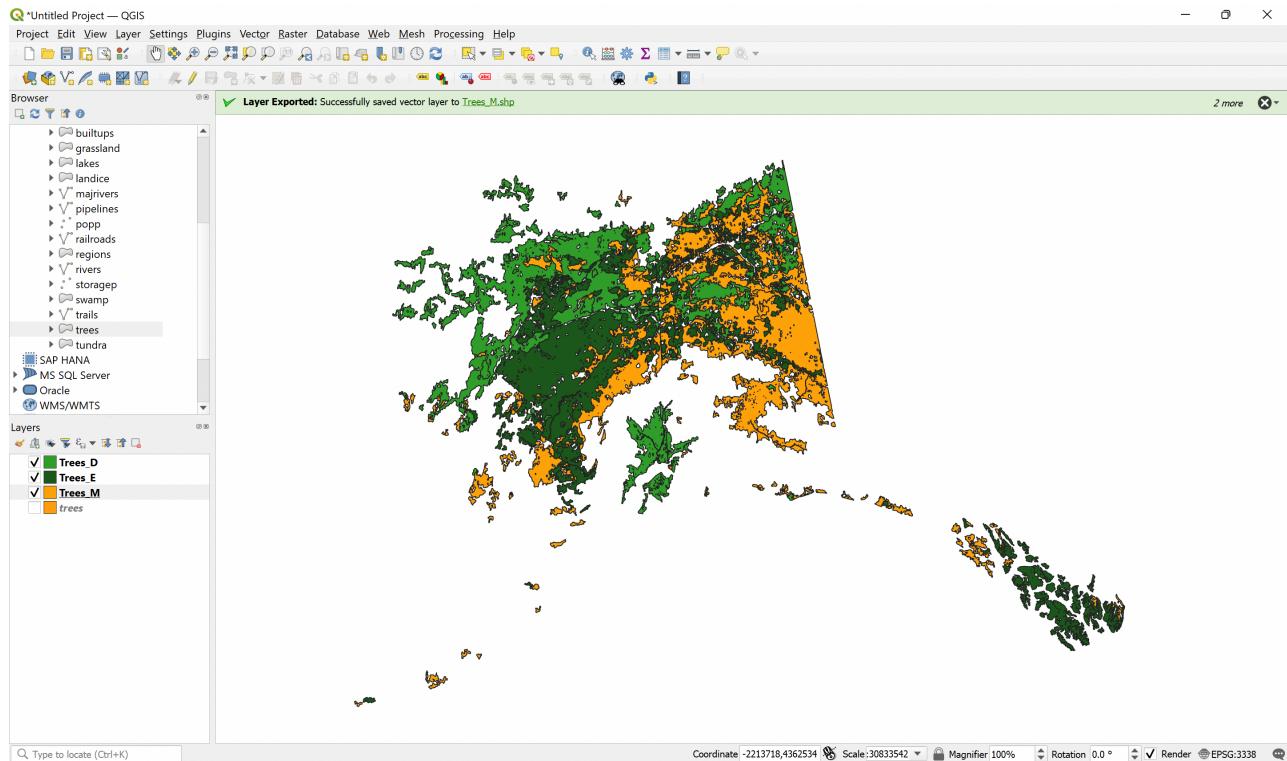


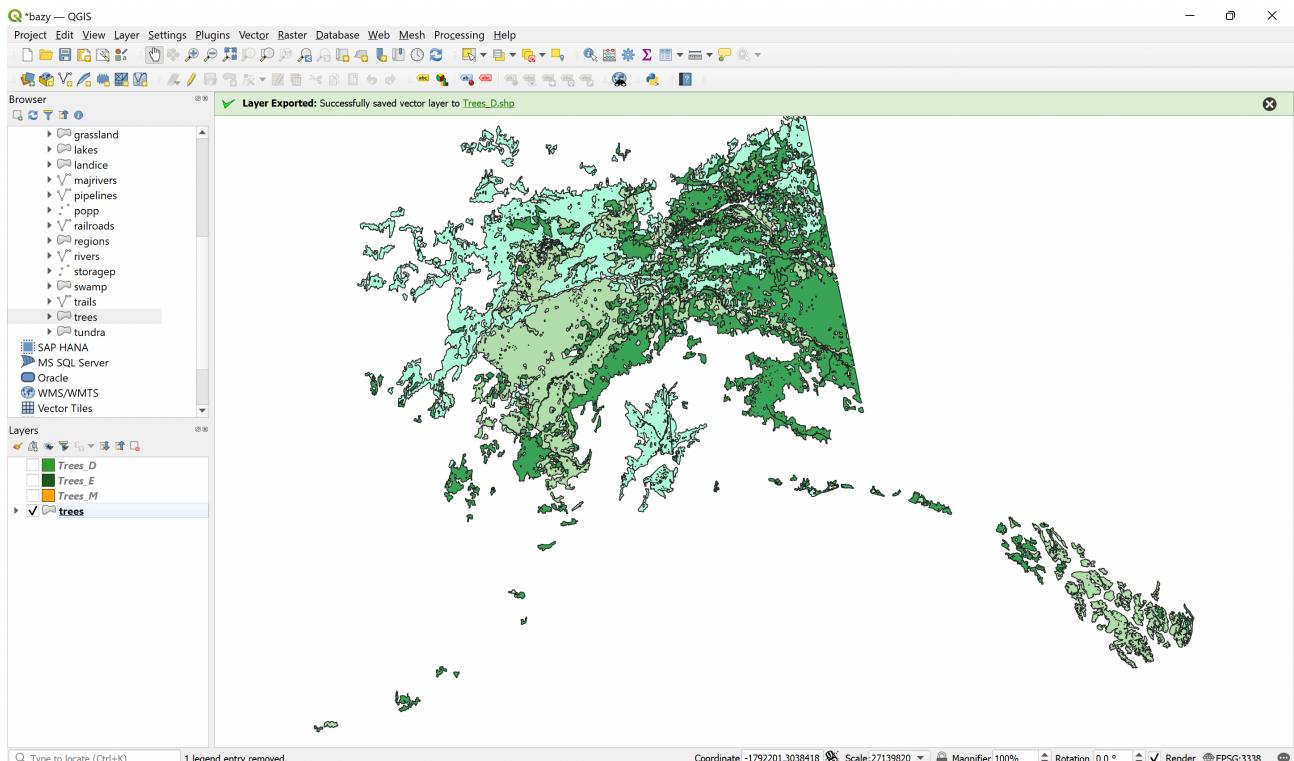
zad.1

Zadanie zostało wykonane na dwa sposoby.

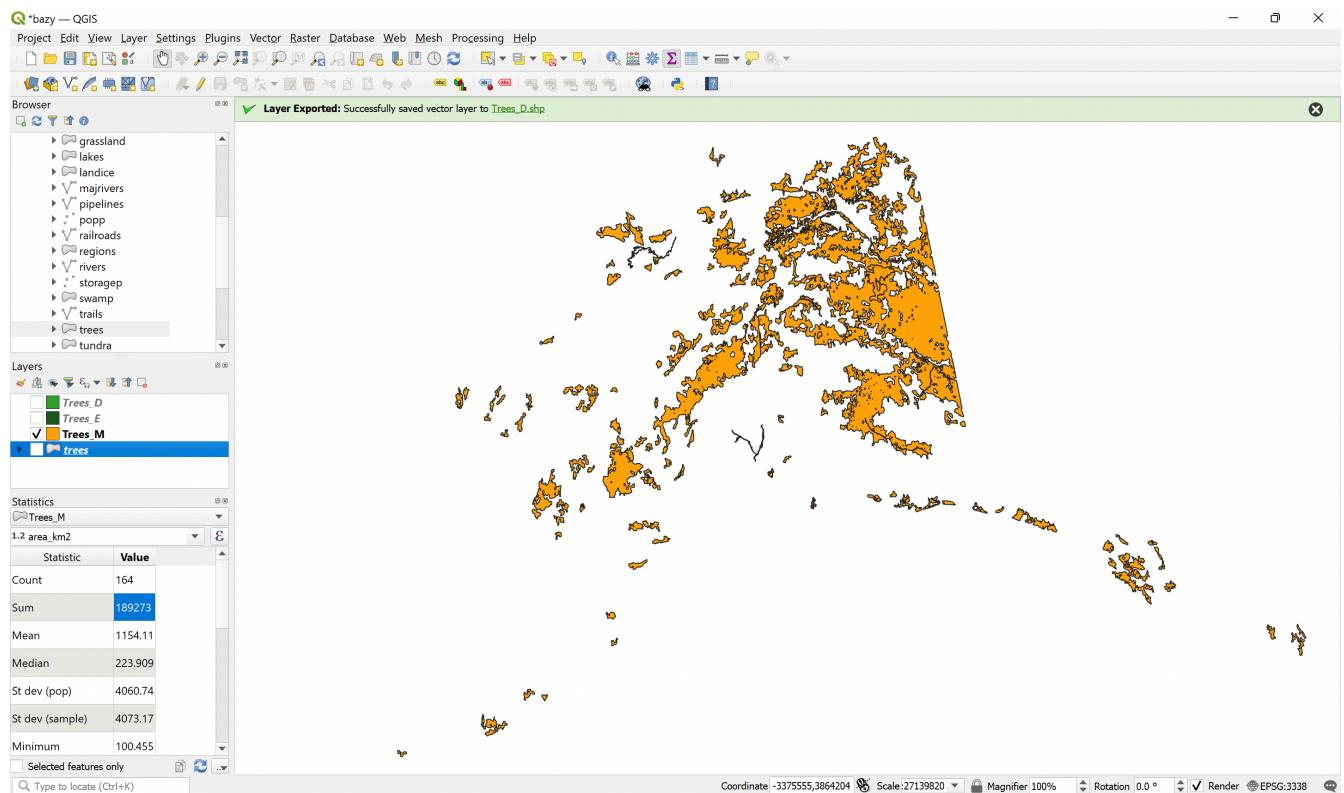
I. Zmiana stylu na podstawie atrybutu vegdesc (lasy Liściaste, lasy Iglaste i lasy mieszane)



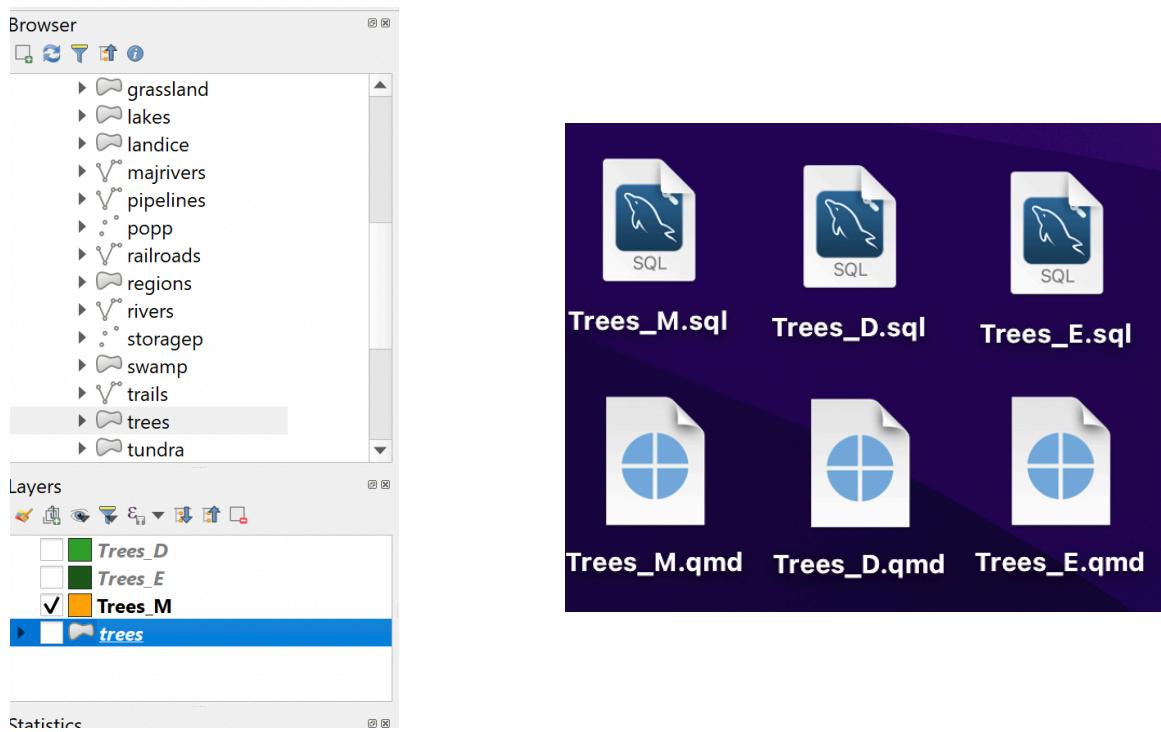
II. Zastosowanie filtracji, a następnie wyeksportowanie trzech osobnych, odpowiednich dla gatunku (atrybut vegdesc) warstw shp.



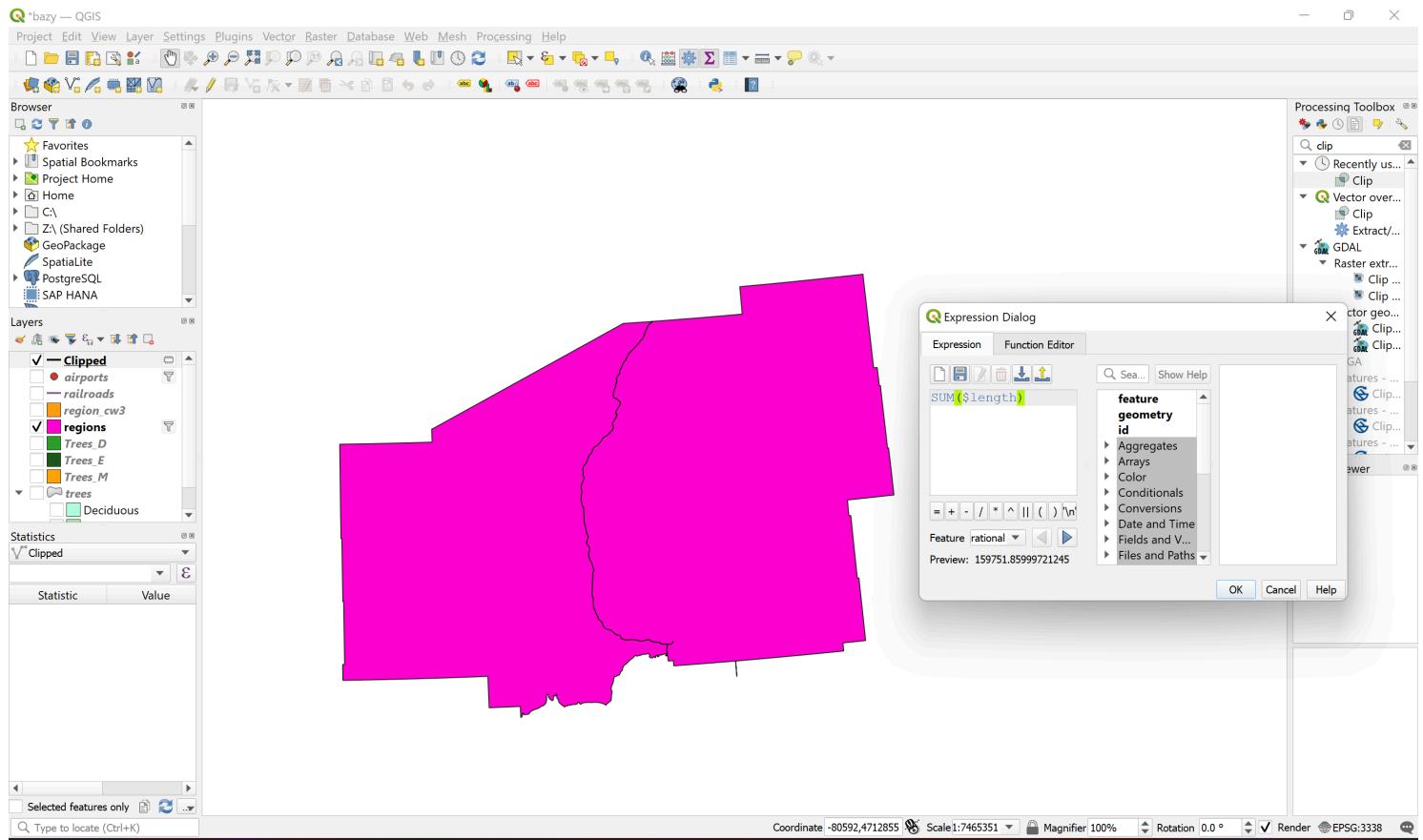
Pole powierzchni lasów mieszanych zostało wyznaczone na podstawie kalkulatora pól, a także po wyświetleniu statystyk wybierając warstwę „Trees_M” (Lasy mieszane) i atrybut area_km2.



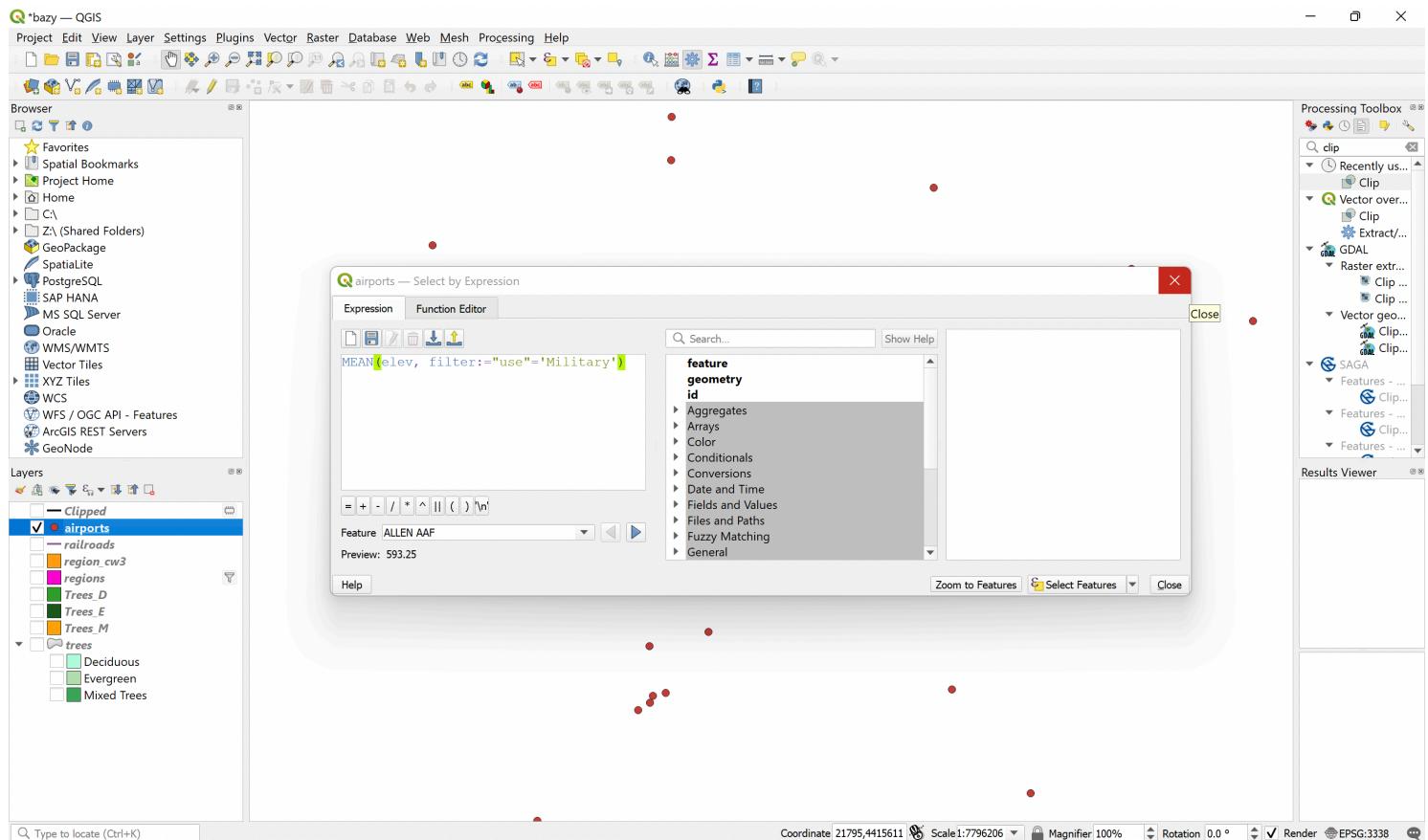
zad.2



zad.3



zad.4



airports — Select by Expression

Expression Function Editor

COUNT(gid, filter:=use='Military')

= + - / * ^ || () \n

Feature ALLEN AAF

Preview: 8

Help

Search... Show Help

feature
geometry
id

- ▶ Aggregates
- ▶ Arrays
- ▶ Color
- ▶ Conditionals
- ▶ Conversions
- ▶ Date and Time
- ▶ Fields and Values
- ▶ Files and Paths
- ▶ Fuzzy Matching
- ▶ General

Zoom to Features Select Features Close

airports — Select by Expression

Expression Function Editor

("elev" > 1400) AND ("use"='Military')

= + - / * ^ || () \n

Feature ALLEN AAF

Preview: 0

Help

Search... Show Help

function aggregate

Returns an aggregate value calculated using features from another layer.

Syntax

aggregate (*layer*, *aggregate*, *expression*[, *filter*] [, *concatenator*=''] [, *order_by*])

[] marks optional components

Arguments

layer a string, representing either a layer name or layer ID
aggregate a string corresponding to the aggregate to calculate. Valid

Zoom to Features Select Features Close

airports — Features Total: 76, Filtered: 76, Selected: 1

123gid = 12 Delete selected features

Expression

| | | |
|----------------------|-----------|--------------------|
| ALLEN AAF | gid | 16 |
| AMBLER | id | 16 |
| ANCHORAGE INTL | fk_region | 26 |
| ANIAK | elev | 1461 |
| ANNETTE ISLAND | name | KALAKAKET CREEK AS |
| ANVIK | use | Military |
| ATKA | | |
| BETHEL | | |
| BETTLES | | |
| BIG LAKE | | |
| BIG MOUNTAIN AFS | | |
| BRYANT AHP | | |
| BUCKLAND | | |
| CAPE NEWENHAM L... | | |
| CAPE ROMANZOF LR... | | |
| CLEAR | | |
| COLD BAY | | |
| DILLINGHAM | | |
| EDWARD G PITKA SR | | |
| EIELSON AFB | | |
| ELMENDORF AFB | | |
| EMMONAK | | |
| FAIRBANKS INTL | | |
| FORT YUKON | | |
| GAMBELL | | |
| GRANITE MOUNTAIN... | | |
| GULKANA | | |
| GUSTAVUS | | |
| HAINES | | |
| HOMER | | |
| HOONAH | | |
| ILIAMNA | | |
| INDIAN MOUNTAIN L... | | |
| KAKE | | |
| KALAKAKET CREEK AS | | |
| KENAI MUNI | | |
| KING SALMON | | |
| KLAWOCK | | |
| KODIAK | | |
| KOYUK | | |
| MC GRATH | | |

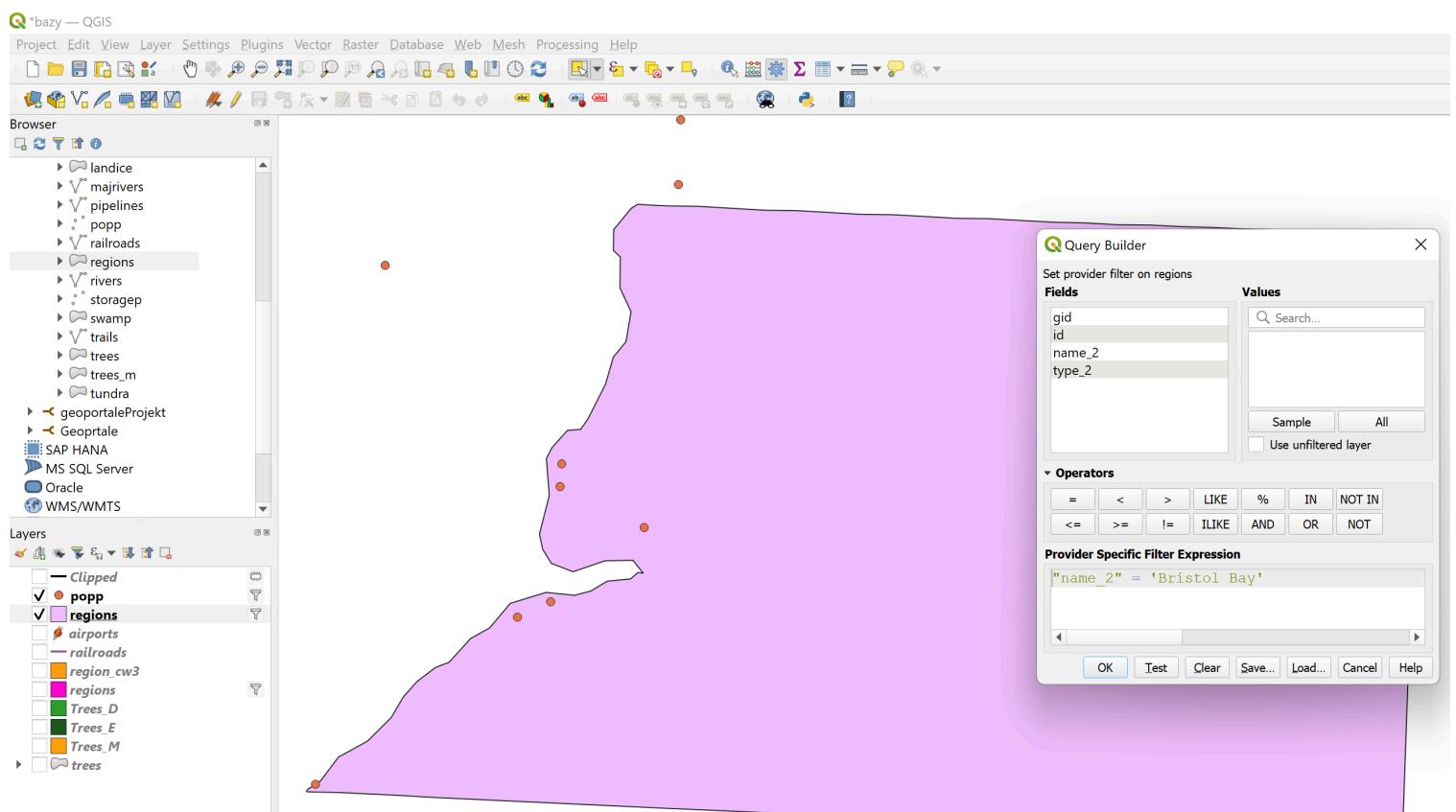
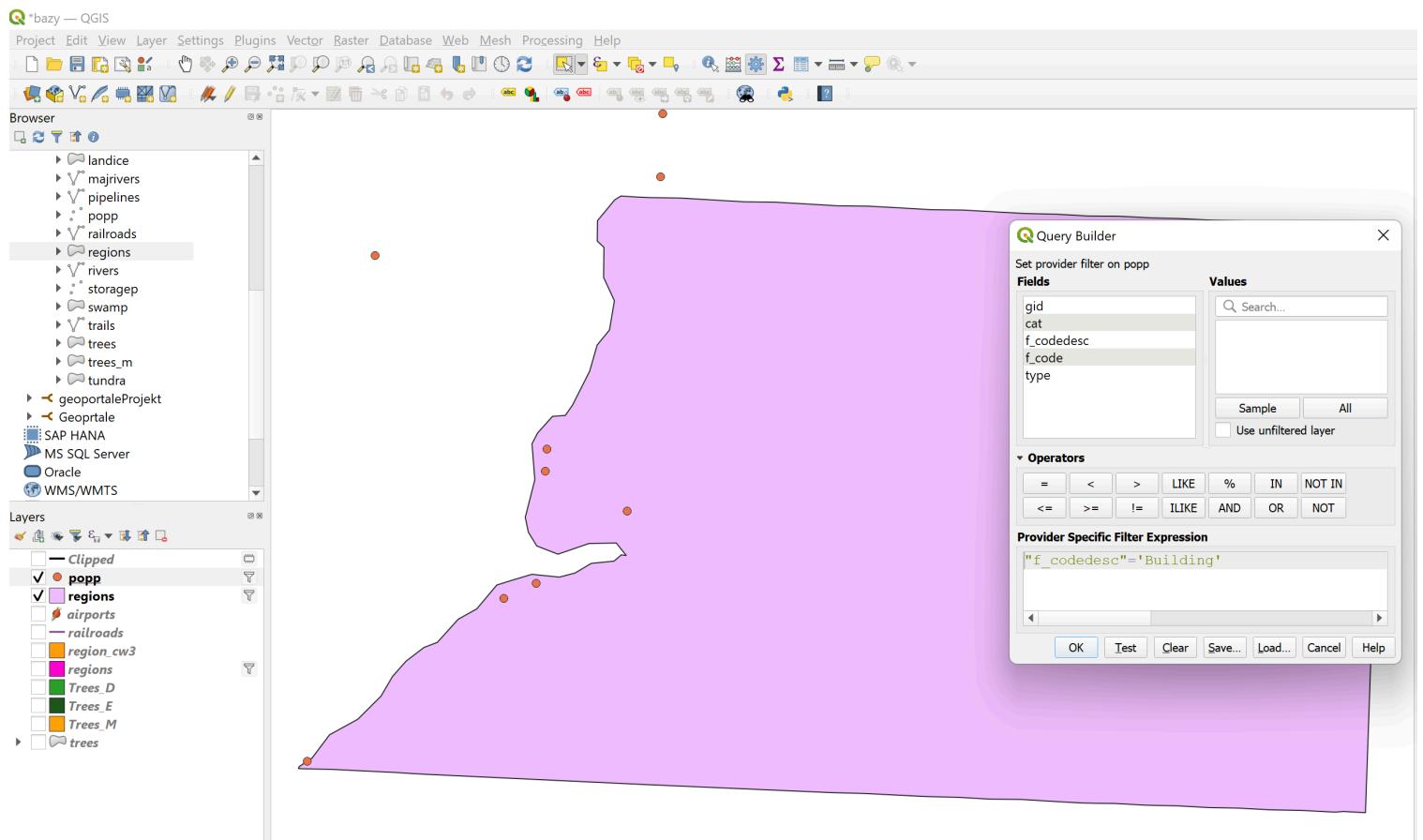
Delete 1 feature from layer "airpor..."

1 selected feature(s) is/are about to be deleted. Would you like to continue?

Don't show this message again

Delete 1 Feature(s) Cancel

Zad. 5



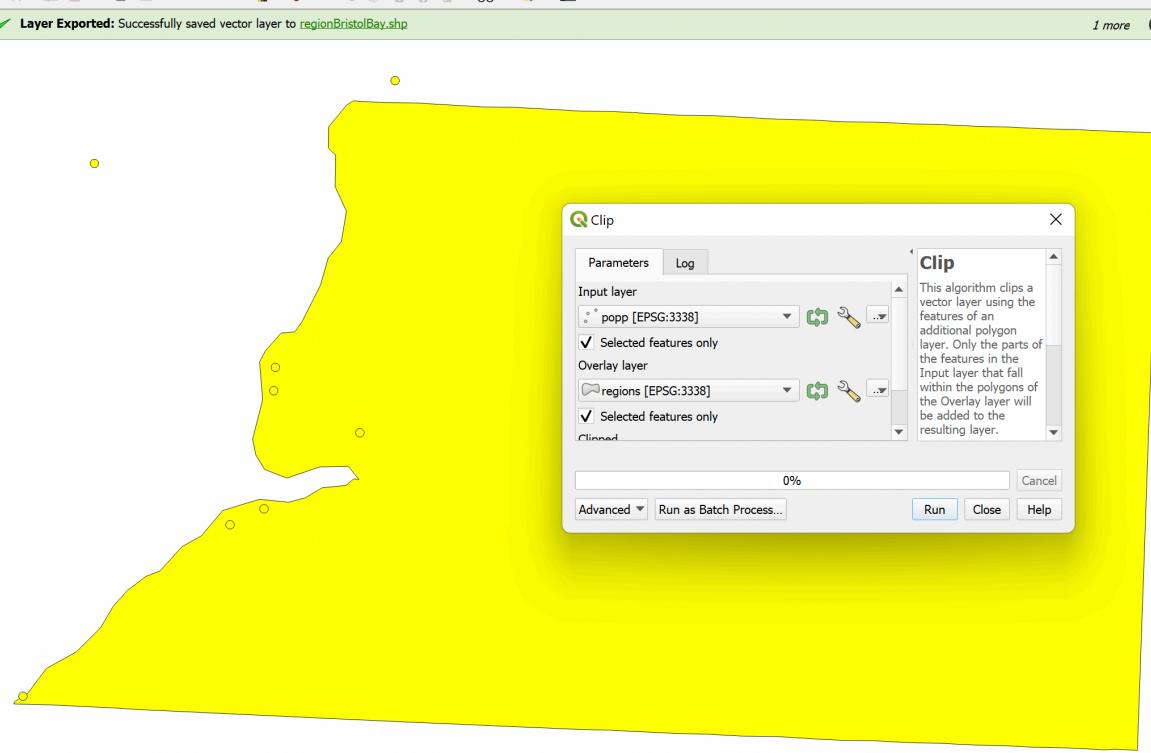


Browser

- ▶ landice
- ▶ majrivers
- ▶ pipelines
- ▶ popp
- ▶ railroads
- ▶ regions
- ▶ rivers
- ▶ storagep
- ▶ swamp
- ▶ trails
- ▶ trees
- ▶ trees_m
- ▶ tundra
- ▶ geoportaleProjekt
- ▶ Geoprtale
- SAP HANA
- MS SQL Server
- Oracle
- WMS/WMTS

Layers

- Clipped
- Clipped
- buildingsOnlyBristolBay
- ✓ ● popp
- regionBristolBay
- ✓ ■ regions
- airports
- railroads
- region_cw3
- regions
- Trees_D
- Trees_E
- Trees_M
- ▶ trees



Browser

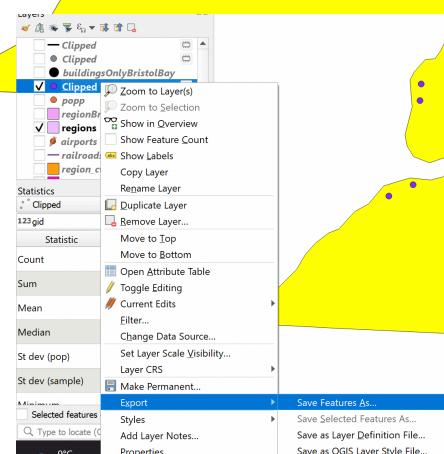
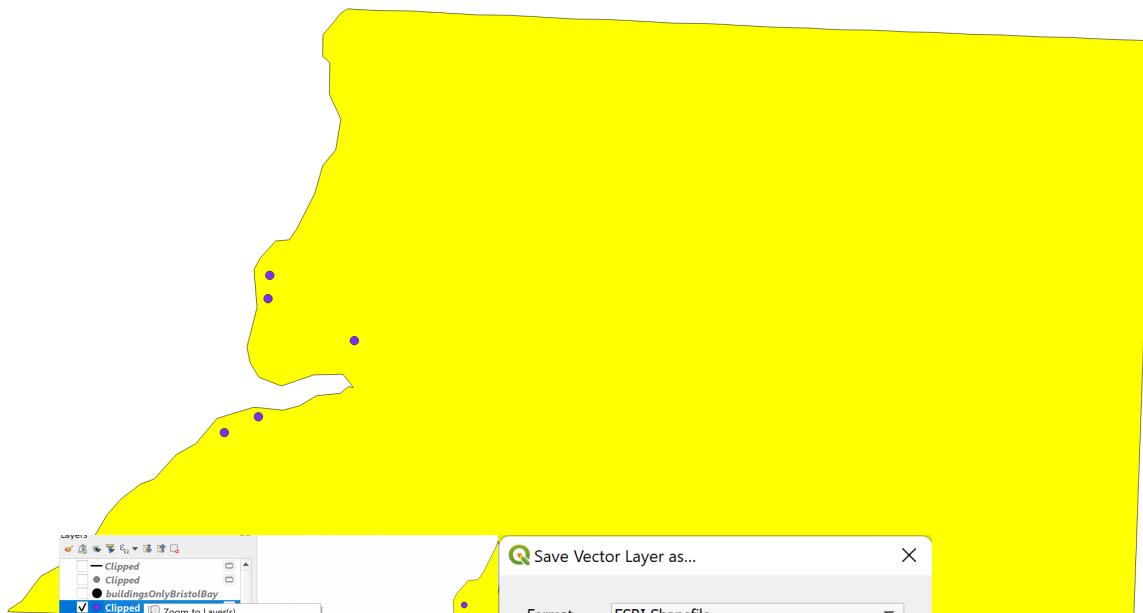
- ▶ landice
- ▶ majrivers
- ▶ pipelines
- ▶ popp
- ▶ railroads
- ▶ regions
- ▶ rivers
- ▶ storagep
- ▶ swamp
- ▶ trails

Layers

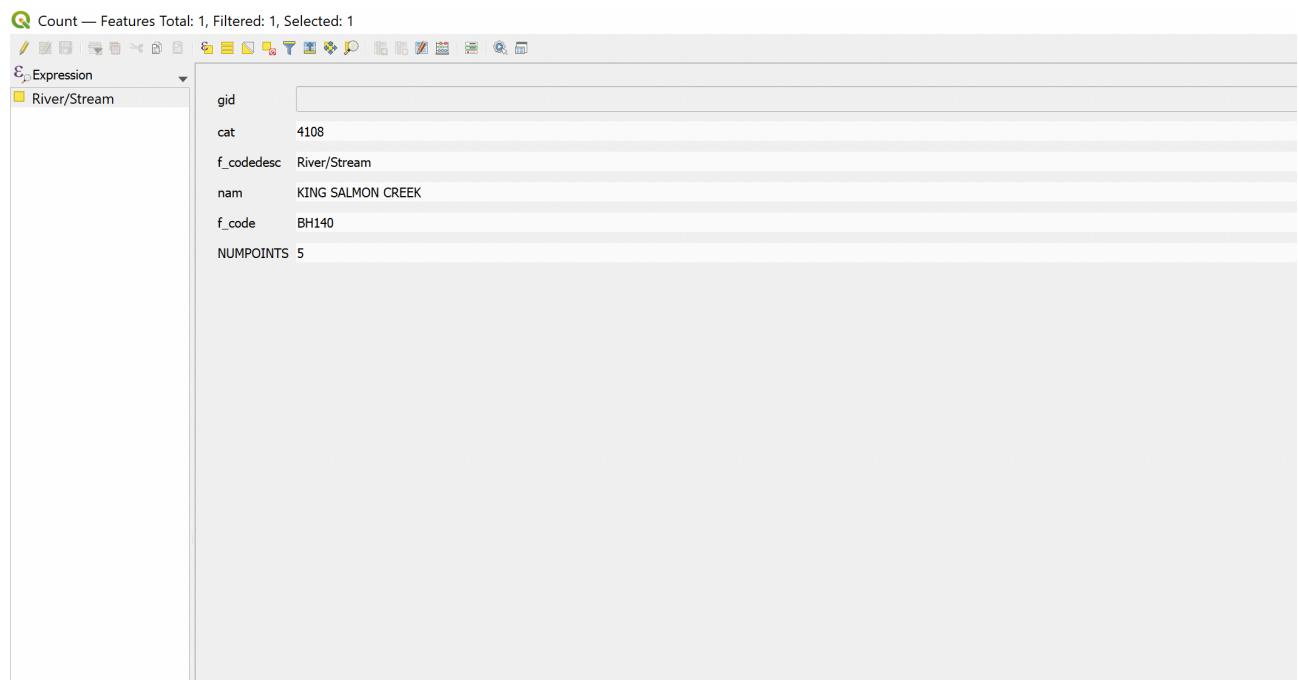
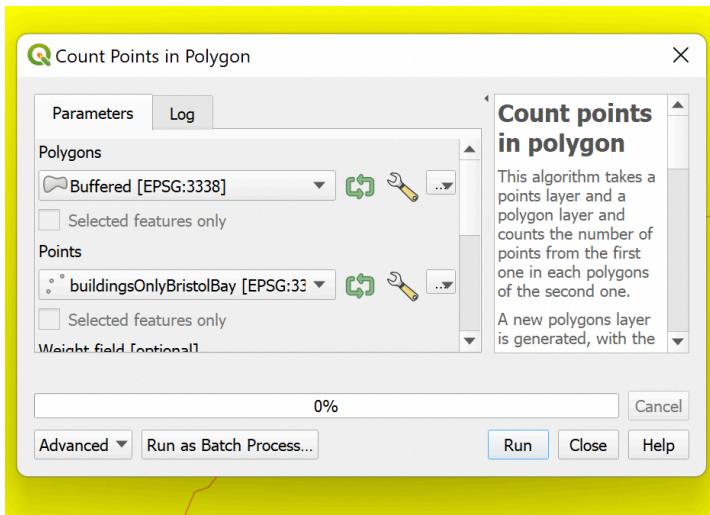
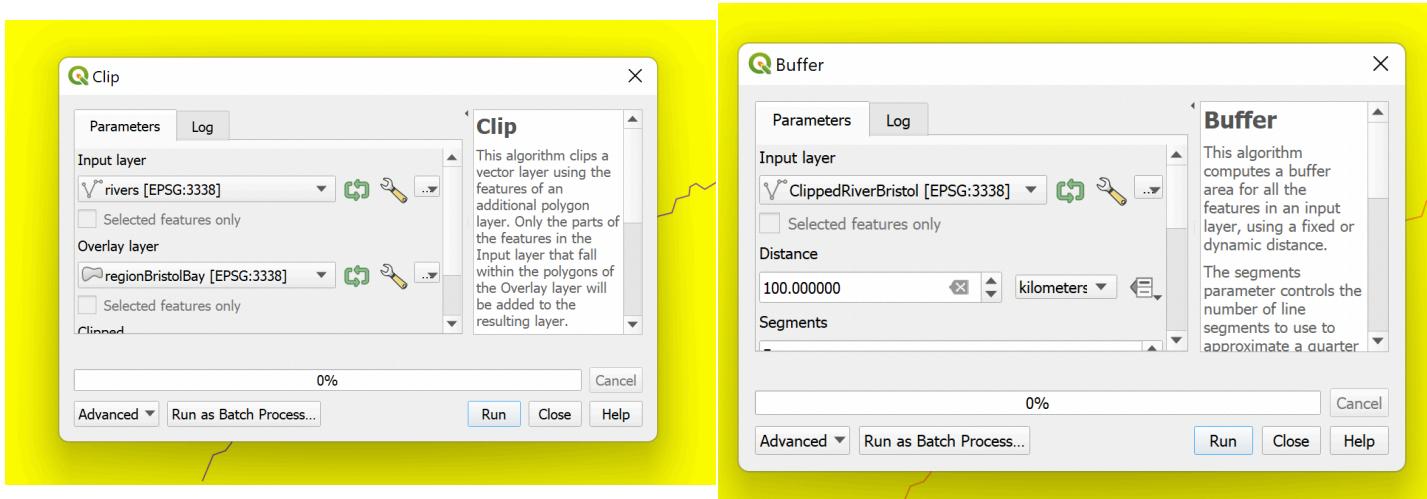
- Clipped
- Clipped
- buildingsOnlyBristolBay
- ✓ ● Clipped
- popp
- regionBristolBay
- ✓ ■ regions
- airports
- railroads
- region_cw3

Statistics

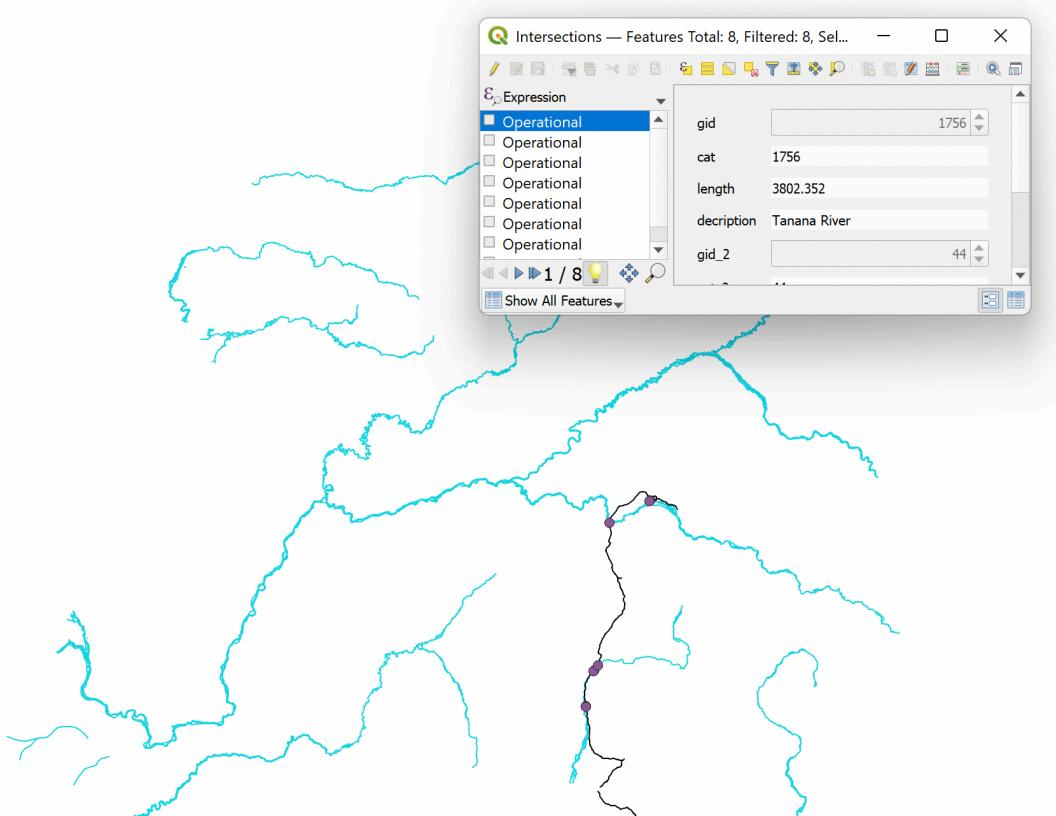
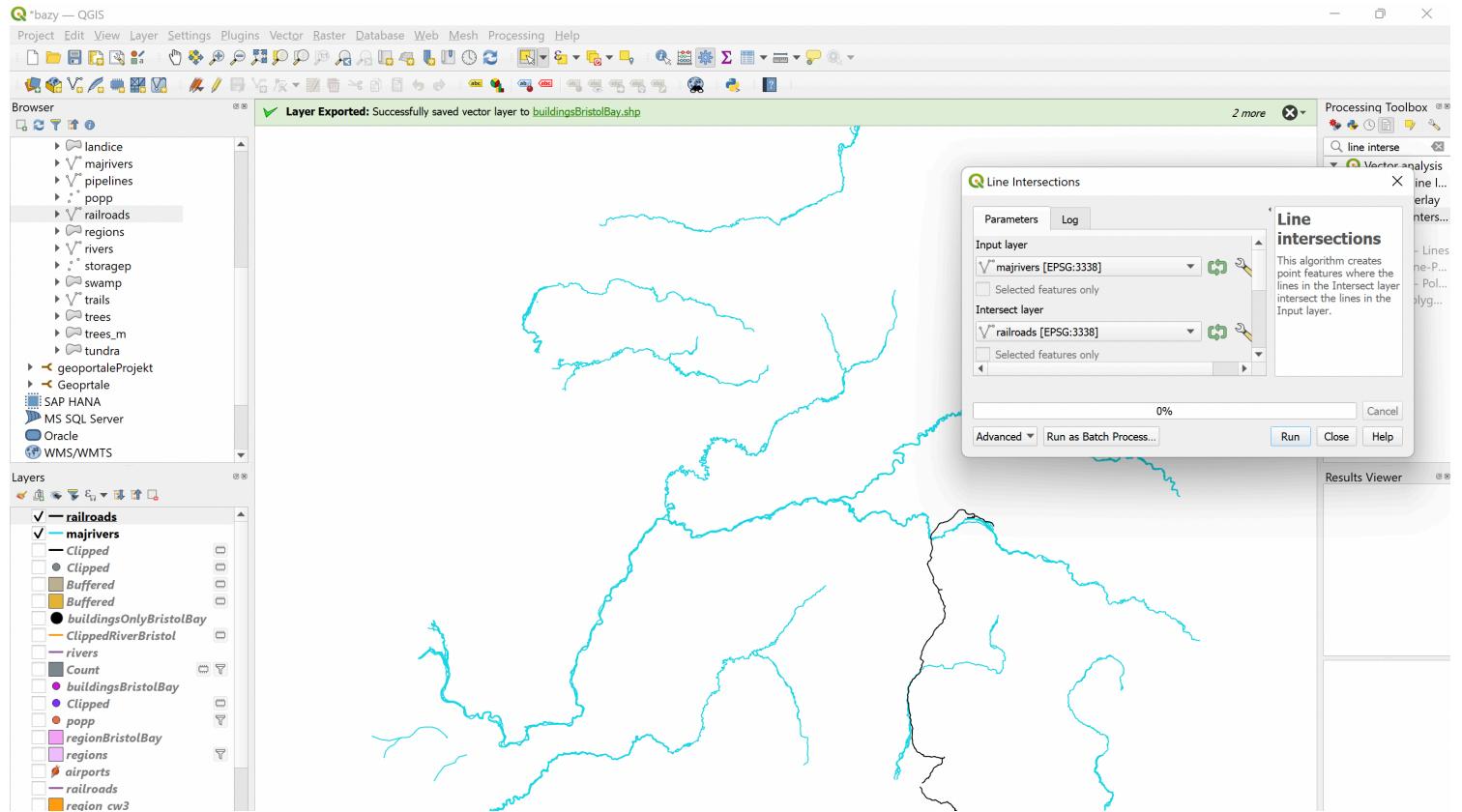
| Clipped | |
|-----------------|---------|
| Count | 5 |
| Sum | 7530 |
| Mean | 1506 |
| Median | 1505 |
| St dev (pop) | 3.89872 |
| St dev (sample) | 4.3589 |
| Minimum | 1501 |



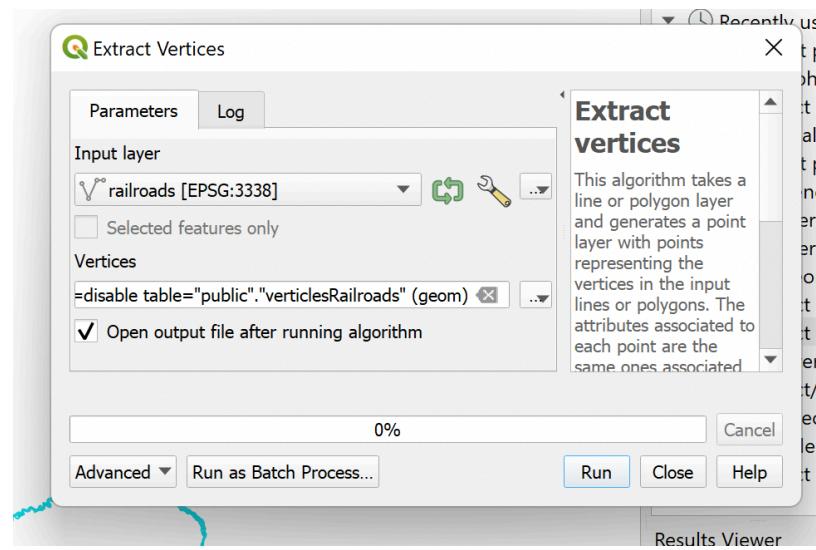
zad.6



zad.7



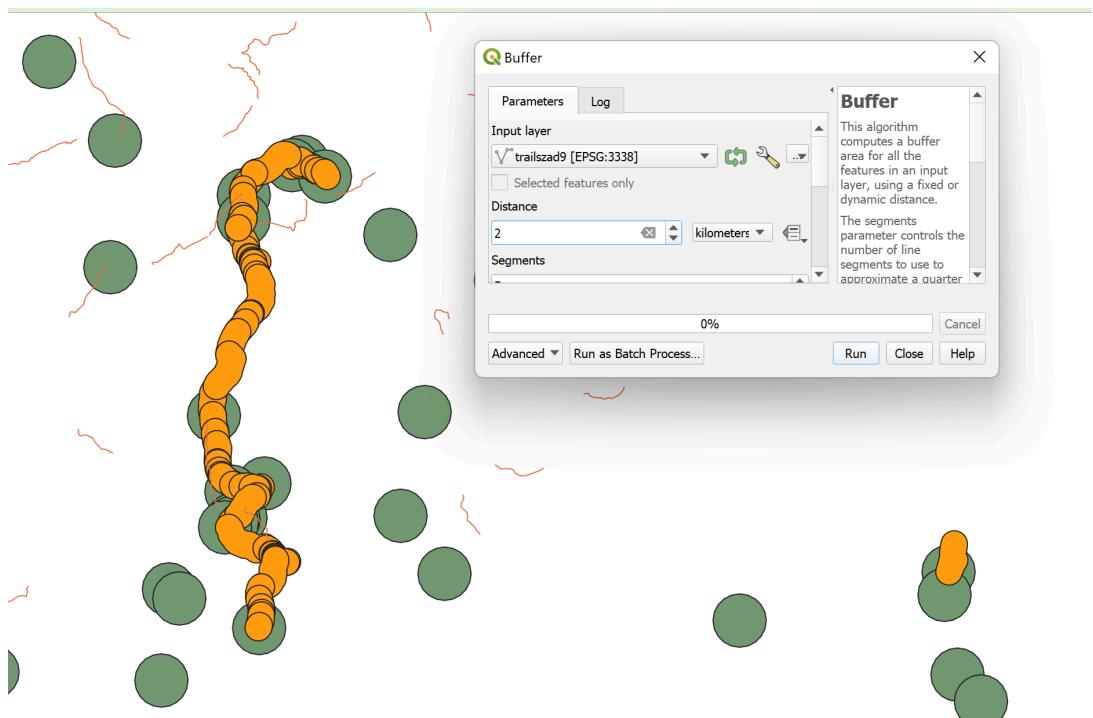
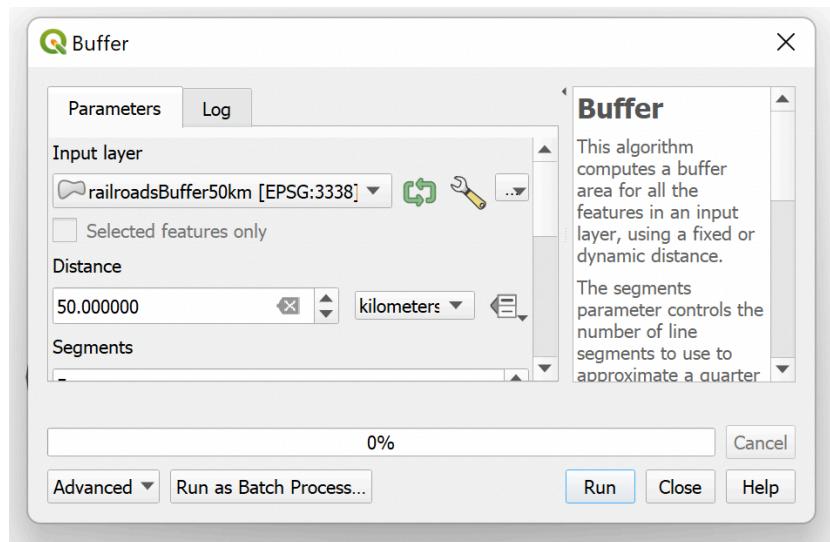
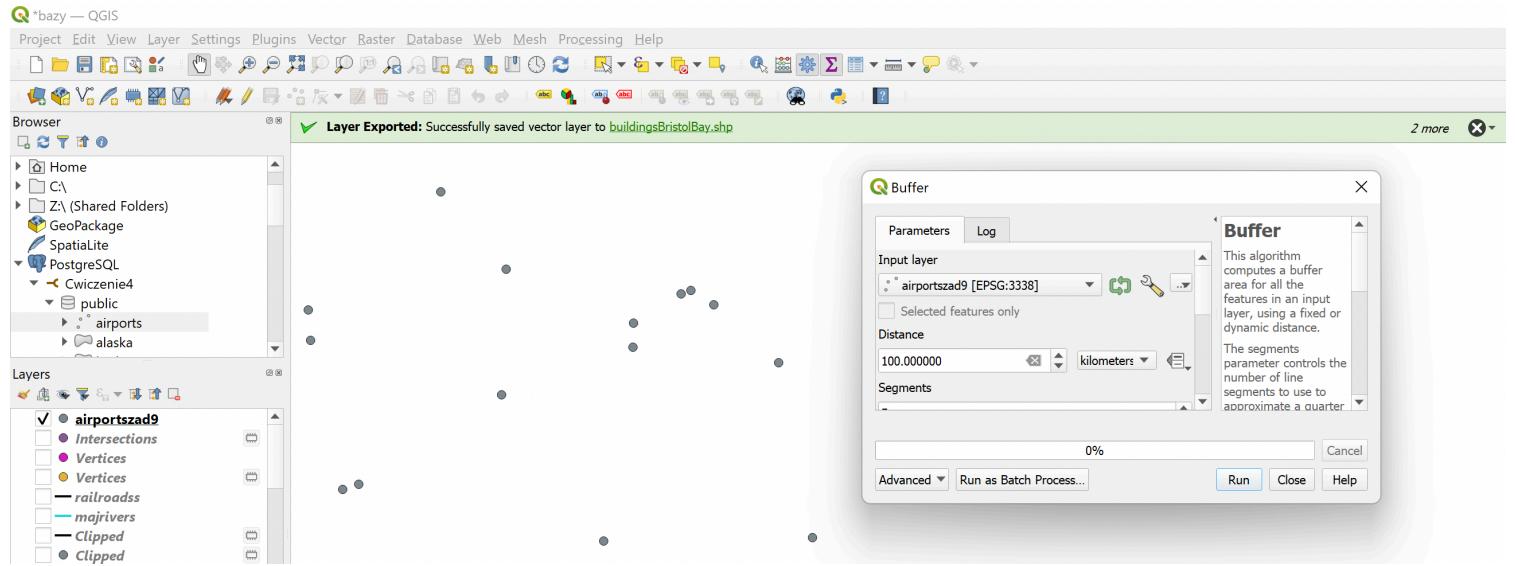
zad.8

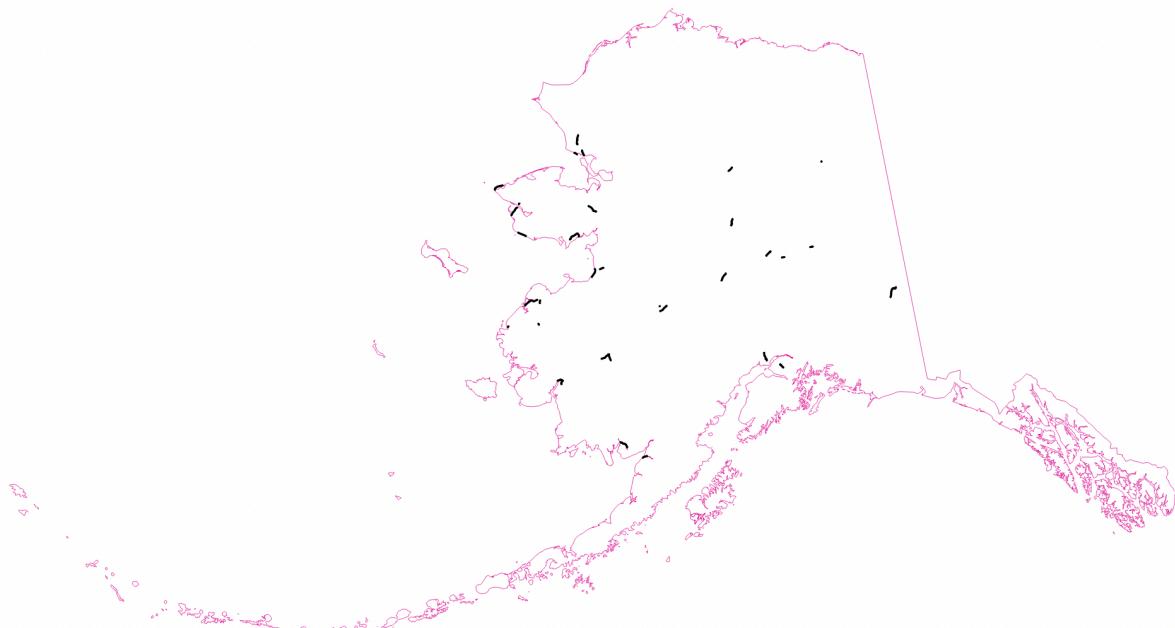
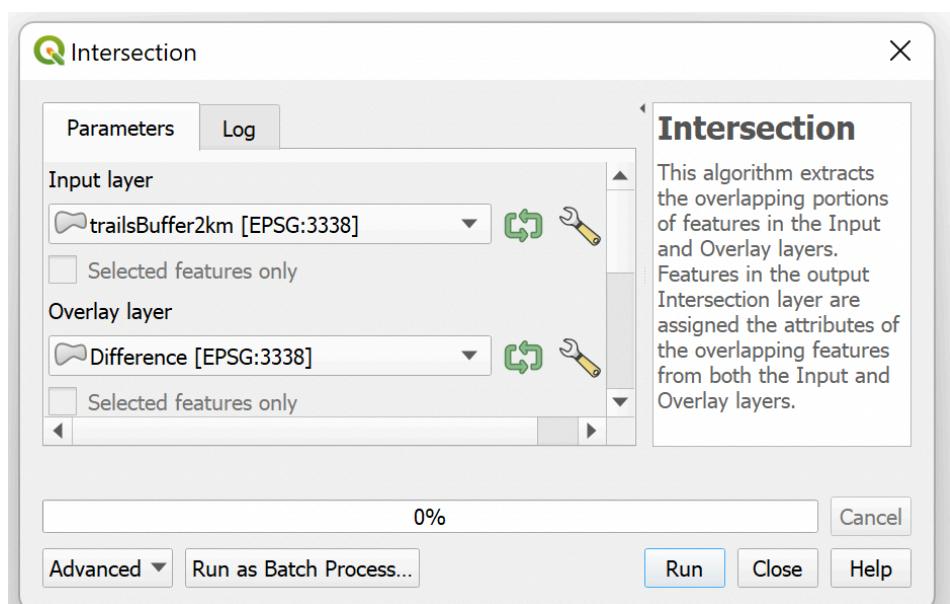
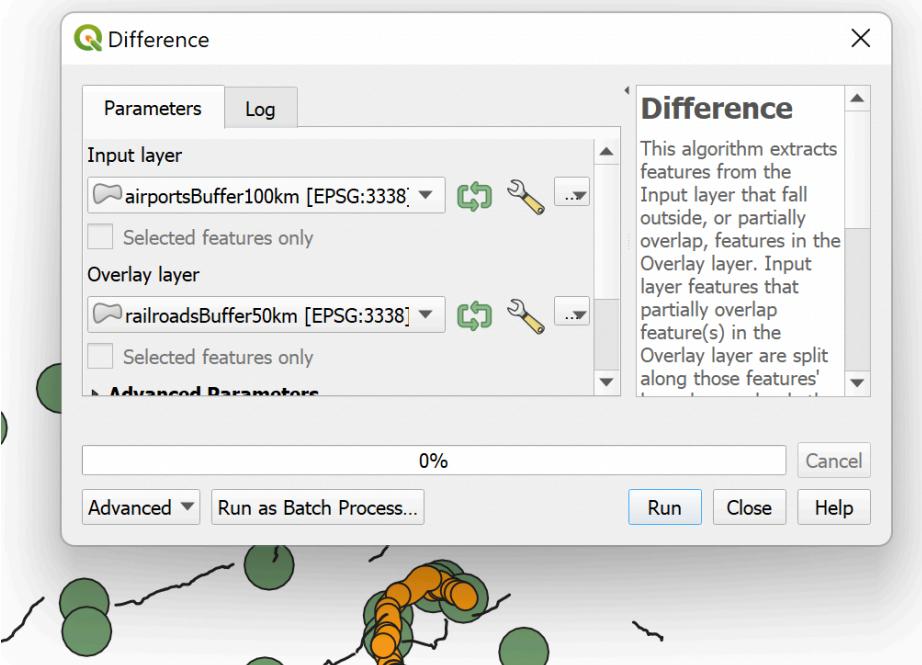


The main QGIS window displays the results of the 'Extract Vertices' process. The 'Layers' panel shows a new vector layer named 'Vertices' (purple line). The map canvas shows a complex, jagged purple line representing the extracted vertices of the railroad network. The 'Statistics' panel provides the following data for the 'Vertices' layer:

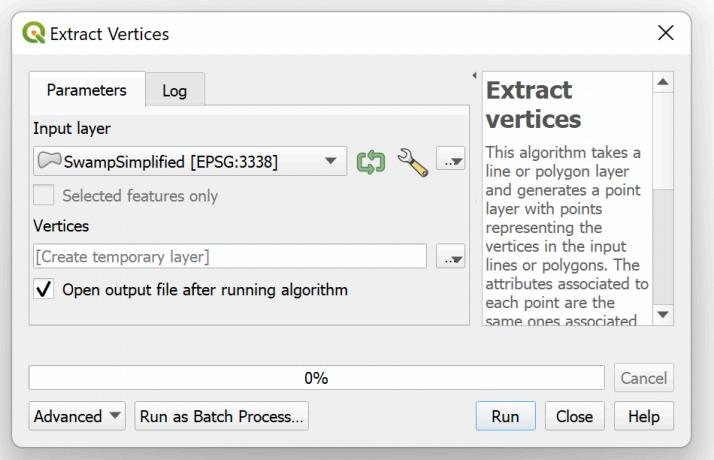
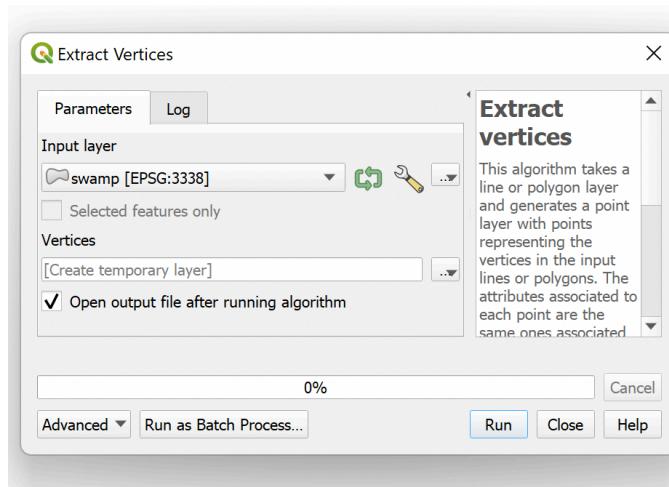
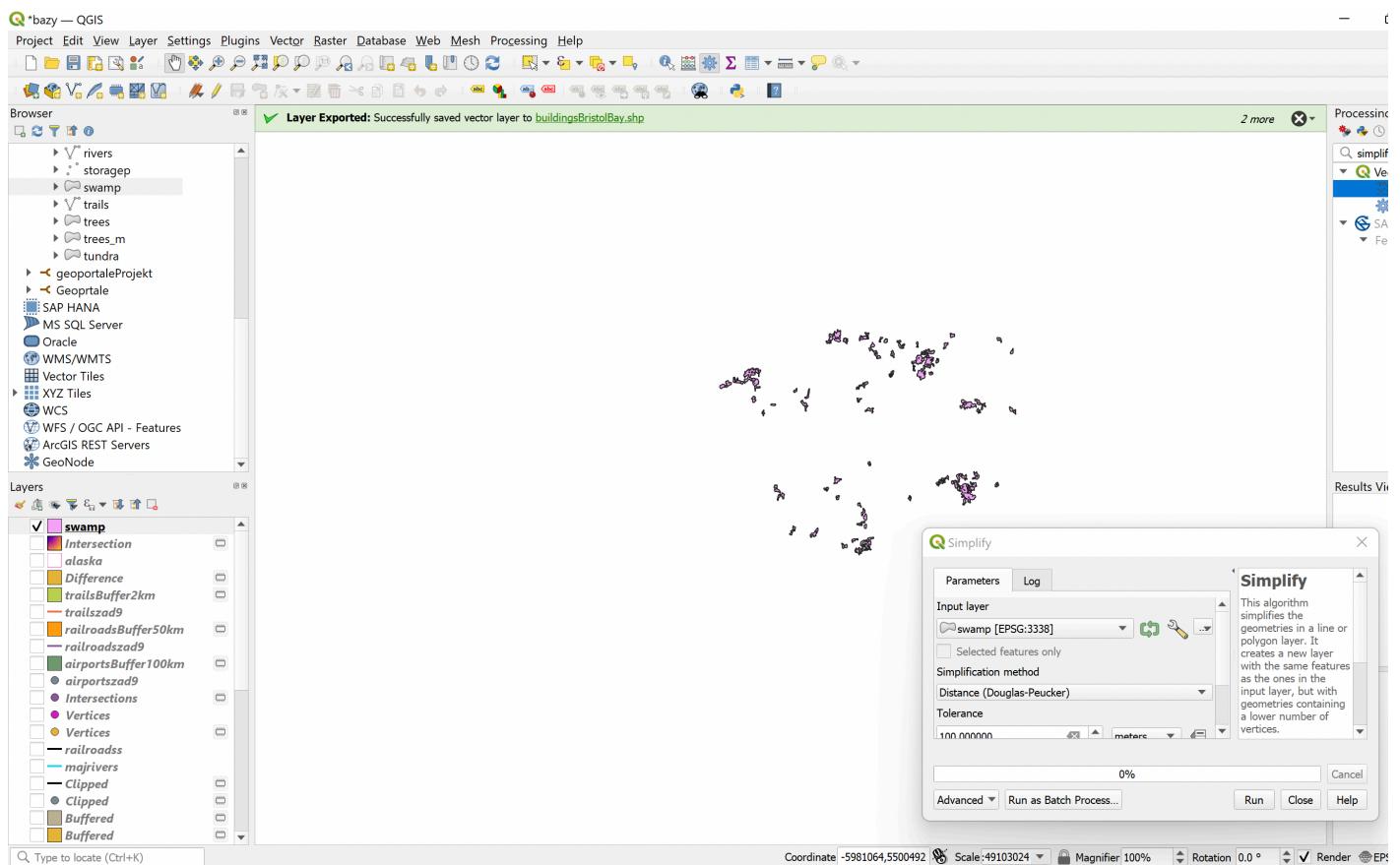
| Statistic | Value |
|-----------------|---------|
| Count | 662 |
| Sum | 31229 |
| Mean | 47.1737 |
| Median | 51 |
| St dev (pop) | 24.7513 |
| St dev (sample) | 24.77 |

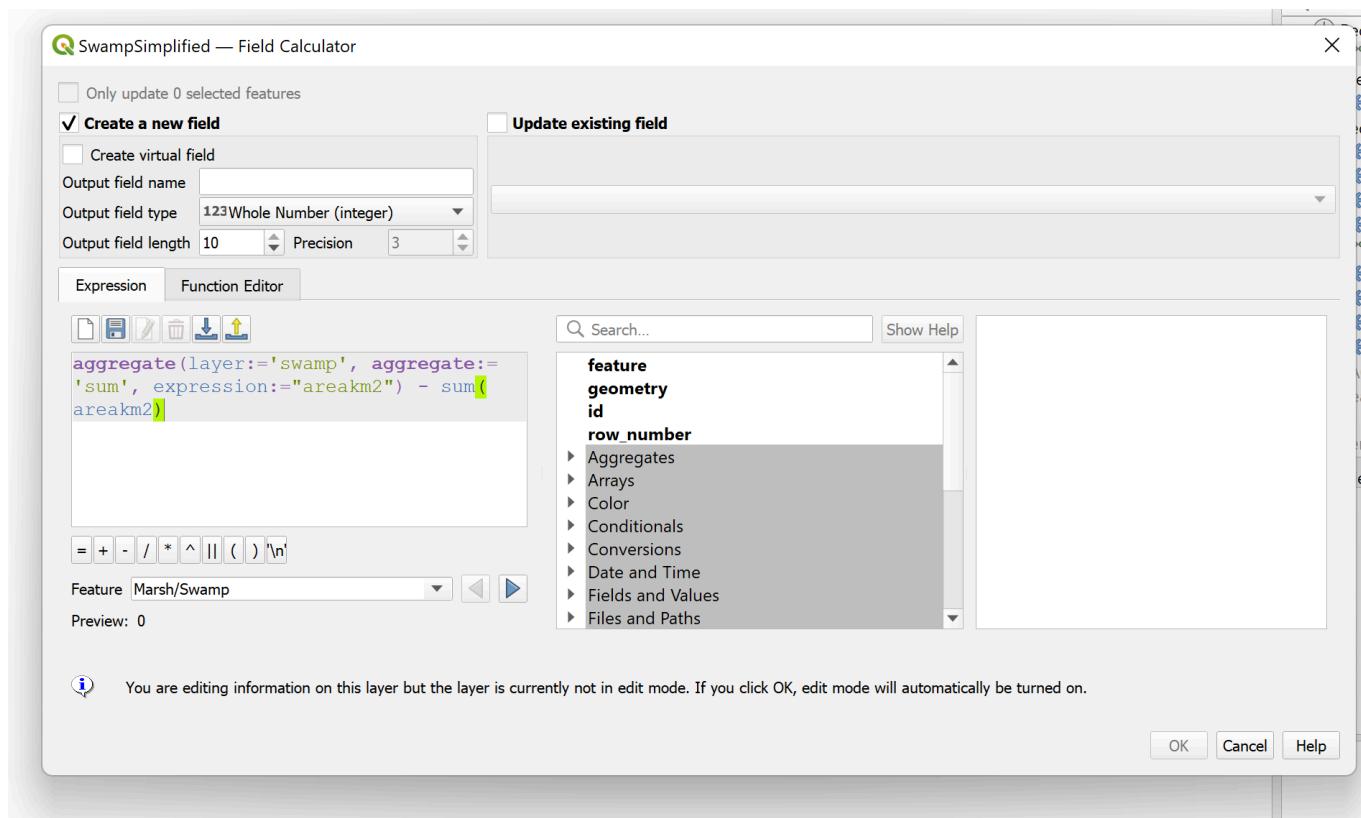
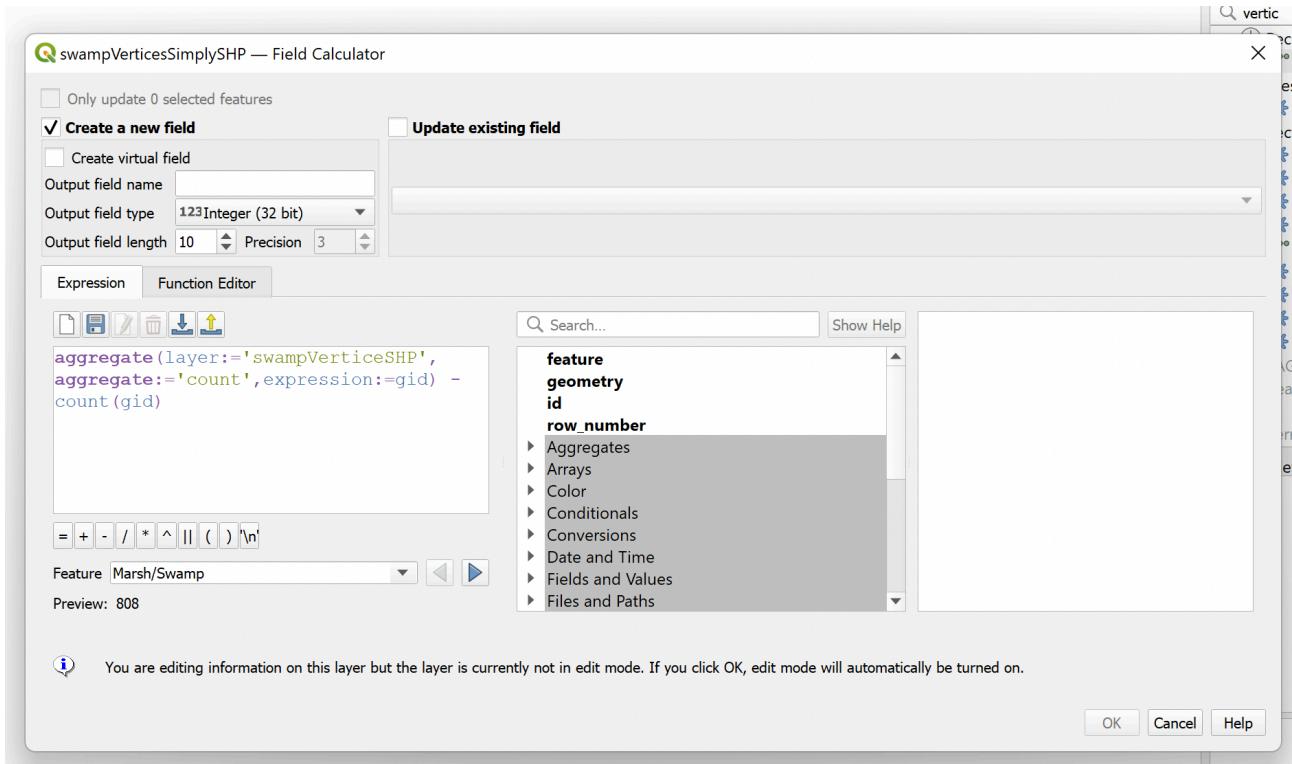
zad.9





zad.10





Powierzchnia nie zmieniła się.

