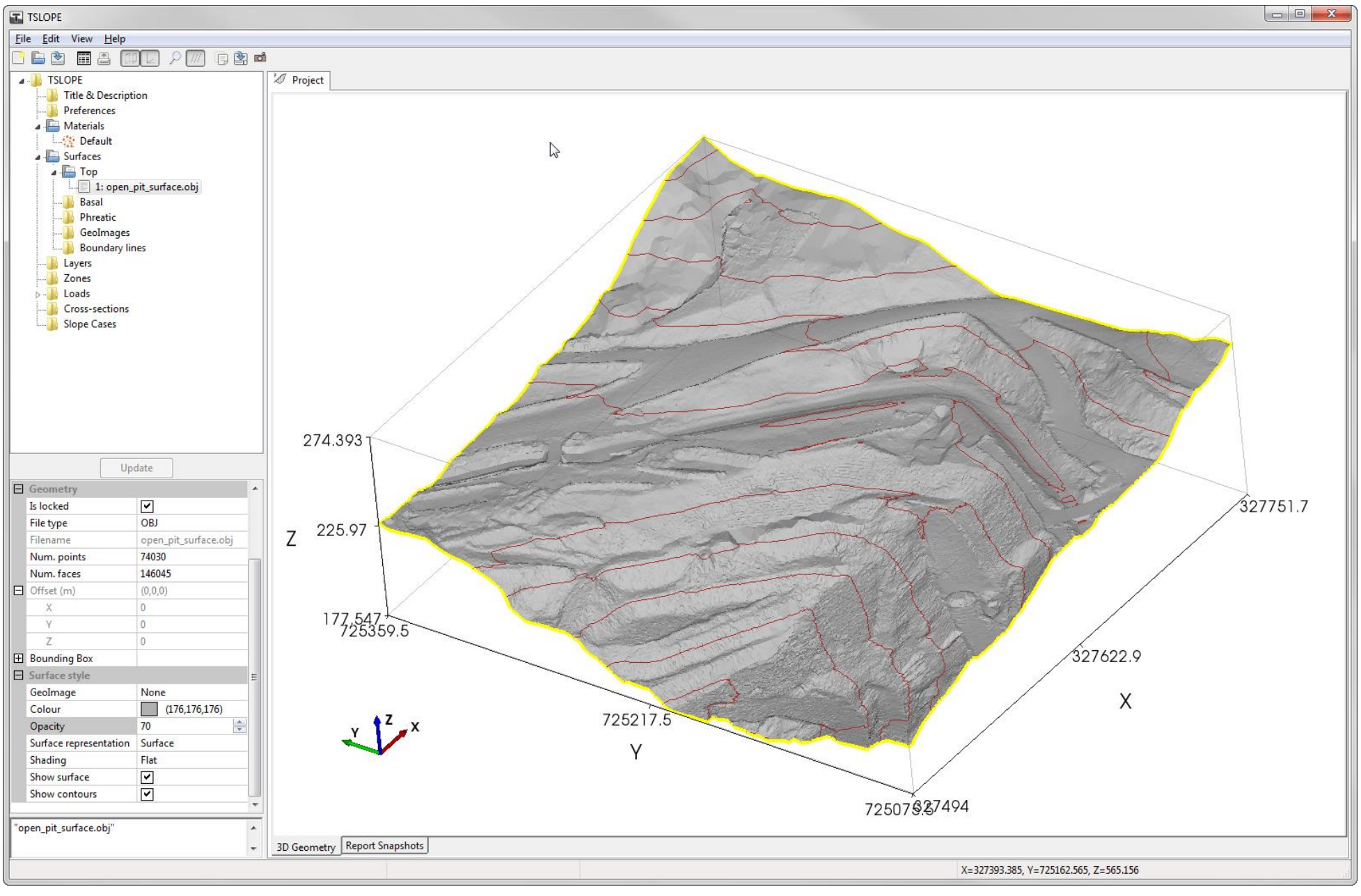
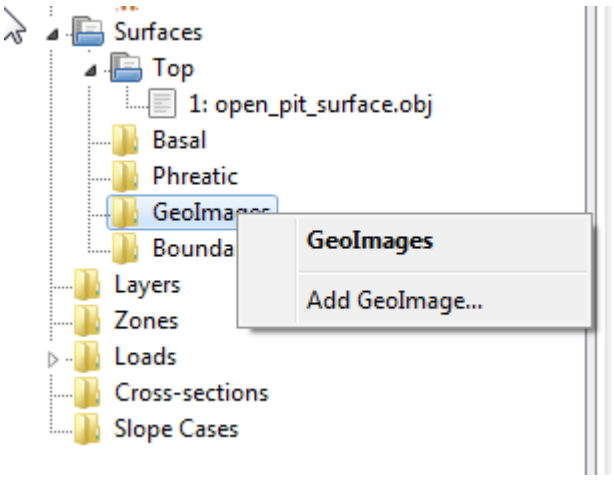
How to load a georeferenced image, and display in TSLOPE

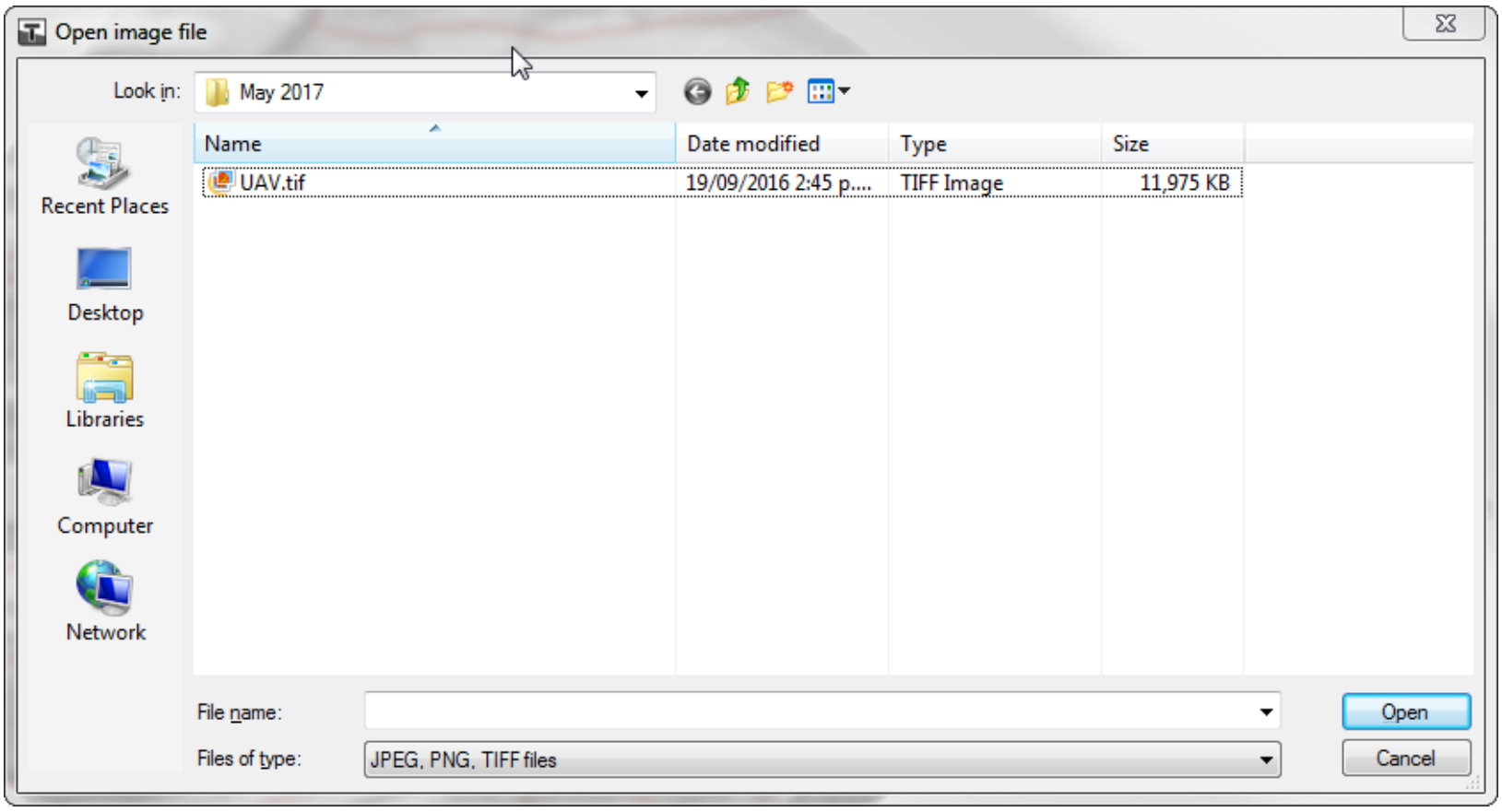
In this example, we have an open pit slope surface that has been modelled in Vulcan, and exported as an .obj file.



We then go to the GeoImages tab under Surfaces and right mouse click to select the Add GeoImage tab



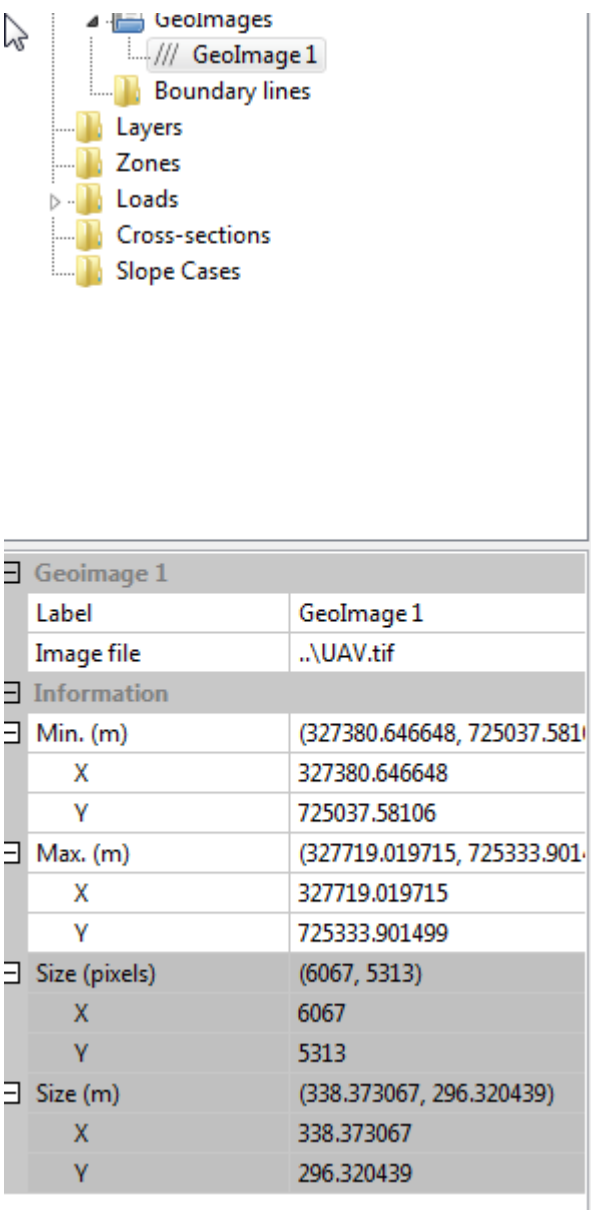
A window then opens to show the directory you are currently working in, and lists the available images. The formats that are supported are JPEG, PNG, and TIFF. They must be georeferenced, and using the same datum as the project coordinates.



The file is then selected and opened.

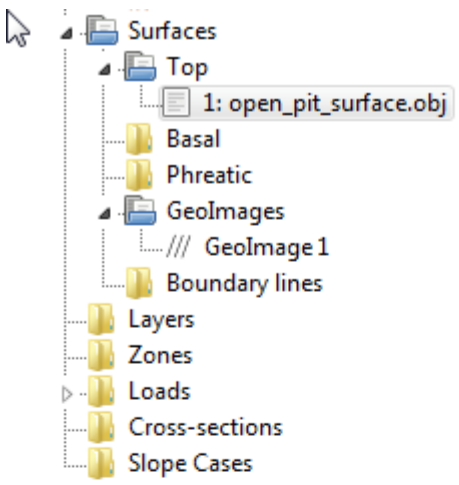
The menu now shows that a GeoImage has been loaded. TSLOPE has given it a Label GeoImage1. This can be changed to suit.

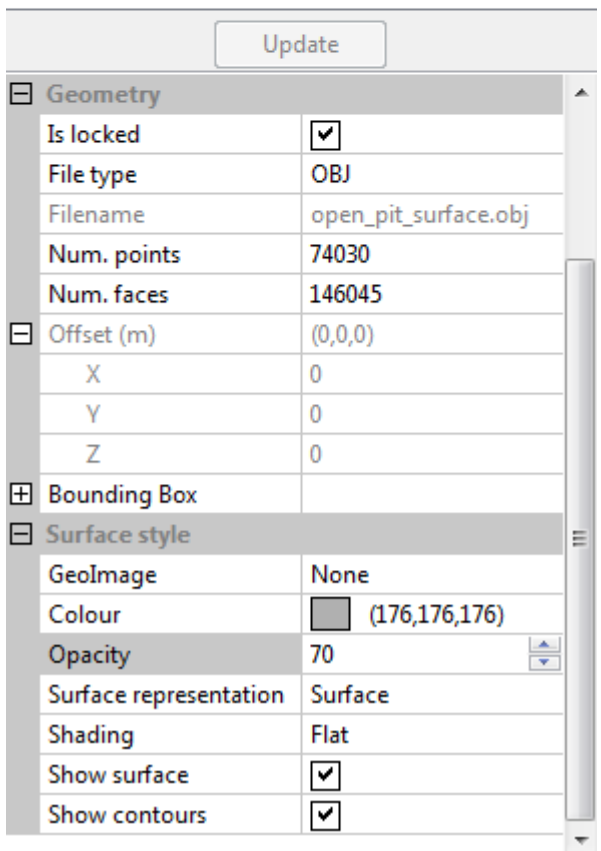
Other useful information regarding the GeoImage is provided.



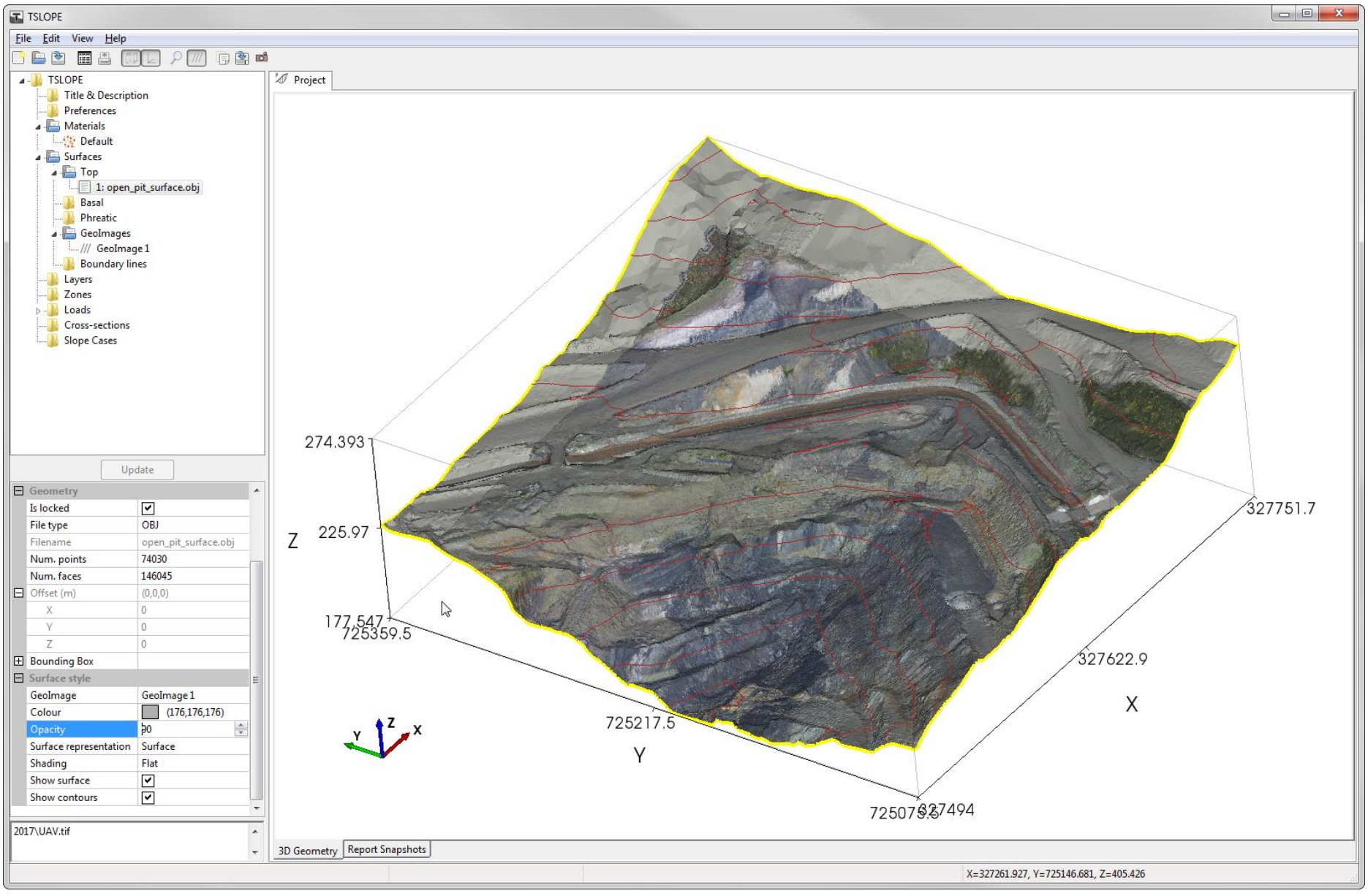
Geoimage 1	
Label	GeoImage 1
Image file	..\UAV.tif
Information	
Min. (m)	(327380.646648, 725037.581
X	327380.646648
Y	725037.58106
Max. (m)	(327719.019715, 725333.901
X	327719.019715
Y	725333.901499
Size (pixels)	(6067, 5313)
X	6067
Y	5313
Size (m)	(338.373067, 296.320439)
X	338.373067
Y	296.320439

To display the image draped over the open pit surface, we go back to the Surfaces – Top – open_pit_surface.obj tab





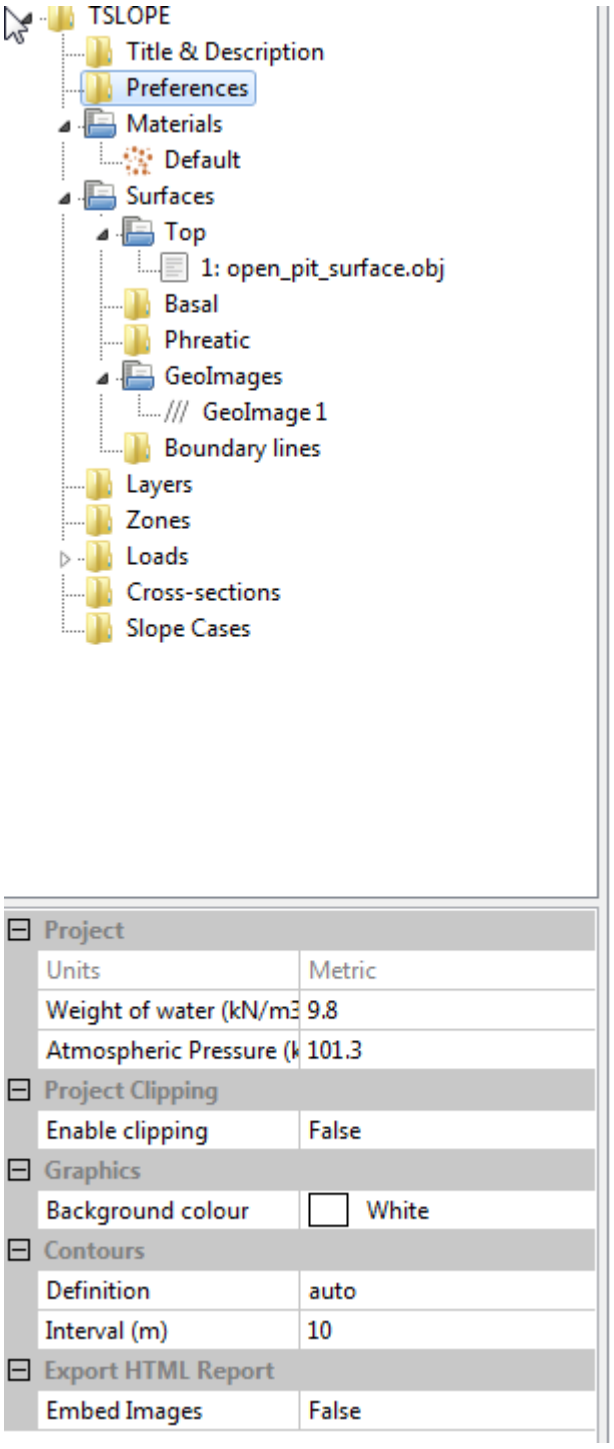
The Surface style – GeoImage selection is None. We then left click on that tab, and the pull down box shows the available images. In this case we select GeoImage1, and the image is now draped on the open pit surface.



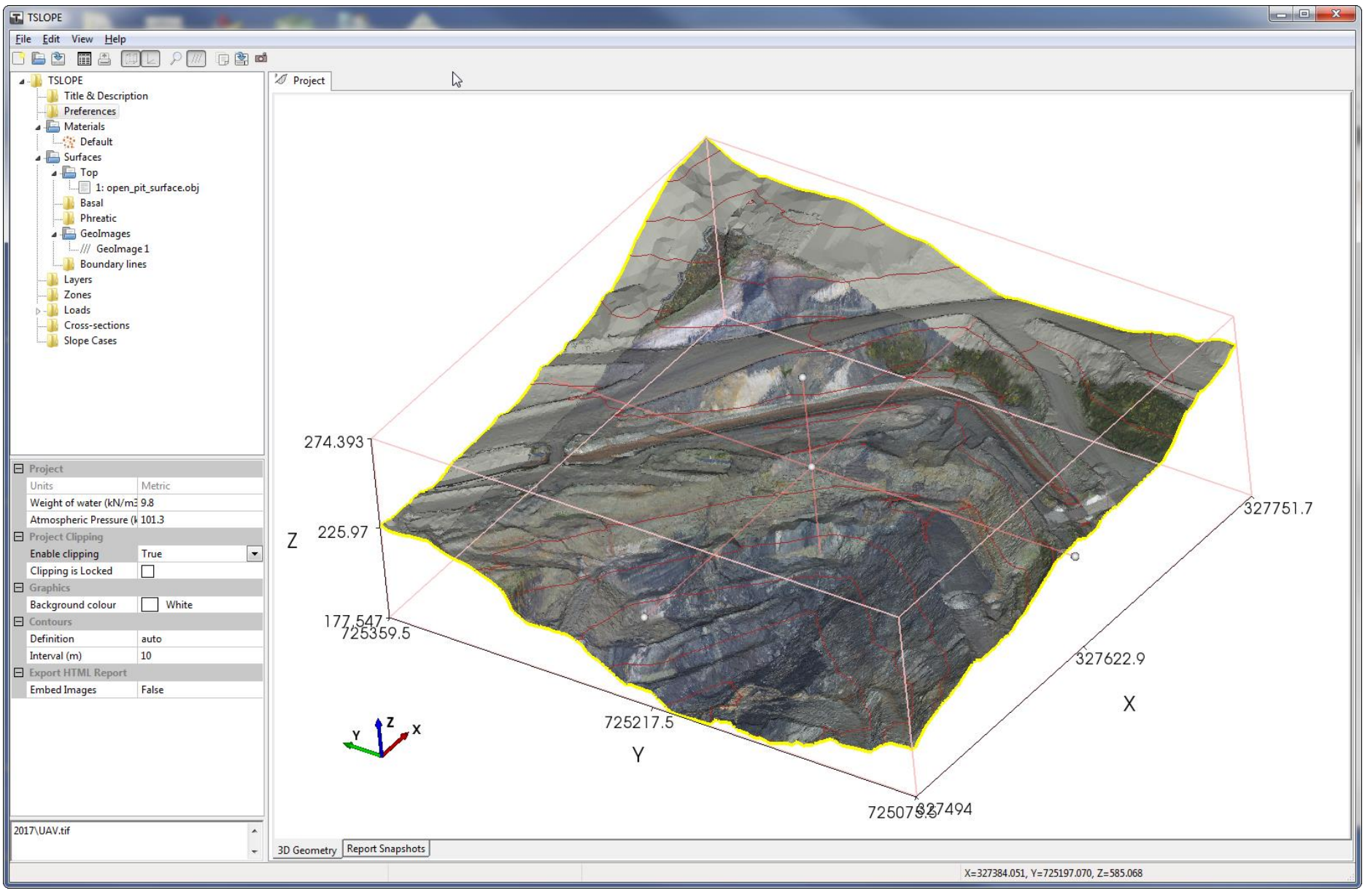
Note that we have increased the Opacity to improve the visual effect of draping the image on the open pit surface.

The image extents are not coincident with the underlying surface. We can adjust the project boundaries so that this is tidied up.

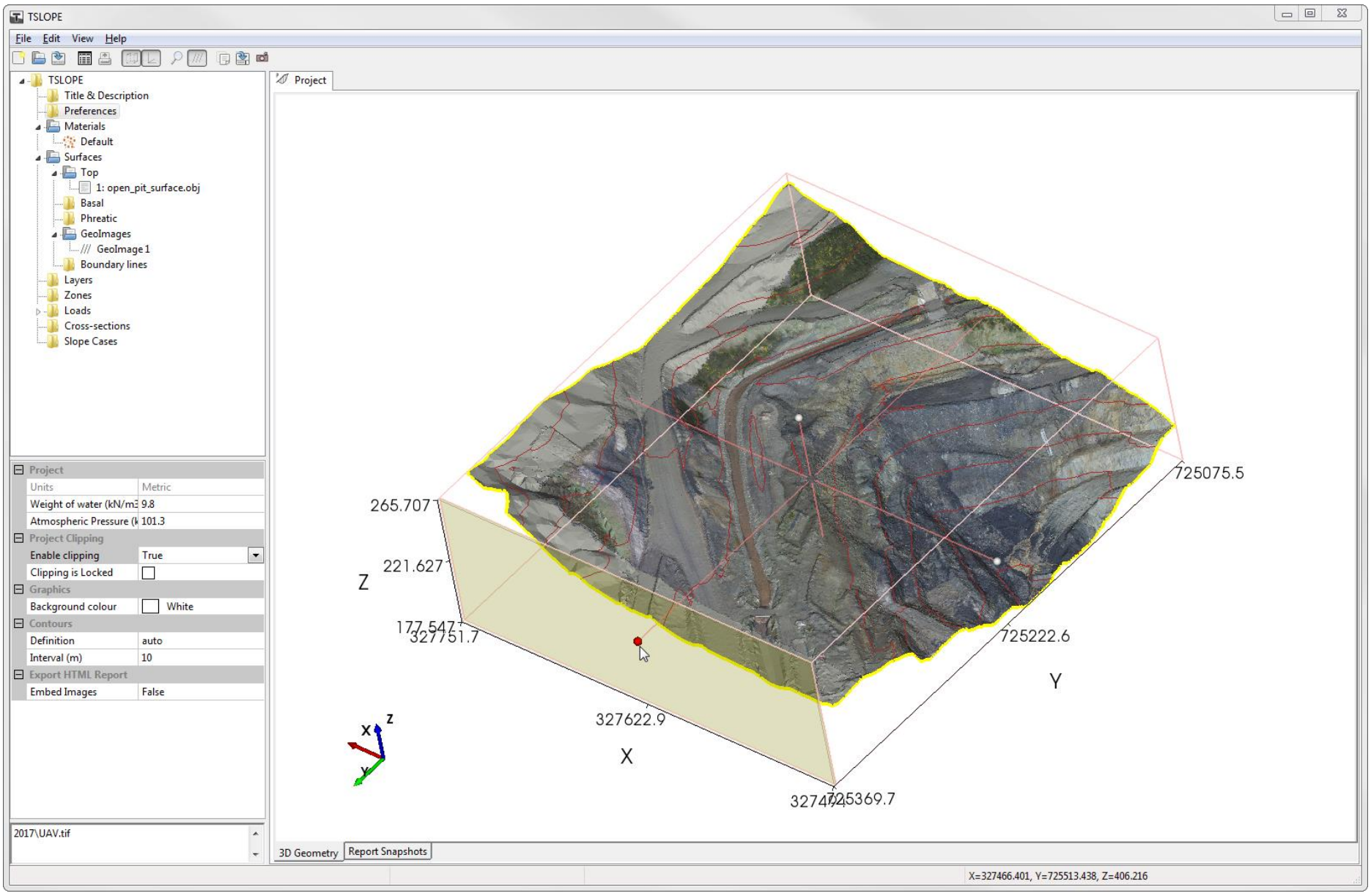
We do that by accessing the Preferences menu.



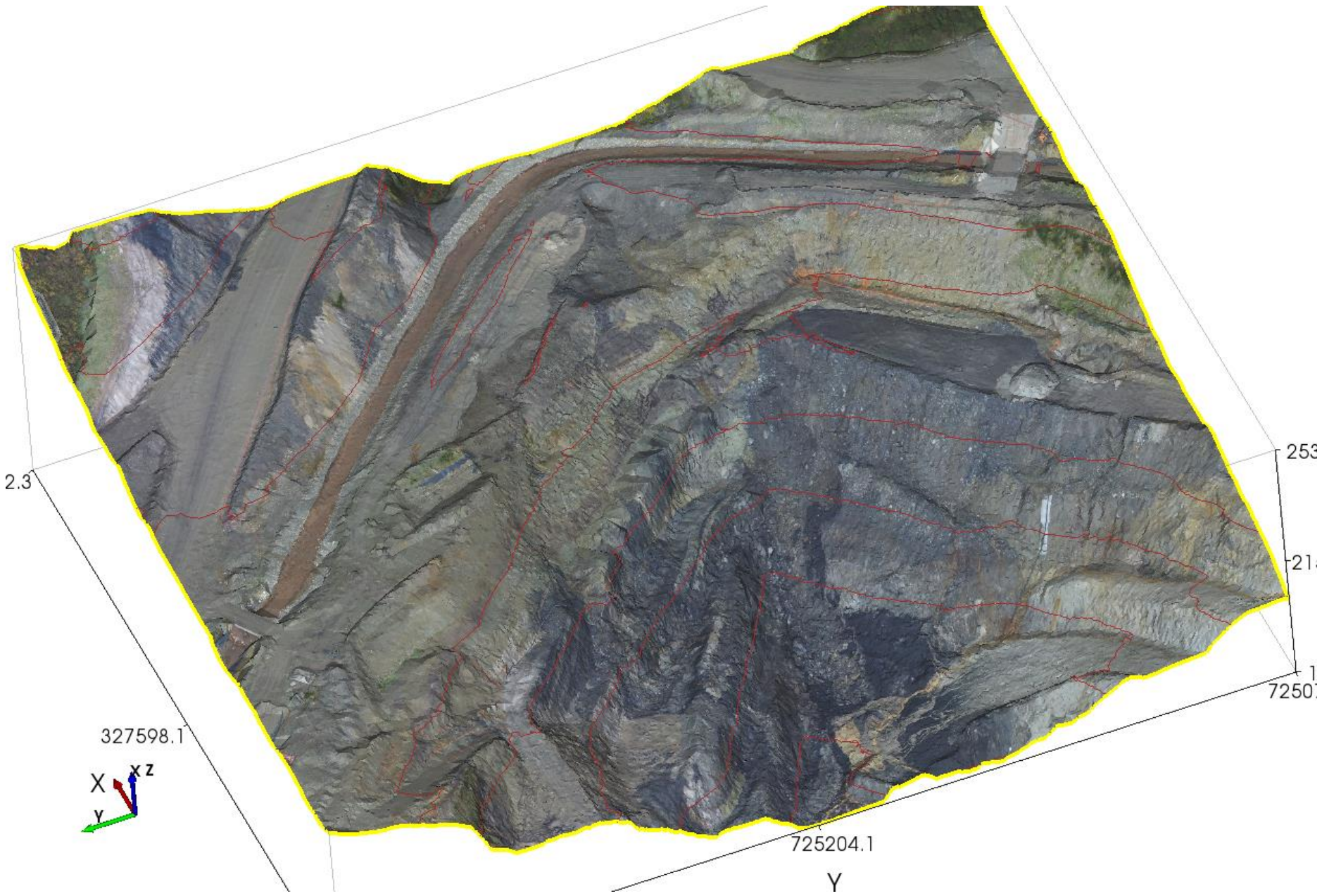
We then change the Enable clipping opting from False, to True



With the left mouse, click on one of the balls on an axis, it will highlight in red. Then slide the ball and the panel to adjust the edge of the model. Repeat on the other sides of the model as required.



When the model is clipped as required, check the Clipping is Locked option, and the settings will be preserved.


2.3
253
21
1
7250
327598.1
X
Z
Y
725204.1
Y