



DEVELOPMENT MANAGEMENT GROUND LEVEL MAP

GUIDE ON HOW TO ACCESS GROUND LEVEL MAPS ON CITY MAP VIEWER

How to access the Ground Level Map (GLM) datasets.

Submit a request to City Maps

Both the GLM 2m contour and 5m Digital Elevation Model (DEM) are available on request via the City of Cape Town's City Maps Office.

Requests for smaller study areas can also be sent to this office using the following contact details:

City Maps Office

7th floor, Keller House, 121 Loop Street, Cape Town 8001

Email: city.maps@capetown.gov.za

Tel: 021 487 2826

Self Service option

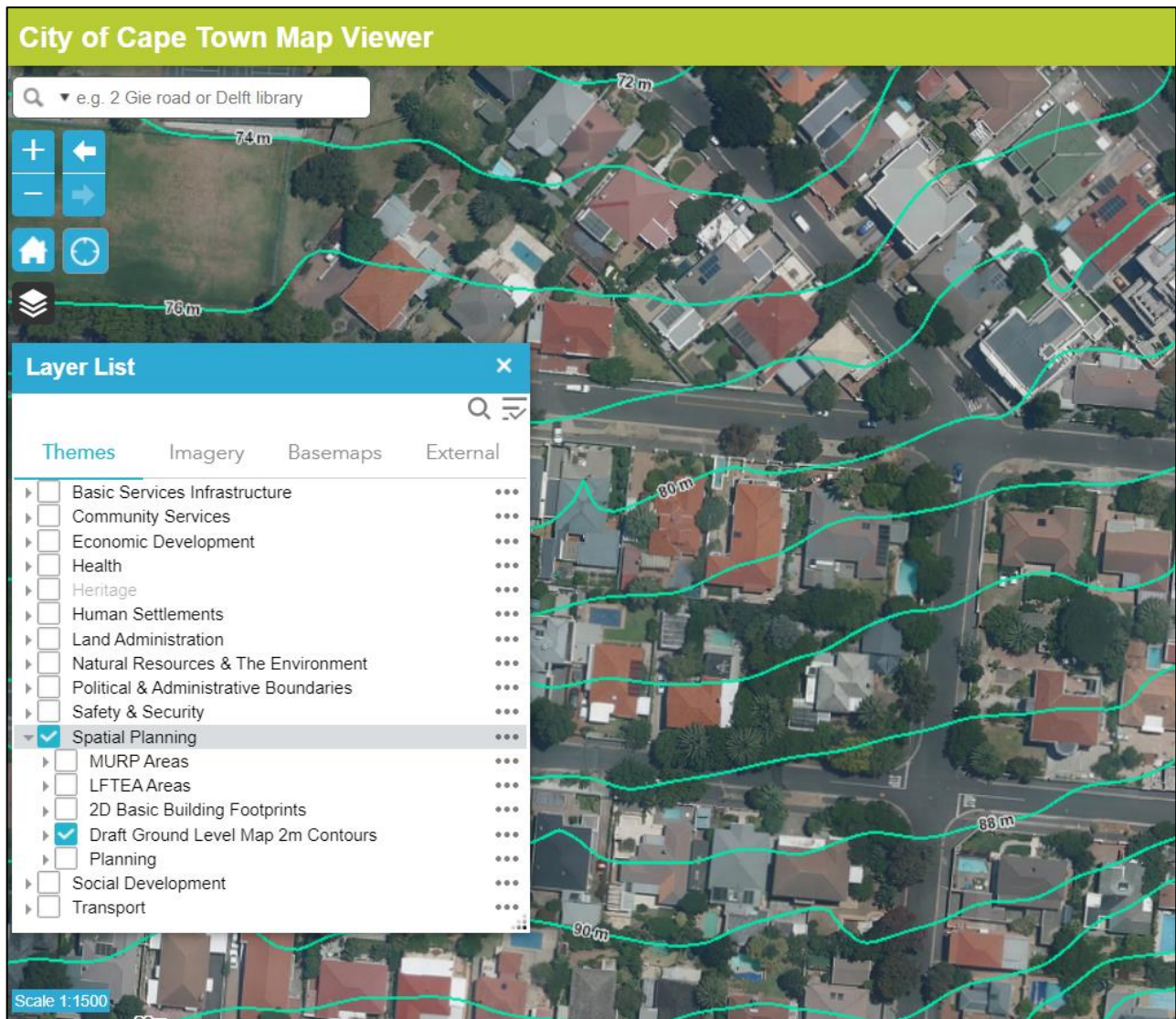
To access the data sets directly, follow the steps outlined below:

2m Contours

External City Map Viewer

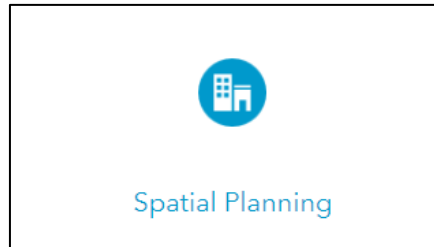
- Access the City of Cape Town's [External Map Viewer](#)
Remember to read the disclaimer and accept the terms and conditions to proceed.

- On the Layer List menu, under the 'Spatial Planning' theme, select 'Draft Ground Level Map 2m Contours'



City of Cape Town Open Data Portal

- Access the City of Cape Town's [Open Data Portal](#)
- Select the 'Spatial Planning' theme



- Search 'Ground Level Map' and select 'Draft City of Cape Town Ground Level Map 2m Contours'.

Note: If you search for 'Ground Level Map' the 5m DEM will also display (see image below)

A screenshot of the City of Cape Town Open Data Portal search results page. The search bar at the top contains 'ground level map'. The results are filtered by 'All' (selected), 'Data', 'Documents', and 'Apps & Maps'. The results show two items: a 'Document' titled 'DRAFT Ground Level Map 5m DEM (CCT GLM 2019)' and a 'Data' item titled 'DRAFT City of Cape Town Ground Level Map 2m Contours (CCT GLM 2019)'. The 'Document' item includes a description, type (Document Link), publish date (August 22, 2022), and tags (DEM, Ground Levels, Natural Ground Level, Existing ...). The 'Data' item includes a description, type (Feature Layer), last updated date (April 21, 2022), rows (73,245), and tags (GLM, Open Data, Draft, Ground Level Map, Draft Gro...).

[DRAFT City of Cape Town Ground Level Map 2m Contours \(CCT GLM 2019\) |](#)
[DRAFT City of Cape Town Ground Level Map 2m Contours \(CCT GLM 2019\) |](#)
[Open Data Portal \(arcgis.com\)](#)

- Click on 'Download Options' and select preferred file type, ie: CSV, KML, Shapefile, GeoJSON.

DRAFT City of Cape Town Ground Level Map 2m Contours (CCT GLM 2019)

City of Cape Town Corporate GIS
City of Cape Town

Summary

The purpose of the CCT GLM 2019 is to provide a set reference surface for Existing Ground Level across the City of Cape Town Municipality. This dataset consists of a 5m DEM (raster) and these 2m Contours (vector). This dataset is the DRAFT GLM and is yet to be finalized. The 5m DEM is a raster elevation model (bare earth) derived from the 2019B LiDAR dataset. The 2m contour line data set displays contours at every 2m height interval covering the entire municipal area of the

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[View Full Details](#)

[Download](#)

Download Options
DRAFT City of Cape Town Ground Level Map 2m Contours (CCT GLM 2019)

Records: 0
Toggle Filters: ☐

Download applicable file

CSV
File created: Sep 28, 2023, 09:51
File size: 877.1 KB
[Download Options](#) ▲

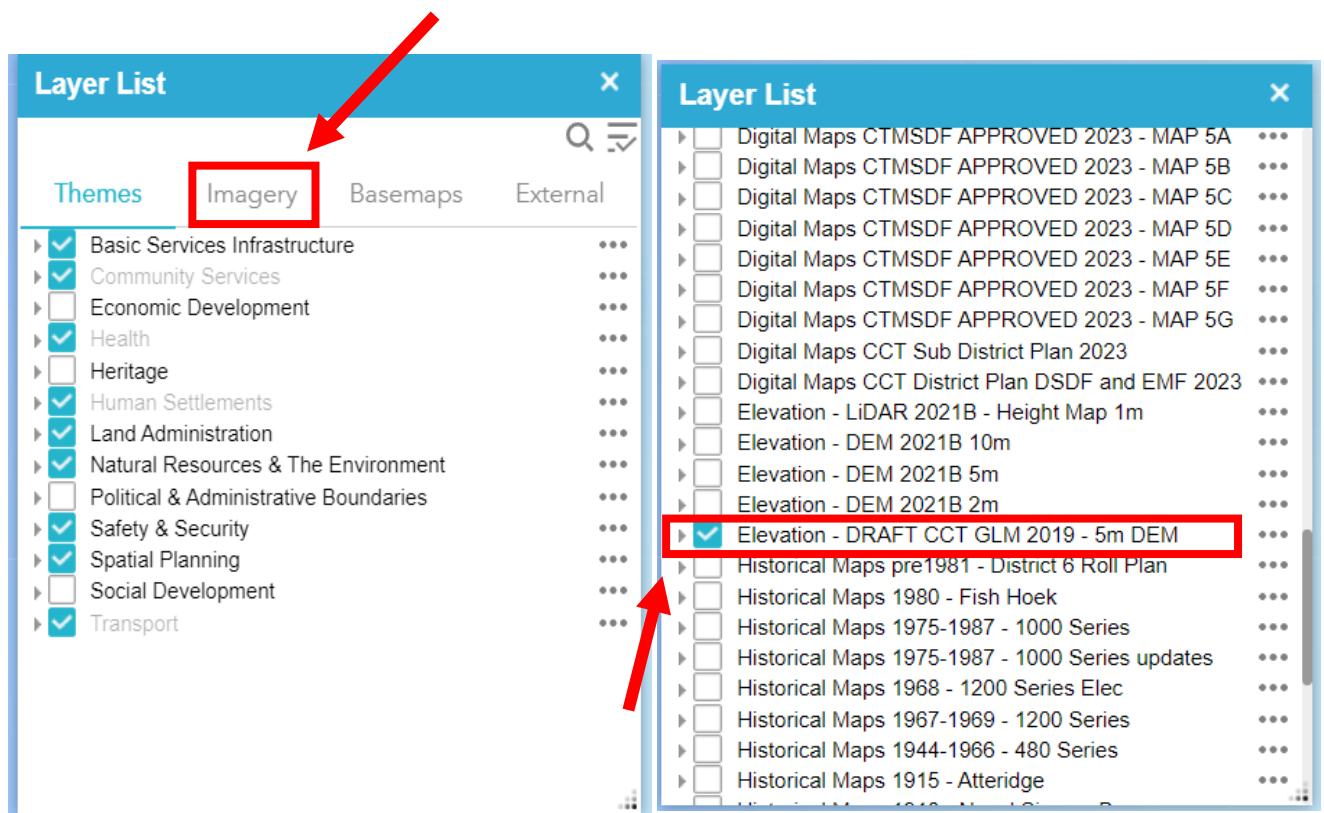
KML
File created: Sep 28, 2023, 10:06
File size: 570.9 MB
[Download Options](#) ▲

Shapefile
File created: Sep 28, 2023, 09:52
File size: 636.4 MB

5m Digital Elevation Model

External City Map Viewer

- Access the City of Cape Town's [External Map Viewer](#)
Remember to read the disclaimer and accept the terms and conditions to proceed.
- The 5m DEM can be found under the Imagery tab, select to open options



GUIDE ON HOW TO ACCESS GROUND LEVEL MAPS ON CITY MAP VIEWER

A height identification tool has been developed in the viewer. This tool allows you to query the height of any of the elevation models loaded in the viewer. Using the 'Identify' tool, click on the area of interest to display the height under the spatial results tab:

The screenshot displays the City of Cape Town Map Viewer interface. The main map area shows aerial imagery with green elevation contours. A blue dot is placed on the map, and the 'Identify' tool is active, displaying results in the right-hand panel.

City of Cape Town Map Viewer

Search: e.g. 2 Gie road or Delft library

Layer List

- Themes
- Imagery**
- Basemaps
- External

- ☒ Aerial Imagery 2022 January
- ☐ Aerial Imagery 2021 March
- ☐ Aerial Imagery 2020 January
- ☐ Aerial Imagery 2019 January
- ☐ Aerial Imagery 2018 February
- ☐ Aerial Imagery 2017 January CBD True Ortho
- ☐ Aerial Imagery 2017 January
- ☐ Aerial Imagery 2016 January CBD True Ortho
- ☐ Aerial Imagery 2016 January
- ☐ Aerial Imagery 2015 February
- ☐ Aerial Imagery 2014 NGI
- ☐ Aerial Imagery 2013 December
- ☐ Aerial Imagery 2013 December - Robben Island
- ☐ Aerial Imagery 2012 December
- ☐ Scale 1:1500 Imagery 2011 December
- ☐ Aerial Imagery 2011 March
- ☐ Aerial Imagery 2009 November
- ☐ 18 424 -33 538 Degrees

Identify

Identify Results

Clear

Spatial Links

Property - Registered

Elevation_LiDAR2021B_Height_Map_1m

Elevation_DRAFT_CCT_GLM2019_5m_DEM

Report

height value:0 77.2

Elevation_DEM_2021B_2m

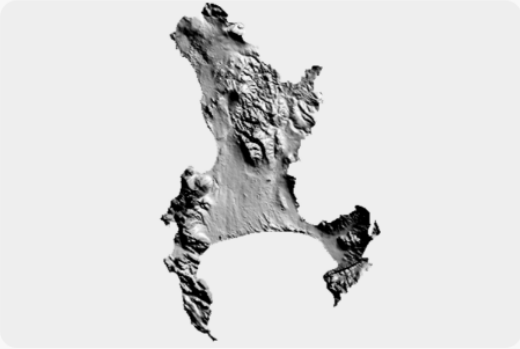
Elevation_DEM_2021B_10m

Elevation_DEM_2021B_5m

City of Cape Town Boundary

Open Data Portal (Imagery)

[DRAFT Ground Level Map 5m DEM \(CCT GLM 2019\) | Open Data Portal \(arcgis.com\)](#):



DRAFT Ground Level Map 5m DEM (CCT GLM 2019)



City of Cape Town Corporate GIS
City of Cape Town

[View Document](#)

Summary

Please click "View Full Details" button below to view all services (REST & WMS). The purpose of the CCT GLM 2019 is to provide a set reference surface for Existing Ground Level across the City of Cape Town Municipality. This dataset is the DRAFT GLM and is yet to be finalized.

This 5m DEM is a raster elevation model (bare earth) derived from the 2019B LIDAR dataset. The purpose of the CCT GLM 2019 is to provide a set reference surface for Existing Ground Level across the City of Cape Town Municipality. This dataset is the DRAFT GLM and is yet to be finalized. It consists of a 5m DEM (raster) and these 2m Contours (vector). The 5m DEM is derived from the LIDAR2019B dataset (consisting of the 2018, 2019A and 2019B datasets). The LIDAR has a vertical accuracy of 10cm and it follows that the DEM is within this order of magnitude. The City of Cape Town Ground Level Map 2019 is defined in the City of Cape Town Municipal Planning Amendment By-law, 2019 as: "City of Cape Town Ground Level Map" means a map approved in terms of the development management scheme, indicating the existing ground level based on floating point raster's and a contour dataset from LIDAR information available to the City".

[Read More](#)

Details

-  **Web Link**
Document Link
-  **August 22, 2022**
Date Updated
-  **November 11, 2021**
Published Date
-  **139 B**
Document file size
-  **Public**
Anyone can see this content
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City of Cape Town Open Data Portal

DRAFT Ground Level Map 5m DEM (CCT GLM 2019)


City of Cape Town Corporate GIS
 City of Cape Town

Summary

Please click "View Full Details" button below to view all services (REST & WMS). The purpose of the CCT GLM 2019 is to provide a set reference surface for Existing Ground Level across the City of Cape Town Municipality. This dataset is the DRAFT GLM and is yet to be finalized.

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ERDAS APOLLO 2020

[GeoServices Home >](#)

Geoservices Directory

Current Version: 10.8

Folders:

Services:

- [Aerial Imagery_Aerial Imagery 2022Jan](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2021Mar](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2021Mar Cache](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2020Jan](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2019Jan](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2018Feb](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2017Jan](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2017Jan_CBD True Ortho](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2016Jan](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2016_Paarl](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2016Jan_CBD True Ortho](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2015Feb](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2014_NG](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2013Dec](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2013Dec_Robben Island](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2012Dec](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2011Mar](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2011Dec](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2009Mar](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2009Nov](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2009_Wemmershoek Pipeline](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2009_VoelVlei Pipeline](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2008June](#) (MapServer)
- [Aerial Imagery_Aerial Imagery 2008June_Robben Island](#) (MapServer)

How to export 2m contour datasets into AutoCAD

Note: ArcGIS or QGIS are required in order to complete this process.

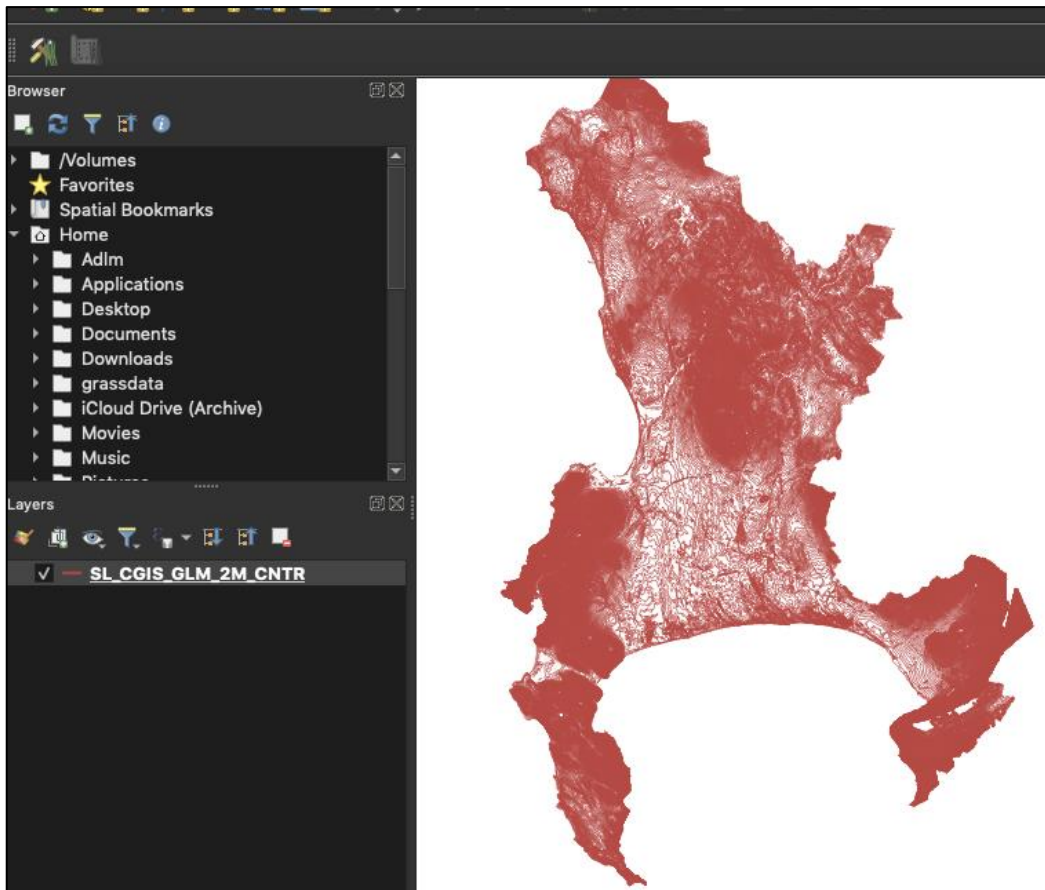
QGIS is a free open-source cross-platform desktop geographic information system (GIS) software application. Link to download:

<https://qgis.org/en/site/forusers/download.html>

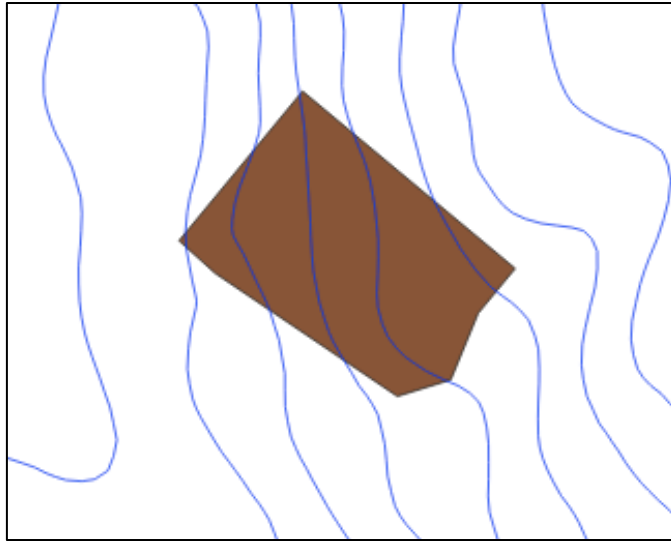
The steps on how to export the data on ArcGIS and QGIS differ. The steps for each software have been included below.

ArcGIS

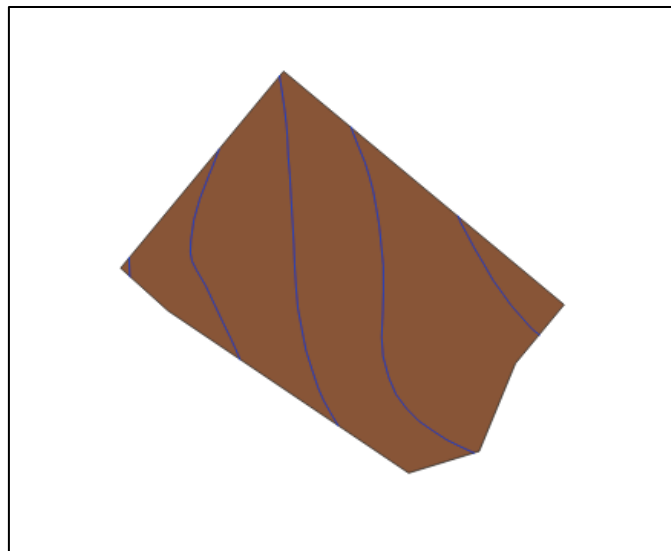
1. Drag and drop the 2m contour shapefile into ArcGIS.



2. Identify your study area



3. Clip any unwanted contours



4. Export the file as a DWG
5. Open exported file with AutoCAD

QGIS

Refer to the YouTube video below:

[How to export contours with elevation into AutoCAD using QGIS - YouTube](#)