the layer name. Two format choices are displayed: KML (Google Earth) or SHP (Shapefile).



SECTION 5 : INFORMATION, SEARCH AND LOCALIZATION BUTTONS

Section 5.1 : Description of the **Displayed Layers Information** button.

Section 5.2 : Description of the **Search and Localization** button.

5.1 DISPLAYED LAYERS INFORMATION BUTTON



The « **Displayed Layers Information** » button enables querying the displayed layers by clicking on the map. Information will be provided for the following types of layers: WMS, WFS and Shapefile.

If layers are superimposed in the place where the user clicks, the information related to each layer queried will be displayed in separate sections.

To see the attributes for the occurrences displayed, click on the section corresponding to the name of the layer you wish to consult (see image below).

Displayed layers information

Non-exclusive Leases for SMS (BNE) (1 record(s)) - WFS	
Tooltip	Active BNE SMS Site : 32C04-39 MRC Delegated : No BNE-7399(A) IEX_RAISO_SOCIA_1523 (1523) (100%)
SMS Site	32C04-39
Map Sheet	32C04
MRC Delegated	N
Administrative Region Number	08
Management Unit Number	083
Forest Management Unit	VAL-D'OR

Mining Concessions (CM) (1 record(s)) - WFS	
Tooltip	Active CM 32C04 G 0016 0056 1 CM-295 (A) IEX_RAISO_SOCIA_2165 (2165) (50%), IEX_RAISO_SOCIA_2412 (2412) (50%)
Area of Polygon (ha)	37,53

[Close](#)

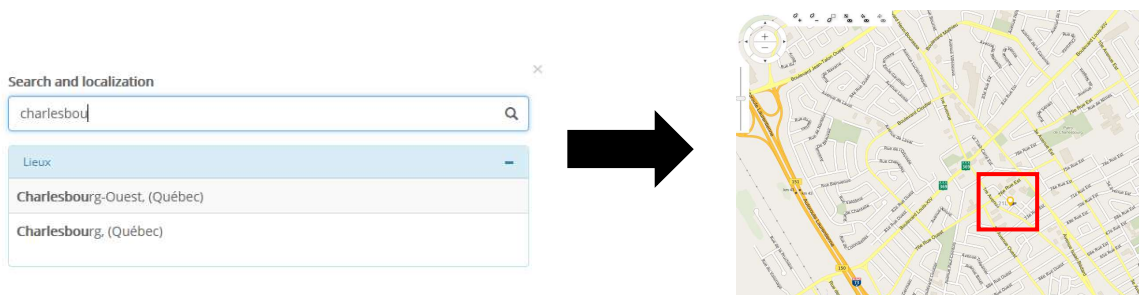
5.2 SEARCH AND LOCALIZATION BUTTON



You can search a map by place name, civic address, postal code, NTS sheet number, as well as by name of township or seigneurie.

Users enter the information they want, and the search assistance will suggest choices.

By clicking on the desired result, the map window will place itself automatically in the right location.

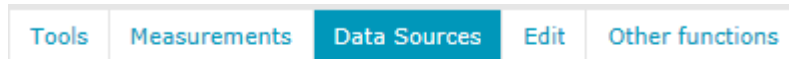


SECTION 6 : DATA SOURCES

Section 6.1 : Description of the button **Define WMS, WFS, WMTS and Personal Data Sources**.

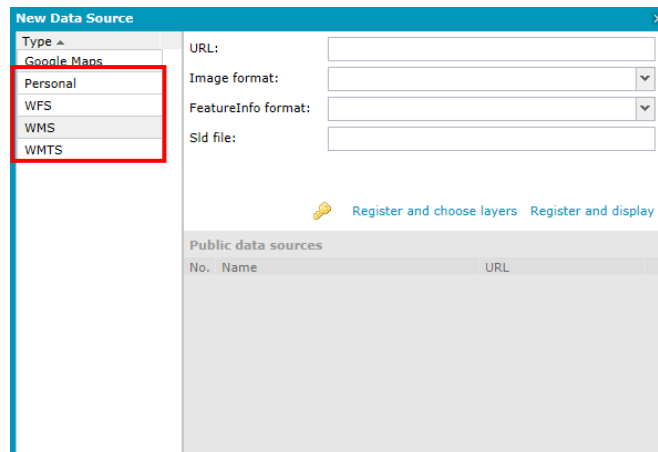
Section 6.2 : Description of the button **Display Feature Classes and Queries**.

6.1 DEFINE WMS, WFS, WMTS AND PERSONAL DATA SOURCES



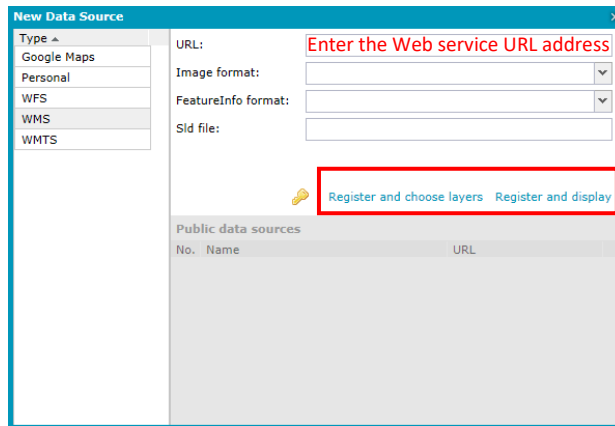
1. When a user clicks on the above icon, the following window opens. Data can be added to a map from WEB services such as:

- Web Map Service (WMS) – (raster data) ;
- Web Feature Service (WFS) – (vector data);
- Web Map Tile Service – (tiled raster data).

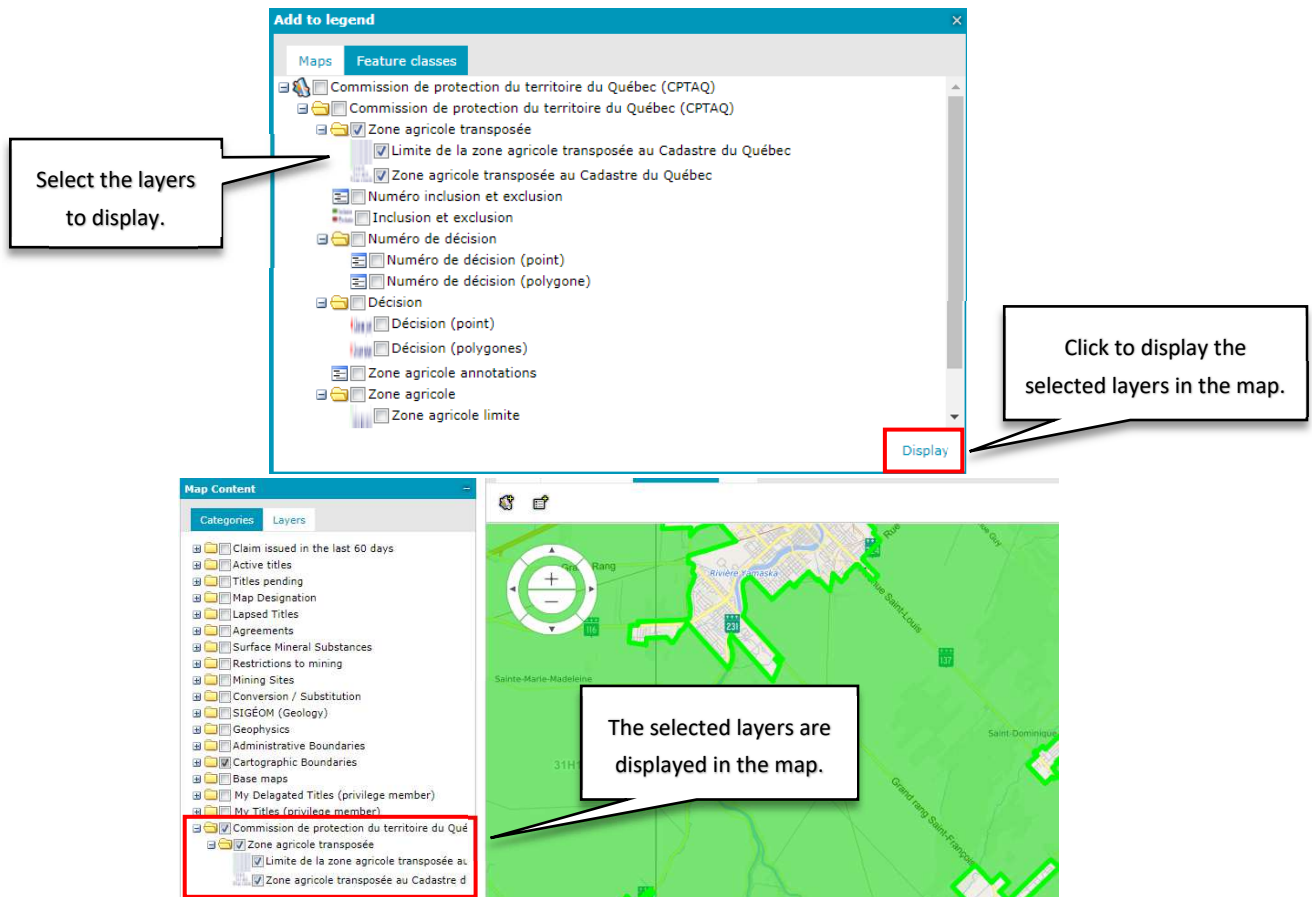


The **Données Québec** website (<https://www.donneesquebec.ca/>) is a reliable source for finding numerous web services on various subjects.

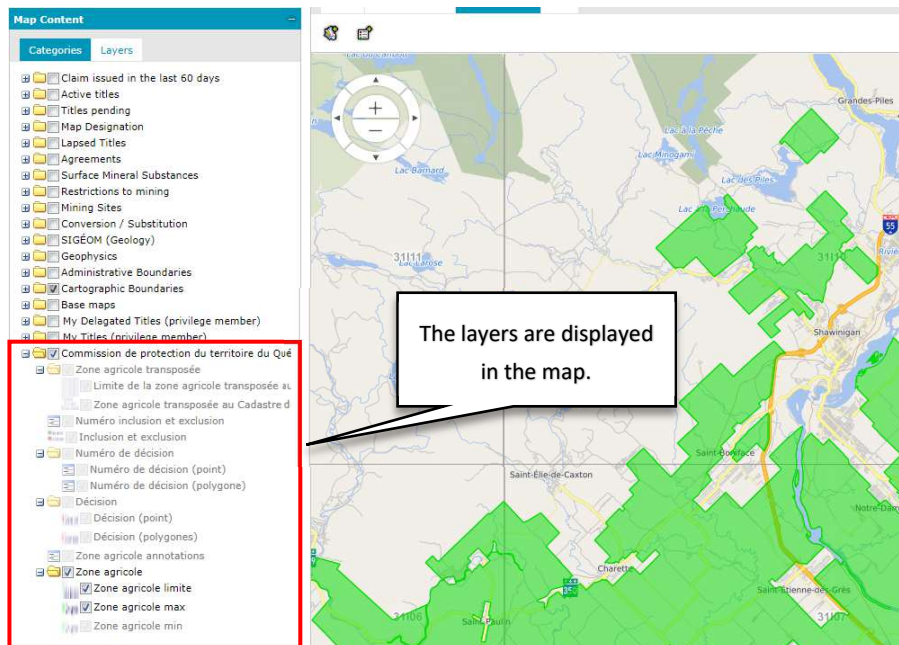
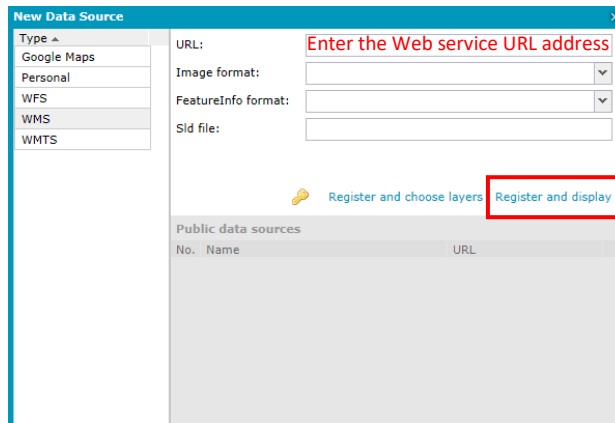
To insert a Web service in the interactive map, you must enter, in the « **URL** » section, the address of a valid Web service. To display the layers, you must click on « **Register and choose layers** », otherwise you must click on « **Register and display** ».



The « **Register and choose layers** » option allows you to select and display only the layers desired by the user in the map.

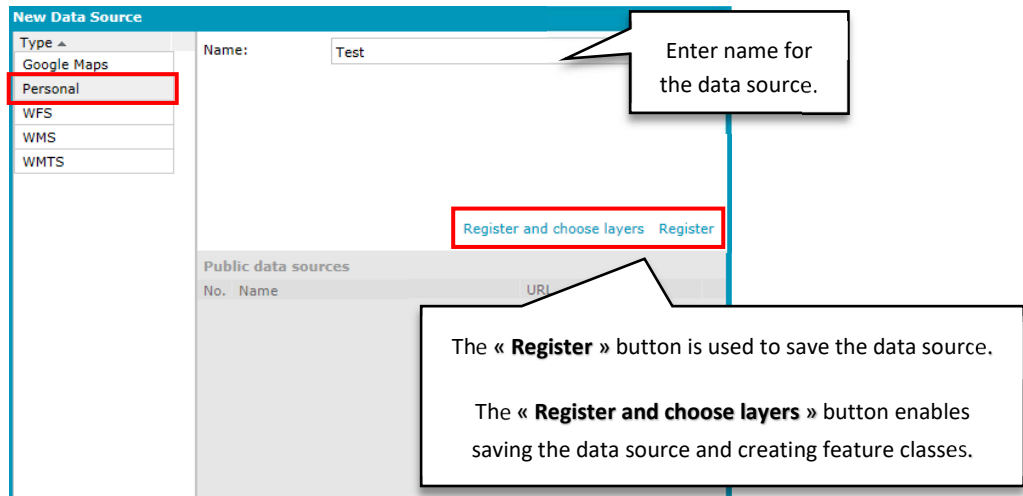


The « **Register and display** » option allows you to display all layers of the web service.

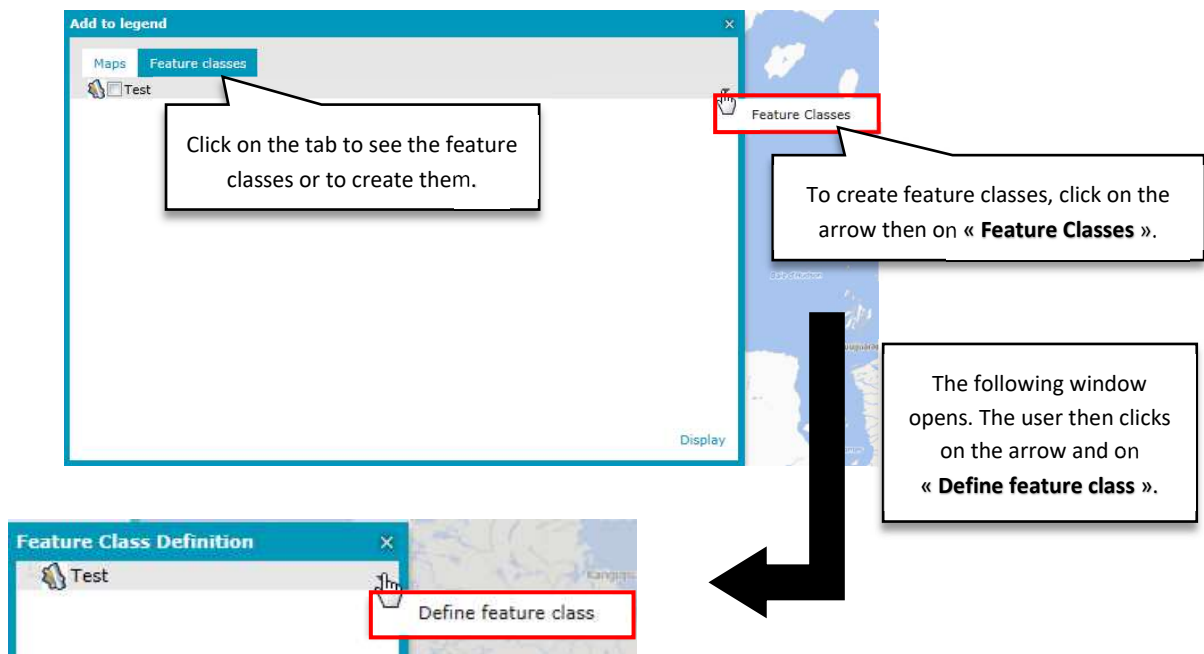


- It is also possible to add a personal data source to the map in defining entities (punctual, linear and surface) and to add text.

To do so, the user clicks on the « **Personal** » data source type and enters a relevant name for the data source.

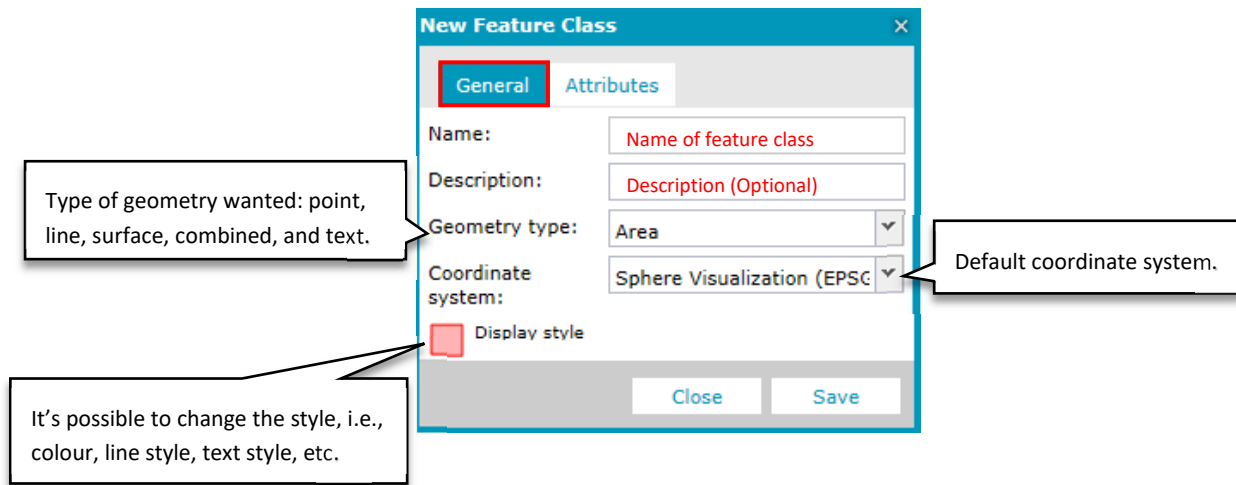


When the user clicks on the « **Register and choose layers** », button, the following window opens.

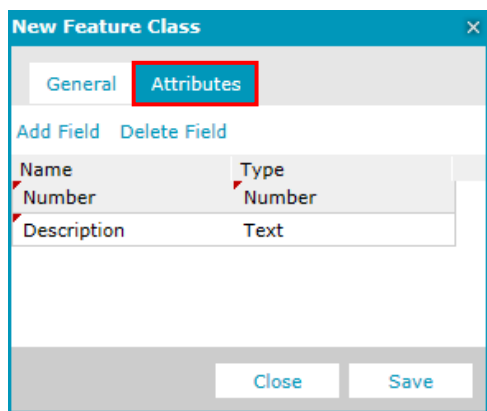


IMPORTANT

If you need to add attributes to your entity class, you must add them **BEFORE** clicking on « **Save** », because it is not possible to add them afterwards.



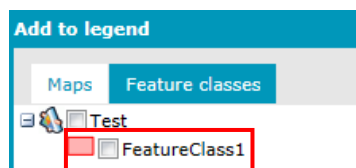
Click on the « **Attributes** » tab.



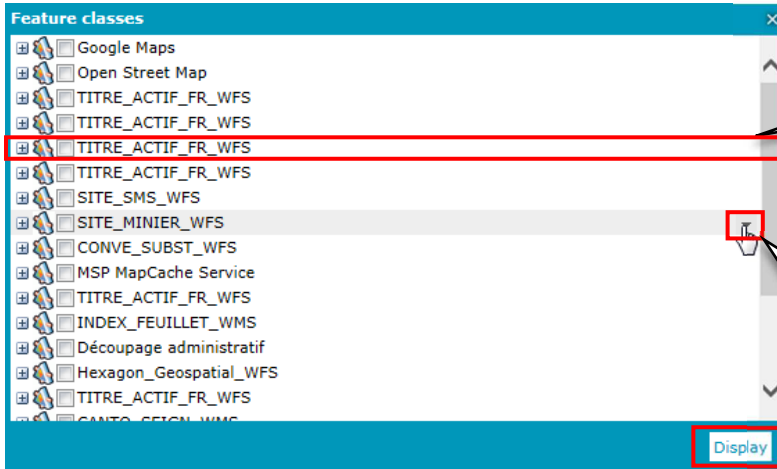
Attributes can be added to features. For example, a description, a sequential number, the surface area, etc. To do this, click on « **Add Field** », then enter a name and select the type of attribute. It's important to select the right type. For example, for a surface area, select the type **Number**, and for a description, select the type **Text**.

When finished, click on the « **Save** » button.

The feature classes are now displayed under the data source created.



6.2 DISPLAYING FEATURE CLASSES AND QUERIES



Layers can be added to the map by selecting the layer you want and clicking on « **Display** ». The layer will appear in the « **Categories** » section.

To add additional feature classes to a personal data source, click on the arrow to the right of the data source in question. The « **Define Feature Class** » window will open as described in step 6.1 (section 2).

SECTION 7: « EDIT » TOOL BAR

Section 7.1 : Description of the **Insert feature** button.

Section 7.2 : Description of the **Insert text** button.

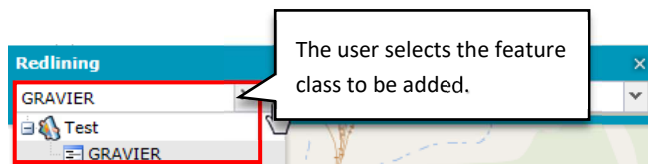
Section 7.3 : Description of the **Edit geometry** button.

Section 7.4 : Description of the **Continue geometry** button.

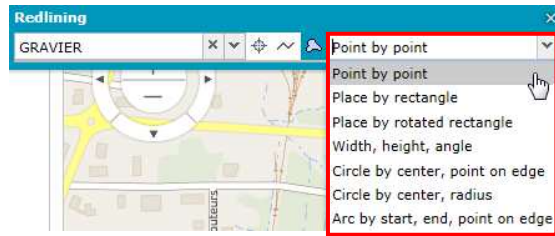
Section 7.5 : Description of the **Insert marker/annotation** button.

To use these tools, you must create a personal data source (see Section 6).

7.1 INSERT FEATURE

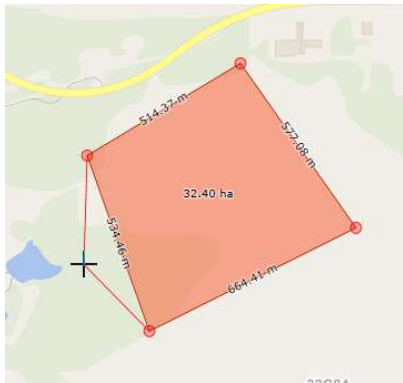


The user selects the feature class to be added.



The desired outlining method must then be selected.

Next, you can start outlining the feature concerned. To cancel the command, click once on the right mouse button.

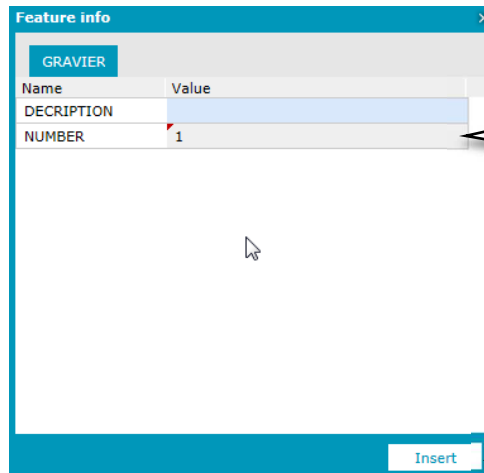


Click to place the first point. Next, move the cursor to the desired position and click to place the second point, and so on.

When outlining is finished, click twice on the mouse.

Note: Before starting this procedure, make sure the cursor appears as a black cross. Otherwise, reselect the insertion method.

If attributes were defined in the entity class, a window will open when the drawing of an entity is finished, for the purpose of entering these attributes.



To enter data, double click in the field.

When finished, click on « Insert » to save the data.

By clicking on the entity using the « **Displayed Layers Information** » button (i) on the « **Tools** » tab, the user can consult data related to the entity's characteristics (see example below).

Displayed layers information ×

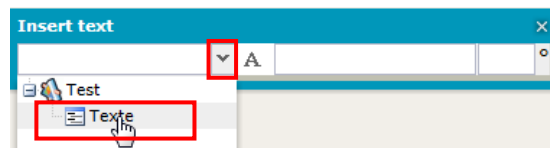
GRAVIER (1 record(s)) - Couche locale	
KEY	d309-3f46-5ba7-cb1f
NUMBER	1

Close

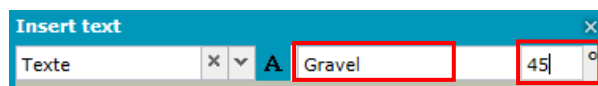
The procedure is the same for punctual and linear entities.

7.2 INSERT TEXT

To add text to a personal database, click on « **Insert Text** » (A) on the « **Edit** » tab. The following dialogue box will appear. Only « **texte** » entity classes will appear in the drop-down menu. Next select the desired class.



Enter the text to be placed on the map and, as needed, specify the orientation.




Next, click on the map to place the text at the desired location. If attributes were defined in the entity class selected, a window will open when the numeration of an entity is finished, for the purpose of entering the attributes.

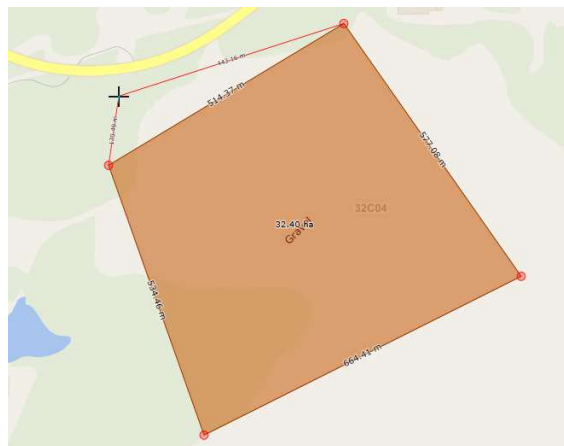
The styles can always be changed by clicking on this item in the legend.



7.3 EDIT GEOMETRY

Select an element to edit it. Once the element has been selected, it turns green. Next, click on the « **Edit Geometry** » () tool on the « **Edit** » tab. The element is highlighted and its components are represented by red lines and points.

To add a point, move the cross-shaped cursor all along the geometry, then click to define the new representation. Double click to confirm the addition.




To move or delete a point, click on the point and, in the menu, select the action to be performed. Then double click to confirm the action.

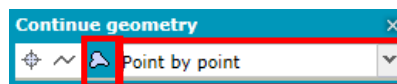


7.4 CONTINUE GEOMETRY

This option is valid for surface-type geometries only.

Select the desired form to maintain it. When the form has been selected, it turns green. Then, click on the « **Continue geometry** » () tool on the « **Edit** » tab.

Next, select the surface element and the desired outlining method. Double click to confirm.



It is also possible to create a new form or to create an empty space in an existing form.



7.5 INSERT MARKER/ANNOTATION

To add a marker or annotation, click on the « **Insert Marker/Annotation** » () tool on the « **Edit** » tab.

- Select data source.
- Choose type of annotation.
- Enter annotation text.
- Click on **Draw annotation**.



One click in the map view will determine the start position of the annotation pointer. A double click will determine the end position of the annotation pointer and will add the annotation.