

GSC FIELD APP USER GUIDE – Version 3

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INSTALLING ON WINDOWS / INSTALLATION SUR WINDOWS

NOTE: The GSC Field App works under Windows 10 (at least Build 19041) and Windows 11.

1. Download the latest Windows version from <https://github.com/NRCan/GSC-Field-Application/releases>.
2. Expand the Assets section, of the latest release version available and locate the Windows package.

▼ Assets 6

Android_GSCFieldApp_3_0_5.apk	76.5 MB	last month
Android_GSCFieldApp_3_0_6.apk	76.4 MB	2 weeks ago
Windows_GSCFieldApp_3_0_5.zip	136 MB	last month
Windows_GSCFieldApp_3_0_6.zip	136 MB	2 weeks ago
Source code (zip)		Aug 30, 2024
Source code (tar.gz)		Aug 30, 2024

3. Extract the zip file contents and navigate to that location.
4. Run GSCFieldApp_3.0.6.0_x64.msix (or equivalent) to install the GSC Field App.

NOTE: Do **NOT** install the GSC Field App from the .PS file, as we have in the past. **Only install using the .msix file.**

INSTALLING ON ANDROID / INSTALLATION SUR ANDROID

NOTE: The GSC Field App works under Android 10 or higher.

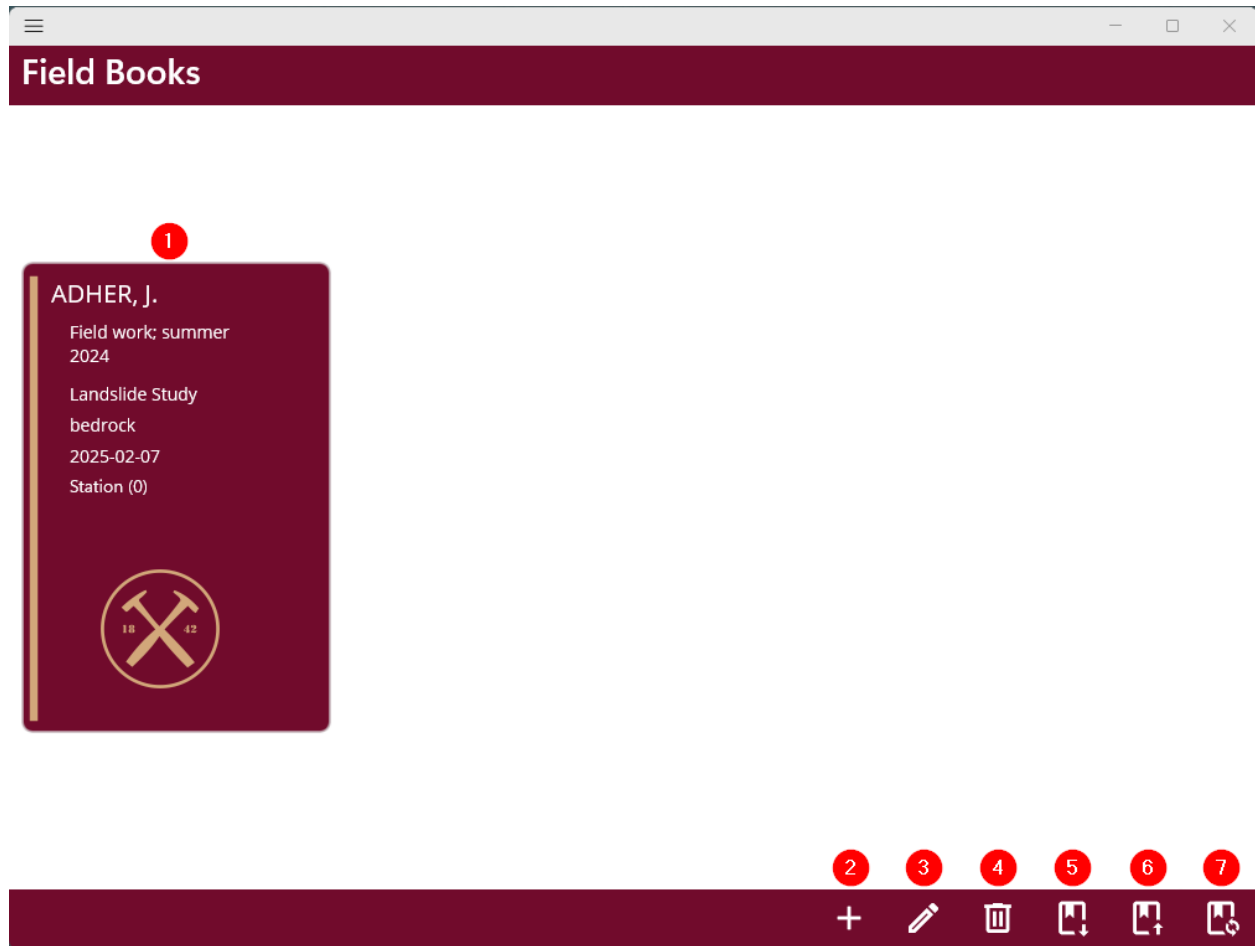
1. Download the latest Windows version from <https://github.com/NRCan/GSC-Field-Application/releases>.
2. Expand the Assets section, of the latest release version available and locate the Windows package.

▼ Assets 6

Android_GSCFieldApp_3_0_5.apk	76.5 MB	last month
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Windows_GSCFieldApp_3_0_6.zip	136 MB	2 weeks ago
Source code (zip)		Aug 30, 2024
Source code (tar.gz)		Aug 30, 2024

3. Copy the .apk file to your Android device (using a USB-C cable or a USB-C flash drive).
4. On your Android device, run the .apk file to install the GSC Field App. You might be asked to first give permission to your browser or file application to install packages before this step.

FIELD BOOKS / LIVRES DE TERRAIN



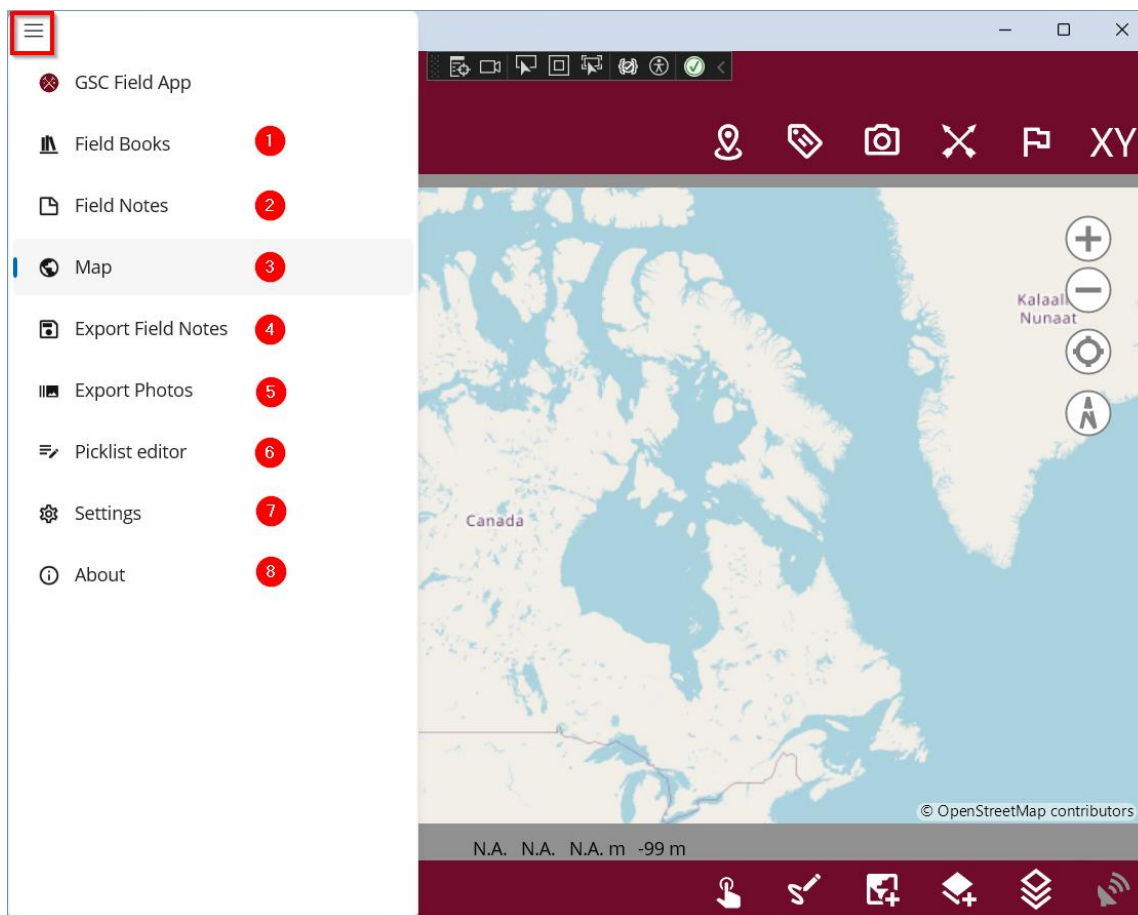
Note: the layout of the tools may vary depending on the orientation of the device and available space.

Navigation Bar → Summary of application pages.

1. **An existing Field Book.**
2. **Add:** add a new field book.
3. **Edit:** allows you to modify the metadata for the current field book.
4. **Delete:** deletes the selected field book. Do not do this unless you already have a backup as there is no way to undo a deletion of a field book. If you do try to delete a field book, it will prompt you to make sure you want to delete it, followed by an offer to create a backup of the field book.
5. **Backup:** Creates a backup of the current field book as a zip folder (contains Geopackage, map page layer settings and photos).
6. **Restore:** Restores a backup field book. If a same field book is found, a prompt will ask for permission to overwrite it with restored version. Restoring can work with a single Geopackage or a zip folder.

7. **Update:** updates the current field book to any changes in the database structure. This option can be used to upgrade a selected field book when the application has been updated to the latest release in which structural changes happened.

MAIN MENU / MENU PRINCIPAL



1. **Field Books** – a page in which we can manage field books for a specific area of interest. Each of those field books contains all of the organizational metadata about a project.
2. **Field Notes** – the area where individual stored records on Stations, Photographs, Samples, etc. can be examined and revised.
3. **Map View** – the map of the research area with all of the data plotted and adding optional layers of data.
4. **Export Field Notes** – allows the user to create a backup of the current field book as a Geopackage file.
5. **Export Photos** – allows the user to create a backup of the photos taken on the device in the current field book as a zip file.
6. **Picklist Editor** – allows the user to modify the picklists entries, addition/subtraction/sorting the display order of certain key terms for an individual project.
7. **Settings** – turn off/on certain tables as needed.
8. **About** – Contact, project and online resources for this app.

FIELD NOTES / NOTES DE TERRAIN

Field Notes

Stations

- 1 visited outcrop
- 2 visited outcrop
- 3 aerial observation
- 4 visited outcrop
- 5 visited outcrop
- 6 visited outcrop
- 7 visited outcrop
- 8 visited outcrop
- 9 visited outcrop

Total records: 9

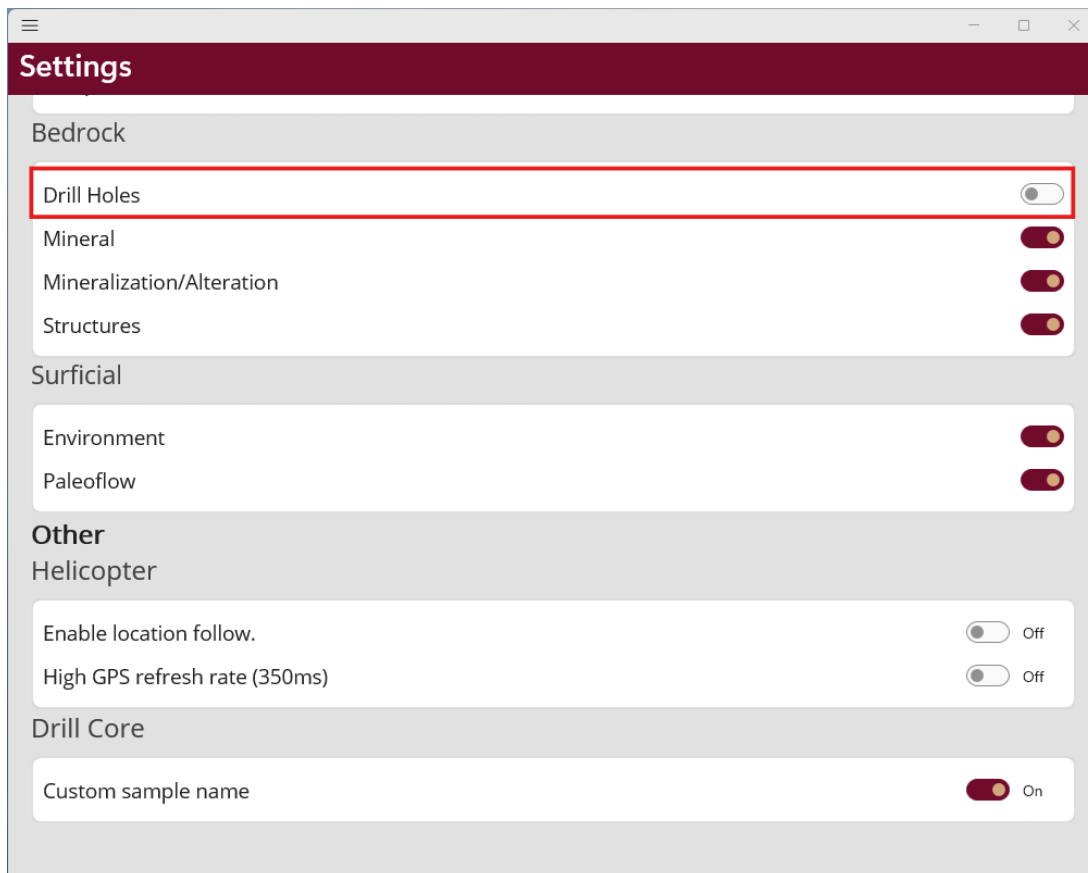
- Drill Holes (3)
- Earth Materials (4)
- Samples (5)
- Structures (6)
- Paleoflow (7)
- Mineral (8)
- Mineralization/Alteration (9)
- Fossil (10)
- Environment (11)
- Photos (12)
- Location (13)
- Line Work (14)
- Traverse Dates (15)

2025-02-13 2025-02-11

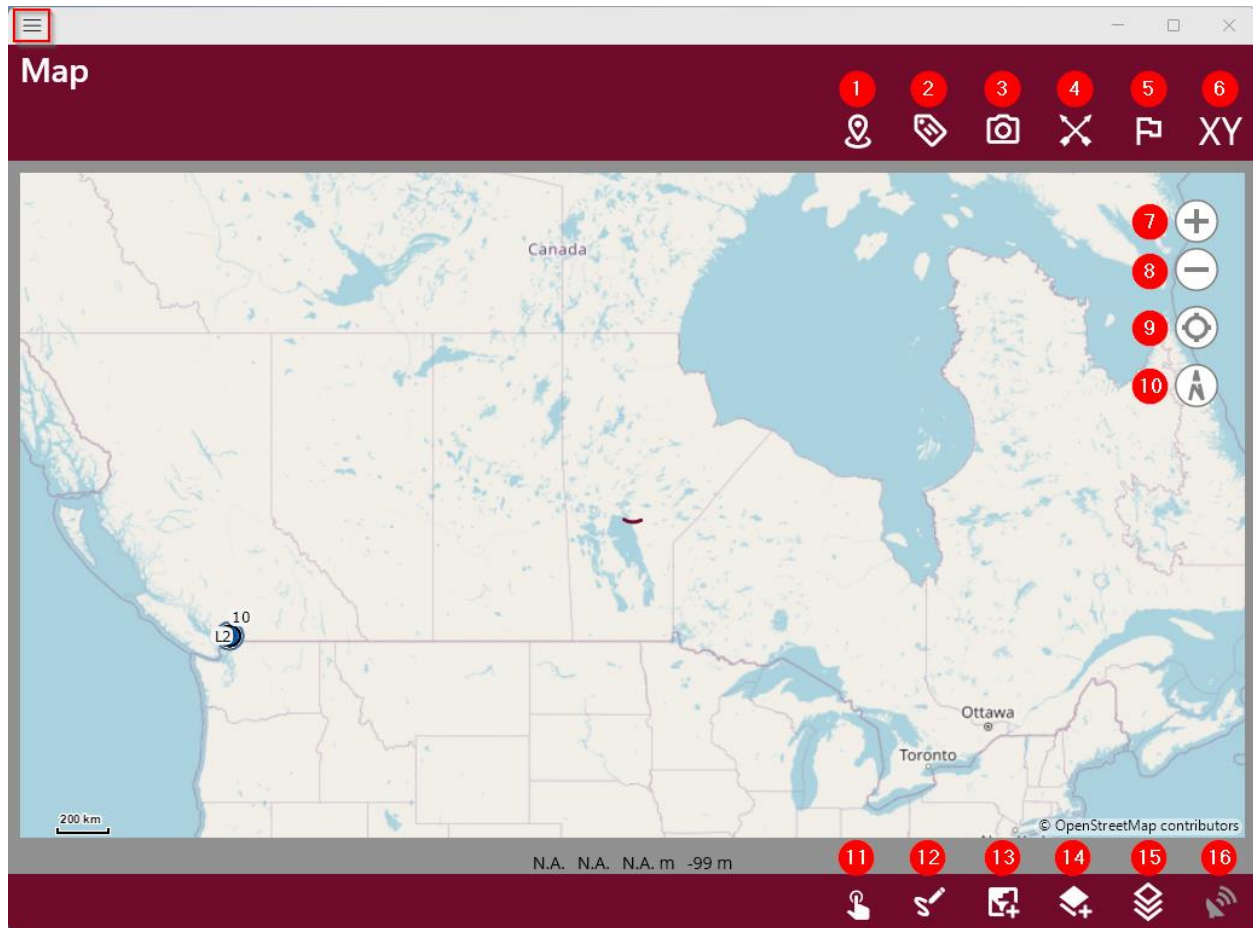
1. Main menu (Field Books, Field Notes, the Map View, Export field notes, Export photos, Picklist Editor, Settings, About).

2. A list of station records in the Field Notes view.
3. Expand Drill Holes to see records (none in this case).
4. Expand Earth Materials to see records (1).
5. Expand Samples to see records (1).
6. Expand Structures to see records (0).
7. Expand Paleoflow to see records (0).
8. Expand Mineral to see records (1).
9. Expand Mineralization/Alteration to see records (1).
10. Expand Fossil to see records (1).
11. Expand Environment to see records (3).
12. Expand Photos to see records (1).
13. Expand Location to see records (9).
14. Expand Line Work to see records (0).
15. Click on the Traverse Date tabs to look at traverse data collected on different days. Users can tap on the Traverse Dates line to refresh the Field Notes page. Once you get enough date entries wider than the width of your device, you can scroll the dates to the right to get older records and to the left to get newer records.

Note: one can reduce the number of headers that are displayed in the field notes by going to **Settings** where you can turn off certain types of records. For example, if you are not interested in recording any drill holes, you can turn Drill Holes off, as seen in the image below.



MAP PAGE / APPLICATION NAVIGATION



Map view: top and bottom navigation bars.

1. Tap to add a station record.
2. Tap to add a quick sample record. A quick sample will take a location and create an empty station and a blank earth material record related to new sample that will be shown on-screen.
3. Tap to add a quick photo record.
4. Tap to add a quick structure/pflow record.
5. Tap to add a waypoint.
6. Tap to manually create a location record from XY or lat/long.
7. Zoom in.
8. Zoom out.
9. Centre the map on the location.
10. Reorient the map direction (put north at the top of the screen).
11. Turn on/off Tap Entry. This allows you to tap on the screen to record a station and its location.
12. Tap to draw an interpretation line. You may draw a line and assign it as a contact, many types of faults or folds or Other. There is a note section if you have more details.
13. Tap to add a URL of an online Web Mapping Service (WMS).

14. Tap to add a new layer (MBTiles or geopackages).
15. Tap to see a list of all loaded layers and more options.
16. Tap to turn on/off GPS.

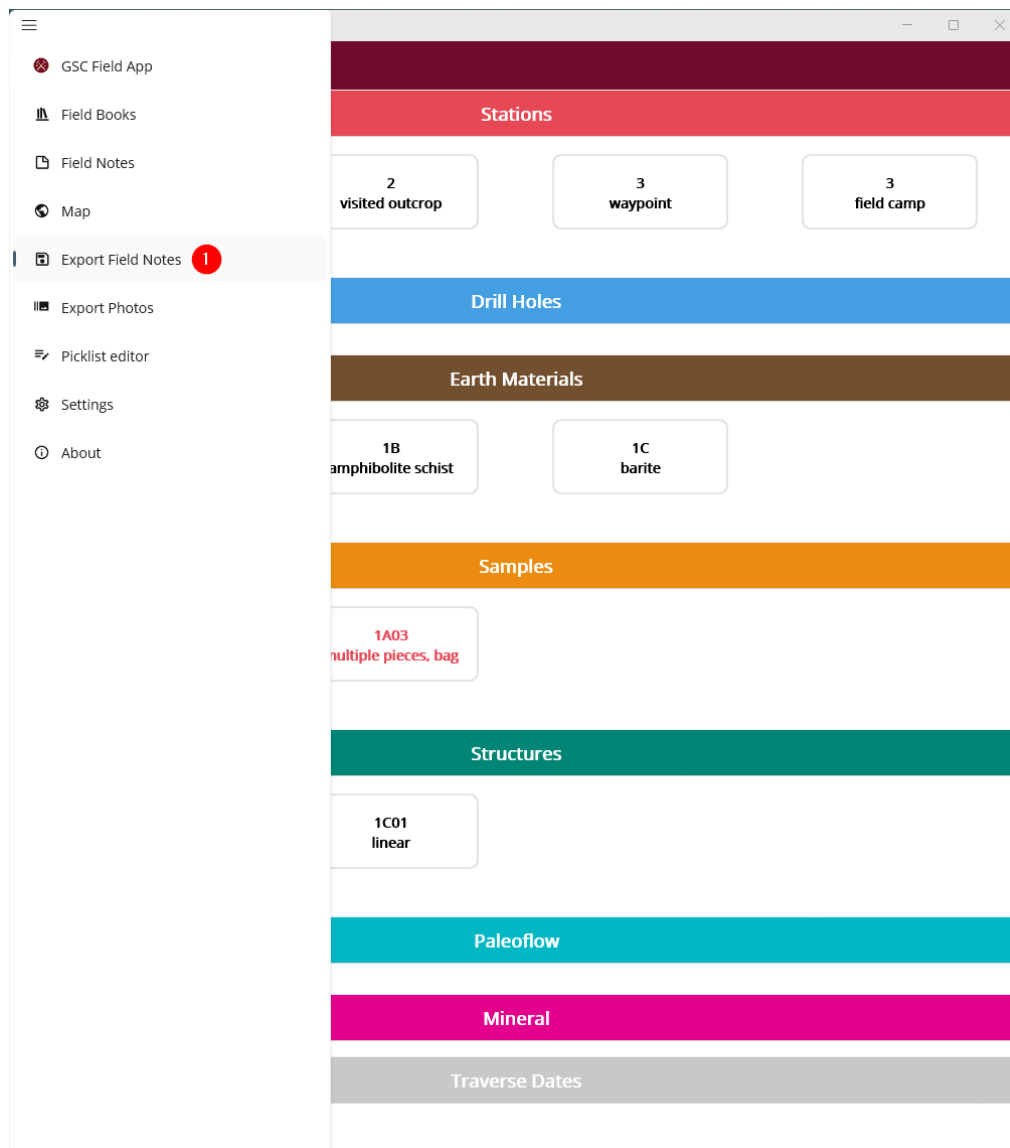
Note 1: By default, the GSC Field App loads the Open Street Map which will be cached and will be available when offline (<https://www.openstreetmap.org/>).

Similarly, WMS data will also be cached automatically and be available when offline.

Note 2: If the user has digitized point traverses in a GIS software like ArcGIS or QGIS in the feature named F_Traverse_Point, they will show up in the GSC Field App, properly labelled by restoring the dataset in the field books page.

Note 3: Datasets collected and added as geopackages are tappable to get more information about a point or line feature.

EXPORT FIELD NOTES / EXPORTER DES NOTES DE TERRAIN



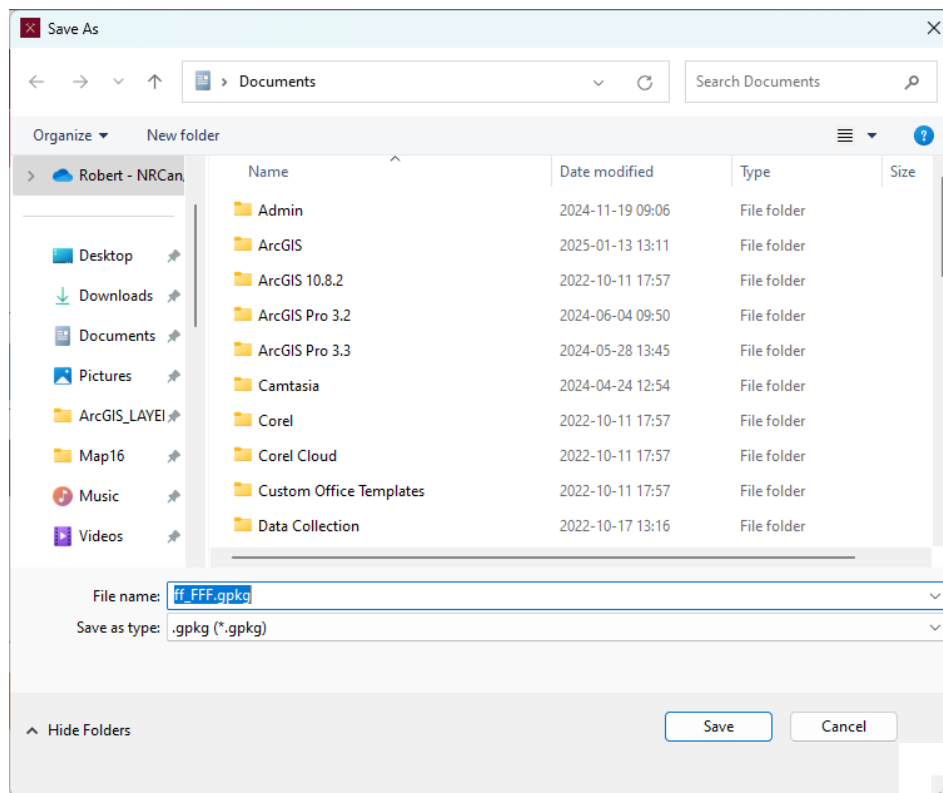
1. Tap here to export the field notes collected by the field device as a GeoPackage which can be used in ArcGIS, ArcGIS Pro and QGIS.

The screenshot shows the 'Photo' app interface. At the top, there is a purple header bar with a back arrow, a menu icon, and a close button. Below the header, the title 'Photo' is displayed. The main content area is divided into two columns. The left column contains a 'Description' section with a 'Category' dropdown, a large text input field, a 'Caption' input field, a 'Load Previous Caption' button, a 'Scale Direction' dropdown, and a 'Direction' input field. The right column contains an 'Embedded camera' section with a photo of a shovel digging in the soil. At the bottom, there are three buttons: 'Delete', 'Save', and 'Copy'. Red circles with numbers 1 through 8 are overlaid on the interface to indicate specific steps or elements.

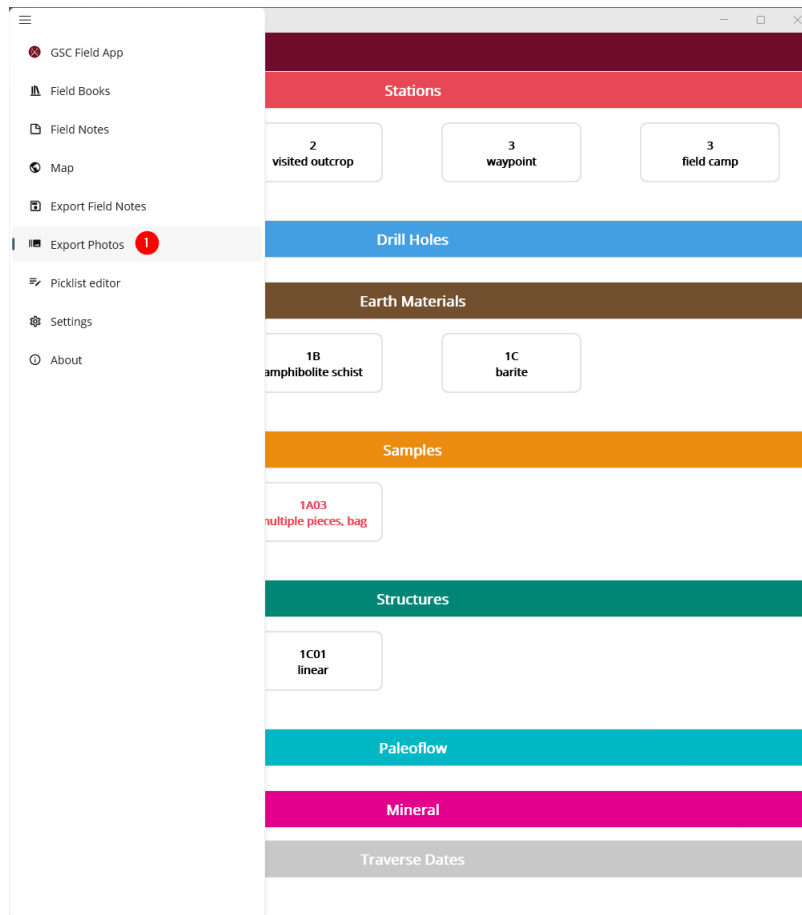
1. Tap here to export the field notes collected by the field device as a GeoPackage which can be used in ArcGIS, ArcGIS Pro and QGIS.

2. Enter in the name of the backup file (.gpkg)

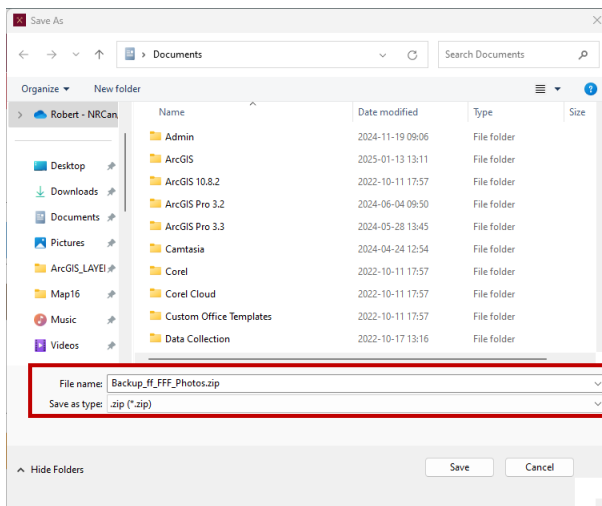
3. Tap the **Save** button



EXPORT PHOTOS / PHOTOS D'EXPORTATION



1. Tap here to export the photos collected by the field device (not an external camera)
2. Enter in the name of the backup file (.zip)
3. Tap the **Save** button



USING THE PICKLIST EDITOR / UTILISER L'ÉDITEUR DE LISTES DE SÉLECTION

The screenshot shows the 'Picklists' editor interface. At the top is a header bar with a hamburger menu icon (1) and the title 'Picklists'. Below the header is a section titled 'Drop downs edition' with a descriptive paragraph. The main area contains three dropdown menus: 'Notes Table' (2) with 'Earth Materials' selected, 'Field' (3) with 'Grain Category Size' selected, and 'Parent term' (4) with 'metamorphic' selected. To the right of these dropdowns are three icons: a plus sign (9), a list with arrows (10), and a list with an up arrow (11). Below the dropdowns is a 'Terms' section (5) containing a table of terms. The first row of the table has 'micrograined' (6), a text input field (7), and a checkbox (8). The other four rows have terms and checkboxes. At the bottom right is a 'Save' button (12).

Picklists

Drop downs edition

Hide/Show drop down terms, as well as adding new ones for all forms and fields. Values can also be reordered with a drag-and-drop and tap a term to modify their textual value. Double tap to make it a default (shown in bold).

Notes Table (2)

Earth Materials

Field (3)

Grain Category Size

Parent term (4)

metamorphic

Terms (5)

micrograined (6)	(7)	(8) ✓
fine grained <1 mm		✓
medium grained 1-5 mm		✓
coarse grained 5-30 mm		✓
v. coarse grained >30 mm		✓

Save (12)



9 +

10 ↕

11 ↑

1. Main Menu
2. The name of the table you wish to modify
3. The name of the field in the above table being modified
4. The name of the parent term being modified

5. The terms contained under the parent term
6. Single tap on the term to edit its text
7. Double tap on the term to set as a default value
8. Check/Uncheck to make Visible/Hidden in the drop down.
9. Tap to add a new picklist term
10. Tap to sort in ascending order
11. Tap to import picklist from another geopackage
12. Save the current changes



Settings

Field Notes Tables

Hides/shows record in the field notes page and within the forms.

Common 1

Earth Materials

Fossil

Line Work

Location

Photos

Samples

☒

☒

☒

☒

☒

☒

Bedrock 2

Drill Holes

Mineral

Mineralization/Alteration

Structures

☐

☒

☐

☒

Surficial 3

Environment

Paleoflow

☐

☐

Other

Helicopter 4

Enable location follow.

High GPS refresh rate (350ms)

☐ Off

☐ Off

Drill Core 5

Custom sample name

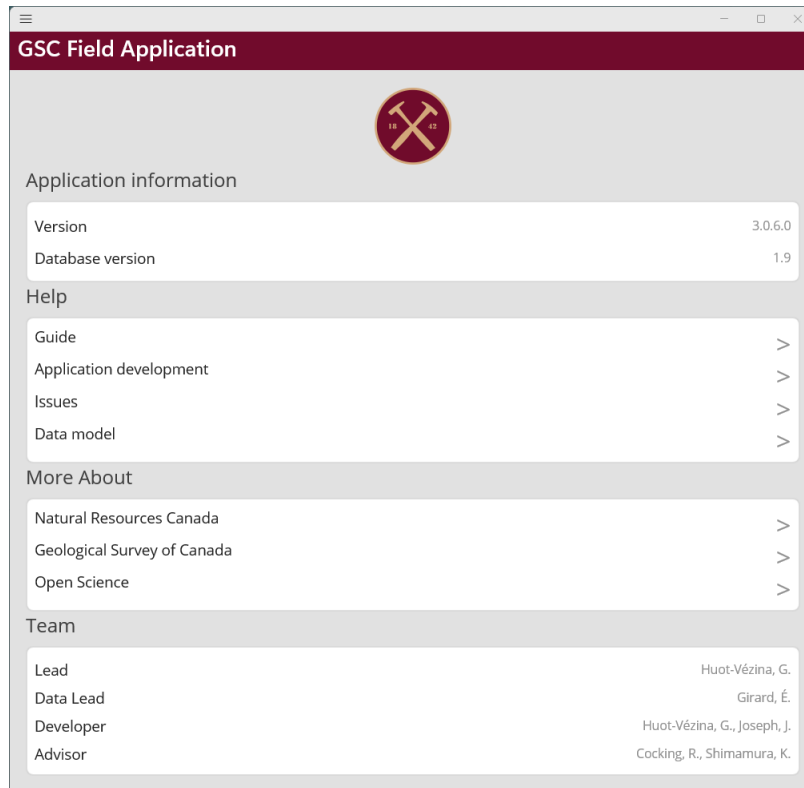
☒ On

The Settings menu allows you to turn on/off certain tables of data collection. For example, if you know you don't have any interest in collecting drill hole data or mineralization/alteration, you can turn those tables off.

1. **Common** refers to data tables that contain data common to both Surficial and Bedrock data models.
2. **Bedrock** includes all tables relevant to bedrock data collection.
3. **Surficial** includes all tables relevant to surficial data collection.
4. **Other** includes two settings that allow you to optimize the device in a helicopter setting, where you need a faster refresh rate on the GPS since the helicopter is travelling so fast. The **High GPS Refresh Rate** setting helps to match the helicopter speed to the GPS, while **Enable Location Follow** forces the map to stay centred on the helicopter.
5. **Drill Core** allows the user to customize the name of a drill core sample.

ABOUT / À PROPOS

The About page lists the App version and database version, the main developers and, more importantly, provides links to help (if the user is connected to the Internet).



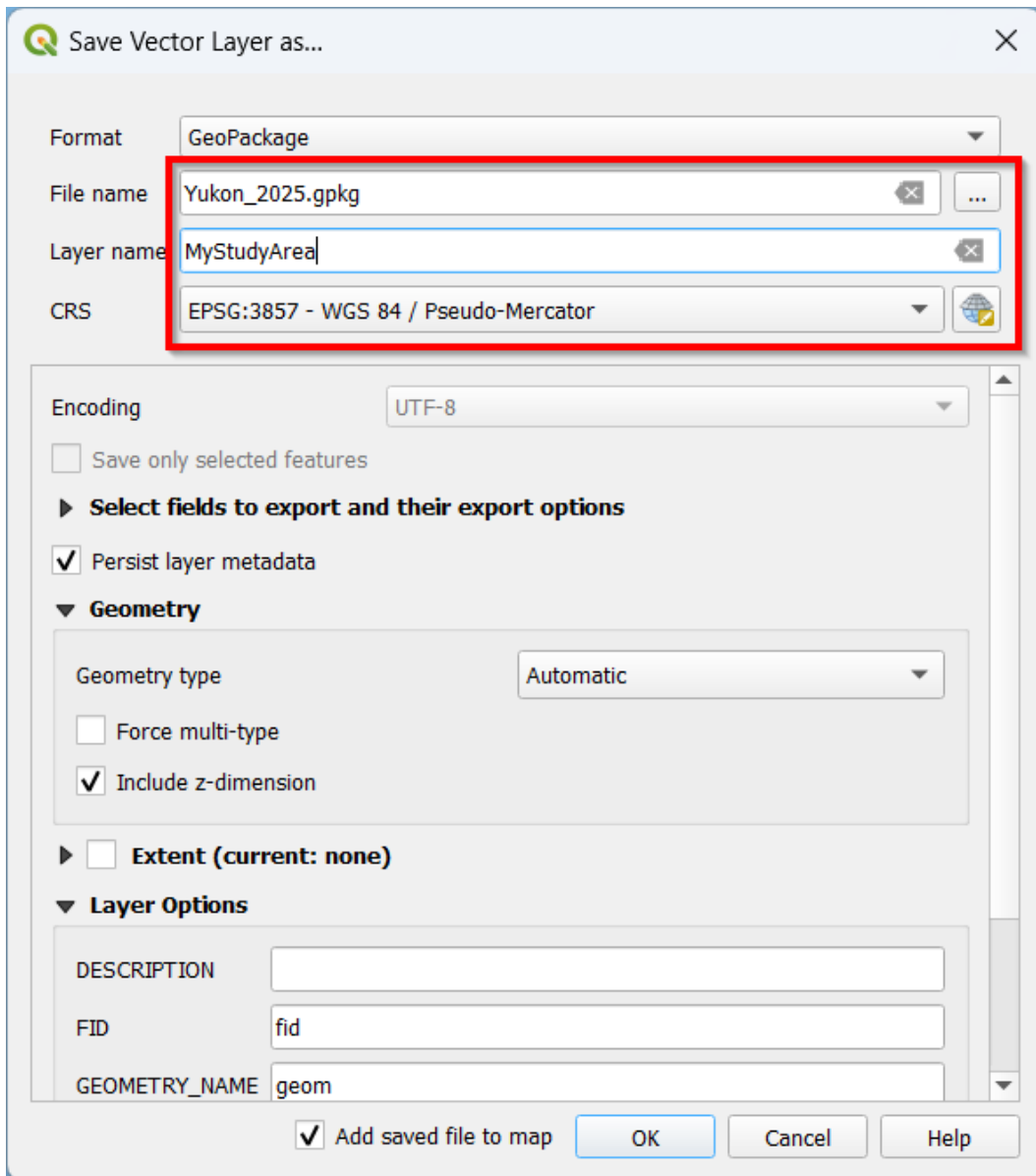
PREPARING DATA / PRÉPARATION DES DONNÉES

Like MBTiles, you can create and use geopackage-formatted files in the GSC Field App. Additionally, if you create the geopackage in QGIS, you can include the same symbology used in QGIS in the Field App

Note: The GSC Field App mainly uses two projections. If you wish to create a geopackage, the projection of the data must be either geographic WGS 84 ([EPSG: 4326](#)) or WGS 84 / Pseudo-Mercator ([EPSG: 3857](#)). Any other spatial reference system (SRS) set within the geopackage will be projected to EPSG:3857 upon loading in the map page, this might impact the loading time, especially on older devices.

CREATING GEOPACKAGES IN QGIS / CRÉATION DE GÉOPACKAGES DANS QGIS

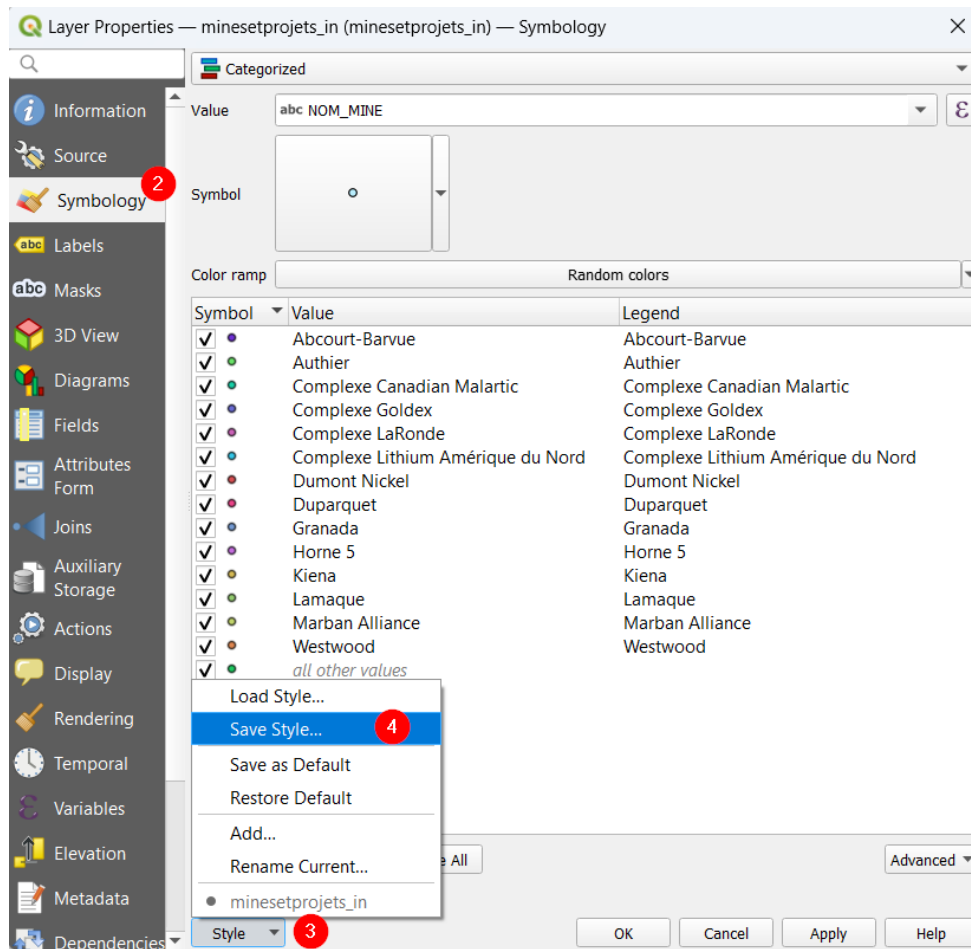
1. In the QGIS Table of Contents, right-click on the map layer you wish to be used in a geopackage and select **Export > Save As...**
2. Set the Format to **GeoPackage** and name the file.

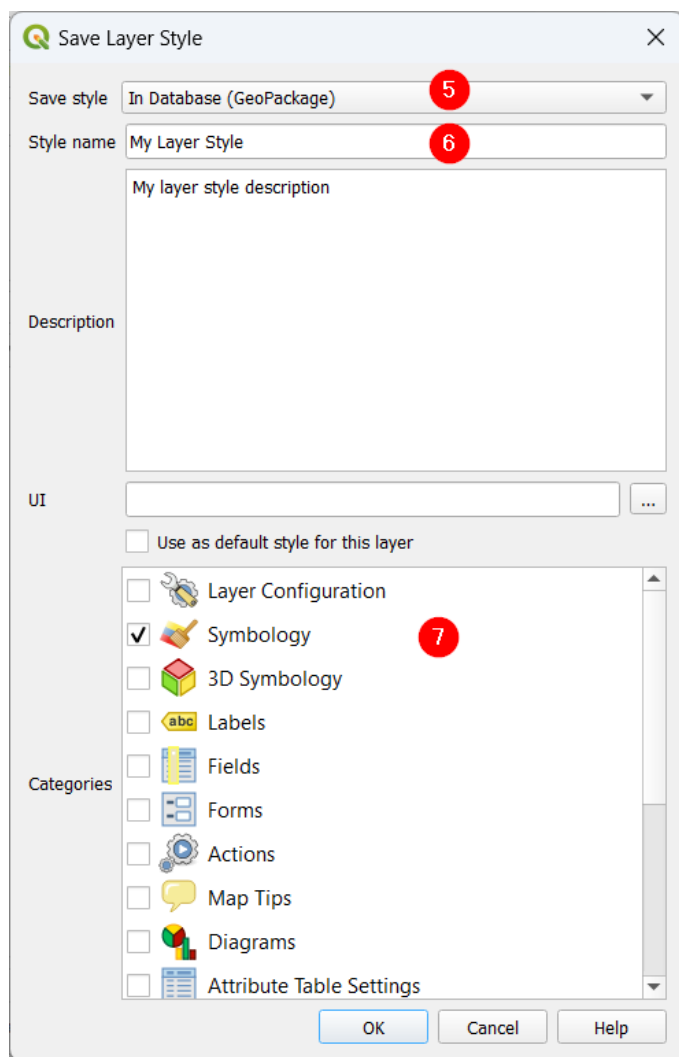


3. Set the CRS projection to either EPSG: 3857 or EPSG: 4326 (for faster loading time, else they'll be reprojected to 3857 upon loading).
4. Click OK to export the data

QGIS can save your symbology within a geopackage by following these steps.

1. Right-click on the layer you want to save the symbology and click **Properties**.
2. Locate the **Symbology** section in the left panel.
3. Click on the **Style** drop-down menu.
4. Select **Save Style ...**
5. Make sure to save in the database source (Geopackage).
6. Give the new style a name.
7. Make sure that at least **Symbology** is checked.





Note: Point and line features will keep their colour and size style only. Polygons will retain their colour and their outline width and colour.

You can use North Road's ESRI to QGIS software (<https://north-road.com/slyr/>) to convert any ArcGIS or ArcGIS Pro style into a style that will work with QGIS. Each division of the GSC should have a staff member that has a license for this useful package. SLYR will also convert MXD files to QGIS.

CREATING GEOPACKAGES IN QGIS USING SLYR TOOLS/ CRÉATION DE GÉOPACKAGES DANS QGIS À L'AIDE DES OUTILS SLYR


SLYR tools are created by [North Road Consulting](#) and the tools allow conversion of ArcGIS symbols sets into QGIS. A number of licenses were purchased for use within the GSC, contact Gabriel Huot-Vezina for more information on accessing the SLYR tools.

SLYR tools can:

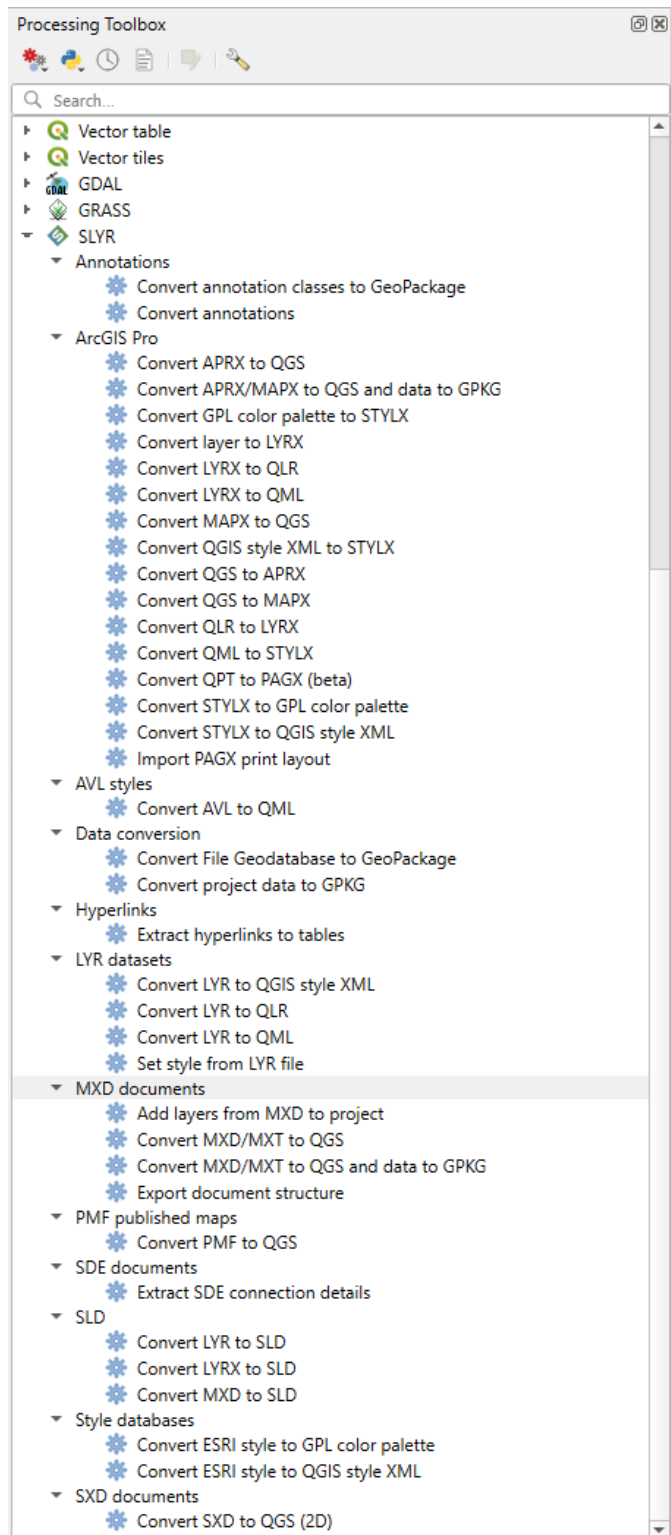
1. Convert a file geodatabase into a GeoPackage
2. Convert an ARCGIS or ARCGIS Pro map into a GeoPackage
3. Convert annotations into a GeoPackage
4. Convert a .style (ArcGIS) or a .stylx (ArcGIS Pro style) to a QML style XML
5. Convert .LYR and .LYRX files to QML
6. And many more

The SLYR Tools are loaded a bit differently than most QGIS plugins. Assuming you have a license available you simply:

1. Download the installer from North Road.
2. Unzip the downloaded file and drag "install_slyr_qgis.py" over a running QGIS install.
3. After the plugin is installed, a window will open where you can enter the unique license key.
4. Once the license key has been accepted, click on the **Processing**

Toolbox button  and you will see the available SLYR tools.

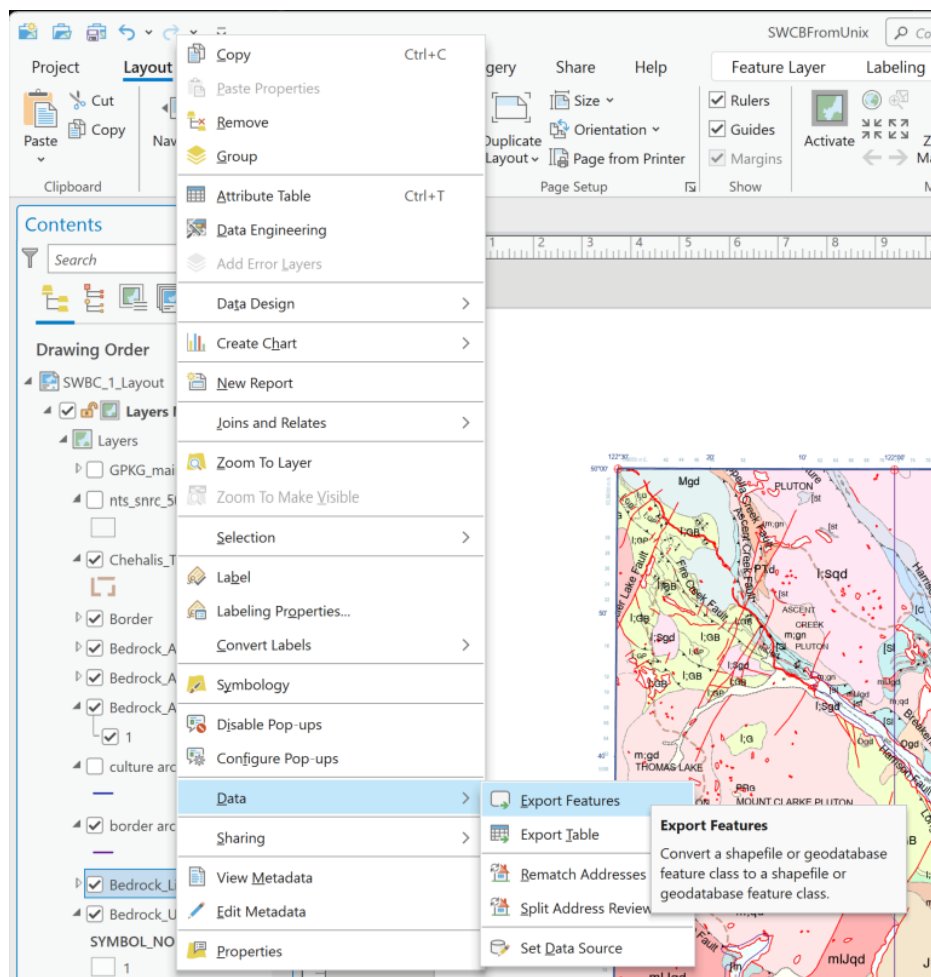
Note: this allows one to bring your ArcGIS symbols directly into a properly symbolized geopackage via QGIS.



CREATING GEOPACKAGES IN ARCGIS PRO / CRÉATION DE GÉOPACKAGES DANS ARCGIS PRO

ArcGIS Pro works with data differently than QGIS. It requires the data to already be in an SQLite database.

1. Create an SQLite database with the **Create SQLite Database** command.
2. Ensure that you set the Spatial Type to 'GeoPackage (equivalent to GeoPackage 1.3)'. The file name will change to a .gpkg
3. Click on the **Run** button to create the geopackage
4. In the Table of Contents, right-click on the layer you want to add to the geopackage and navigate to **Data > Export Features**



5. Navigate to the location of the geopackage that you setup in Step 1 and enter the name of the layer.

Export Features

Parameters Environments

Input Features
nts_snrc_50k

Output Feature Class
nts_snrc_50k_ExportFeatures

▼ Filter

Expression

Load Save Remove

SQL

Where Select a field

+ Add Clause

▼ Fields

☐ Use Field Alias as Name

Field Map Add Fields Edit

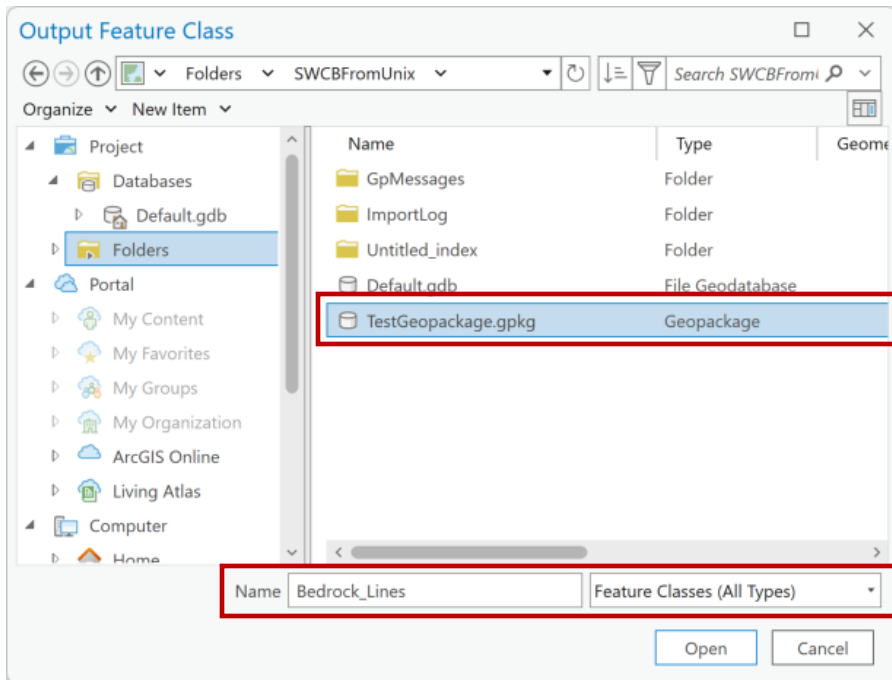
- NTS_SNRC
- NAME_ENG
- NOM_FRA
- SRID
- SHAPE_AREA
- SHAPE_LEN

▼ Sort

Sort Field

Field(s) Order

OK



USING THE INTERPRETATION LINE FEATURE / L'UTILISATION DE LA LIGNE D'INTERPRÉTATION

Often, a field geologist will identify a linear feature that they would like to draw on the map. This can include contacts, faults, folds

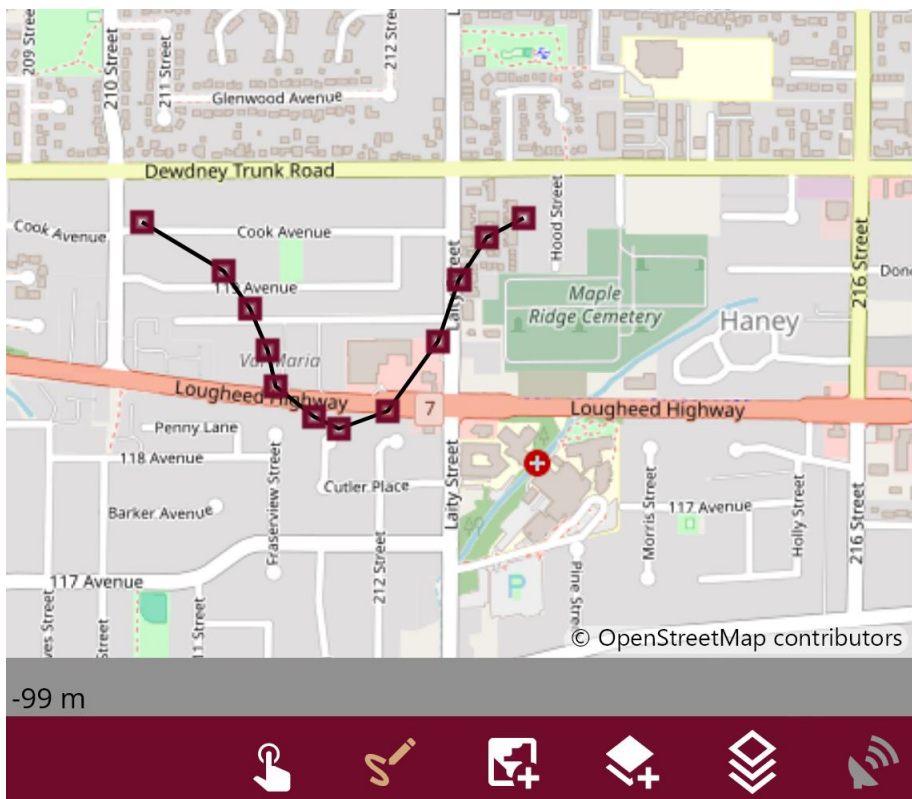
1. Click on the 'Tap to draw an interpretation line' button.



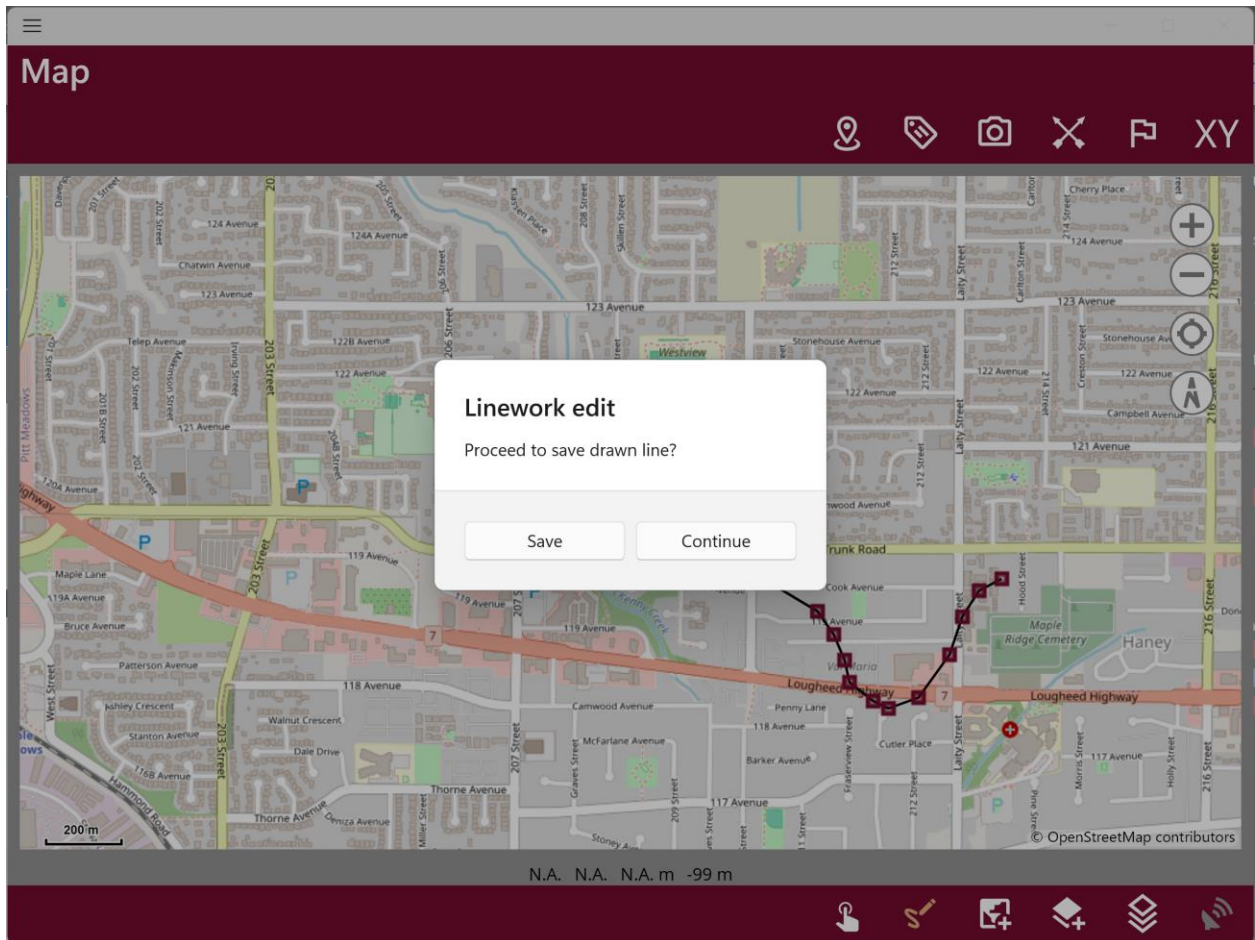
2. The button will change to show it is in 'draw mode'.



3. Tap on the screen where you want to start the line, then point to all the vertices you wish to add.



4. Once the line is completed, hold the finger position for 2 seconds and lift your finger. Tap the **Save** button to save a line record, tap the **Continue** button to abandon the line you drew.



5. The Line attribute menu will appear. Choose the line confidence (good, moderate or poor), select a colour for the line and write any notes about the line feature.

←

≡

—

□

×

Linework

25FFF0004

Linework

Type

contact

Confidence

moderate

Line Color

amber

Notes

Bear scat, massive foot prints


Delete

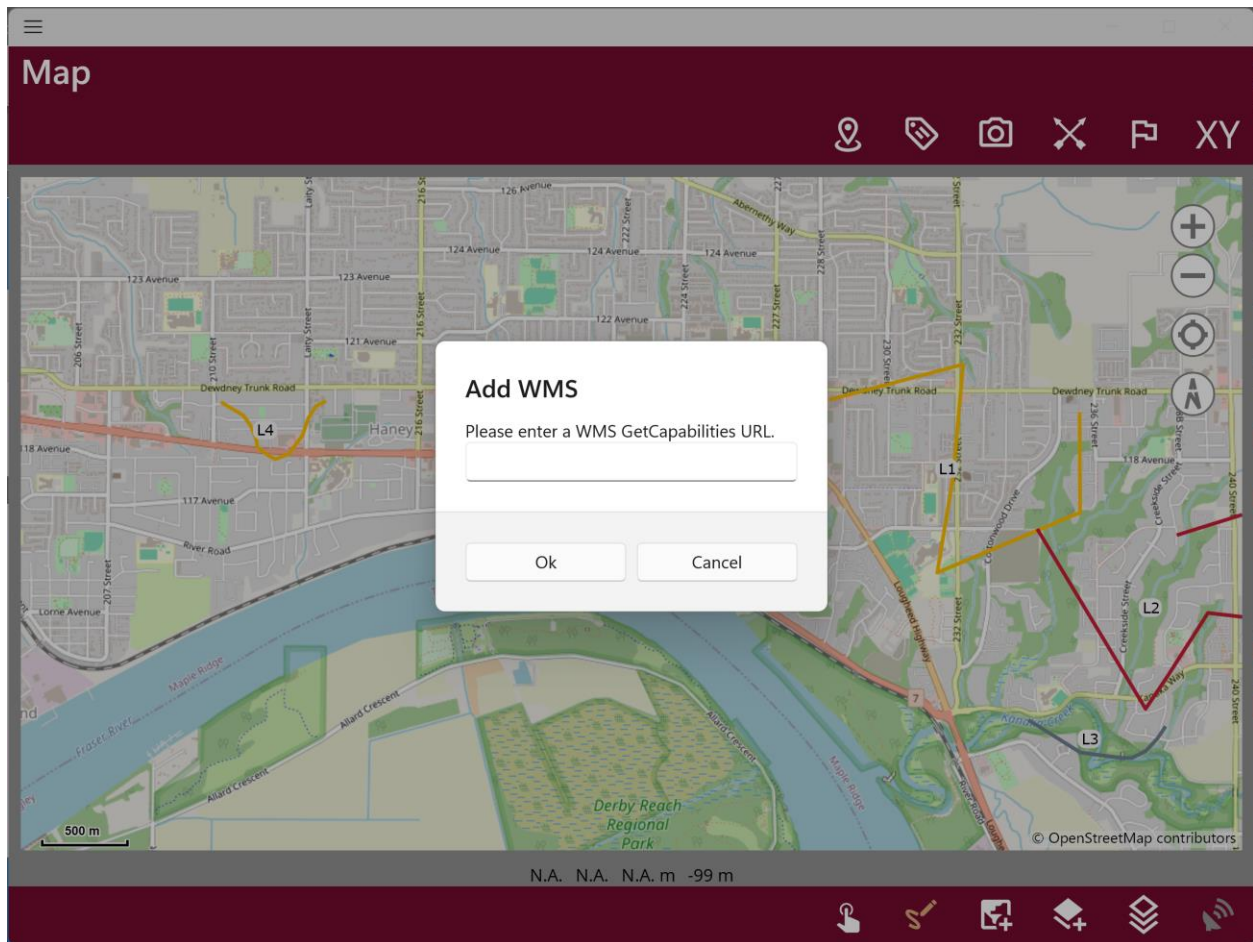
Save

Copy

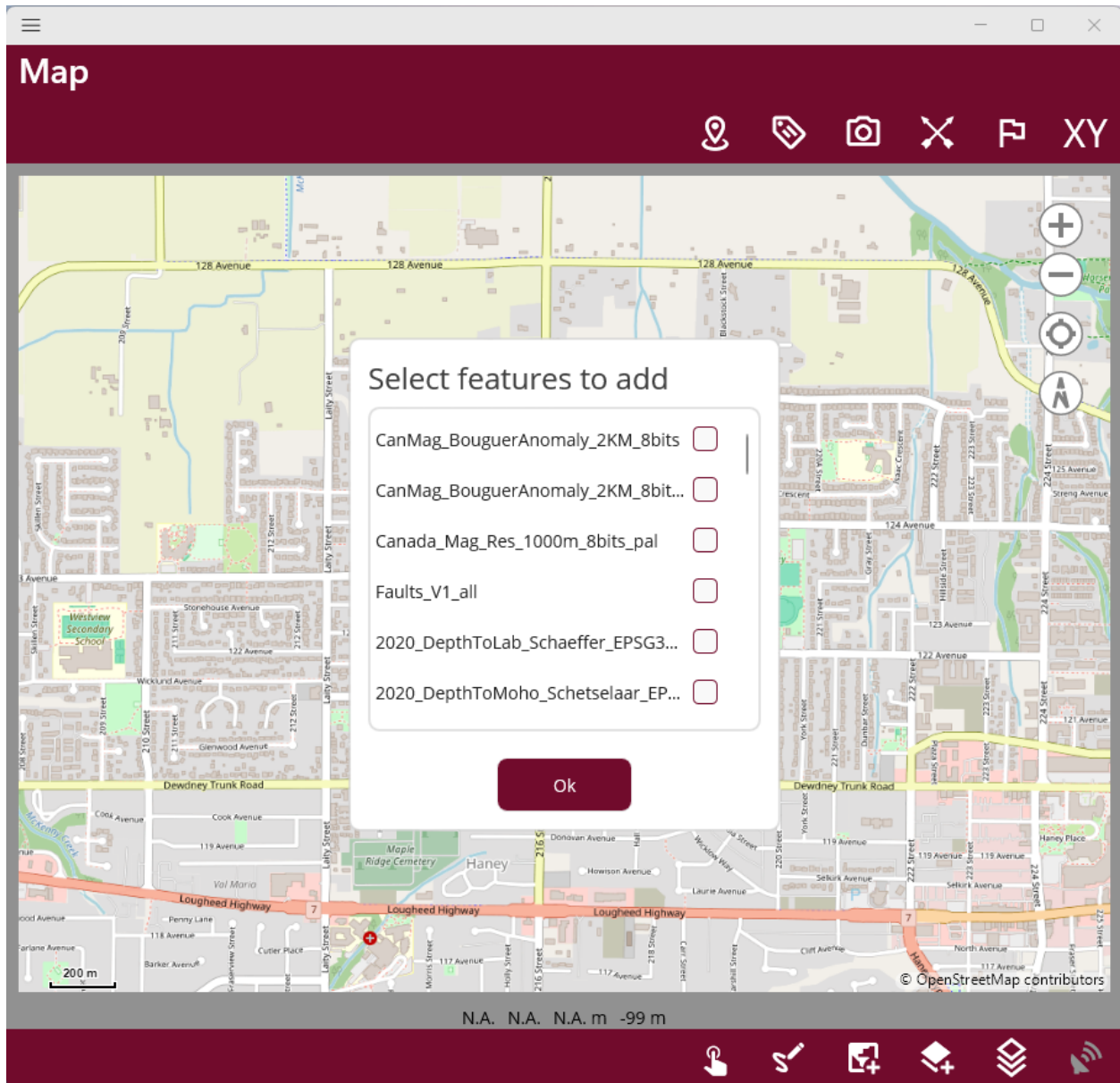
USING A WEB MAPPING SERVICE (WMS) / UTILISATION D'UN SERVICE DE CARTOGRAPHIE WEB (SCW)

Note: data viewed from the WMS will be cached for future use when offline.

1. Tap the 'Tap to add a URL of an online Web Mapping Service (WMS)'. 
2. Enter the WMS URL



3. After you tap on the **OK** button, wait for 5-10 seconds for the WMS site to send back a list of the layers that it is providing.



<https://canada3d-geo.azurewebsites.net/ows?service=wms&version=1.3.0&request=GetCapabilities> is a good source of relatively coarse geological data resources such as geophysical, faults, bedrock geology, surficial geology, marine geology, Ni showings and more.

We encourage you to experiment with each of the layers to see if it helps you.

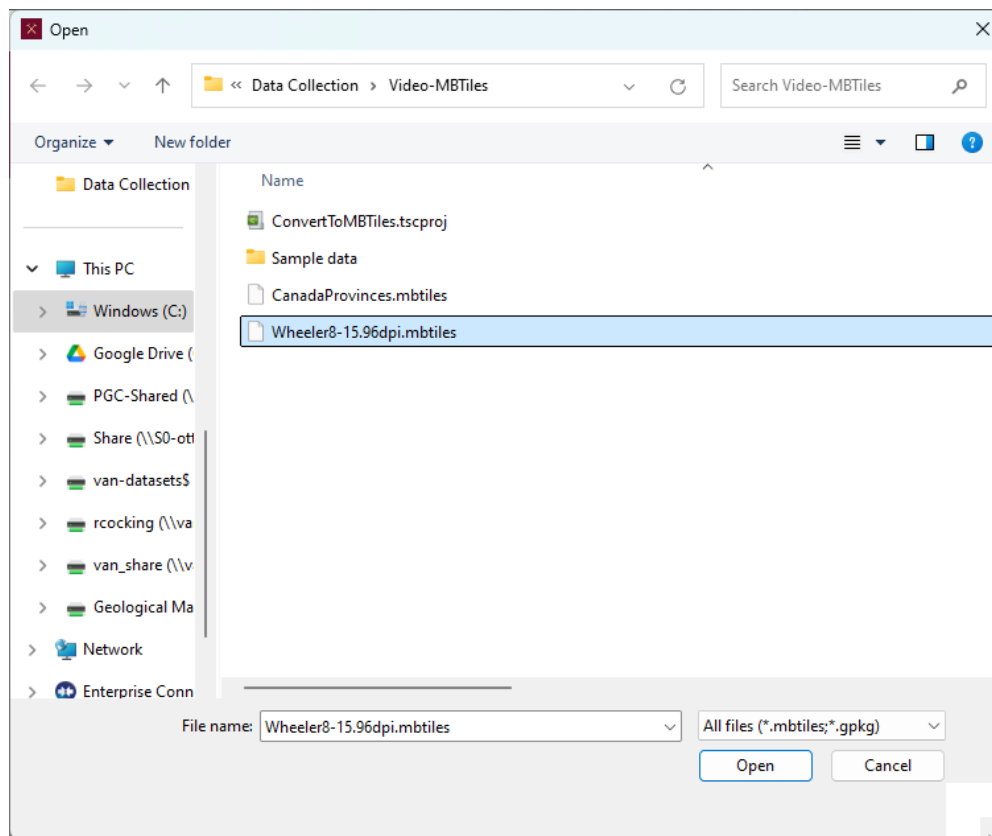
Note: some WMS datasets will take as long as 10 minutes to download depending on their area coverage.

USING LAYERS (MBTILES, GEOPACKAGES) / UTILISATION DE LAYERS (MBTILES, GEOPACKAGES)


Tap on the **Tap to add a new layer** button

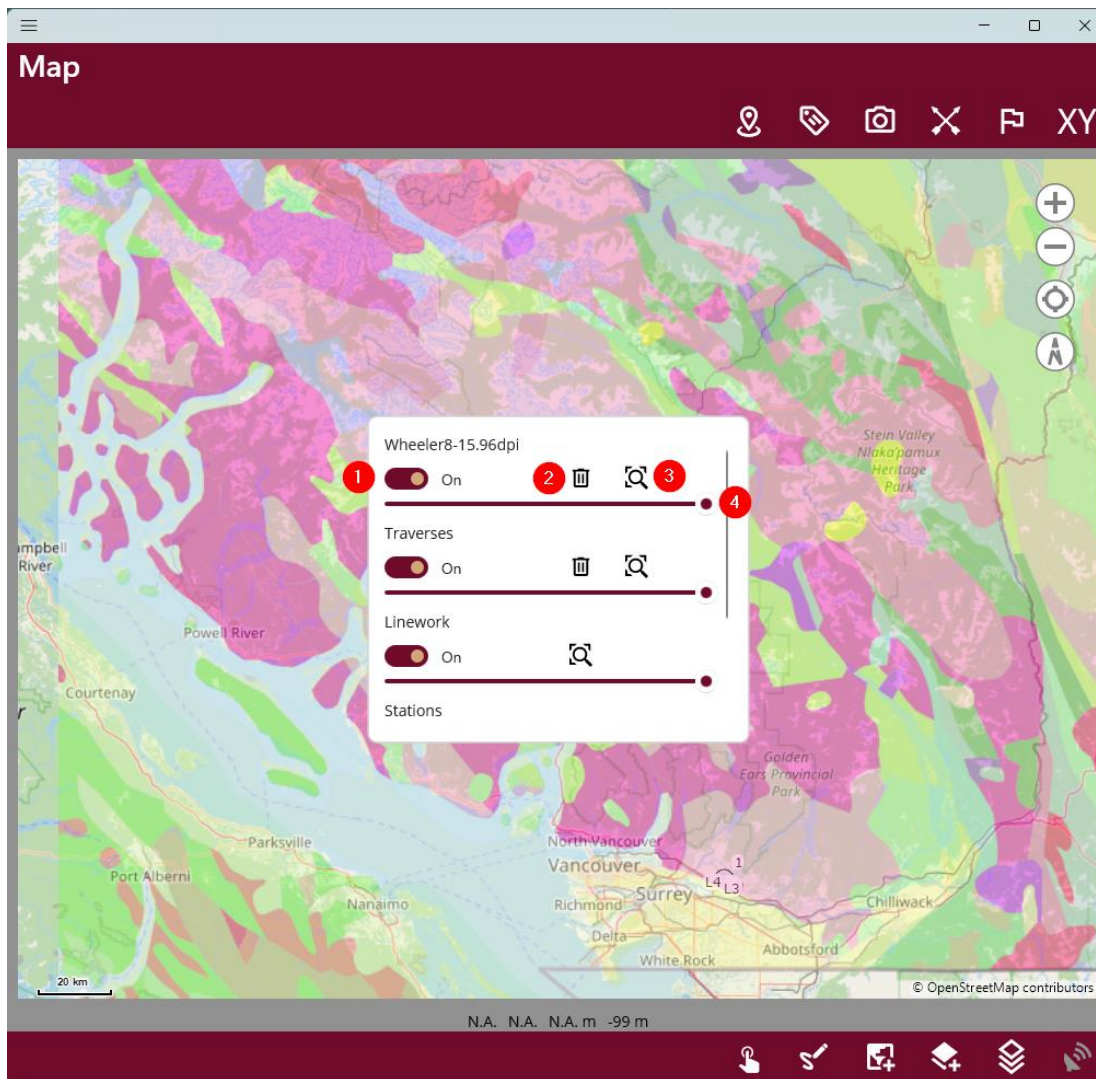


Use the browser to navigate to the location of your layer and select it. Click on the **OK** button to add the layer.



USING THE LAYER MANAGER / UTILISER LE GESTIONNAIRE DE COUCHES

Tap on **Tap** to see a list of all loaded layers and more options button  to enter the Layer Manager.



1. Toggle the layer on/off.
2. Remove the layer (does not delete the layer files).
3. Zoom to the extent of the features in a layer with the magnifying glass button.
4. Move the slider side to side to change the transparency of this layer.

Optionally, dragging a layer item from this menu can change the ordering. For example, dragging Wheeler8-15.96dpi to below the Stations layer will reorder it to show underneath it in the map page. The layer menu presents the map page layer vertical ordering.

TIPS

Tip 1: Keep a battery bank for extra power for your mobile devices.

Tip 2: When prompted, GPS location should be set to **Allow all the time**, not just for the app. Otherwise, the app will turn off the GPS if it is not actively used, adding some extra waiting time upon screen opening, while your location is being recalculated.

Tip 3: When using the GSC Field App on Android, you can access the **COPY** and **DELETE** buttons by sliding the **SAVE** button to the left or right with your thumb. These buttons always appear on a Windows version, as below in the Station Notes.

Tip 4: Hover over right-side buttons to show tooltips. These buttons will navigate to the related record entry forms. These can be associated with currently editing one. For example, a sample record is always associated to an earth material one which itself is always associated with a station record.

Tip 5: In either Android or Windows, in a record, double tapping on a box header allows the user to close that box to save space. In this example, the three boxes in green are closed, while the box in red is open.

Station

25EFD0009

Type

Observation

visited outcrop

Source

ground observation

Outcrop

General

Notes

Save

Tip 6: Tap/click 10 times on the application logo, in the About page, to enable developer mode. Once enabled, some hidden settings will be available, like getting access to debug log text file or even a geometry repair tool.

APPENDIX / ANNEXE

STATION NOTES / NOTES DE STATION

The screenshot shows a mobile application interface for recording station notes. The interface is divided into several sections:

- Header:** A red bar at the top contains the word "Station" (2) and the station ID "25JKA0001" (3).
- Left Column:**
 - Type:** Includes a dropdown for "Observation" (1) with "visited outcrop" selected, and a dropdown for "Source" with "ground observation" selected.
 - General:** Includes a dropdown for "Phys. Environment" with "road cut" selected, a text field for "Air Photo #" with "10897653", a text field for "Traverse #" with "0", and a text field for "Related To" with "e.g. another station alias".
- Right Column:**
 - Outcrop:** Includes a text field for "Size" with "1m", a dropdown for "Quality" with "good" selected, and a list of items: "good" and "scattered", each with an "x" icon.
 - Notes:** Includes a text area for "Current" with "Current station notes" and a text area for "Since Last Station" with "Saw a bear in the river; changed our traverse to avoid".
- Bottom:** Three buttons: "Delete" (8), "Save" (9), and "Copy" (10).
- Right Edge:** Four colored buttons with "+" signs: brown (4), green (5), grey (6), and purple (7).

1. Main Menu
2. Station record
3. Station Name
4. Tap to add a new earth material
5. Tap to add a new environment
6. Tap to add a new mineralization/alteration
7. Tap to add one or many photos
8. Delete this record (Android, left swipe on the **Save** button)
9. Save any edits made to this record
10. Copy this record (Android, right swipe on the **Save** button)

DRILL HOLE NOTES / NOTES SUR LES TROUS DE FORAGE

Note : add a drill hole by first adding a manual location entry from the map page, then tap the blue Drill Hole + icon.

The screenshot shows a mobile application interface for adding a drill hole. The form is titled "Drill Hole" and has a header bar with the identifier "25JKA0013DH". The form is divided into several sections: "Context", "Metrics", "Log/Re-log", and "General".

Context Section:

- Original Name: Text input field.
- Company: Text input field.
- Type: Dropdown menu with "Diamond Drill Hole (DDH)" selected.

Metrics Section:

- Azimuth: Text input field.
- Dip: Text input field.
- Length: Text input field.
- Units: Dropdown menu with "Meter" selected.
- Hole Size: Dropdown menu with "BQ" selected.
- Core Size: Text input field.
- Date: Date picker showing "25-02-19".

Log/Re-log Section:

- Type: Dropdown menu with "Full" selected.
- By: Text input field with "Adher, J.".
- Date: Date picker showing "25-02-19".
- Summary: Text area.
- From (m): Text input field.
- To (m): Text input field.
- Set: Button.

General Section:

- Related To: Text input field.
- Notes: Text area.

Annotations:

- 1: Hamburger menu icon in the top left corner.
- 2: "Drill Hole" title in the header bar.
- 3: Identifier "25JKA0013DH" in the header bar.
- 4: "+" icon in the right sidebar.
- 5: "+" icon in the right sidebar.
- 6: "Delete" button at the bottom left.
- 7: "Save" button at the bottom center.
- 8: "Copy" button at the bottom right.

1. Main Menu
2. Drill Hole record
3. Drill Hole Name
4. Tap to add a new earth material
5. Tap to add one or many photos
6. Delete this record (Android, left swipe on the **Save** button)
7. Save any edits made to this record
8. Copy this record (Android, right swipe on the **Save** button)

EARTH MATERIAL NOTES / NOTES SUR LES MATÉRIAUX TERRESTRES

The screenshot shows the 'Earth Material' app interface. At the top, a navigation bar contains a back arrow (1) and a hamburger menu icon (2). Below the bar, the title 'Earth Material' (2) is displayed. The main content area shows a record for '25XYZ0003A' (3). The record is organized into several panels: 'Lithology - Setting and composition' (containing dropdowns for Detail, Map Unit, Sorting, H2O Content, Oxidation, and Clast Form), 'Lithologic Modifiers' (containing a Texture/Structure dropdown and a list of modifiers like 'med sand' and 'fine gravel'), 'Colour' (containing dropdowns for Generic, Intensity, and Qualifier, and buttons for Fresh and Weathered), 'Interpretation' (containing a Confidence dropdown and an Interpretation text area), 'Depth' (containing input fields for Min. and Max. depth), and 'General' (containing a Notes text area). On the right side, there is a vertical stack of six colored buttons with '+' signs, numbered 4 through 9. At the bottom, there are three buttons: 'Delete' (10), 'Save' (11), and 'Copy' (12).

1. Main Menu
2. Earth Material record
3. Earth Material Name
4. Tap to add a new sample
5. Tap to add a new structure

6. Tap to add a new mineralization/alteration
7. Tap to add a new mineral
8. Tap to add a new paleoflow
9. Tap to add a new fossil
10. Delete this record (Android, left swipe on the **Save** button)
11. Save any edits made to this record
12. Copy this record (Android, right swipe on the **Save** button)

SAMPLE NOTES / EXEMPLES DE NOTES

The screenshot shows a mobile application interface for recording sample data. At the top, a grey navigation bar contains a back arrow, a hamburger menu icon (labeled 1), and standard window controls. Below this is an orange header bar with the word 'Sample' (labeled 2). The main content area has a white background with an orange border. At the top of this area is the sample ID '25JKA0004A01' (labeled 3). The form is divided into four sections: 'Description' (with fields for Type, Purpose, and a large text area), 'Orientation' (with fields for Format, Azimuth, Dip/Plunge, and Surface), 'Core' (with fields for Size, From, Length, and To), and 'General' (with a Notes field). At the bottom, there are three buttons: 'Delete' (labeled 4), 'Save' (labeled 5), and 'Copy' (labeled 6).

1. Main Menu
2. Sample record
3. Sample Name
4. Delete this record (Android, left swipe on the **Save** button)
5. Save any edits made to this record
6. Copy this record (Android, right swipe on the **Save** button)

STRUCTURE NOTES / NOTES DE STRUCTURE

The screenshot shows the 'Structure' app interface. At the top, a navigation bar contains a back arrow, a menu icon (1), and the title 'Structure' (2). Below the bar, the structure name '25JKA0004B01' (3) is displayed. The main content area is divided into four panels: 'Type' (with 'Class and type' and 'Detail' dropdowns), 'Measurements' (with 'Format', 'Azimuth', 'Dip/Plunge', 'Depth', 'Method', and 'Related' dropdowns), 'Description' (with 'Attitude', 'Younging', 'Generation', 'Strain', and 'Flattening' dropdowns), and 'General' (with a 'Plot to map' checkbox, 'Fabric' and 'Sense' text areas, and a 'Notes' text area). At the bottom, there are three buttons: 'Delete' (4), 'Save' (5), and 'Copy' (6).

1. Main Menu
2. Structure record
3. Structure Name
4. Delete this record (Android, left swipe on the **Save** button)
5. Save any edits made to this record
6. Copy this record (Android, right swipe on the **Save** button)

PALEOFLOW NOTES / NOTES SUR LE PALEOFLOW

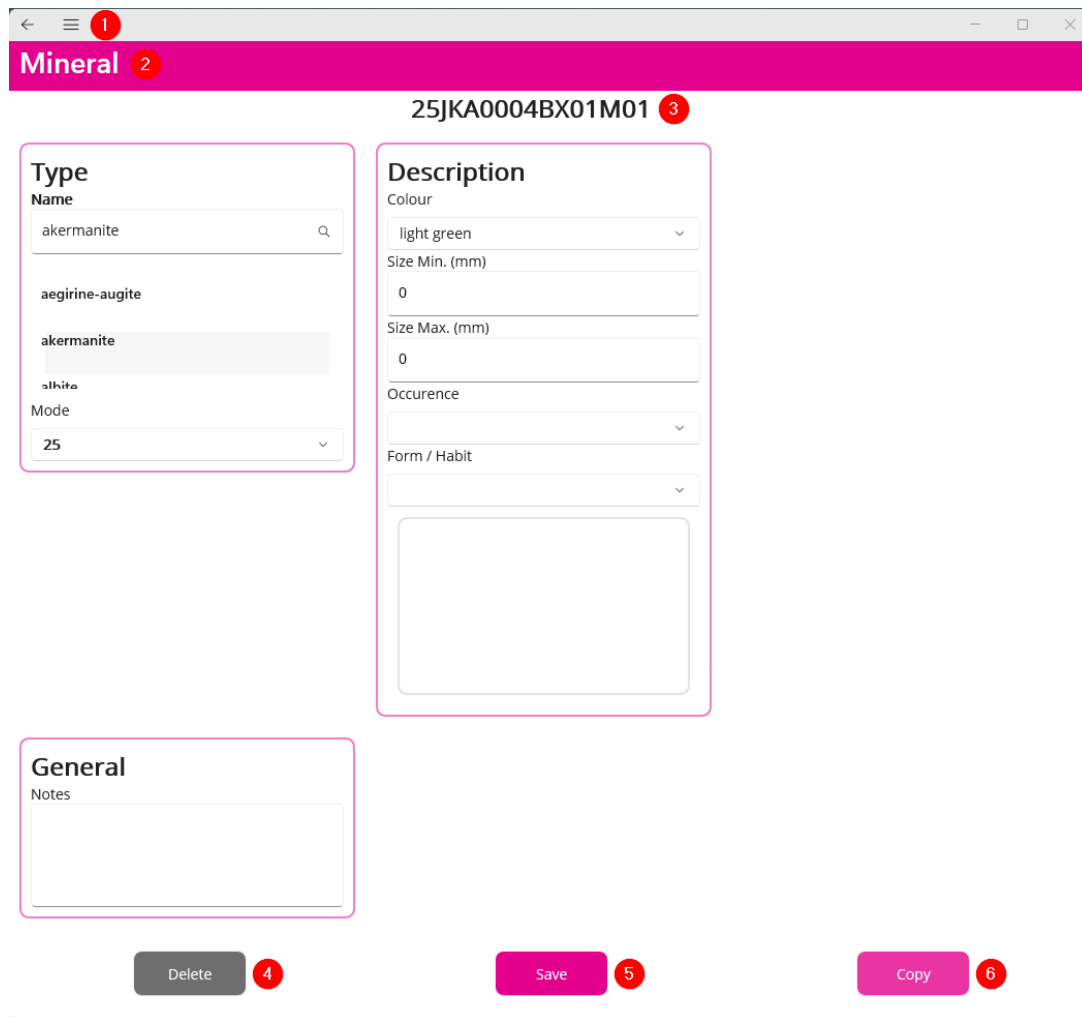
The screenshot shows the Paleoflow app interface. At the top, there is a navigation bar with a hamburger menu icon (1) and the app name 'Paleoflow' (2). Below the navigation bar, the record ID '25XYZ0004A01' (3) is displayed. The form is divided into several sections:

- Type**: Includes fields for Class (paleocurrent), Feature (ripple laminations), and Sense.
- Measurements**: Includes fields for Azimuth (220), Dip (20), and a checkbox for 'Is Main Direction?'.
- Description**: Includes fields for Bedrock surface (boulder), Confidence (high), Quality (moderate), and Numbers of Indicators (few (2 -10)).
- Relations**: Includes fields for Relative Age (2), Method (estimated), and Relation (deep).
- General**: Includes a Notes field.

At the bottom, there are three buttons: 'Delete' (4), 'Save' (5), and 'Copy' (6).

1. Main Menu
2. Paleoflow record
3. Paleoflow Name
4. Delete this record (Android, left swipe on the **Save** button)
5. Save any edits made to this record
6. Copy this record (Android, right swipe on the **Save** button)

MINERAL NOTES / NOTES SUR LE MINÉRAUX



1

Mineral 2

25JKA0004BX01M01 3

Type

Name

akermanite

akermanite

akermanite

akermanite

Mode

25

Description

Colour

light green

Size Min. (mm)

0

Size Max. (mm)

0

Occurrence

Form / Habit

General

Notes

Delete 4

Save 5

Copy 6

1. Main Menu
2. Mineral record
3. Mineral Name
4. Delete this record (Android, left swipe on the **Save** button)
5. Save any edits made to this record
6. Copy this record (Android, right swipe on the **Save** button)

MINERALIZATION-ALTERATION NOTES / NOTES SUR LA MINÉRALISATION-ALTERATION

The screenshot shows a mobile application interface for recording mineralization and alteration data. The interface is divided into several sections:

- Header:** A green bar at the top contains the title "Mineralization / Alteration" (callout 2) and a unique identifier "25JKA0004BX01" (callout 3).
- Type Section:** Located on the left, it includes a dropdown menu for "Mineralization / Alteration" (currently set to "mineralization", callout 1) and a dropdown menu for "Unit" (currently set to "host rock").
- Description Section:** A larger central form containing:
 - Distribution:** A dropdown menu (currently "scattered", callout 4) and a list of tags: "pervasive" and "scattered", each with a remove button (X).
 - Phase:** A dropdown menu (currently "primary").
 - Texture:** A dropdown menu (currently "layered").
 - Facies:** A dropdown menu (currently "argillitic").
 - Notes:** A large text area for additional information.
- Actions:** At the bottom, there are three buttons: "Delete" (callout 5), "Save" (callout 6), and "Copy" (callout 7). A pink "+" button (callout 4) is also visible on the right side of the Description section.

1. Main Menu
2. Mineralization/Alteration record
3. Mineralization/Alteration Name
4. Tap to add a new mineral
5. Delete this record (Android, left swipe on the **Save** button)
6. Save any edits made to this record
7. Copy this record (Android, right swipe on the **Save** button)

FOSSIL NOTES / NOTES SUR LES FOSSILES

The screenshot shows the Fossil Notes app interface. At the top, there is a navigation bar with a back arrow, a menu icon (1), and a close button. Below the navigation bar, the word "Fossil" (2) is displayed. The main content area shows the fossil name "25JKA0004B01" (3). Below the name, there is a "General" section with a "Type" dropdown menu (currently set to "cephalopod, ammonoid") and a "Notes" text area. At the bottom, there are three buttons: "Delete" (4), "Save" (5), and "Copy" (6).

1. Main Menu
2. Fossil record
3. Fossil Name
4. Delete this record (Android, left swipe on the **Save** button)
5. Save any edits made to this record
6. Copy this record (Android, right swipe on the **Save** button)

ENVIRONMENT NOTES / NOTES SUR L'ENVIRONNEMENT

The screenshot shows the 'Environment' app interface. At the top, a grey navigation bar contains a back arrow and a menu icon (1). Below this is a green header bar with the word 'Environment' (2). The main content area has a title '25JKA0004E01' (3). There are four data entry panels: 'Landscape' with fields for Relief (undulating), Boulder (boulder lag), Slope (0), and Azimuth (0); 'Terrain' with fields for Drainage, Permafrost Indicator, Exposure, and Active Depth Layer (m) (0); 'Ground' with fields for Cover, Ice, and Pattern; and 'General' with a Notes field. At the bottom, there are three buttons: 'Delete' (4), 'Save' (5), and 'Copy' (6).

1. Main Menu
2. Environment record
3. Environment Name
4. Delete this record (Android, left swipe on the **Save** button)
5. Save any edits made to this record
6. Copy this record (Android, right swipe on the **Save** button)

PHOTOS NOTES / NOTES DE PHOTOS

1. Main Menu
2. Photos record
3. Photos Name
4. Take a snapshot with device
5. A snapshot taken with the device
6. Delete this record (Android, left swipe on the **Save** button)
7. Save any edits made to this record
8. Copy this record (Android, right swipe on the **Save** button)

Note: Double tap/click on the snapshot thumbnail to edit it. For example, it could be useful to edit the photo to draw some contact seen in the landscape. Make sure to save any edit with the same picture name for those edits be seen in the thumbnail, back in the form.

LOCATION NOTES / NOTES DE LOCALISATION

Location 2

25EST0001XY 3

Datum
LocationPageGeodetic
WGS84 (Geo) v

Geographic
Latitude
46.86987414
Longitude
-71.17041146
To UTM 6

Projected
Easting (m)
Northing (m)
To Geographic 7

General
Elevation
0
Accuracy (m)
102
Nation Topographic Sheet (NTS)
Ex: 31M01
Notes
4 +
5 +
Delete 8
Save 9
Copy 10

1. Main Menu
2. Location record
3. Location Name
4. Tap to add a new station record
5. Tap to add a new drill hole record
6. Tap to convert coordinates to metric (if a metric projection is selected in the Datum box)
7. Tap to convert coordinates to geographic
8. Delete this record (Android, left swipe on the **Save** button)
9. Save any edits made to this record
10. Copy this record (Android, right swipe on the **Save** button)