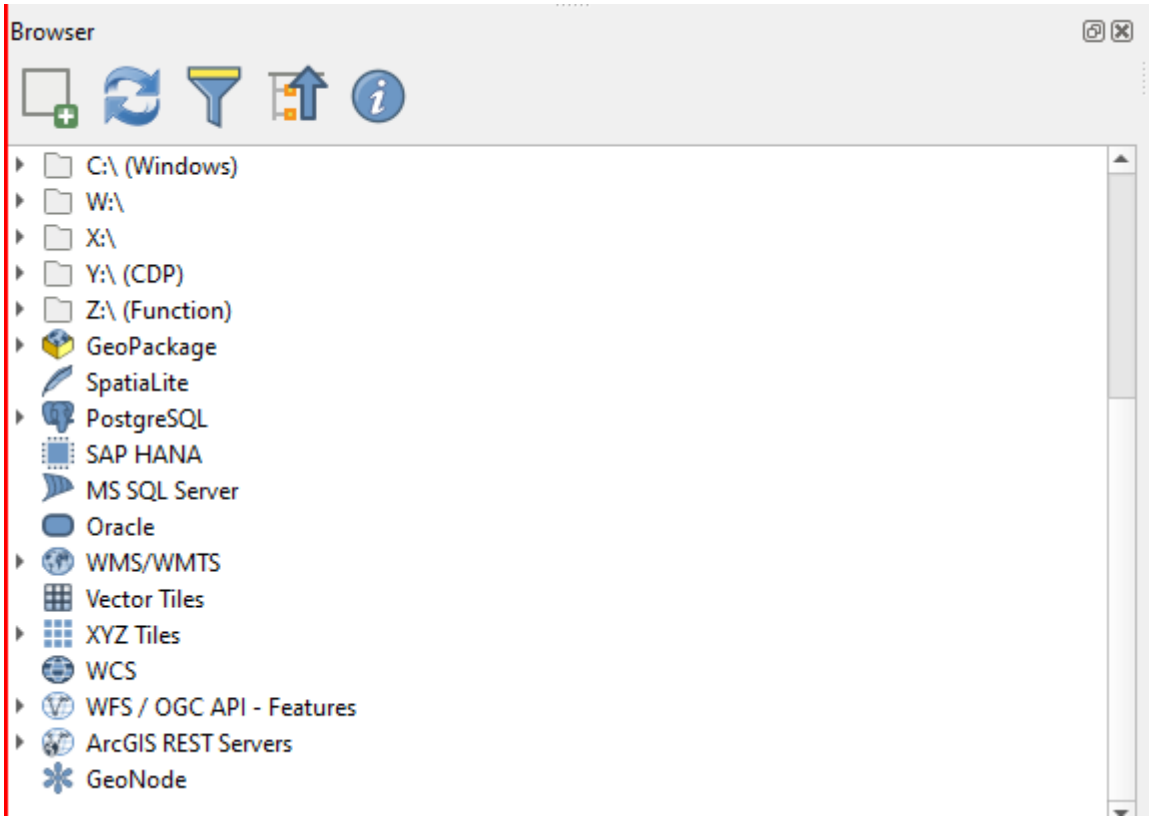
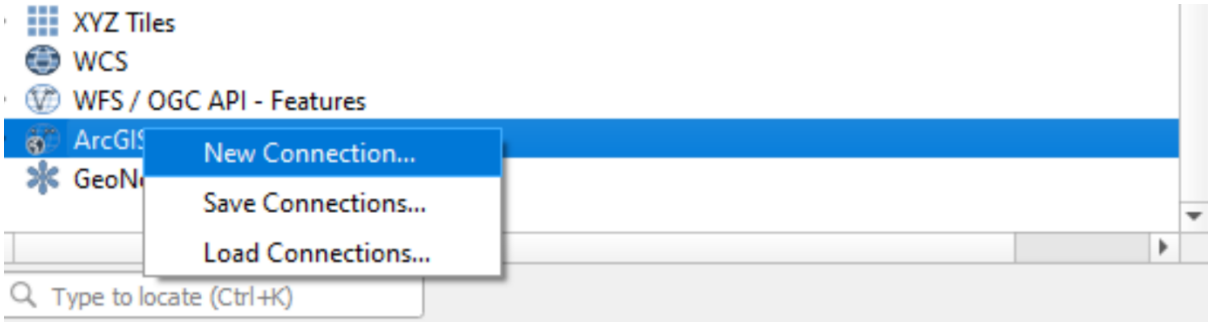
# Using API to download data in QGIS

- Open QGIS and click ‘new empty project’ on the right side of the flash page

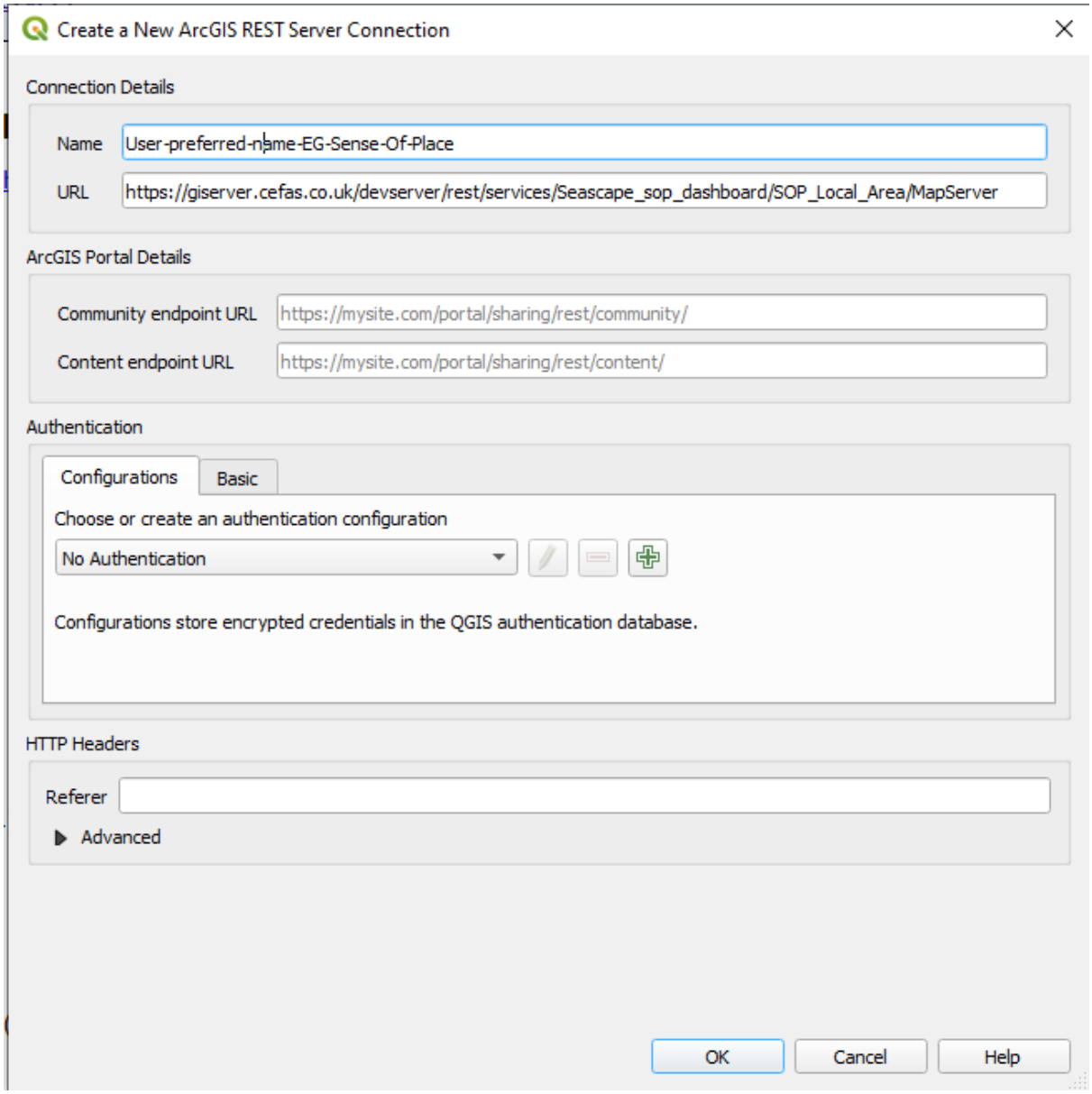



- On left side of screen, scroll down the browser and find ‘ArcGIS REST Servers’

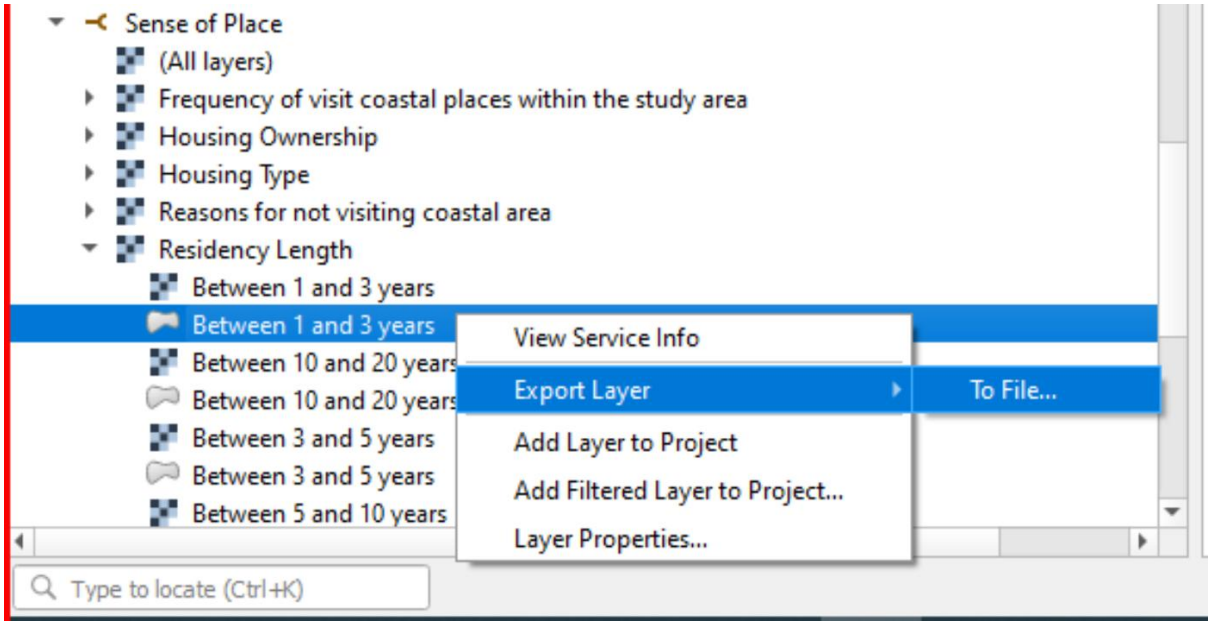



- Right click on ‘ArcGIS REST Servers’ and select ‘New connection…’

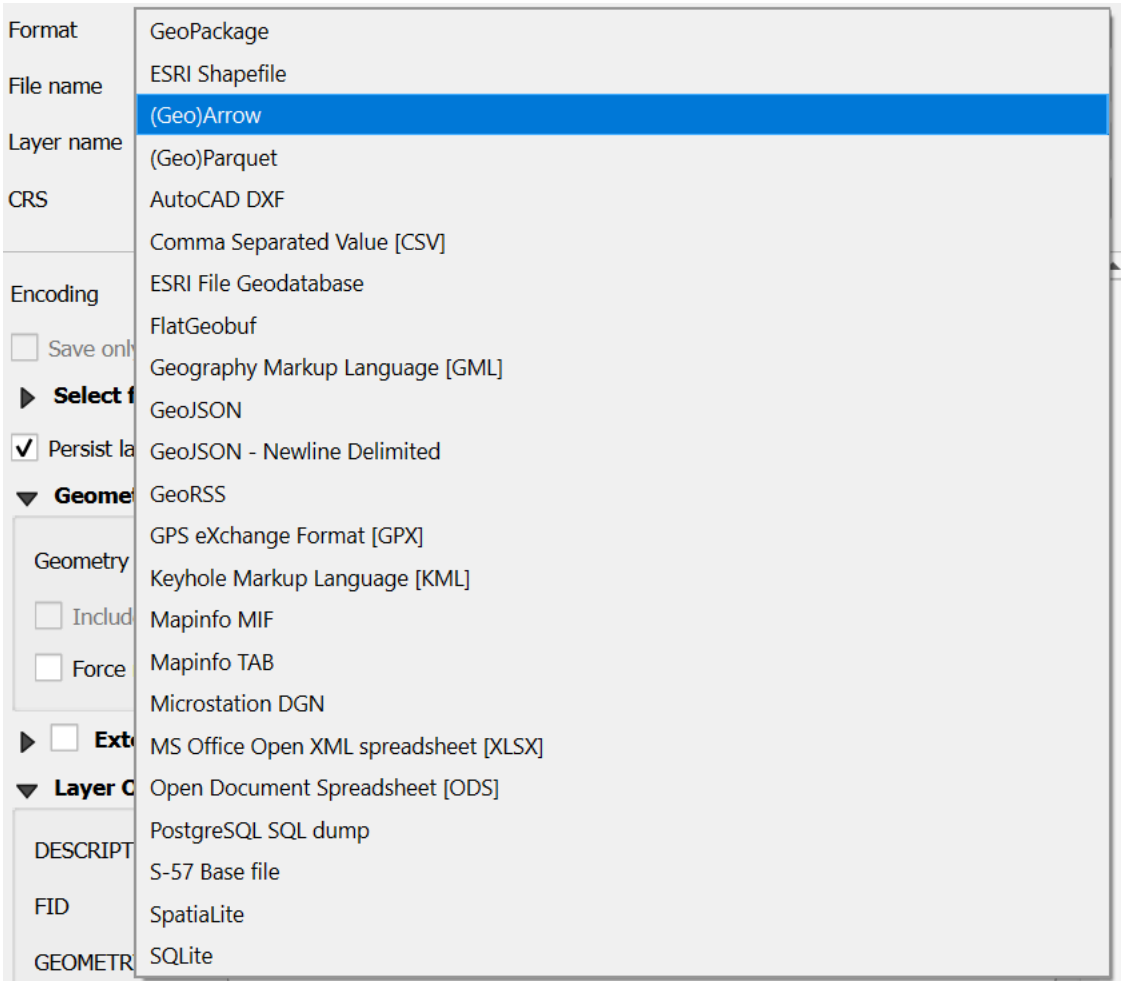
- Paste the API you want to use in the ‘URL’ box and choose a name for it in the ‘Name’ box then left click ‘OK’.



- Expand the dropdown menu under ‘ArcGIS REST Servers’ in the browser menu on the left for the item you have added.
- Expand the layer you are interested in exporting, then left click on the raster layer (grey blob symbol) and left click ‘Export Layer’ then ‘To File…’ bringing up the ‘Save vector layer as’ panel



- A menu will then appear where you can choose the export format for your item




- To export the file to the location of your choice, left click on the '…' symbol to the right of the 'File Name' row. This will then let you manually choose a folder location and file name. Left click 'OK' to confirm name and location

- Left click 'Ok' again to export the file

# Using API to download data in ArcGIS

- You may need to zoom in to pictures while using this guide
- Follow this link which will take you to the ArcGIS REST Services Directory for the data layer of interest (see image below)

**Seascape_sop_dashboard/SOP_Local_Area (MapServer)**

**View In:** ArcGIS JavaScript ArcGIS Online Map Viewer ArcGIS Pro

**Service Description:**

**Map Name:** SOP

Legend

All Layers and Tables

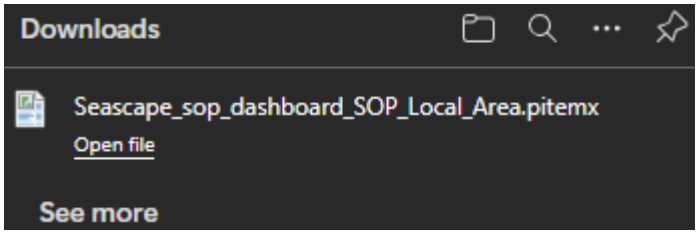
Dynamic Legend

Dynamic All Layers

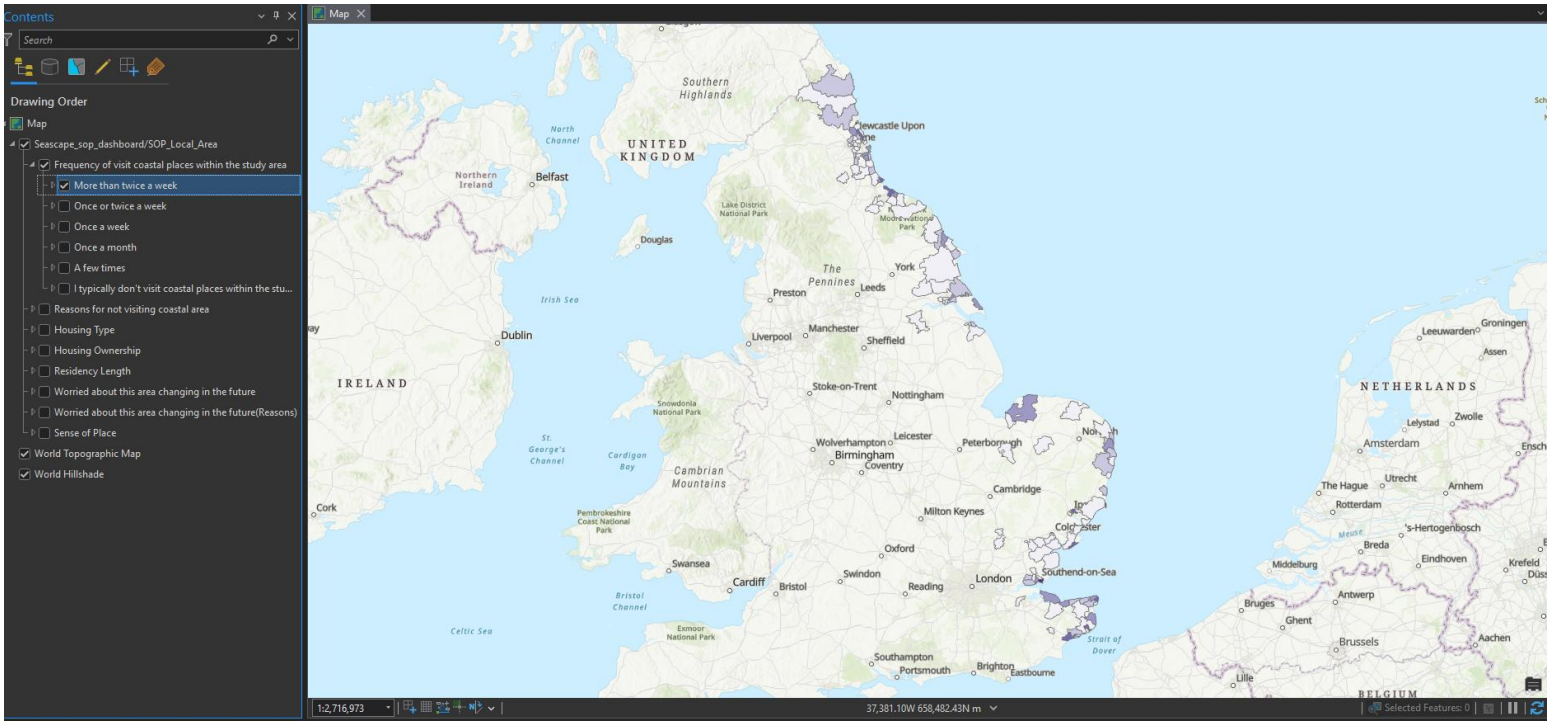
**Layers:**

- Frequency of visit coastal places within the study area (48)
  - More than twice a week (117)
  - Once or twice a week (46)
  - Once a week (47)
  - Once a month (118)
  - A few times (43)
  - I typically don't visit coastal places within the study area (24)
- Reasons for not visiting coastal area (67)
  - Bad / poor weather (115)
  - Cost / too expensive (116)
  - Fear / worry about crime or anti-social behaviour (53)
  - Fear / worry about getting hurt or injured (54)
  - Lack of facilities and access points for those with disabilities (55)
  - No one to go with me (56)
  - No particular reason (57)
  - Other (specify) (58)
  - Poor mental health or well being (59)
  - Poor physical health (or illness) (60)
  - Poorly maintained site (61)
  - Prefer to do other leisure activities (62)
  - Too busy at home (63)
  - Too busy at work (64)
  - Too busy with family commitments (120)
  - Traffic (66)
- Housing Type (70)
  - House or bungalow (114)

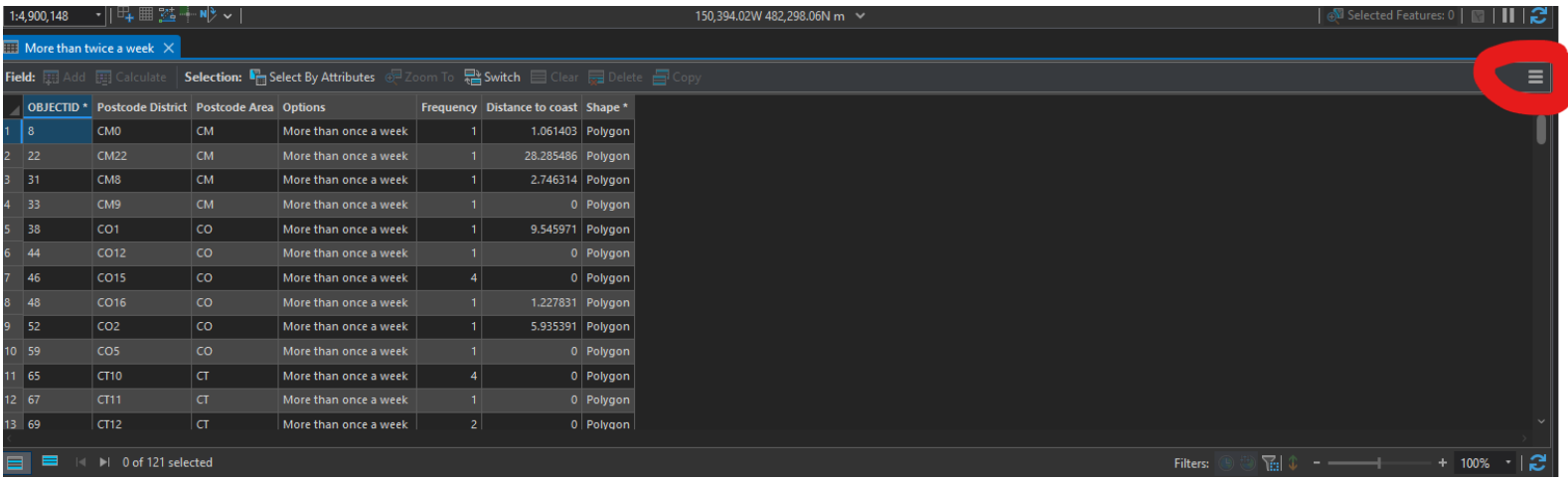
- To the right of “View In:” click on ‘ArcGIS Pro’. This will then download a .pitemx file (see image below). Click ‘Open’ and it will load the layers from the API into ArcGIS Pro.



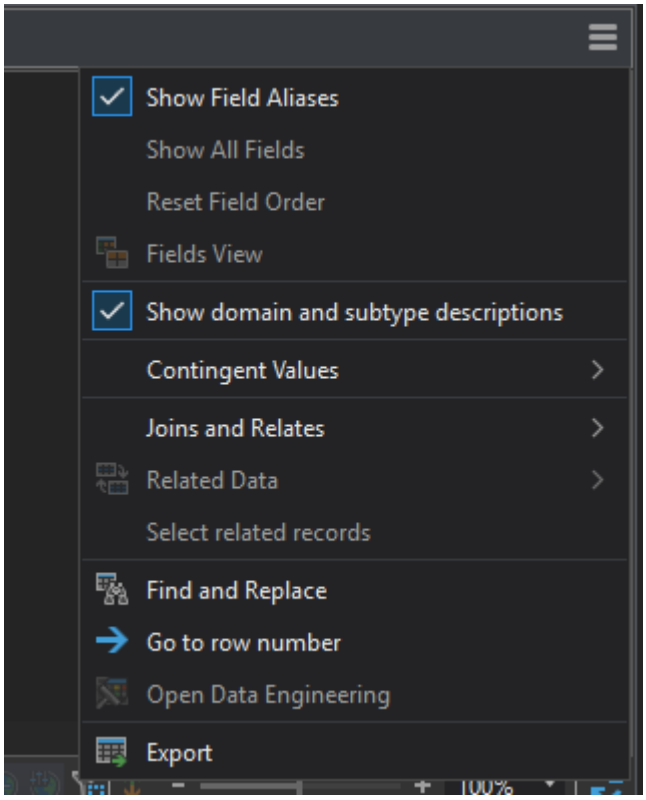

- ArcGIS Pro will say it is ‘Adding data’, when complete you will see the ‘Seascape_sop_dashboard/SOP_Local_area’ layer.
- Expand the layer to see all the contents. Activate the sublayer of interest by clicking the empty box to the left of it, ensuring all levels above in the tree are also turned on. This will make the layer appear on the map.



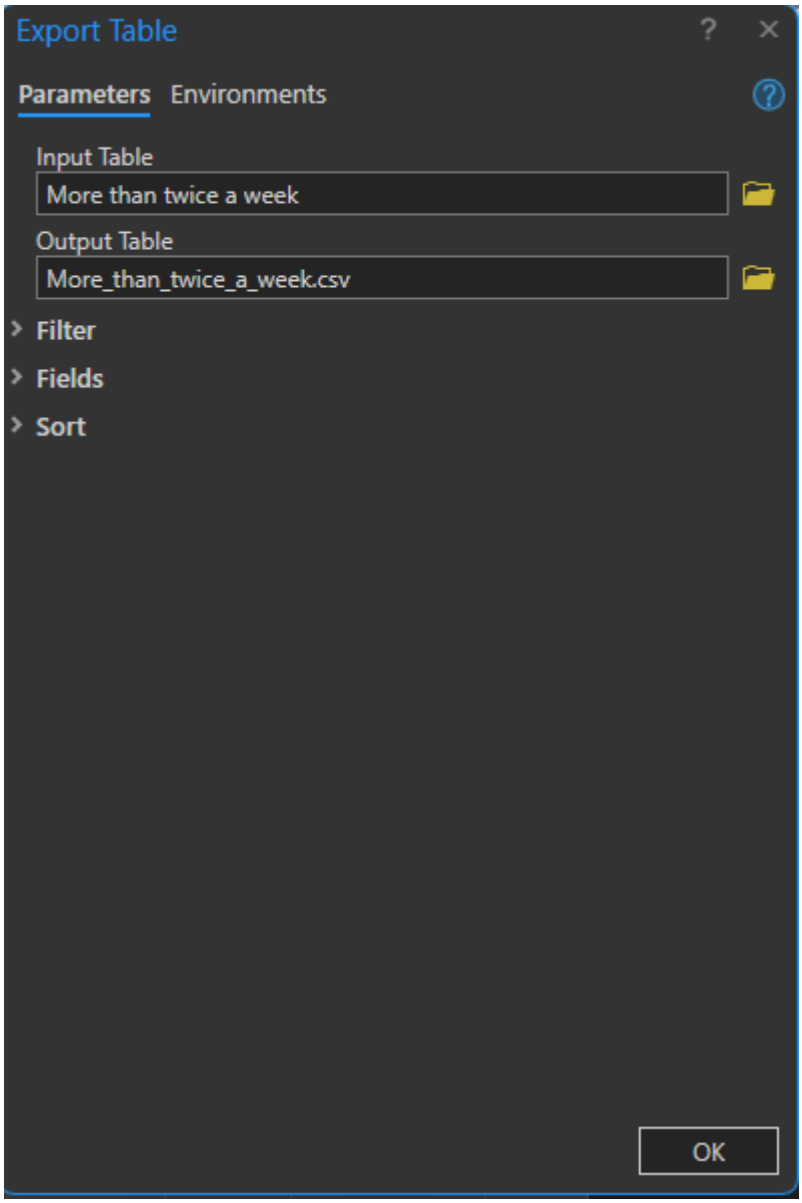

- Only one sublayer can be exported at a time
- Once you’ve selected the layer of interest, right click on it and select 'Attribute Table' which will appear at the bottom of the screen. Once this is loaded, click the “Burger” icon on the right (see image below)




- Once you click on the “Burger” icon it will show a drop-down menu, select ‘Export’ at the bottom of the menu (see below image)




- Upon clicking export you will be asked for the ‘Input Table’ that you wish to export, and the ‘Output table’ which is the file you wish to create. Select the folder icon to the right of ‘Output table’ to choose a folder location and file name for your export
- Put the file extension you want at the end of the name e.g. ‘.csv’
- Click ‘save’ and then click ‘OK’ on the export table menu (see image below)




- The data will be exported to your area of choice. Open the file in your chosen software