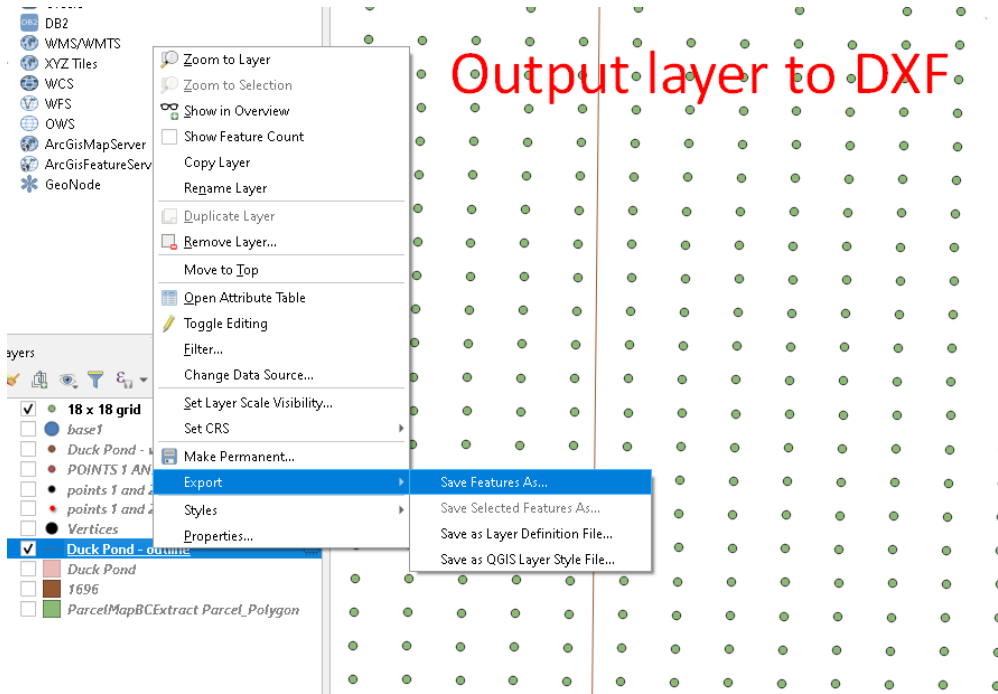


To get points from QGIS into Reachview for surveying... (go to end for importing points from Reachview to QGIS).

1. Export layer of polygon or lines to DWG or DXF. I'm usually bringing lines into the CAD program but points should work

Note – for my old version of intelliCAD, this layer for export must be in a meter type reference such as Easting/Northing format and exported as DXF.

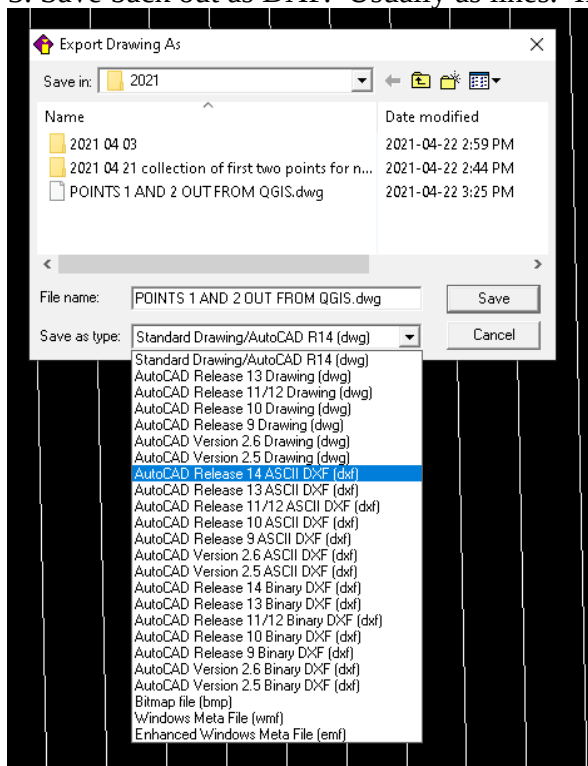


Random side note - To copy features to another layer...

<https://gis.stackexchange.com/questions/90119/add-objects-from-one-layer-to-another-at-qgis>

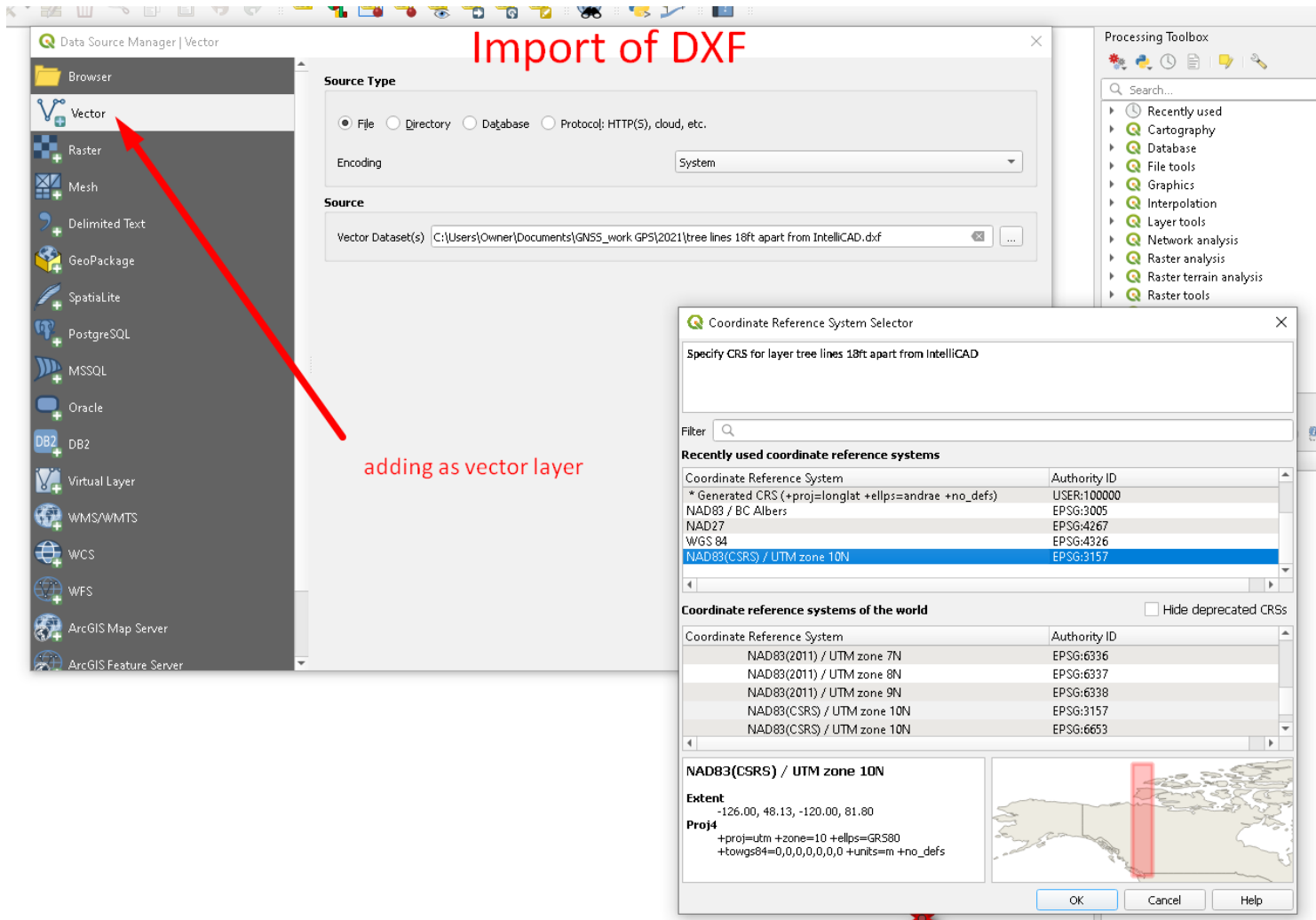
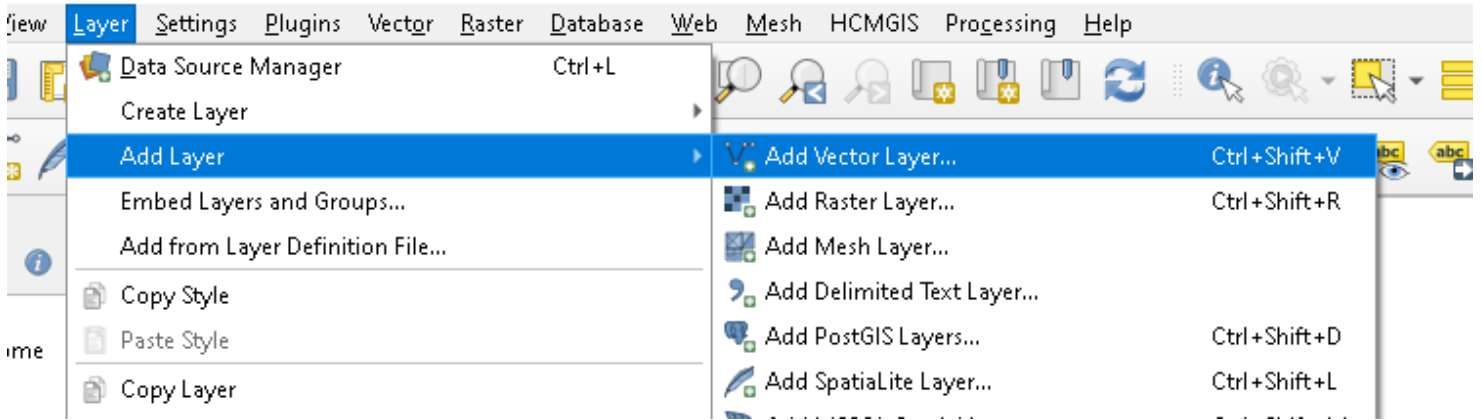
2. Open in 2-D CAD program and make adjustments or additions or whatever.... Usually, make offsets or add other lines at 90 degrees to originals.

3. Save back out as DXF. Usually as lines. If you have points, those can be imported to QGIS too.

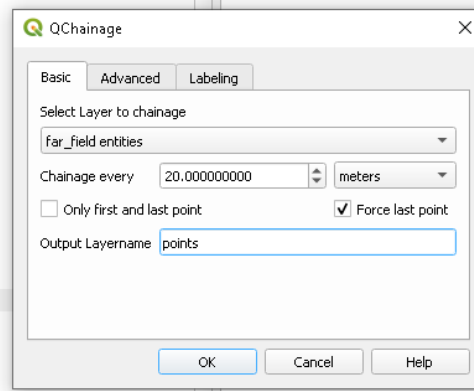
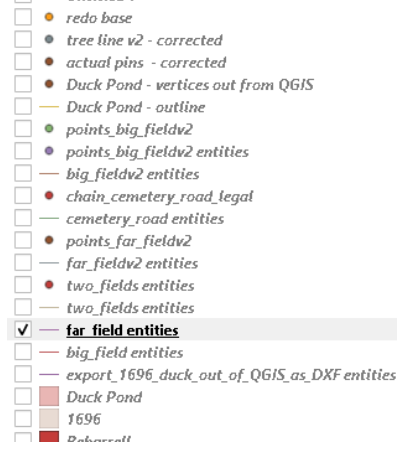


4. Import back in to QGIS.

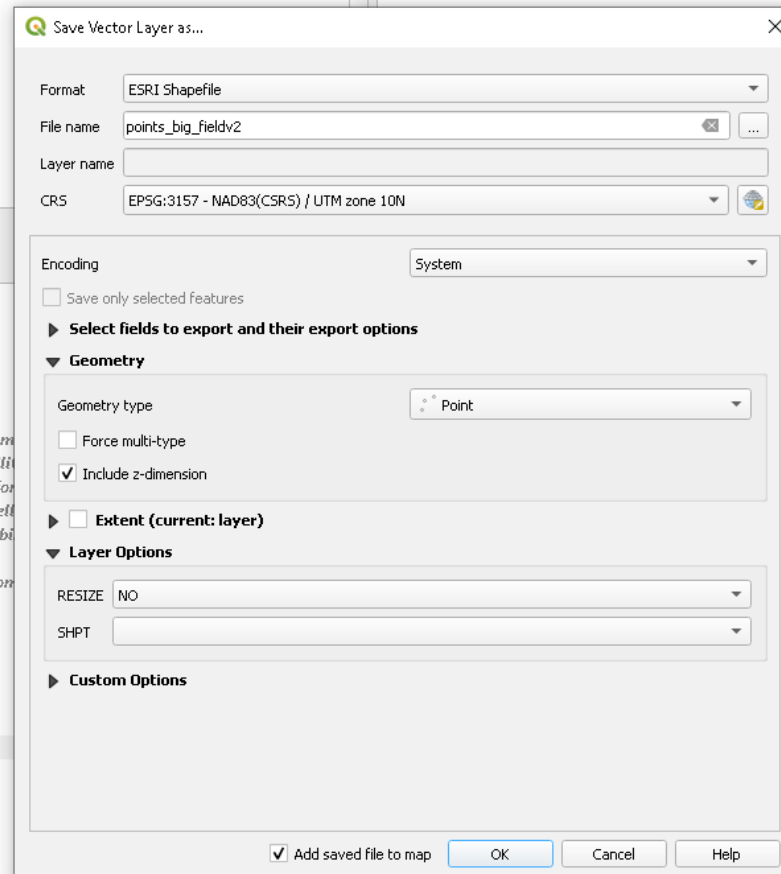
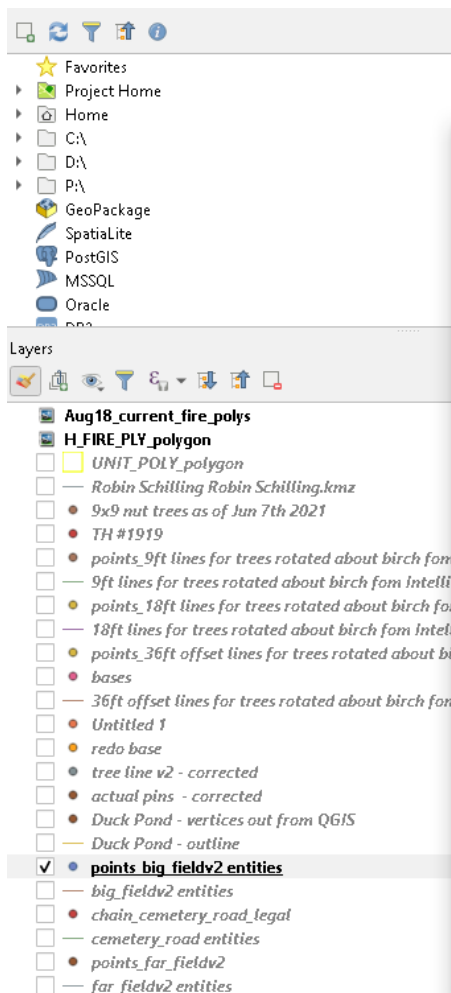
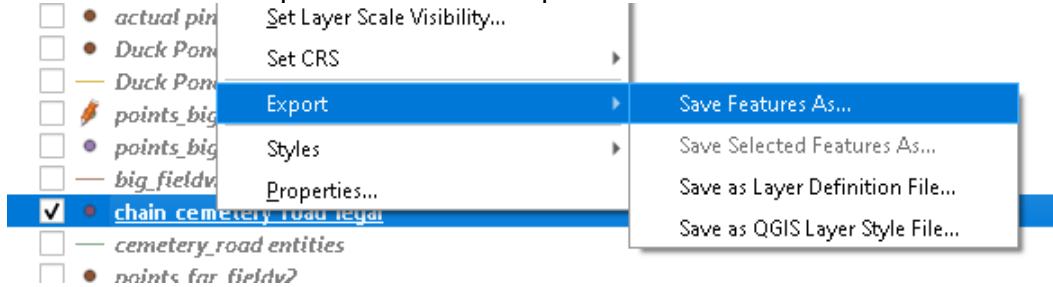
or nut trees - QGIS



5. Use Qchainage plug-in to create points along lines (creates a DXF layer with points)

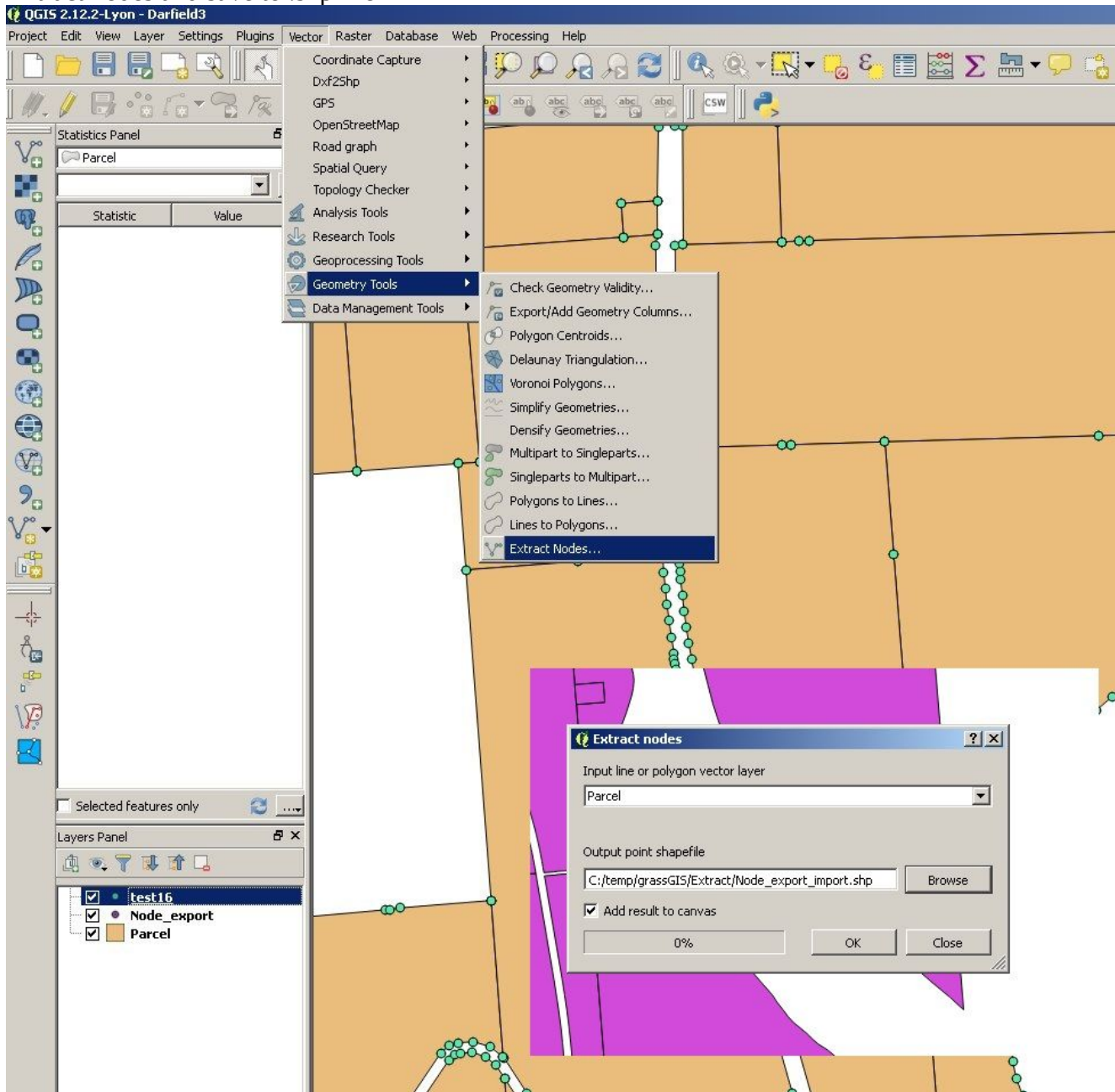


and Convert DXF of points to a ESRI shape file.

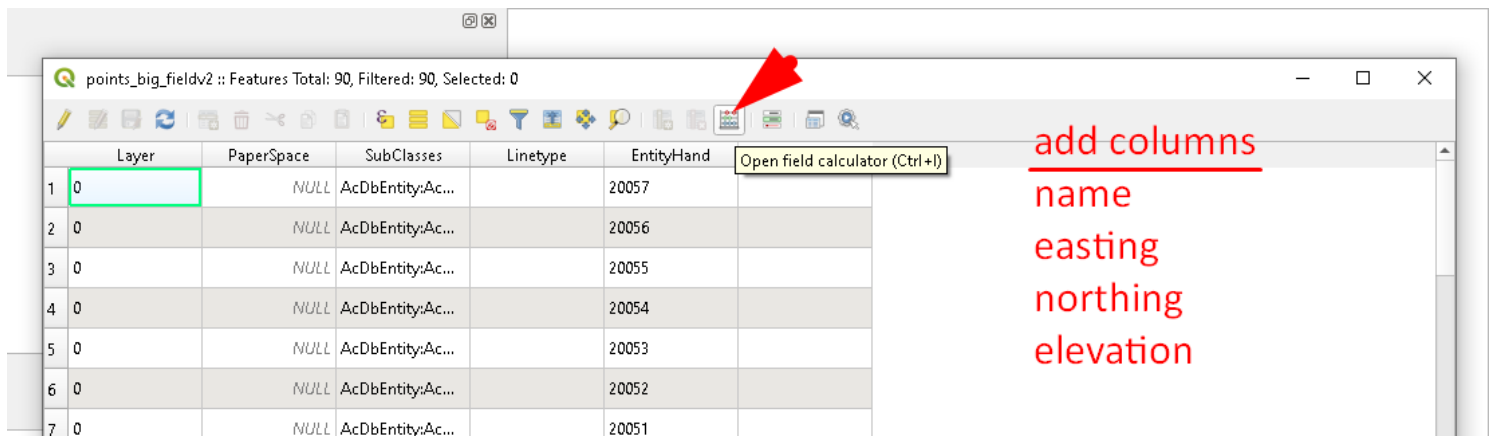
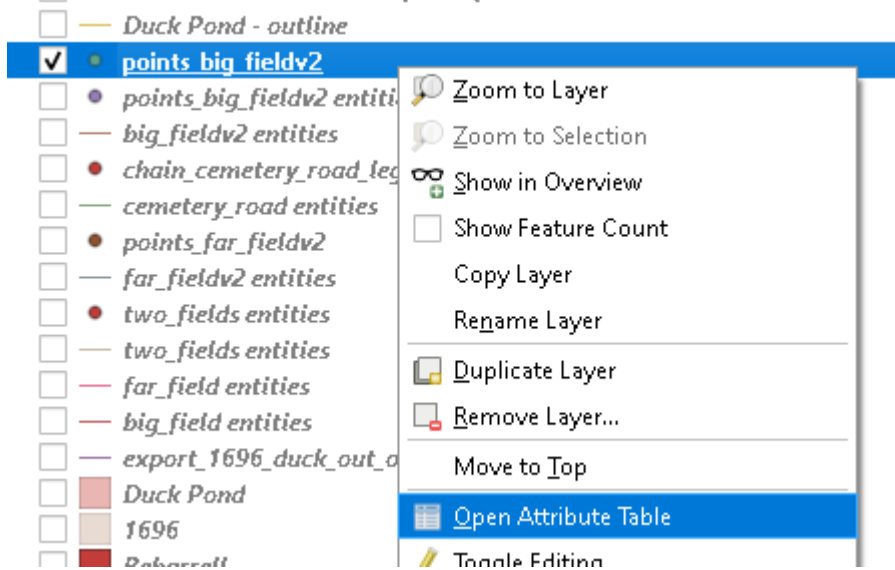


OR

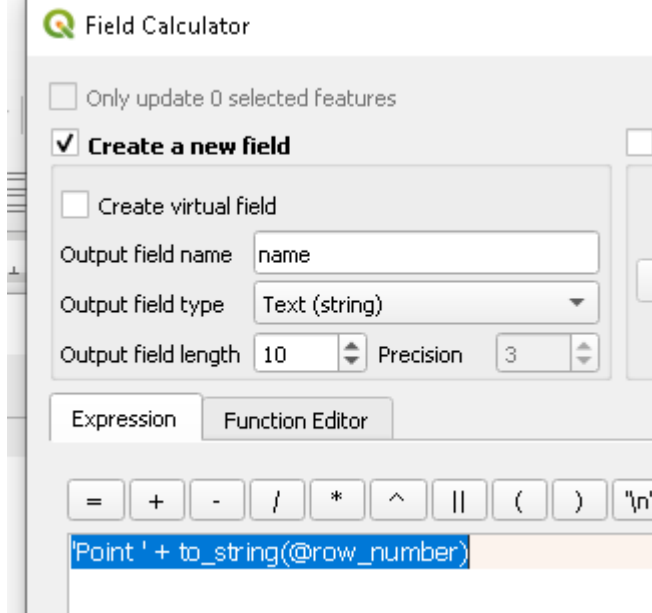
Extract nodes and save to .shp file



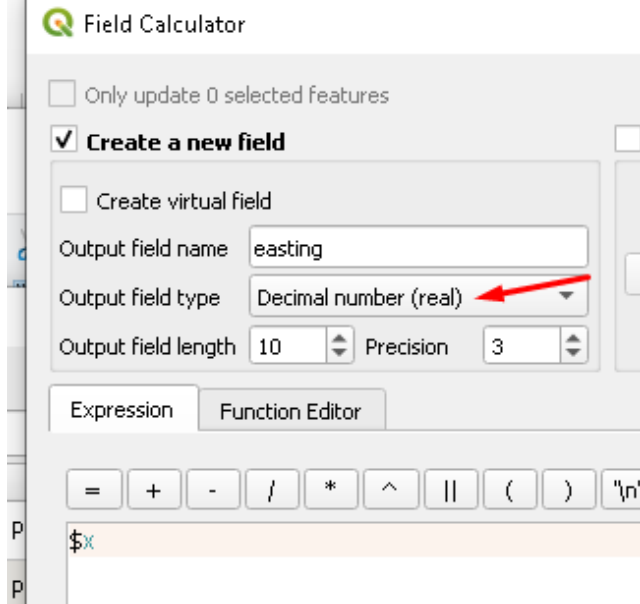
6. Open attribute table – This is a new step. If you skip this you then need to rename the columns in the outputted CSV file. Probably quicker than doing the following.



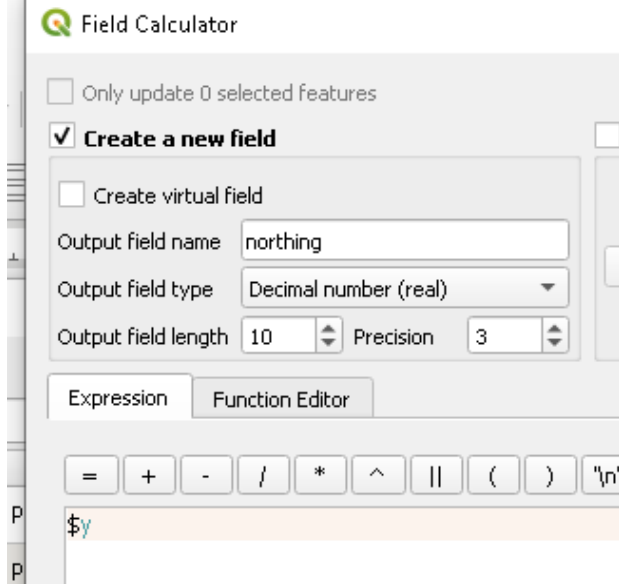
a) – name = 'Point ' + to_string(@row_number)



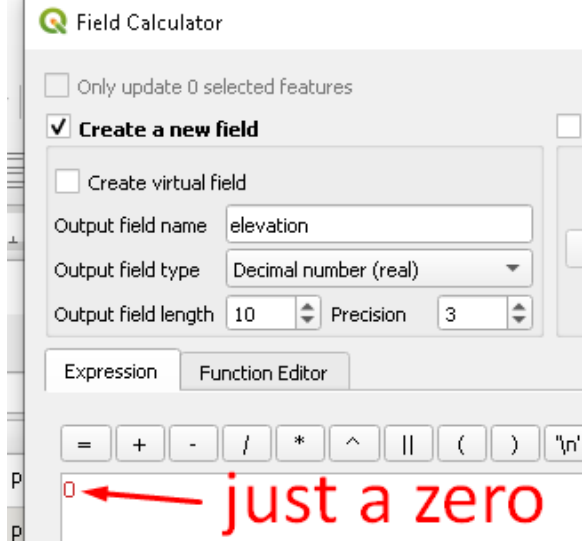
b) - easting



c) - northing

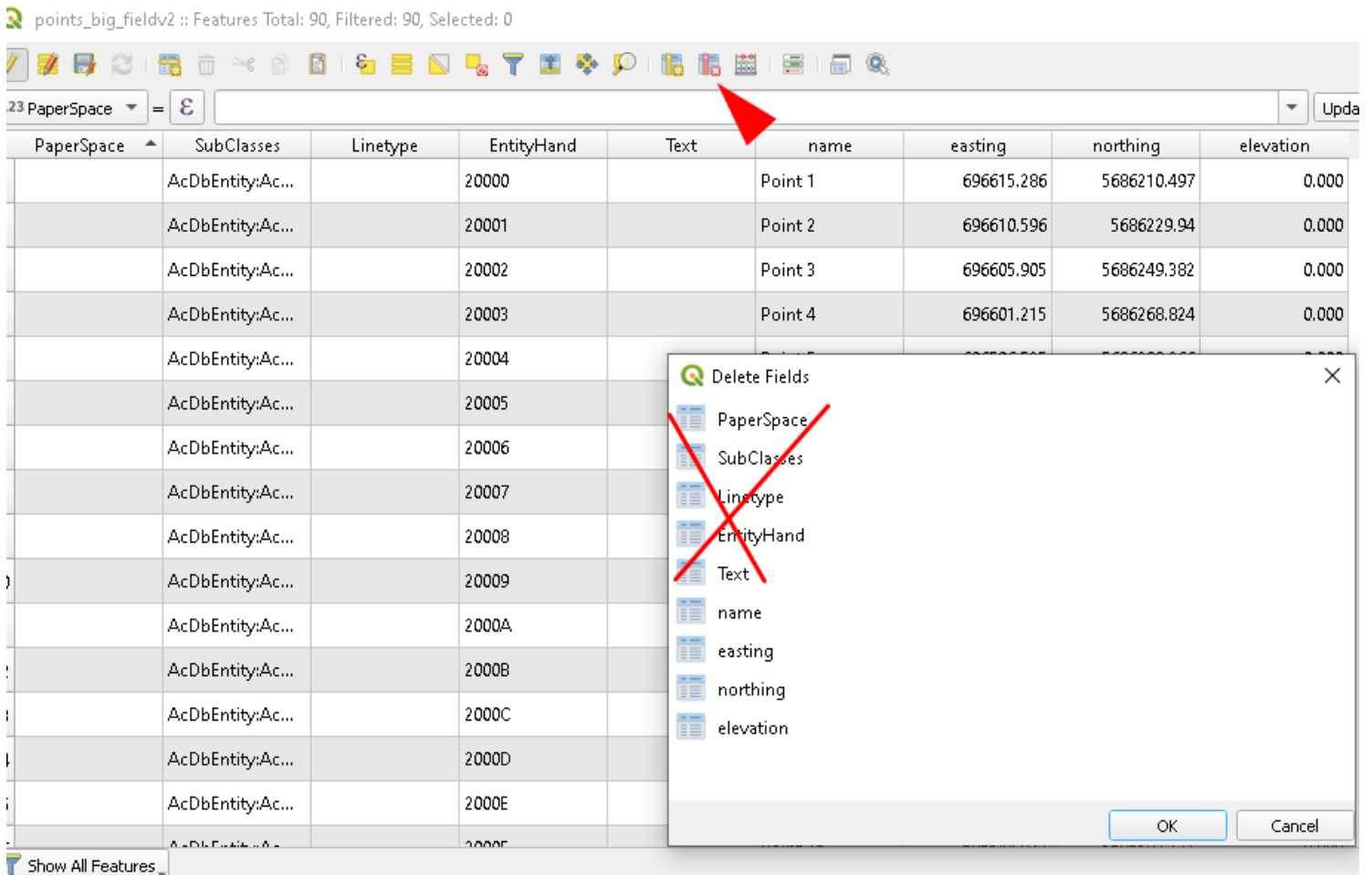


d) - elevation



e) Remove other columns (use CTRL to select multiple)

points_big_fieldv2 :: Features Total: 90, Filtered: 90, Selected: 0



23 PaperSpace = [Search] [Update]

PaperSpace	SubClasses	Linetype	EntityHand	Text	name	easting	northing	elevation
	AcDbEntity:Ac...		20000		Point 1	696615.286	5686210.497	0.000
	AcDbEntity:Ac...		20001		Point 2	696610.596	5686229.94	0.000
	AcDbEntity:Ac...		20002		Point 3	696605.905	5686249.382	0.000
	AcDbEntity:Ac...		20003		Point 4	696601.215	5686268.824	0.000
	AcDbEntity:Ac...		20004					
	AcDbEntity:Ac...		20005					
	AcDbEntity:Ac...		20006					
	AcDbEntity:Ac...		20007					
	AcDbEntity:Ac...		20008					
	AcDbEntity:Ac...		20009					
	AcDbEntity:Ac...		2000A					
	AcDbEntity:Ac...		2000B					
	AcDbEntity:Ac...		2000C					
	AcDbEntity:Ac...		2000D					
	AcDbEntity:Ac...		2000E					
	AcDbEntity:Ac...		2000F					

Show All Features

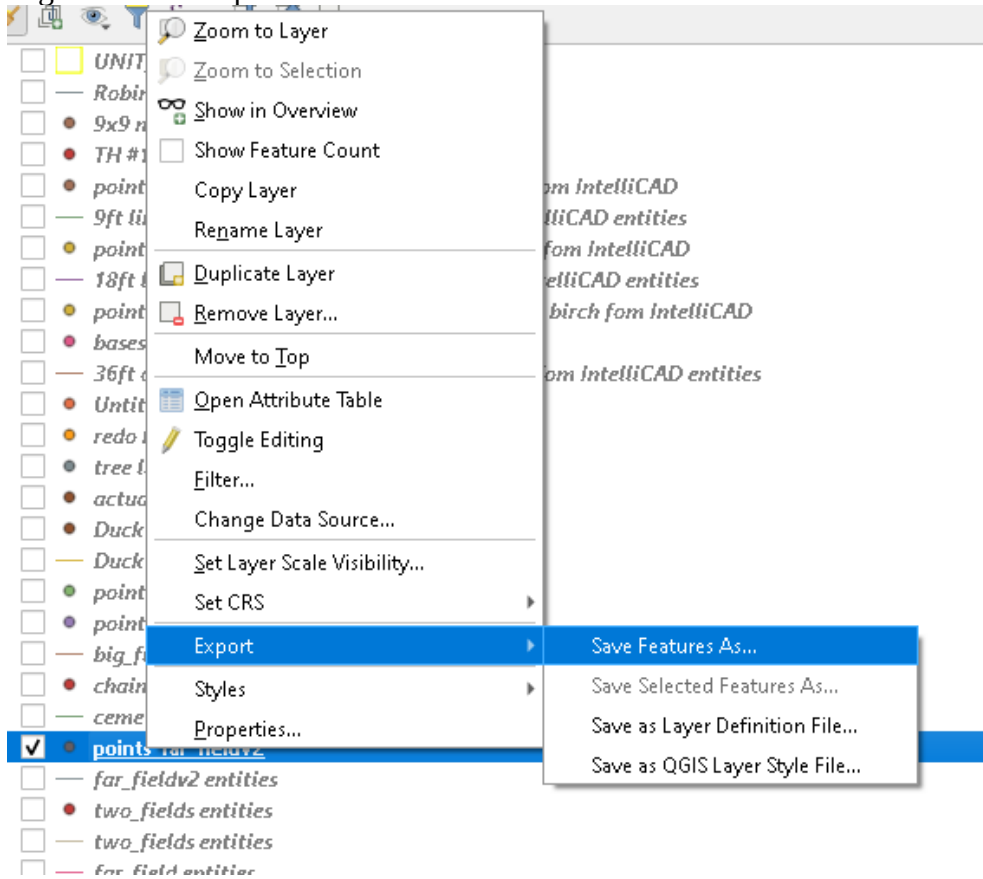
Delete Fields

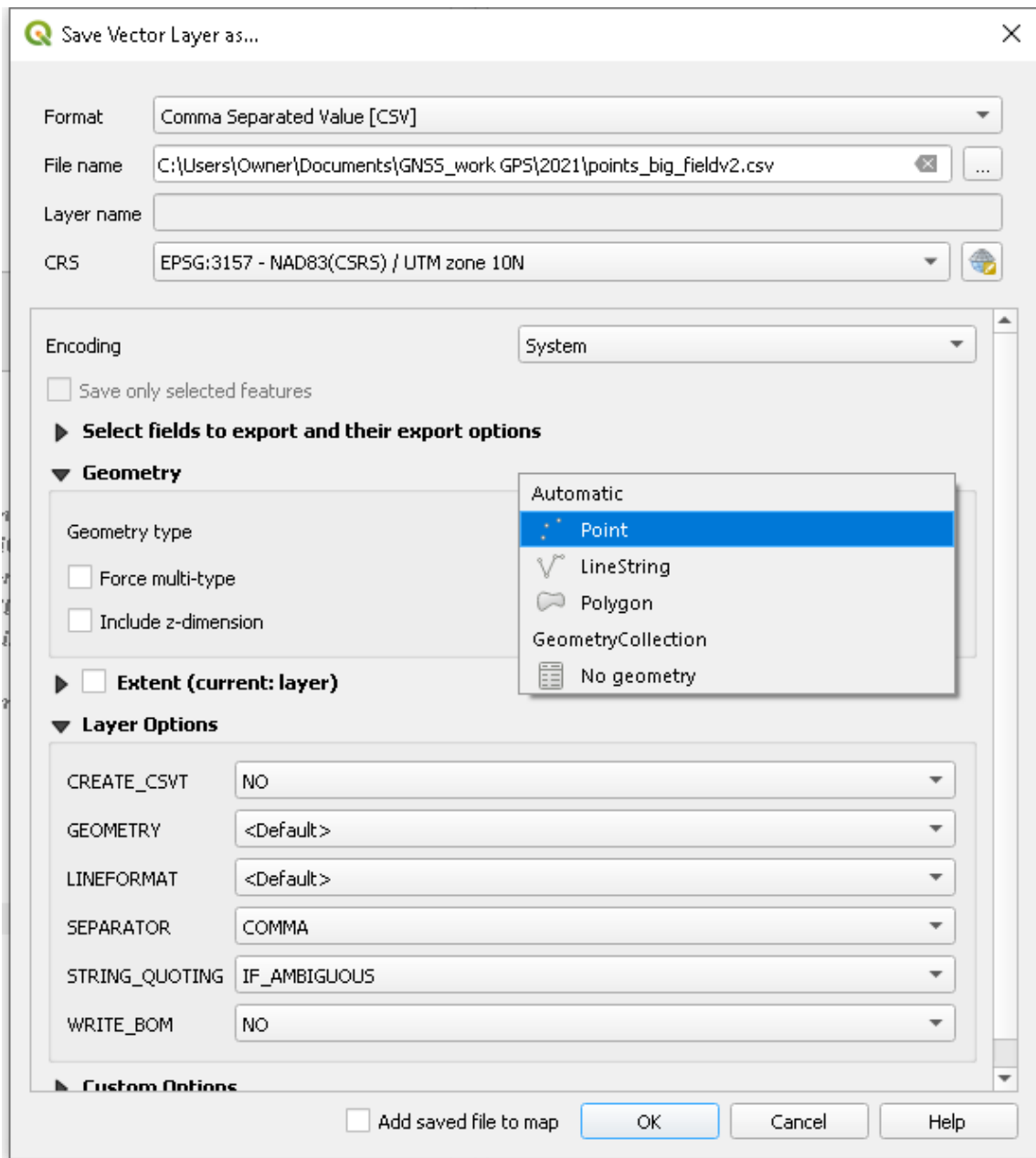
- PaperSpace
- SubClasses
- Linetype
- EntityHand
- Text
- name
- easting
- northing
- elevation

OK Cancel

7 Export to CSV file

Right click on .shp file and save as CSV file.



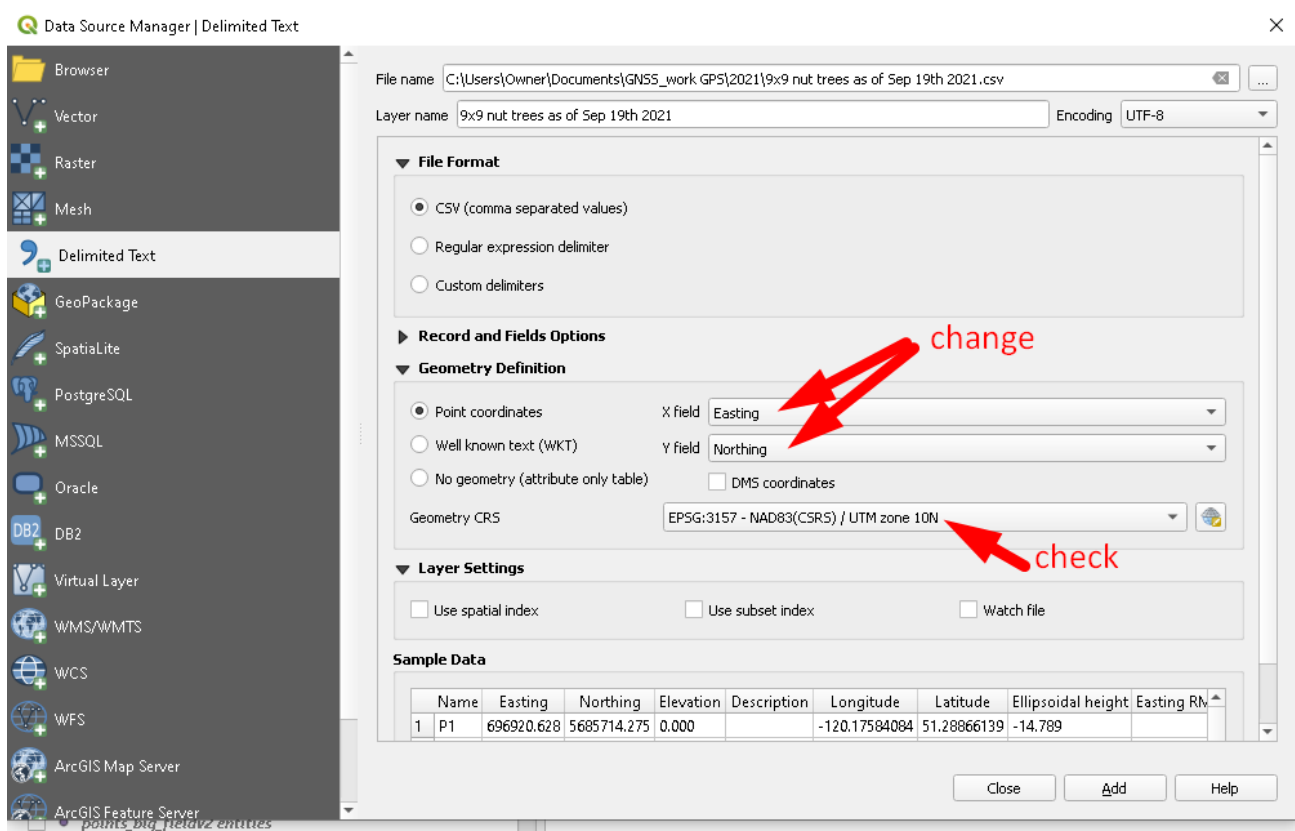
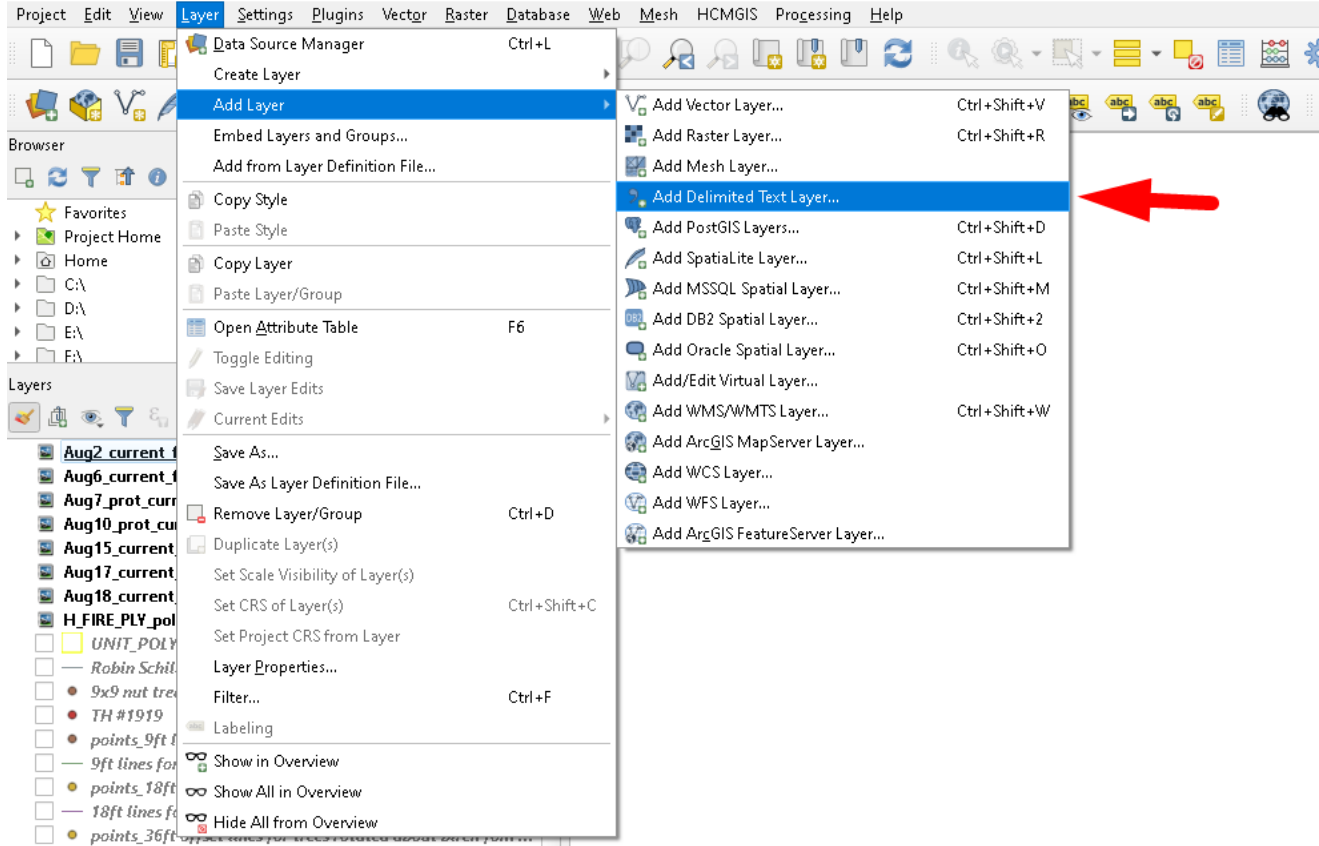


CSV will look like this.... Now I email it to my phone.

```
points_big_fieldv2.csv - Notepad
File Edit Format View Help
name,easting,northing,elevation
Point 1,696615.286,5686210.497,0.000
Point 2,696610.596,5686229.940,0.000
Point 3,696605.905,5686249.382,0.000
Point 4,696601.215,5686268.824,0.000
Point 5,696596.525,5686288.266,0.000
Point 6,696591.835,5686307.709,0.000
Point 7,696587.144,5686327.151,0.000
Point 8,696582.454,5686346.593,0.000
Point 9,696577.764,5686366.035,0.000
Point 10,696573.073,5686385.478,0.000
Point 11,696568.383,5686404.920,0.000
Point 12,696563.693,5686424.362,0.000
Point 13,696559.003,5686443.804,0.000
```

Importing points from Reachview to QGIS.

1. Email project file of points from phone to PC (as CSV).
2. Add layer from CSV file.



2. Turn on labels for points (if desired). I usually show description that was entered in Reachview.

