1. Add imagery, either single .tif file or multiple .tif files depending on size of site.
   1. Layer -> Add layer -> Add Raster Layer or Cntrl + Shift + R.
   2. Navigate to raster file and click ‘add’.
   3. Right click on imagery file in Browser menu and chose Properties.
   4. Build pyramids. Pyramids improve rendering/efficiency. The larger the resolution the faster the rendering and vise-versa. Chose resolution on the right and select Build Pyramids near the bottom right.

![Graphical user interface, text, application

Description automatically generated]()

* 1. Next, chose Symbology from the Properties menu. QGIS will automatically set the limits for each band and match the rest of the Symbology shown below.![Graphical user interface

     Description automatically generated]()
  2. You may need to repeat this process for sites that are large and have multiple .tif files covering the extent.

1. Digitizing Centerlines
   1. Watch this video to learn how to create and digitize features

[Digitizing Shapefile - Point Line Polygon in QGIS - Bing video](https://www.bing.com/videos/search?q=how+to+digitize+a+line+shapefile+in+qgis&&view=detail&mid=0852064FBE5799D758D30852064FBE5799D758D3&&FORM=VRDGAR&ru=%2Fvideos%2Fsearch%3Fq%3Dhow%2Bto%2Bdigitize%2Ba%2Bline%2Bshapefile%2Bin%2Bqgis%26FORM%3DHDRSC4)

* 1. Next, visit this website to read about editing lines

[Digitization in QGIS - Exploring tools for Digitizing - (igismap.com)](https://www.igismap.com/digitization-in-qgis-exploring-tools-for-digitizing/#:~:text=Snapping%20is%20an%20operation%20to%20move,%20match%20and,and%20Edit%20Features:%20a.)%20lets%20draw%20some%20feature.)

* 1. Once you are comfortable with digitizing and editing features, start with a new line shapefile saved in the same folder as your imagery. Name the line feature ‘Centerlines’ and ensure it is .shp
  2. Once you have created your new shapefile, you will want to create a New Field in the attribute table. Right click on your line file in the Browser and select Attribute Table
  3. Ensure you have toggled the editing button and select the

1. Adding Google Satellite (or similar)