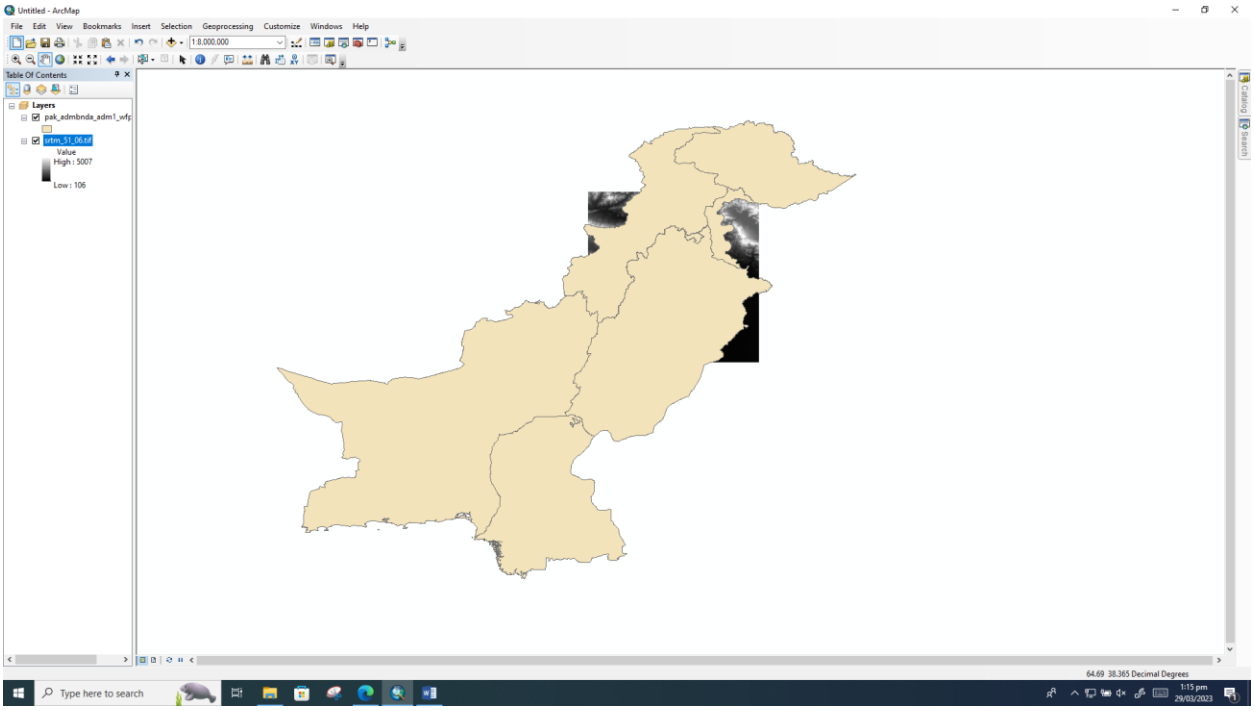
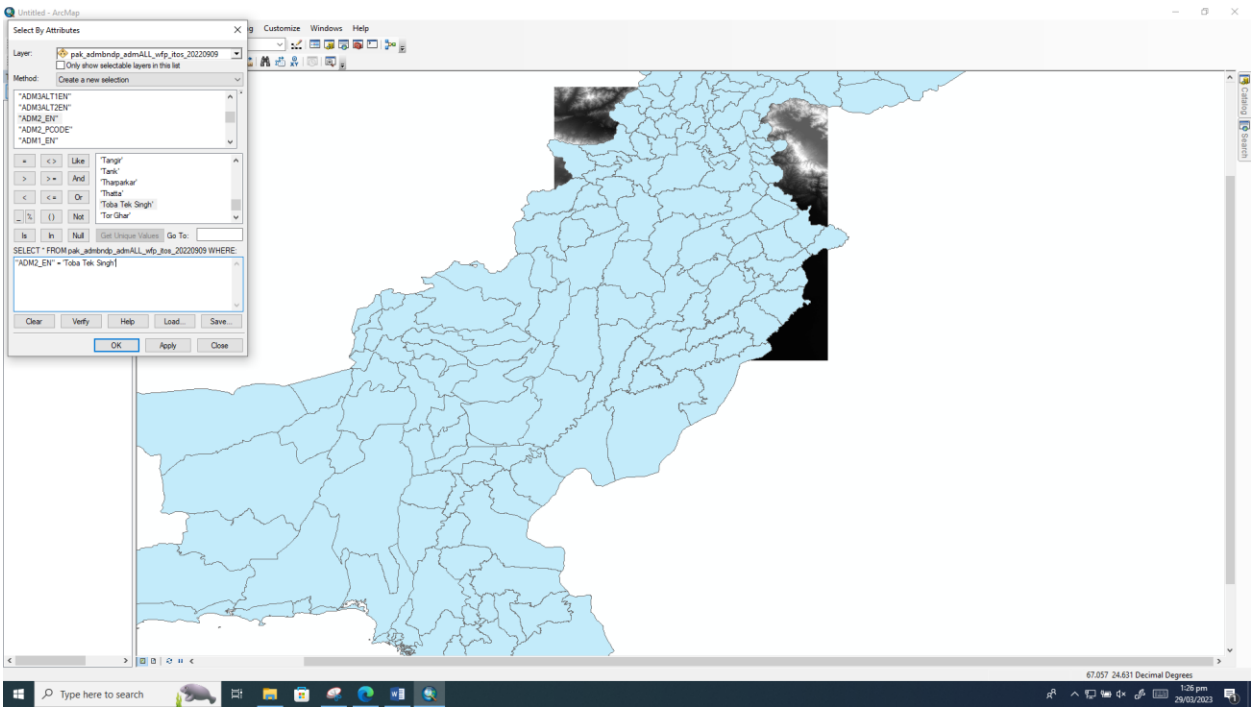
Step 1:

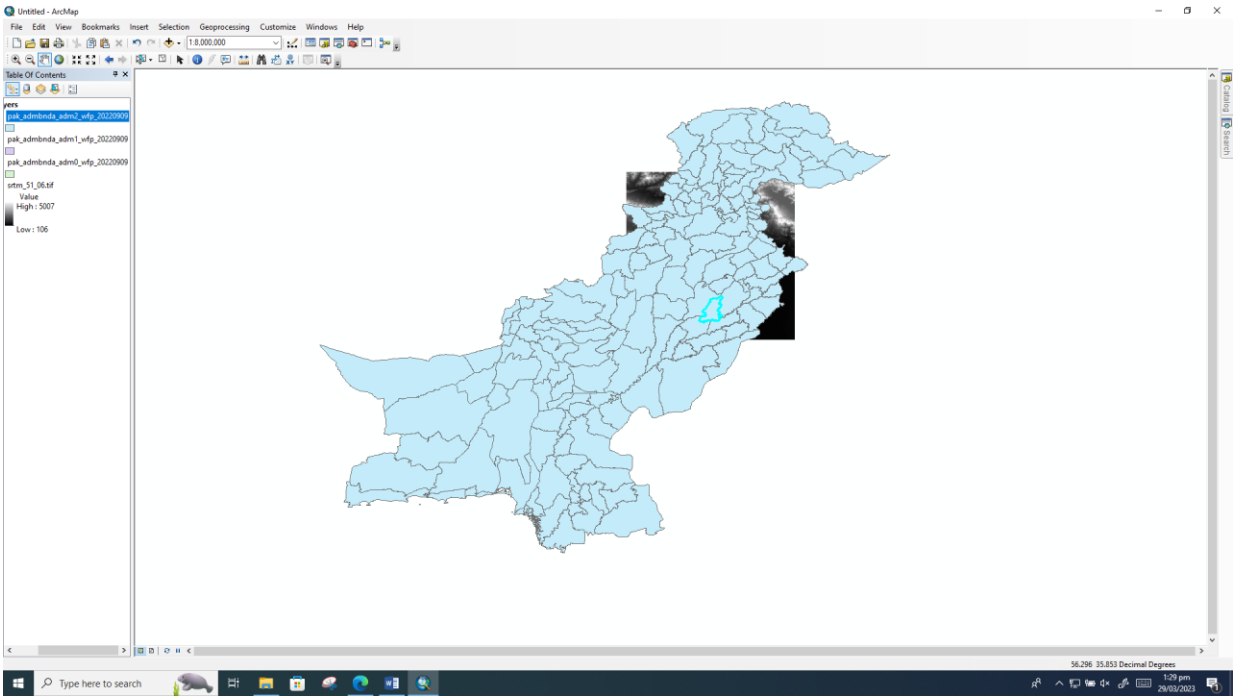
Importin both SRTM and Pakistan shape file:



Step 2:

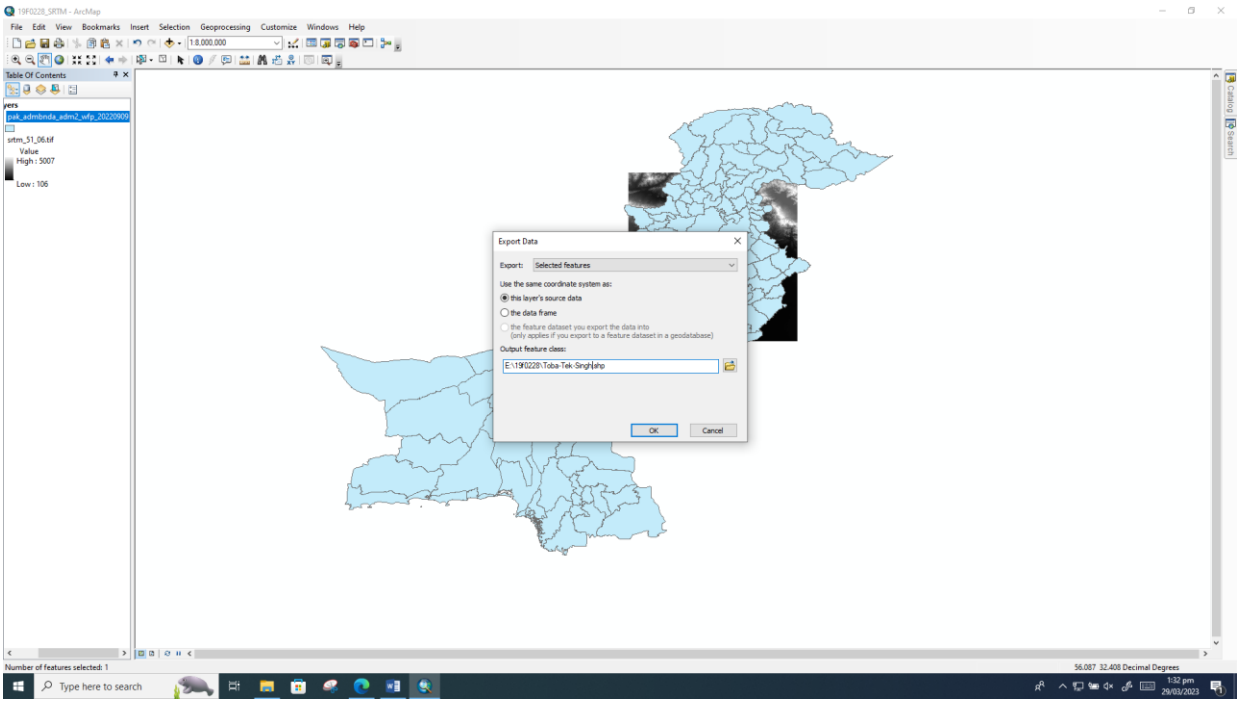
Select City from Attributes

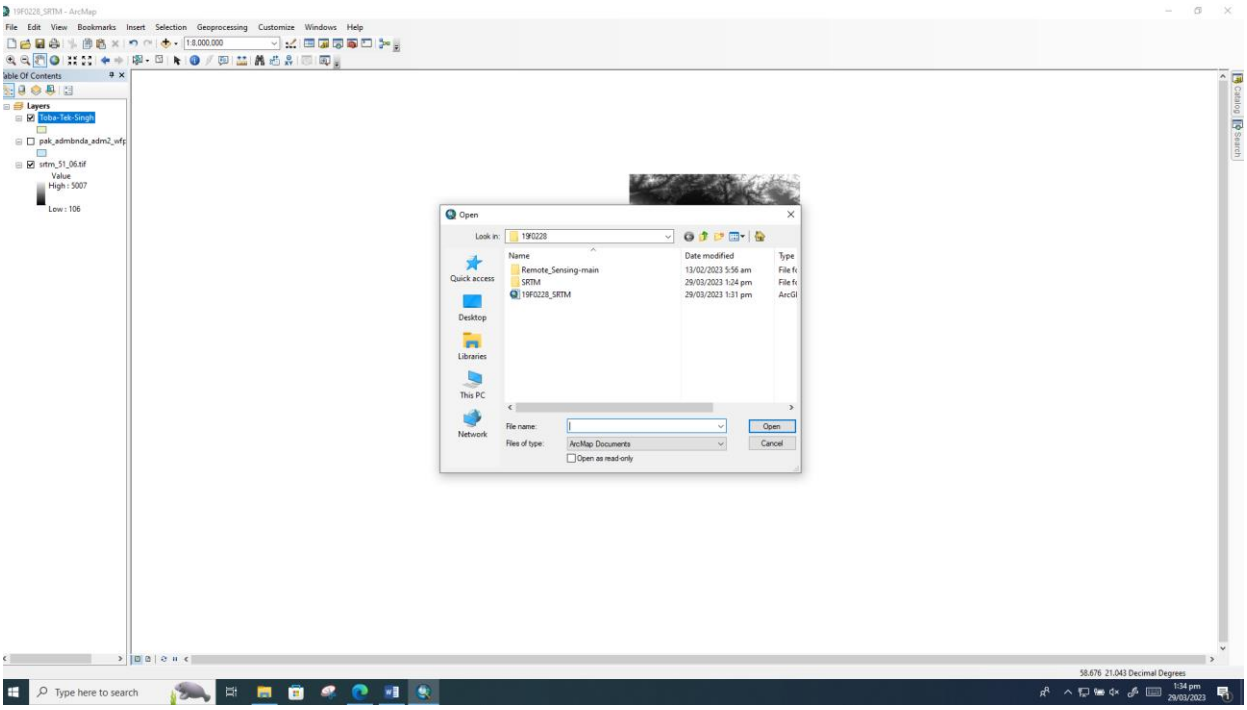




Step 3:

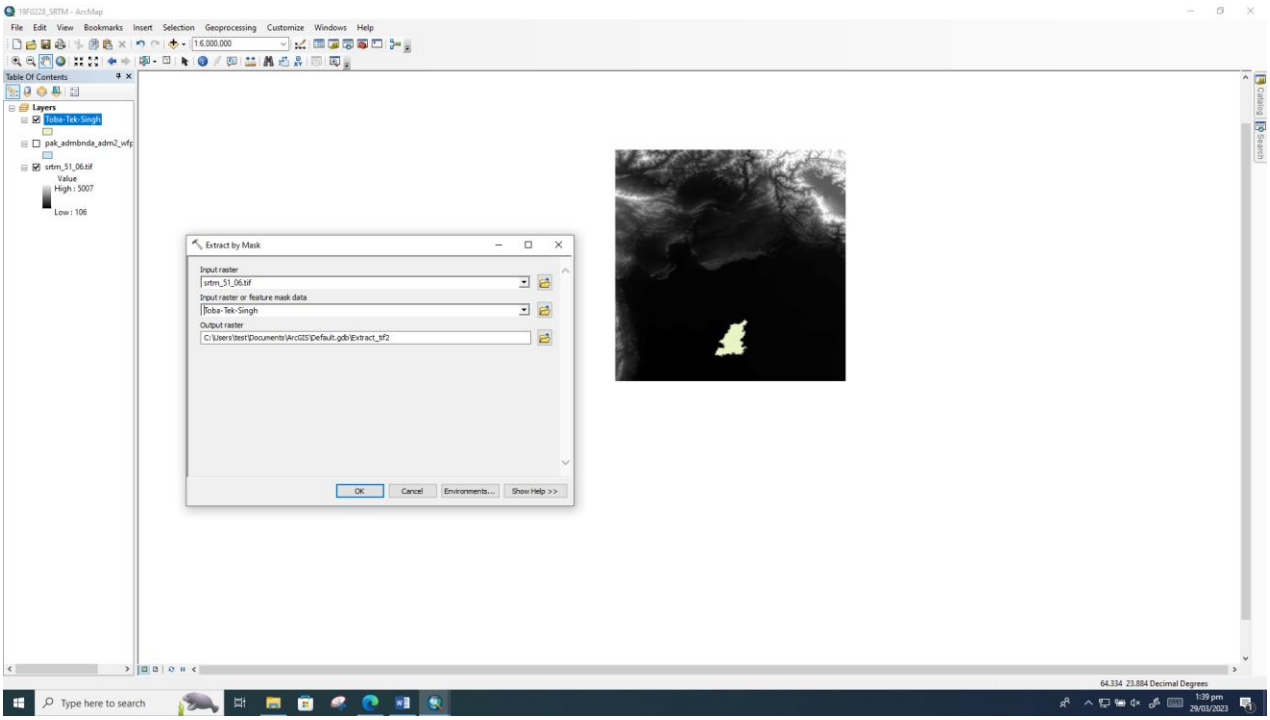
Exporting Shape file of Toba Tek Singh

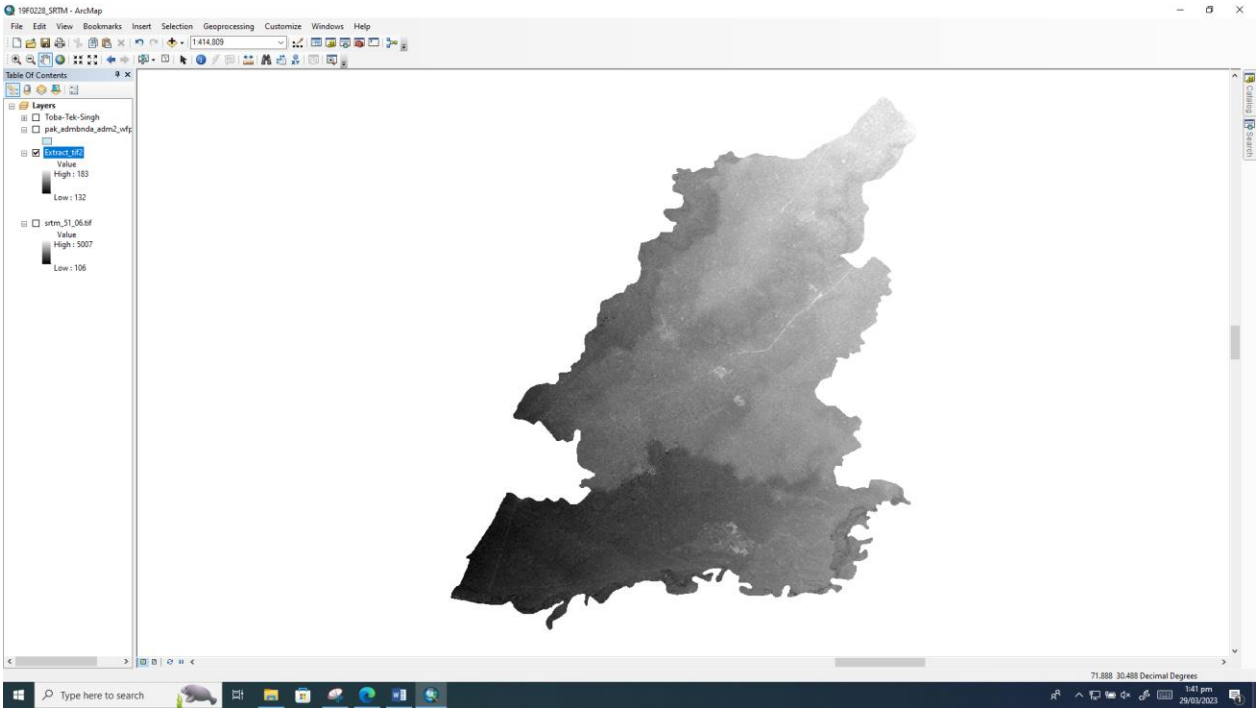




Step 4:

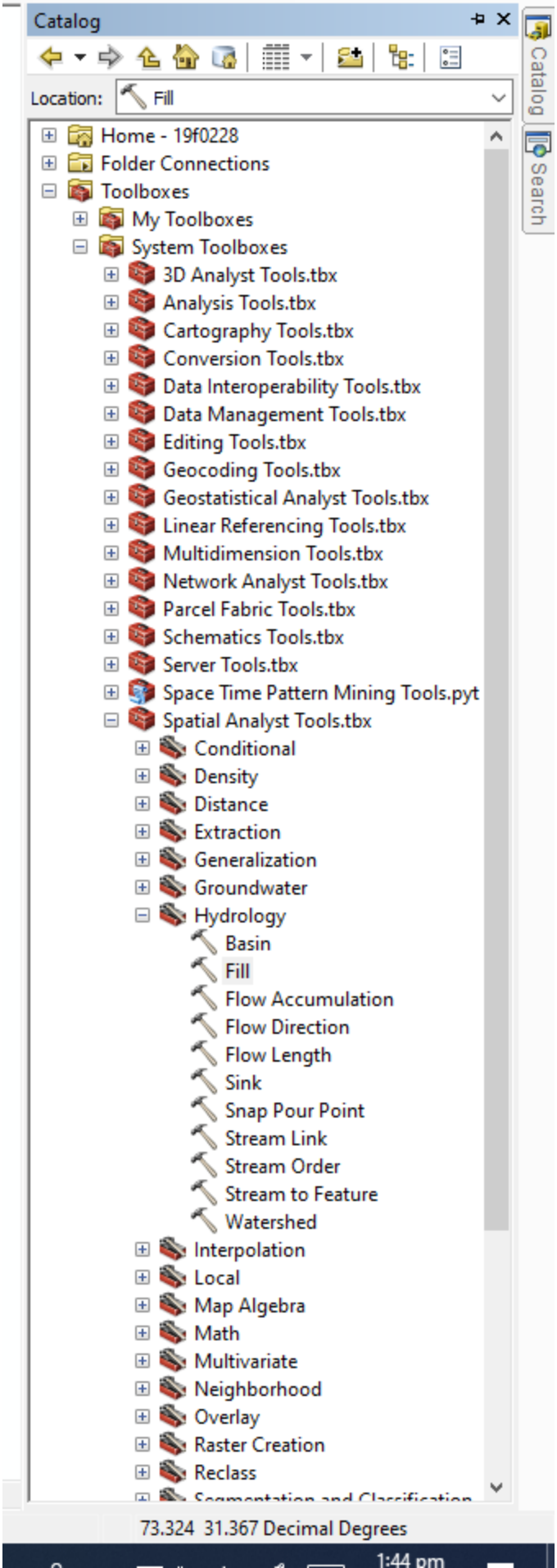
Search Extract by mask

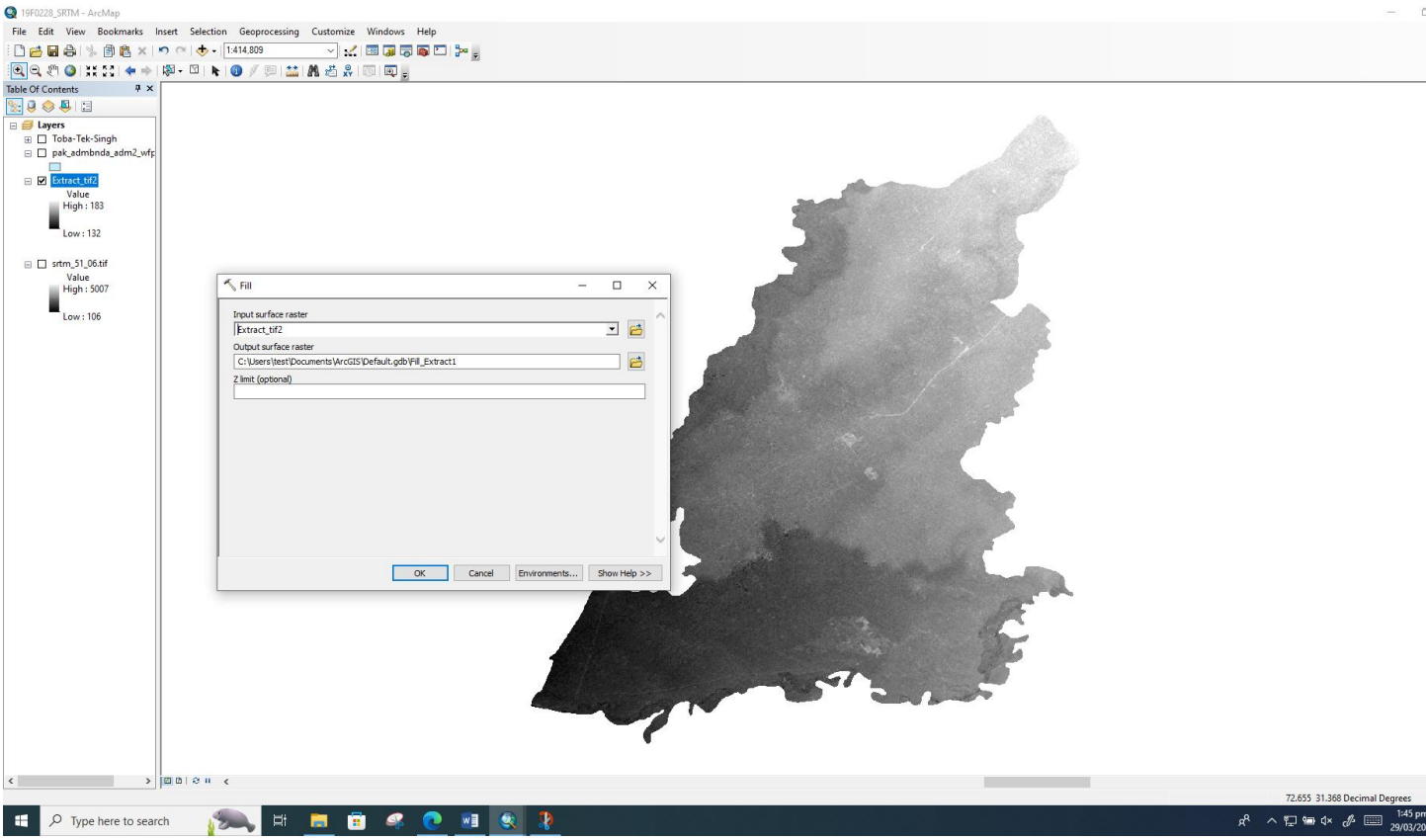




Step 5:

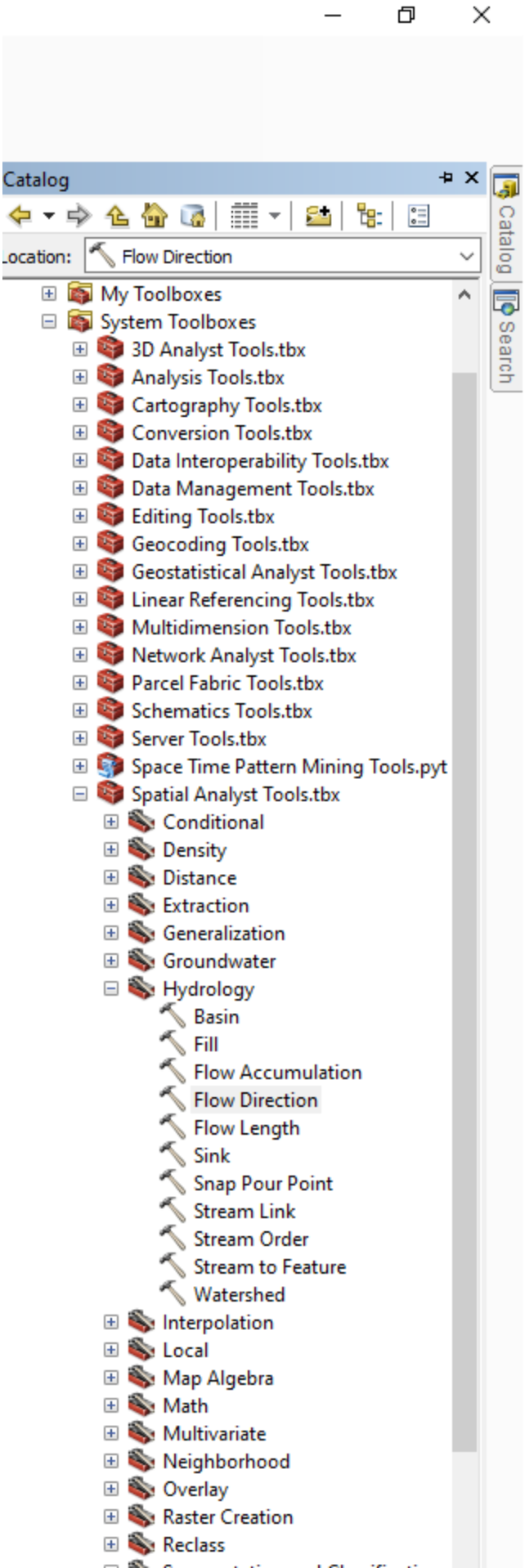
Catalog->ToolBox->SystemToolBoxes-> Spatial Analyist Toolbox -> Hydrology -> Fill

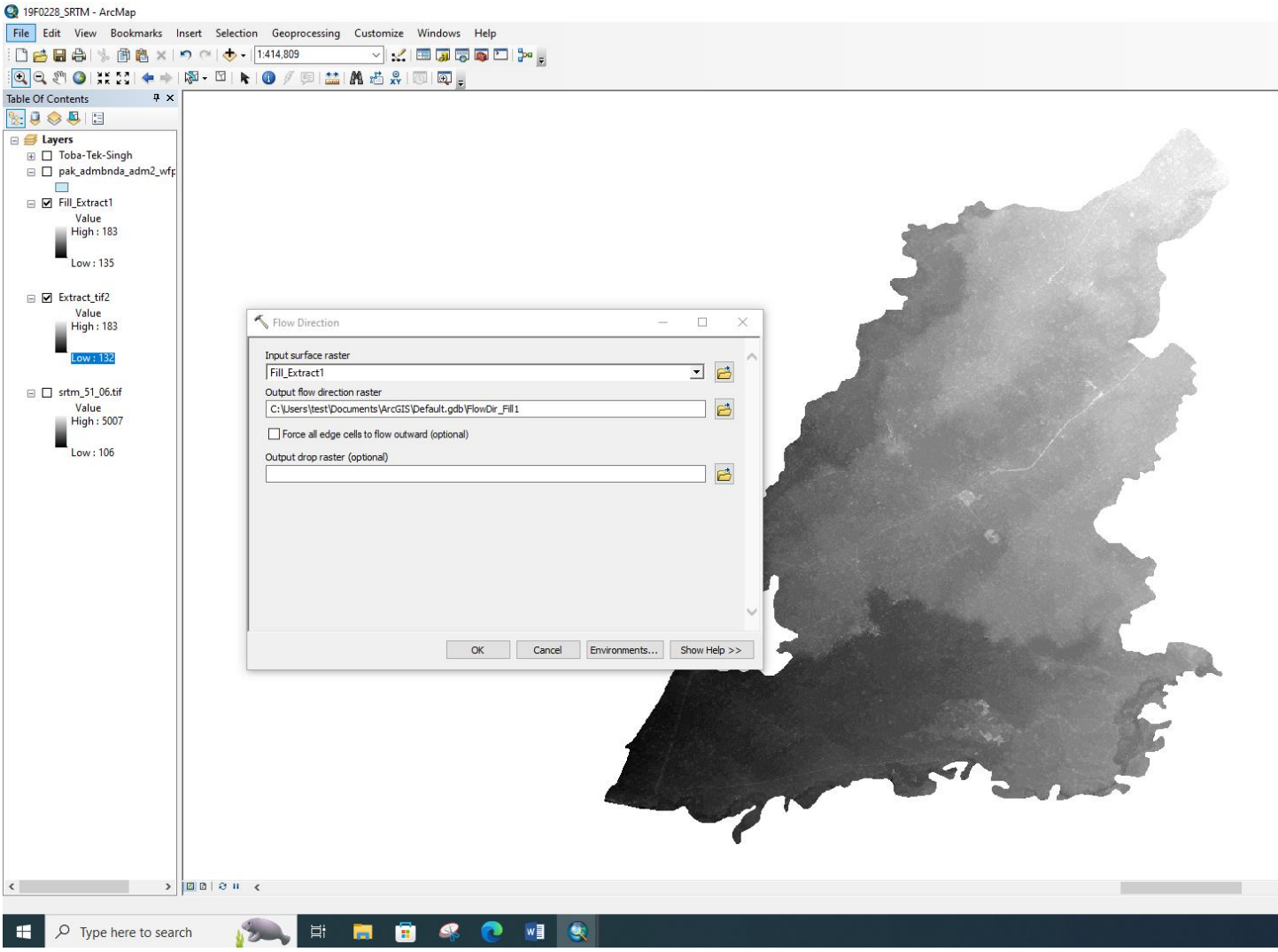

Catalog
Location: Fill
Home - 19f0228
Folder Connections
Toolboxes
My Toolboxes
System Toolboxes
3D Analyst Tools.tbx
Analysis Tools.tbx
Cartography Tools.tbx
Conversion Tools.tbx
Data Interoperability Tools.tbx
Data Management Tools.tbx
Editing Tools.tbx
Geocoding Tools.tbx
Geostatistical Analyst Tools.tbx
Linear Referencing Tools.tbx
Multidimension Tools.tbx
Network Analyst Tools.tbx
Parcel Fabric Tools.tbx
Schematics Tools.tbx
Server Tools.tbx
Space Time Pattern Mining Tools.pyt
Spatial Analyst Tools.tbx
Conditional
Density
Distance
Extraction
Generalization
Groundwater
Hydrology
Basin
Fill
Flow Accumulation
Flow Direction
Flow Length
Sink
Snap Pour Point
Stream Link
Stream Order
Stream to Feature
Watershed
Interpolation
Local
Map Algebra
Math
Multivariate
Neighborhood
Overlay
Raster Creation
Reclass
Catalog
Search
73.324 31.367 Decimal Degrees
1:44 pm

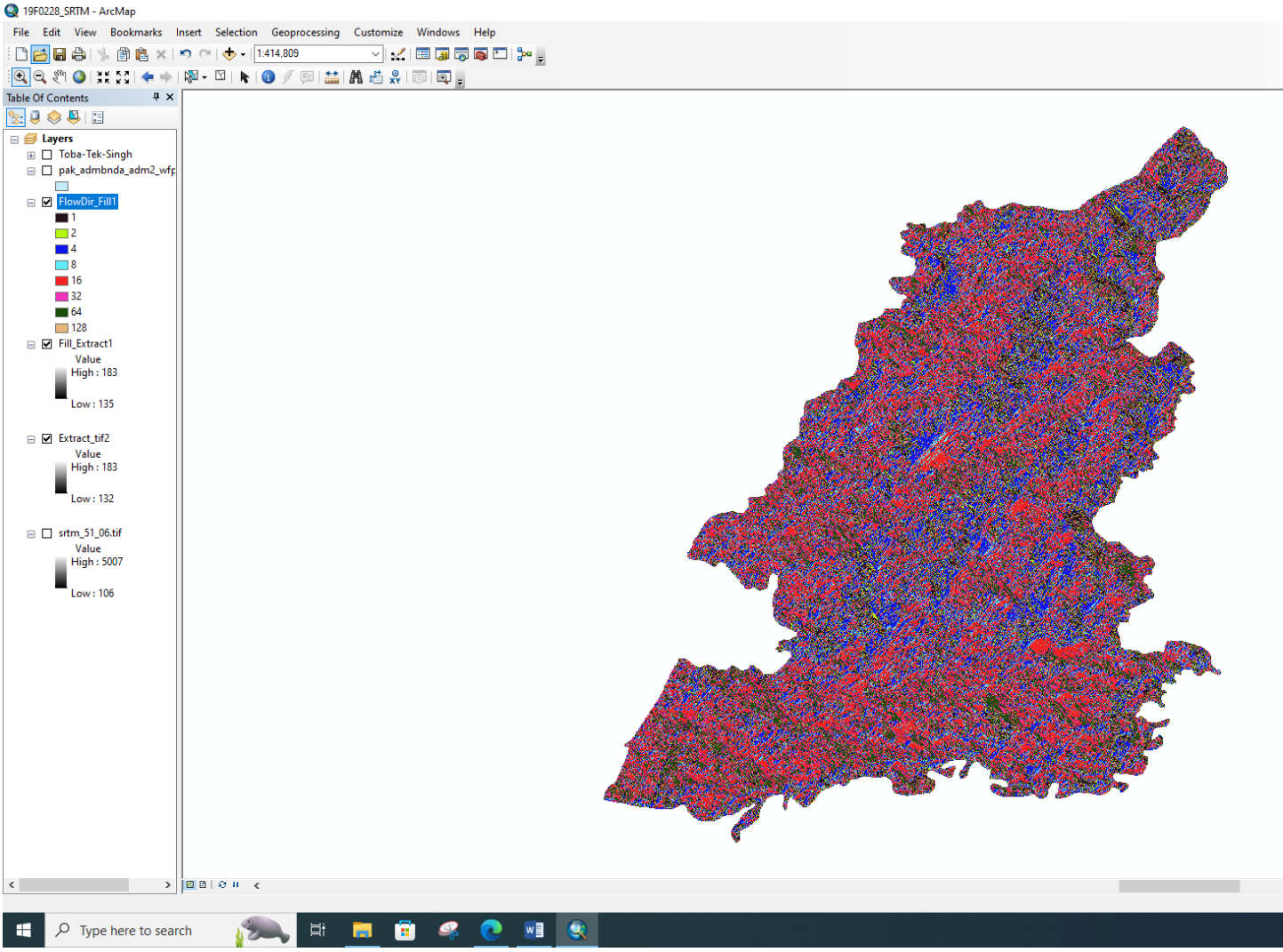

19F0228_SRTM - ArcMap
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:414,809
Table Of Contents
Layers
Toba-Tek-Singh
pak_admbnda_adm2_wfp
Extract_tif2
Value
High : 183
Low : 132
srtm_51_06.tif
Value
High : 5007
Low : 106
Fill
Input surface raster
Extract_tif2
Output surface raster
C:\Users\test\Documents\ArcGIS\Default.gdb\Fill_Extract1
Z limit (optional)
OK
Cancel
Environments...
Show Help >>
72.655 31.368 Decimal Degrees
Type here to search
1:45 pm
29/03/20

Step 6:

Catalog->ToolBox->SystemToolBoxes-> Spatial Analyist Toolbox -> Hydrology→ FLOW DIRECTION

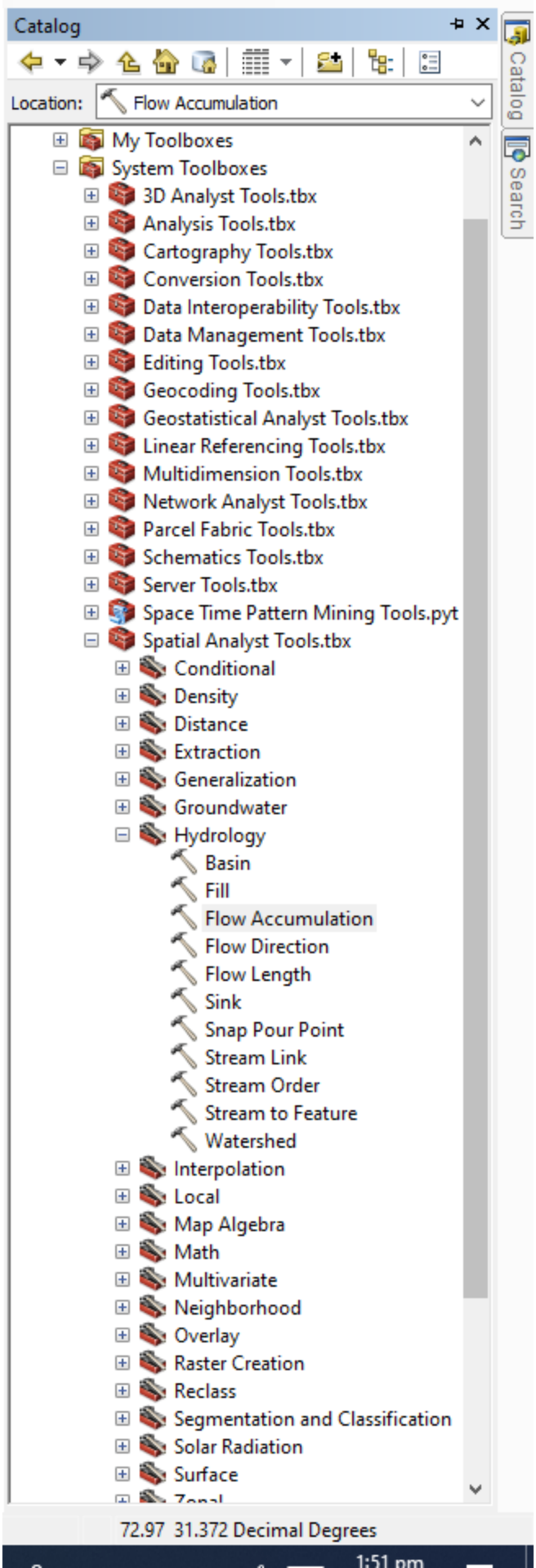

Catalog
Location:
Flow Direction
Catalog
Search
My Toolboxes
System Toolboxes
3D Analyst Tools.tbx
Analysis Tools.tbx
Cartography Tools.tbx
Conversion Tools.tbx
Data Interoperability Tools.tbx
Data Management Tools.tbx
Editing Tools.tbx
Geocoding Tools.tbx
Geostatistical Analyst Tools.tbx
Linear Referencing Tools.tbx
Multidimension Tools.tbx
Network Analyst Tools.tbx
Parcel Fabric Tools.tbx
Schematics Tools.tbx
Server Tools.tbx
Space Time Pattern Mining Tools.pyt
Spatial Analyst Tools.tbx
Conditional
Density
Distance
Extraction
Generalization
Groundwater
Hydrology
Basin
Fill
Flow Accumulation
Flow Direction
Flow Length
Sink
Snap Pour Point
Stream Link
Stream Order
Stream to Feature
Watershed
Interpolation
Local
Map Algebra
Math
Multivariate
Neighborhood
Overlay
Raster Creation
Reclass

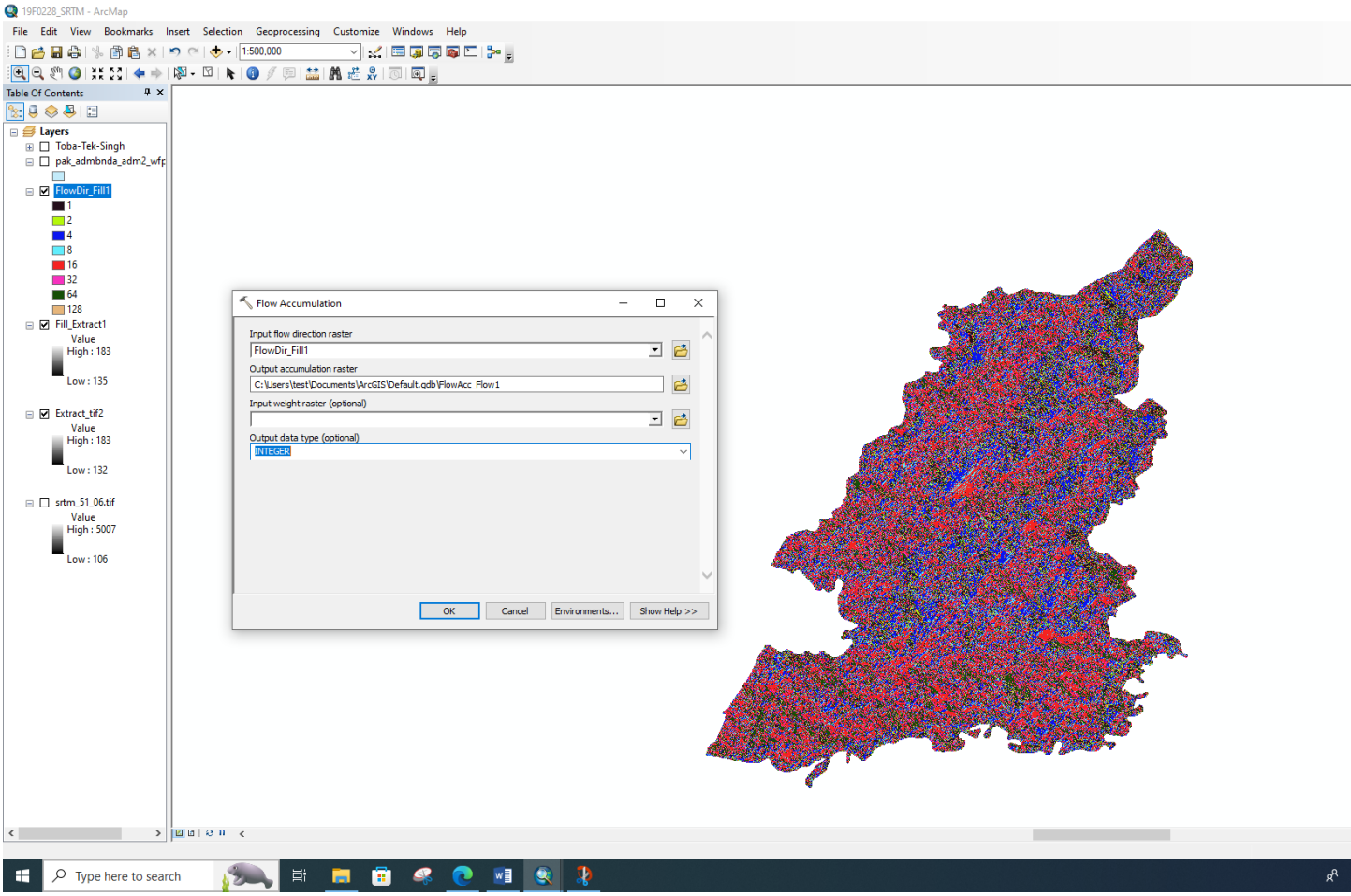

19F0228_SRTM - ArcMap
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:414,809
Table Of Contents
Layers
Toba-Tek-Singh
pak_admbnda_adm2_wfp
Fill_Extract1
Value
High : 183
Low : 135
Extract_tif2
Value
High : 183
Low : 132
srtm_51_06.tif
Value
High : 5007
Low : 106
Flow Direction
Input surface raster
Fill_Extract1
Output flow direction raster
C:\Users\test\Documents\ArcGIS\Default.gdb\FlowDir_Fill1
Force all edge cells to flow outward (optional)
Output drop raster (optional)
OK
Cancel
Environments...
Show Help >>
Type here to search



Step 7:

Catalog->ToolBox->SystemToolBoxes-> Spatial Analyist Toolbox -> Hydrology→ FLOW Accumulation


Catalog
Location:
Flow Accumulation
My Toolboxes
System Toolboxes
3D Analyst Tools.tbx
Analysis Tools.tbx
Cartography Tools.tbx
Conversion Tools.tbx
Data Interoperability Tools.tbx
Data Management Tools.tbx
Editing Tools.tbx
Geocoding Tools.tbx
Geostatistical Analyst Tools.tbx
Linear Referencing Tools.tbx
Multidimension Tools.tbx
Network Analyst Tools.tbx
Parcel Fabric Tools.tbx
Schematics Tools.tbx
Server Tools.tbx
Space Time Pattern Mining Tools.pyt
Spatial Analyst Tools.tbx
Conditional
Density
Distance
Extraction
Generalization
Groundwater
Hydrology
Basin
Fill
Flow Accumulation
Flow Direction
Flow Length
Sink
Snap Pour Point
Stream Link
Stream Order
Stream to Feature
Watershed
Interpolation
Local
Map Algebra
Math
Multivariate
Neighborhood
Overlay
Raster Creation
Reclass
Segmentation and Classification
Solar Radiation
Surface
Zonal
Catalog
Search
72.97 31.372 Decimal Degrees
1:51 pm


19F0228_SRTM - ArcMap
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
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Layers
Toba-Tek-Singh
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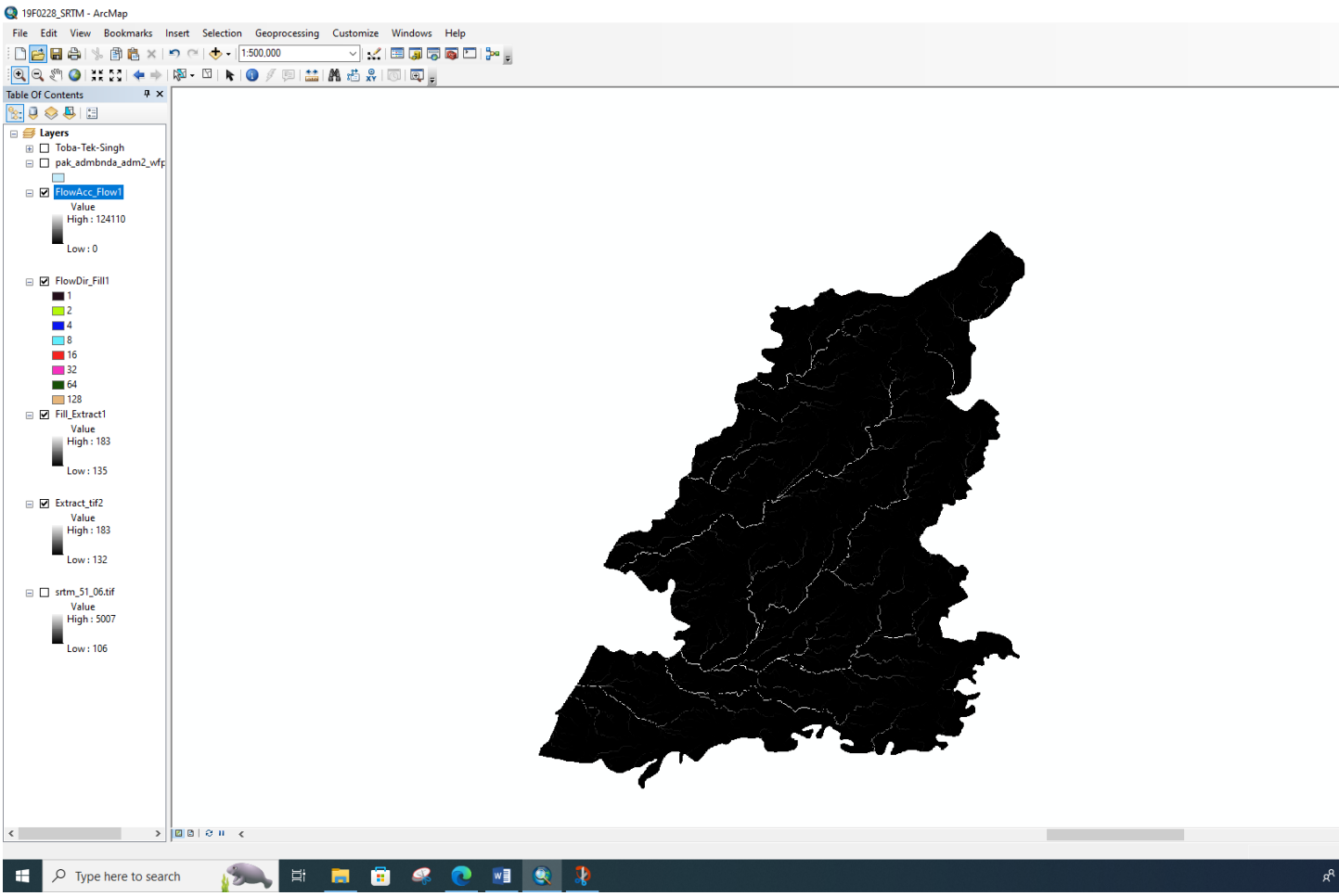
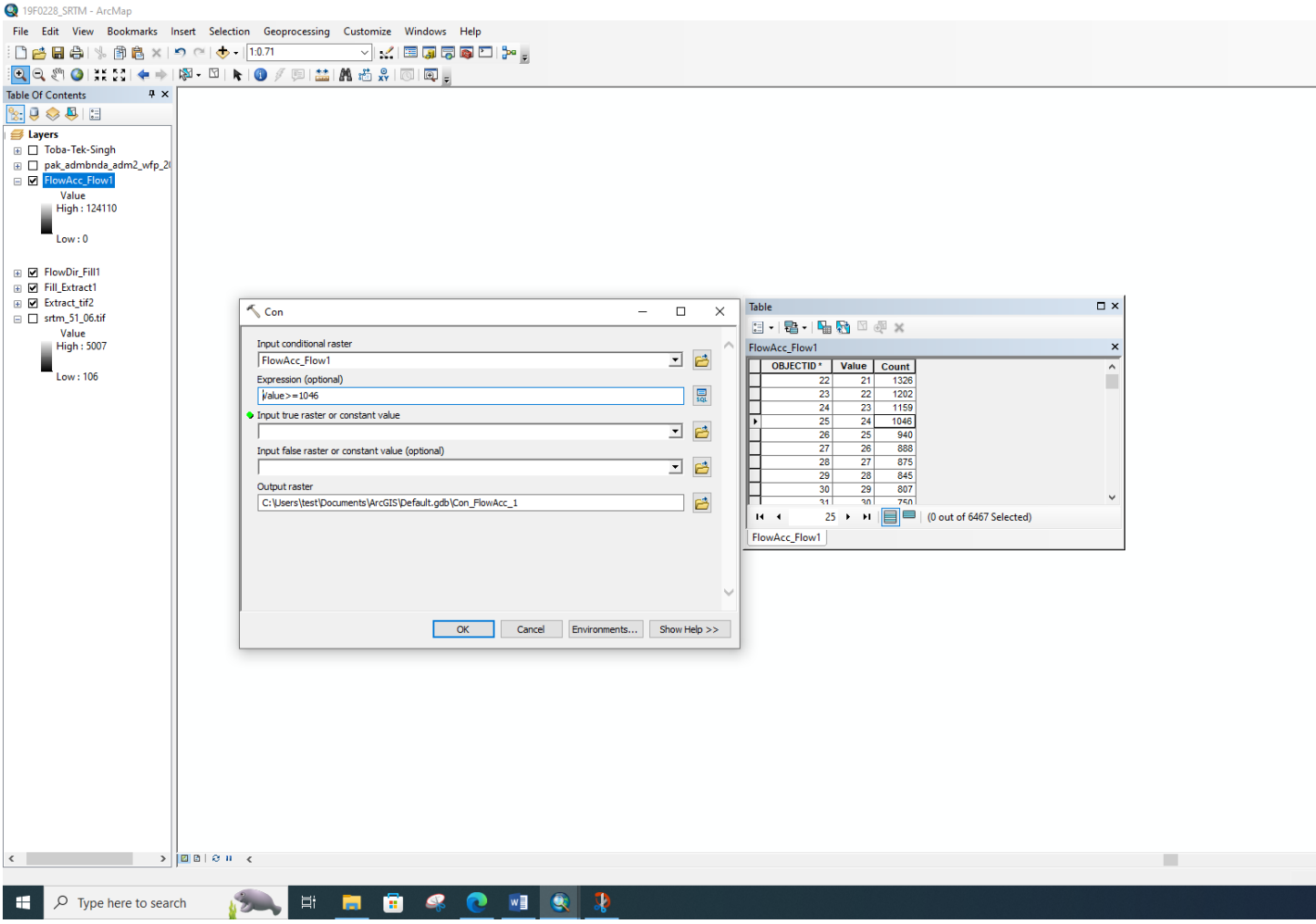
FlowDir_Fill1
1
2
4
8
16
32
64
128
Fill_Extract1
Value
High : 183
Low : 135
Extract_tif2
Value
High : 183
Low : 132
srtm_51_06.tif
Value
High : 5007
Low : 106
Flow Accumulation
Input flow direction raster
FlowDir_Fill1
Output accumulation raster
C:\Users\test\Documents\ArcGIS\Default.gdb\FlowAcc_Flow1
Input weight raster (optional)
Output data type (optional)
INTEGER
OK
Cancel
Environments...
Show Help >>
Type here to search



Step 8:

Conditional

Checking flow


19F0228_SRTM - ArcMap
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:0.71
Table Of Contents
Layers
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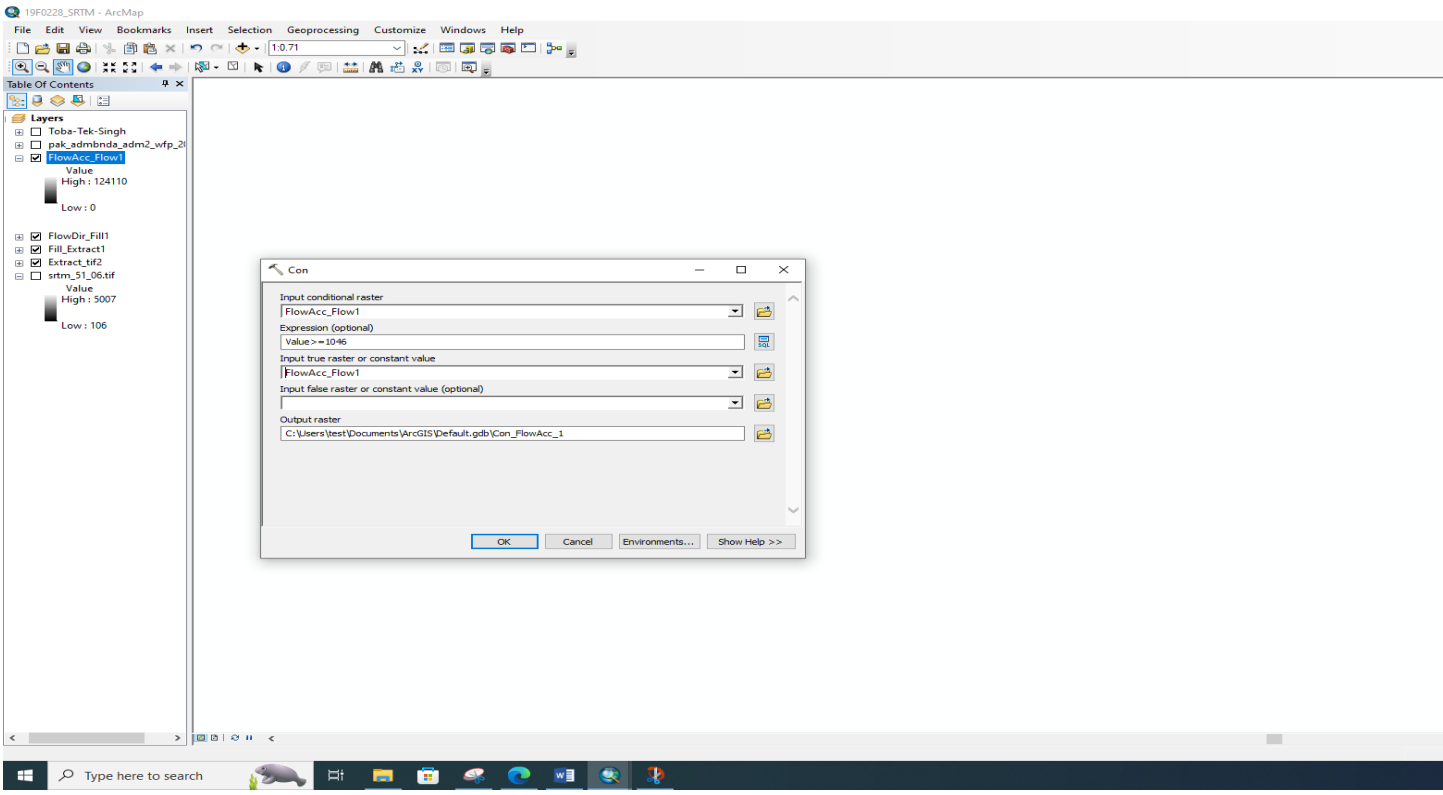
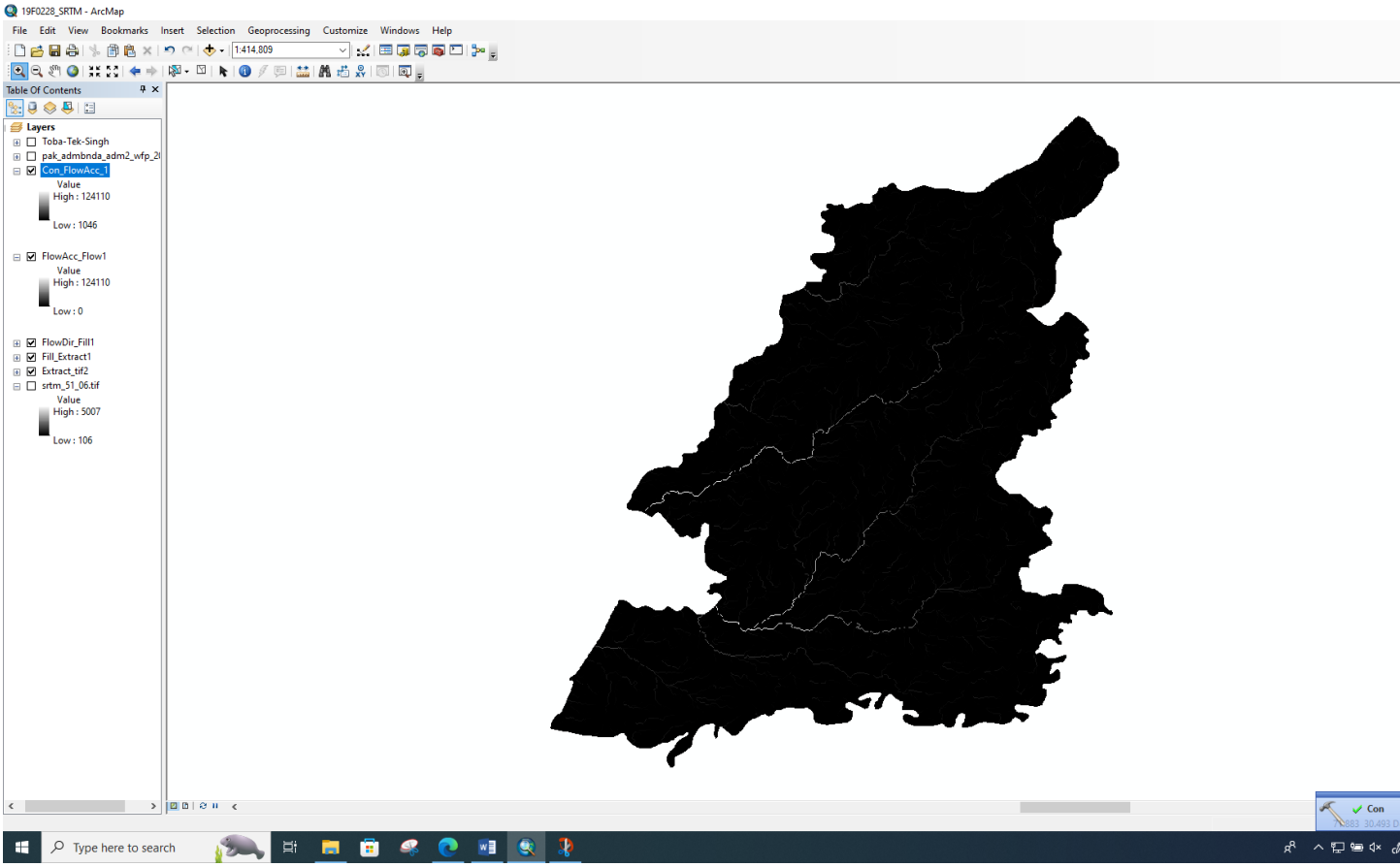
FlowAcc_Flow1
Value
High : 124110
Low : 0
FlowDir_Fill1
Fill_Extract1
Extract_tif2
srtm_51_06.tif
Value
High : 5007
Low : 106
Con
Input conditional raster
FlowAcc_Flow1
Expression (optional)
Value >= 1046
Input true raster or constant value
Input false raster or constant value (optional)
Output raster
C:\Users\test\Documents\ArcGIS\Default.gdb\Con_FlowAcc_1
OK
Cancel
Environments...
Show Help >>
Table
FlowAcc_Flow1
OBJECTID *
Value
Count
22 21 1326
23 22 1202
24 23 1159
25 24 1046
26 25 940
27 26 888
28 27 875
29 28 845
30 29 807
25
(0 out of 6467 Selected)
FlowAcc_Flow1
Type here to search



In these area flow is high


19F0228_SRTM - ArcMap
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:414,809
Table Of Contents
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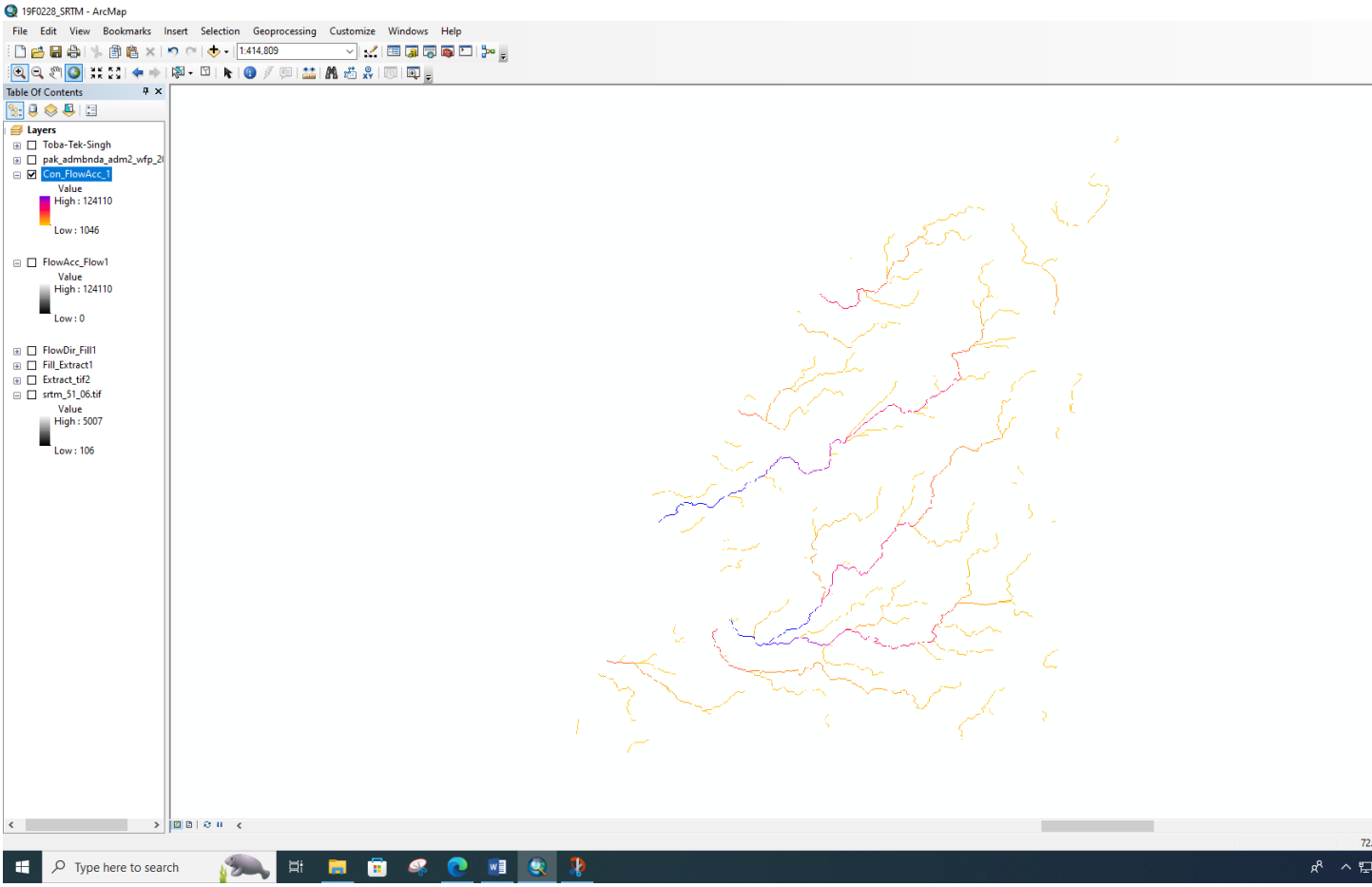
Toba-Tek-Singh
pak_admbnda_adm2_wfp_2
Con_FlowAcc_1
Value
High : 124110
Low : 1046
FlowAcc_Flow1
Value
High : 124110
Low : 0
FlowDir_Fill1
Fill_Extract1
Extract_tif2
srtm_51_06.tif
Value
High : 5007
Low : 106
Type here to search


19F0228_SRTM - ArcMap
File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help
1:414,809
Table Of Contents
Layers
Toba-Tek-Singh
pak_admbnda_adm2_wfp_2
Con_FlowAcc_1
Value
High : 124110
Low : 1046
FlowAcc_Flow1
Value
High : 124110
Low : 0
FlowDir_Fill1
Fill_Extract1
Extract_tif2
srtm_51_06.tif
Value
High : 5007
Low : 106
Type here to search