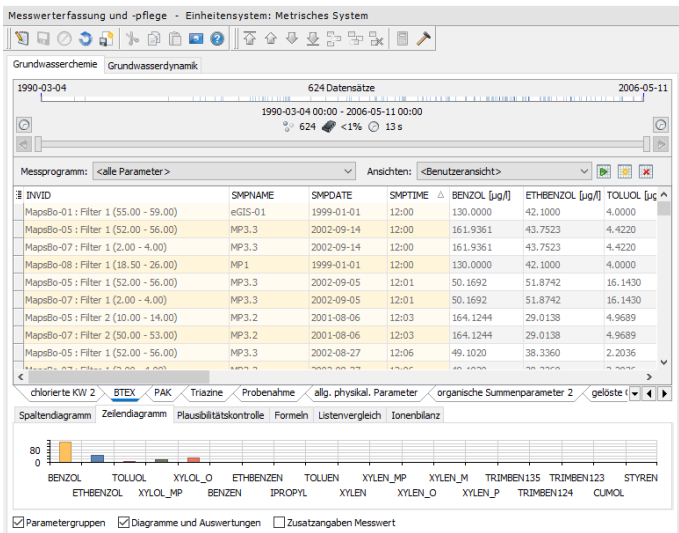




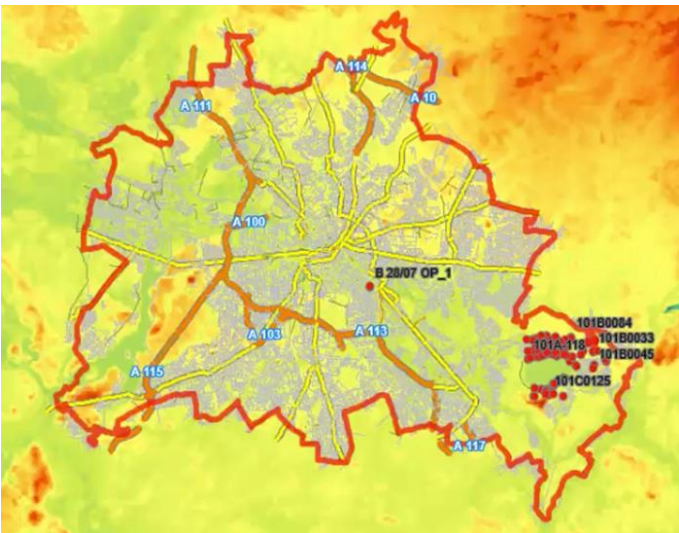
GeODin 9 – What's new?

GeODin 9 Feature overview

Data collection




Maps & layouts






More features

Name	Ergebnisse	ID	Barcode	Foto
P1		12340001		
P2		12340002		
P3	Betonangriffsgrad, einachsige Druckfestigkeit des gestörten Bodens, Porenanteil bei lockerster Lagerung, Wassergehalt an der Ausrollgrenze	12340003		
P4				

Go to object

Active methods: 

Location (52 of 52 objects) - CPT 108 (Born to Run - 9IG2U7)

Views: New in GeODin 9   

Drag a column header to move it to another column.

Full location name ▾	Ground level [m]	End depth [m]	Local Easting [m]	Local Northing [m]	Report No.	EPSG Code	Investigation method
CPT 116	-17,1	15,9	383617,8	4496096,6	LA1234	WGS 84 / UTM zone 14N	Cone penetration testing
CPT 115	-17,2	15,8	383564,2	4496038,5	LA1234	WGS 84 / UTM zone 14N	Cone penetration testing
CPT 112	-17,0	20,0	383502,4	4496160,9	LA1234	WGS 84 / UTM zone 14N	Cone penetration testing
CPT 111	-17,0	19,0	383499,1	4496189,7	LA1234	WGS 84 / UTM zone 14N	Cone penetration testing
CPT 109	-17,2	17,8	383431,3	4496102,7	LA1234	WGS 84 / UTM zone 14N	Cone penetration testing
▶ CPT 108	-17,2	9,0	383393,2	4496164,6	LA1234	WGS 84 / UTM zone 14N	Cone penetration testing
CPT 107	-17,1	20,0	383393,2	4496164,6	LA1234	WGS 84 / UTM zone 14N	Cone penetration testing

This function takes the currently selected object in the grid view and opens its' detailed data collection masks in the data management method.

Hide/show all columns

Active methods:

Location (52 of 52 objects) - BH 122 (Born to Run - 9IG2U7)

Views: New in GeODin 9

Drag a column header here to group by that column.

Full location name ▾	Ground level [m]	End depth [m]	Local Easting [m]	Local Northing [m]	Report No.	EPSG Code	Investigation method
Show all columns		15,9	383617,8	4496096,6	LA1234	WGS 84 / UTM zone 14N	Cone penetration testing
Hide all columns		15,8	383564,2	4496038,5	LA1234	WGS 84 / UTM zone 14N	Cone penetration testing
CPT 112	-17,0	20,0	383502,4	4496160,9	LA1234	WGS 84 / UTM zone 14N	Cone penetration testing
CPT 111	-17,0	19,0	383499,1	4496189,7	LA1234	WGS 84 / UTM zone 14N	Cone penetration testing
CPT 109	-17,2	17,8	383431,3	4496102,7	LA1234	WGS 84 / UTM zone 14N	Cone penetration testing
CPT 108	-17,2	9,0	383393,2	4496164,6	LA1234	WGS 84 / UTM zone 14N	Cone penetration testing
CPT 107	-17,1	20,0	383393,2	4496164,6	LA1234	WGS 84 / UTM zone 14N	Cone penetration testing
CPT 105	-17,8	16,2	382382,6	4496008,1	LA1234	WGS 84 / UTM zone 14N	Cone penetration testing
CPT 104	-19,6	13,9	382284,7	4496025,5	LA1234	WGS 84 / UTM zone 14N	Cone penetration testing
CPT 103	-17,8	12,1	382372,0	4496143,8	LA1234	WGS 84 / UTM zone 14N	Cone penetration testing

Right-clicking allows users to select/de-select every column in the grid view.

Create object group

Active methods:

Location (52 of 3 objects) - BH 101 (Born to Run - 9IG2U7)

Views: New in GeODin 9

Drag a column header here to group by that column.

Full location name	Location description	Ground level [m]	End depth [m]	Local Easting [m]	Local Northing [m]	Report No.	EPSG Code	Investigation method
BH 101	Area Storage	-18,3	30,0	382455,1	4495999,8	LA1234	WGS 84 / UTM zone 14N	Rotary borehole drilling and sampling
BH 102Pz	Area Storage	-18,0	20,0	382294,7	4496155,5	LA1234	WGS 84 / UTM zone 14N	Rotary borehole drilling and sampling
BH 103Pz	Area Storage	-17,5	21,0	382408,3	4496132,6	LA1234	WGS 84 / UTM zone 14N	Rotary borehole drilling and sampling
BH 104	Area Storage	-18,3	40,9	382344,6	4496112,3	LA1234	WGS 84 / UTM zone 14N	Rotary borehole drilling and sampling
BH 105	Area Storage	-20,1	40,0	382338,3	4496071,4	LA1234	WGS 84 / UTM zone 14N	Rotary borehole drilling and sampling
BH 106	Area Storage	-19,2	40,0	382327,6	4496007,1	LA1234	WGS 84 / UTM zone 14N	Rotary borehole drilling and sampling
BH 107	Area Storage	-17,8	15,0	382371,1	4496117,4	LA1234	WGS 84 / UTM zone 14N	Rotary borehole drilling and sampling
BH 108	Area Storage	-19,6	15,0	382357,0	4496068,5	LA1234	WGS 84 / UTM zone 14N	Rotary borehole drilling and sampling
BH 109	Area Storage	-17,8	15,0	382353,2	4495995,6	LA1234	WGS 84 / UTM zone 14N	Rotary borehole drilling and sampling

Create object group

A new object group will be created with the currently shown objects.


Group name:


Location description = Area Storage and Investigation method = Rotary borehole drilling and sampling

Help OK Cancel

☒ (Location description = Area Storage) and (Investigation method = Rotary borehole drilling and sampling) Customize...

Import general data

 Import general data

 Choose the appropriate settings for the import. The preview shows you the data records in the manner that they will be added or updated by the import. Move the mouse over the data records and cells to obtain further information. Use the 'Perform import' button to start the import.

Data source

Parameter links

Import

Import

Preview filter: Data records with errors

☒ Show legend

Name of borehole	Borehole number / Shortname	Easting	Northing	Ground surface elevation [m]	End depth [m]	Drilling company	Client	Borehole type
GeODin Bohrung EN ISO 22475-Bhrg01	22475-11-B01	513655	5404300	248,6	32	Tief Bohren GmbH	Fugro Germany Land GmbH	drilling, general
GeODin Bohrung EN ISO 22475-Bhrg02	22475-11-B02	3516134,25	5404515,5	315,25	10	Tief Bohren GmbH	Fugro Germany Land GmbH	drilling, general
GeODin Bohrung EN ISO 22475-Bhrg03	22475-11-B03	3511334,5	5406210	365,75	10	Tief Bohren GmbH	Fugro Germany Land GmbH	drilling, general
GeODin Bohrung EN ISO 22475-Bhrg04	22475-11-B04	3515324	5403411	402,65	10	Tief Bohren GmbH	Fugro Germany Land GmbH	drilling, general
GeODin Bohrung EN ISO 22475-Bhrg05	22475-11-B05	3515250	5403110,5	445,1	10	Tief Bohren GmbH	Fugro Germany Land GmbH	exposure, general
GeODin Bohrung EN ISO 22475-Bhrg06	22475-11-B06	3515334,25	5406313	255,75	10	Tief Bohren GmbH	Fugro Germany Land GmbH	drilling, general
GeODin Bohrung EN ISO 22475-Bhrg07	22475-11-B07	3516334,25	5407313	212,45	10	Tief Bohren GmbH	Fugro Germany Land GmbH	drilling, general
GeODin Bohrung EN ISO 22475-Bhrg08	22475-11-B08	3515834,75	5408210	220,25	20	Tief Bohren GmbH	Fugro Germany Land GmbH	drilling, general
GeODin Bohrung EN ISO 22475-Bhrg09	22475-11-B09	3515834,75	5407210	220	20	Tief Bohren GmbH	Fugro Germany Land GmbH	drilling, general
GeODin Bohrung EN ISO 22475-Bhrg10	22475-11-B10	3515834,5	5404210,5	350,5	40	Tief Bohren GmbH	Fugro Germany Land GmbH	exposure, general

☐ Contents will not be imported

☒ Existing database contents will be preserved

☒ New content will be imported

☐ Existing database contents will be replaced

☐ Incorrect data field contents will not be imported

☐ Incorrect data field contents must be supplemented later

☐ Calculated data field contents

Data record options

☒ Add data records

☐ Search and refresh existing data records

☒ Replace data record contents

☐ Supplement missing data record contents

Field options

☐ Round numerical values to match the target for

☐ Shorten overlong texts

☐ Ignore plausibility

Summary/Execution

New data records: 10

Data records updated: 0

Data records not updated: 0

Data records not imported: 0

☐ Show detailed protocol

Protocol preview

Perform import

Load configuration


Save configuration

Help

Close

Update data sequences

Update data sequences

**Update data sequences**
Use this method to import or update data sequences for existing objects. Choose the files to import and define the link to the relevant objects. The name of an import file must match the content of a data field of the object.

What kind of files do you wish to import?

Chosen files

Entire folder

Choice: not selected

Object link

Long field name	Field name
EPSG Code	EPSG
Full location name	LONGNAME
GeODinGUID	GEODINGUID
Geographic zoning	GEOGRZONE
Geological map	GEOLMAP
Height level datum	ZDATUM
Input unit	INPUTUNIT
Investigation method	INVMETHOD
Latitude North-South	LATIT_NS
Latitude WGS84 North-South	LATWGS84D

Check object links

☒ Overwrite existing data sequences

☐ Keep existing data sequences

Import filter

Caliper Test	SFLT0005	
CPT (Con., Reib., PW-Druck, G-Kr., R-V)	CPT5PARA	
CPT (Conus, Reibung, PW-Druck, R-V)	CPT4PARA	
FOSAE	SFLT0004	
ROST ASCII-data	ROSTSOND	
SOCAR	SFLT0001	
UNIPILOT data with parameter description	DUNIPILOT	
Wallingford	SFLT0002	
Wallingford2	SFLT0003	


Reduction factor: 1

Help



Import






Close

Add objects with multiple layer descriptions









 **Add objects from other projects.**
This feature transfers existing objects to your current project. Use drag + drop to select and move objects, queries and groups from the GeODin Object Manager to the list.

Object list:














-  BH 205
-  BH 206

 Without measurement values or document data  With measurement values
 With measurement values and document data  With document data
 The object already exists in the database.

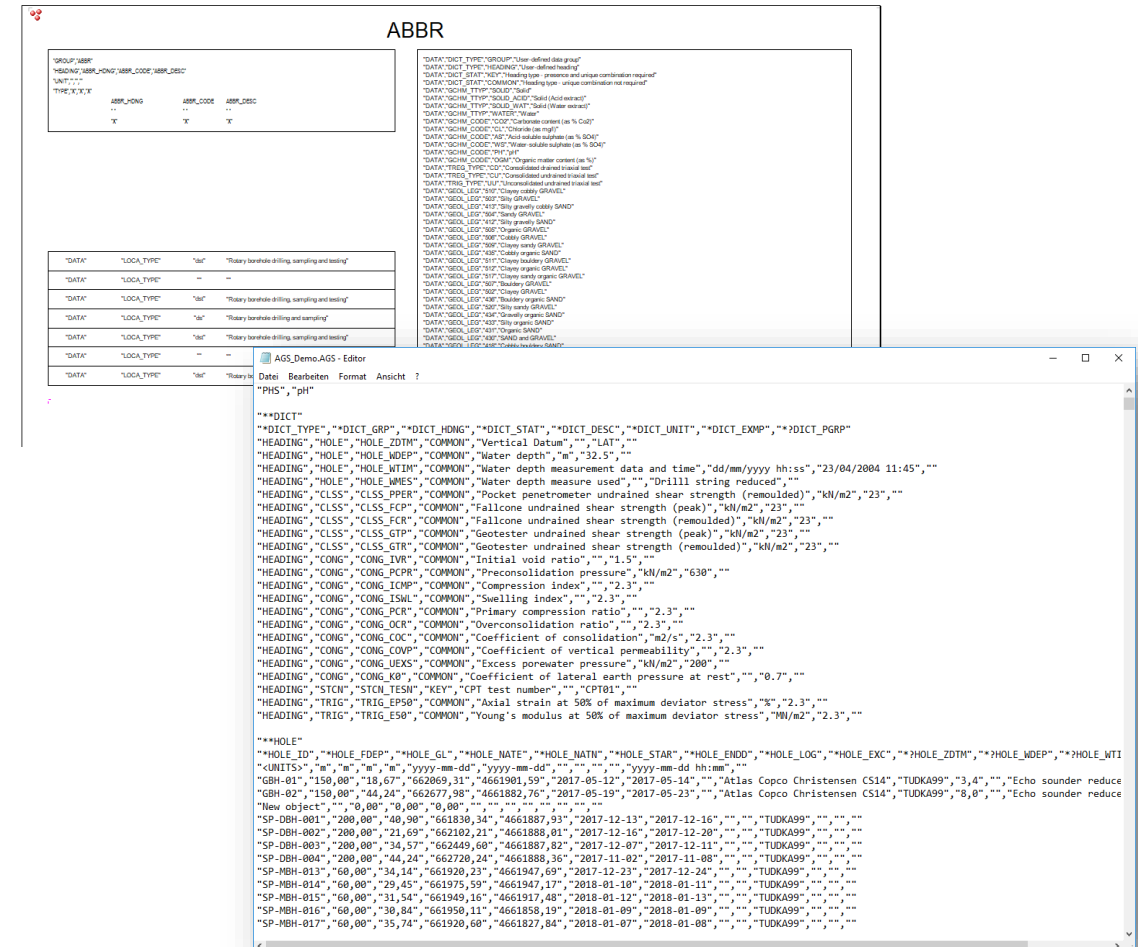
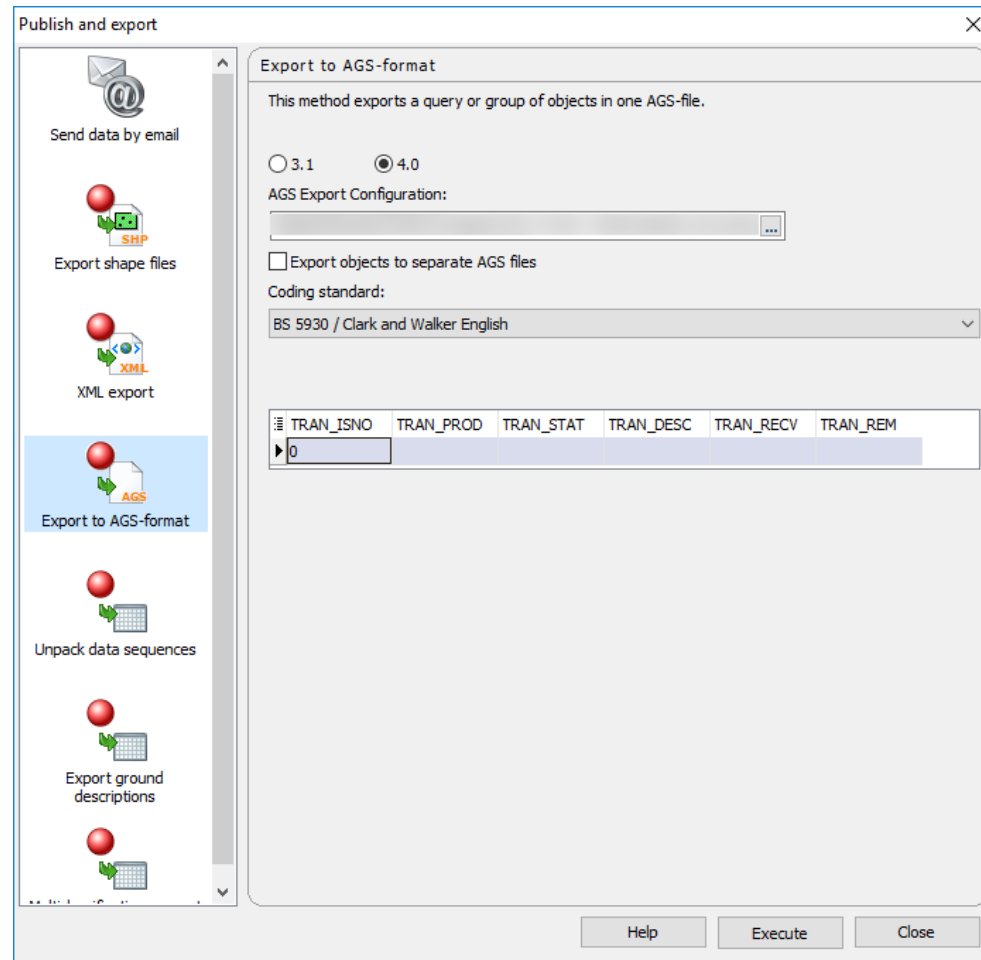
Preferences:

-  Method
 -   Copy
 -   Move
-  Include data
 - ☒  Measurement values
 - ☒  Documents

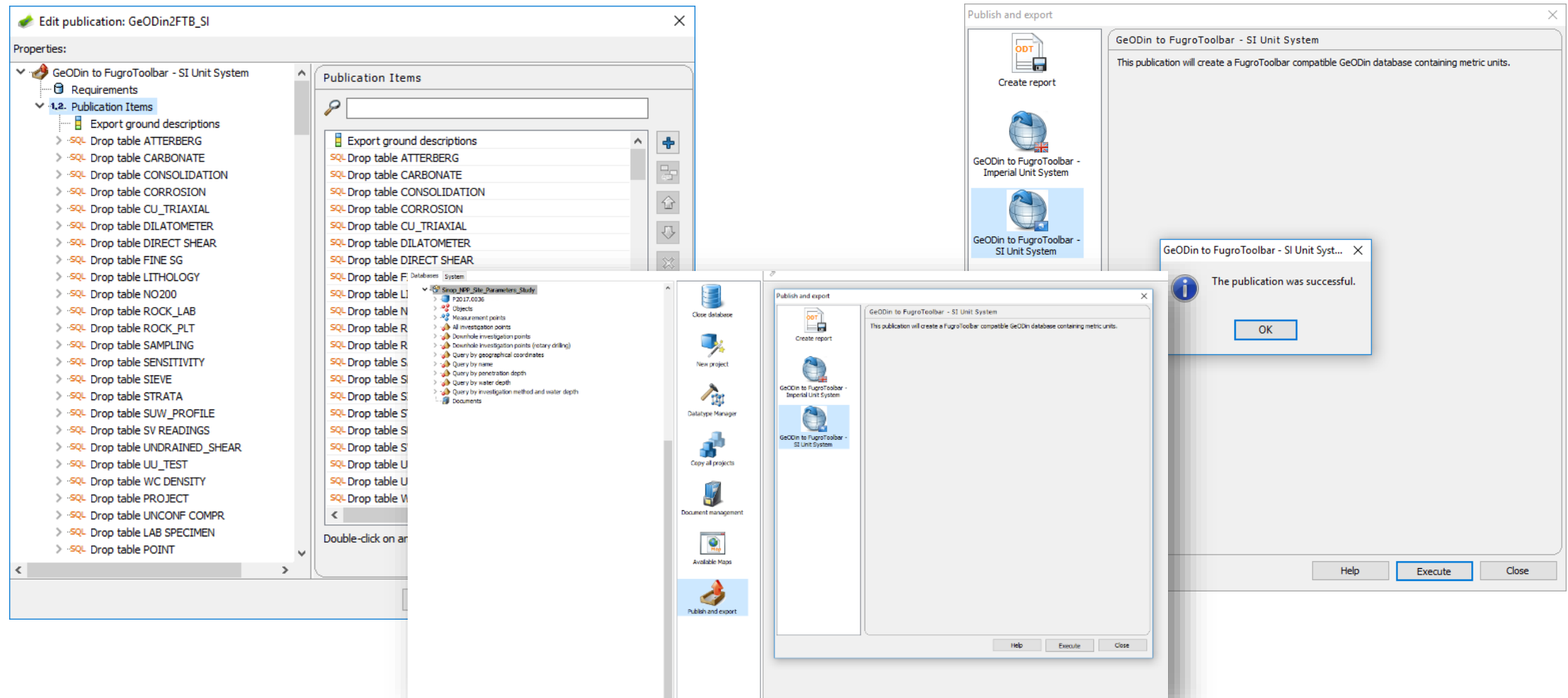
Help OK Cancel

-   Method
 -   Copy
 -   Move
-   Include data
 - ☒  Measurement values
 - ☒  Documents
 - ☒  Layer data
 - ☒  Ersterfassung
 - ☒  Generalisiertes Kurzprofil

Publications



Publications



Further improvements

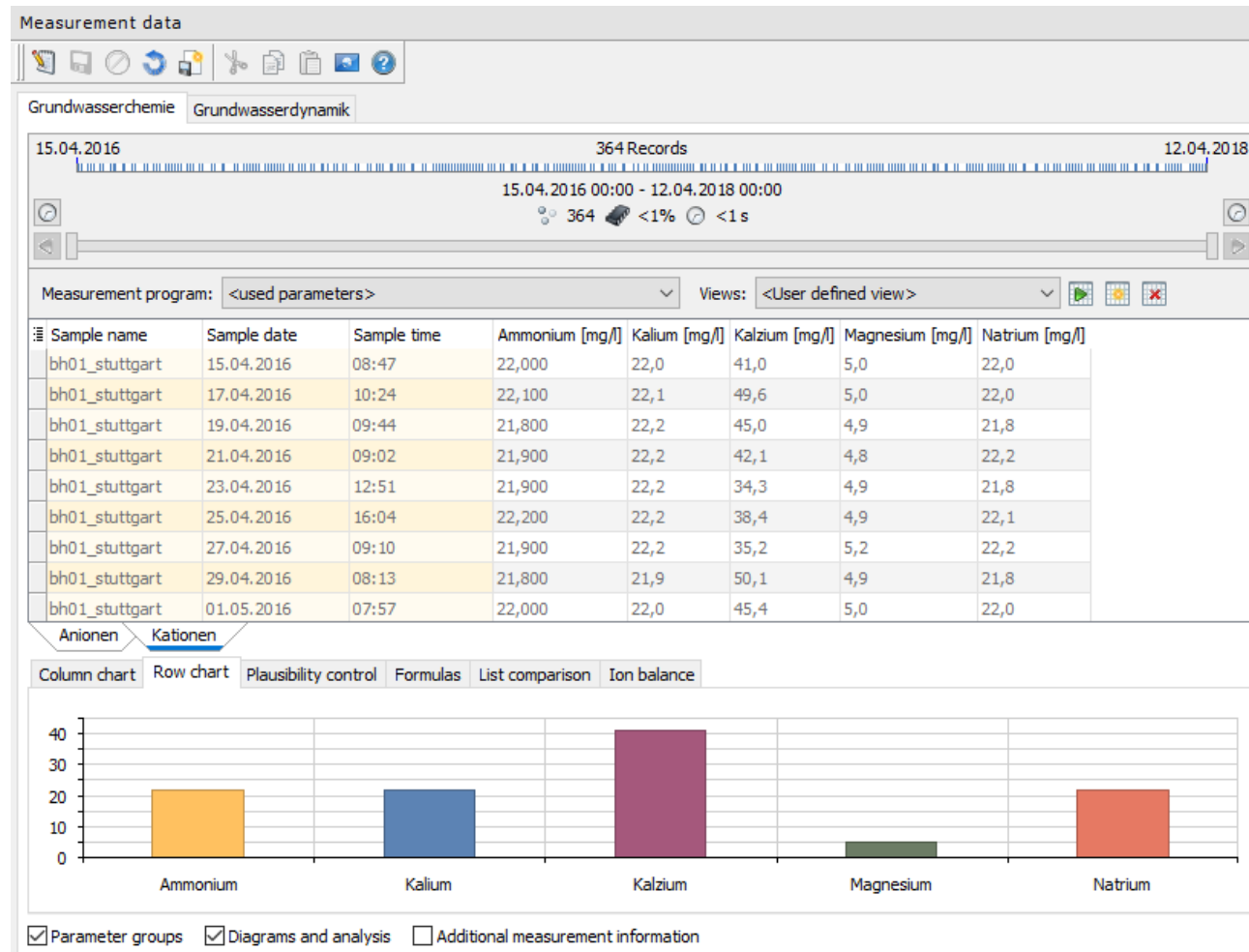
Memory optimization

- Memory requirement optimization for the general data grid.
- Significantly more objects can be loaded from a query/group than before. Depending on the object type and the scope of the general data, the quantity has been increased at least x10.

Importing object groups

- Create object groups in the GeODin Object Manager based on import file specifications.
- Information in the import file (e.g. name, coordinates etc.) is compared with the data in the database, and suitable data records are then inserted into the newly created group.

Time range controller



Unit conversion

Parameter

Benzen [BENZEN]

Database

Parameter name: Benzen ✓ Short name: BENZEN ✓

Type: Double ☐ Allow negative values

Default value:

Unit of measurement

Database unit: µg/l ? ✓

Decimal places: 4

Allowed number of places before the decimal point: 7

Display units:

Display unit	Decimal places	Default value
lb/in³	4	

Unit system correlation:

Unit system	Unit
Metric	Database
US customary	lb/in³

Special settings

Options

- ☐ Offset
- ☐ Required
- ☐ Read only
- ☐ Scientific notation
- ☐ Use last value
- ☐ Fixed column
- ☐ Log changes deactivated

Dictionary: <not selected>

Dictionary entry:

Additional properties:

Comment:

Help OK Cancel

Formatting numerical values (1)

@.2	Defining the number of decimal places		
\$Datafield\$	-> 8.23	\$Datafield@.1\$	-> 8.2
@cutdec	Defining the number of significant decimal places		
\$Datafield\$	-> 3.000	\$Datafield@cutdec\$	-> 3
@ds.	Defining the decimal separator		
\$Datafield\$	-> 8.23	\$Datafield@ds.\$	-> 8.23
@e	Presentation in scientific notation		
\$Datafield\$	-> 112.20	\$Datafield@e\$	-> 1.122E+2
@a	Recalcuation of borehole starting elevation		
\$Datafield\$ (with ZCOORDB = 10)	-> 1.50	\$Datafield@a\$	-> 8.50

Formatting numerical values (2)

@p	Always show data field as a positive value, even if negative in the database		
\$Datafield\$	-> -8.23	\$Datafield@p\$	-> 8.23
@+	Add a + sign if a value is positive or zero		
\$Datafield\$	-> 8.23	\$Datafield@+\$	-> +8.23
@*Faktor	Multiply the datafield content with a factor		
\$Datafield\$	-> 8.23	\$Datafield@*2\$	-> 16.46
@grd	Transform decimal degrees to degrees minutes and seconds		
\$Datafield\$	-> 123.456377	\$Datafield@grd\$	-> 123°27'22".9572
Combination:			
\$Datafield\$	-> 8.23	\$Datafield@.1+ds.\$	-> +8.2

Extending the formula syntax

Calc INVLENGTH from INVZBEG

Name:
Calc INVLENGTH from INVZBEG

Ziel:
Recovery[INVLENGTH] cm

Auslösender Parameter (Ereignisfeld):
From[INVZBEG]

Bedingung:

Formel:
 $(\$INVZEND\$ - \$INVZBEG\$) * 100$

Optionen

☒ Formel aktiv

☒ Zielfeld immer überschreiben

Drag a column header here to group by that column.

	From [m]	To [m]	Recovery [cm]
	0,00	1,00	100
	1,00	1,60	60

Formulae can now be defined that base their calculations on three interlinked data entry fields.

Example: Field 3 uses a formula that is based on values in fields 1 and 2. If the value of field 3 is changed then the values of fields 1 and/or field 2 may also be recalculated.

Highlander plausibility

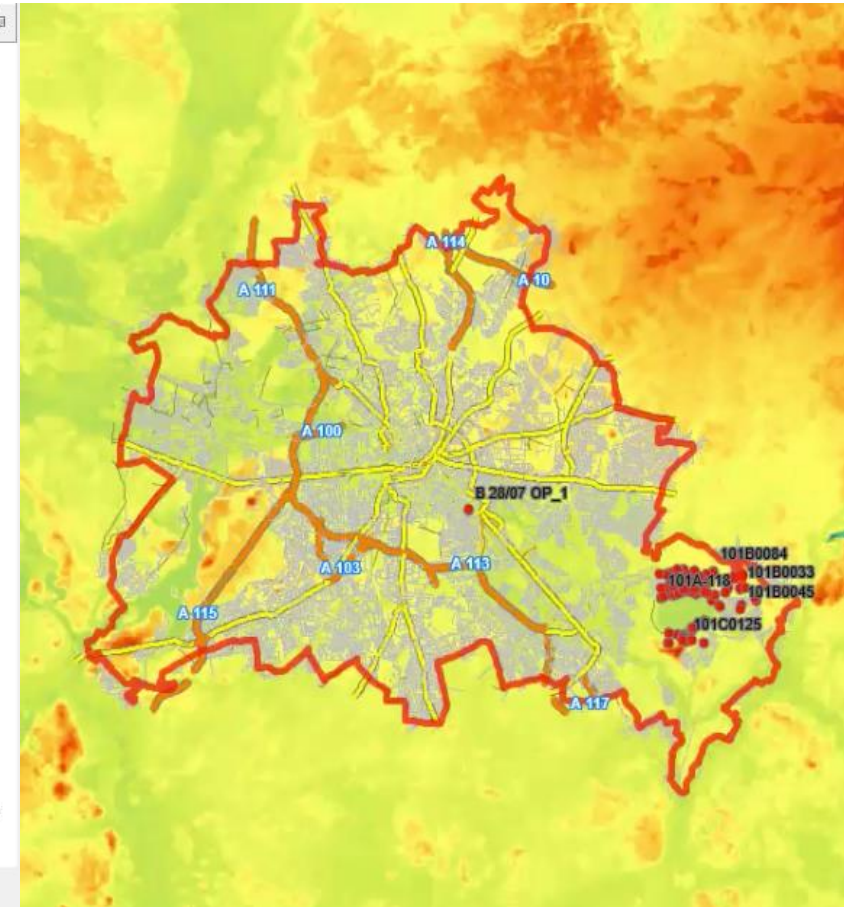
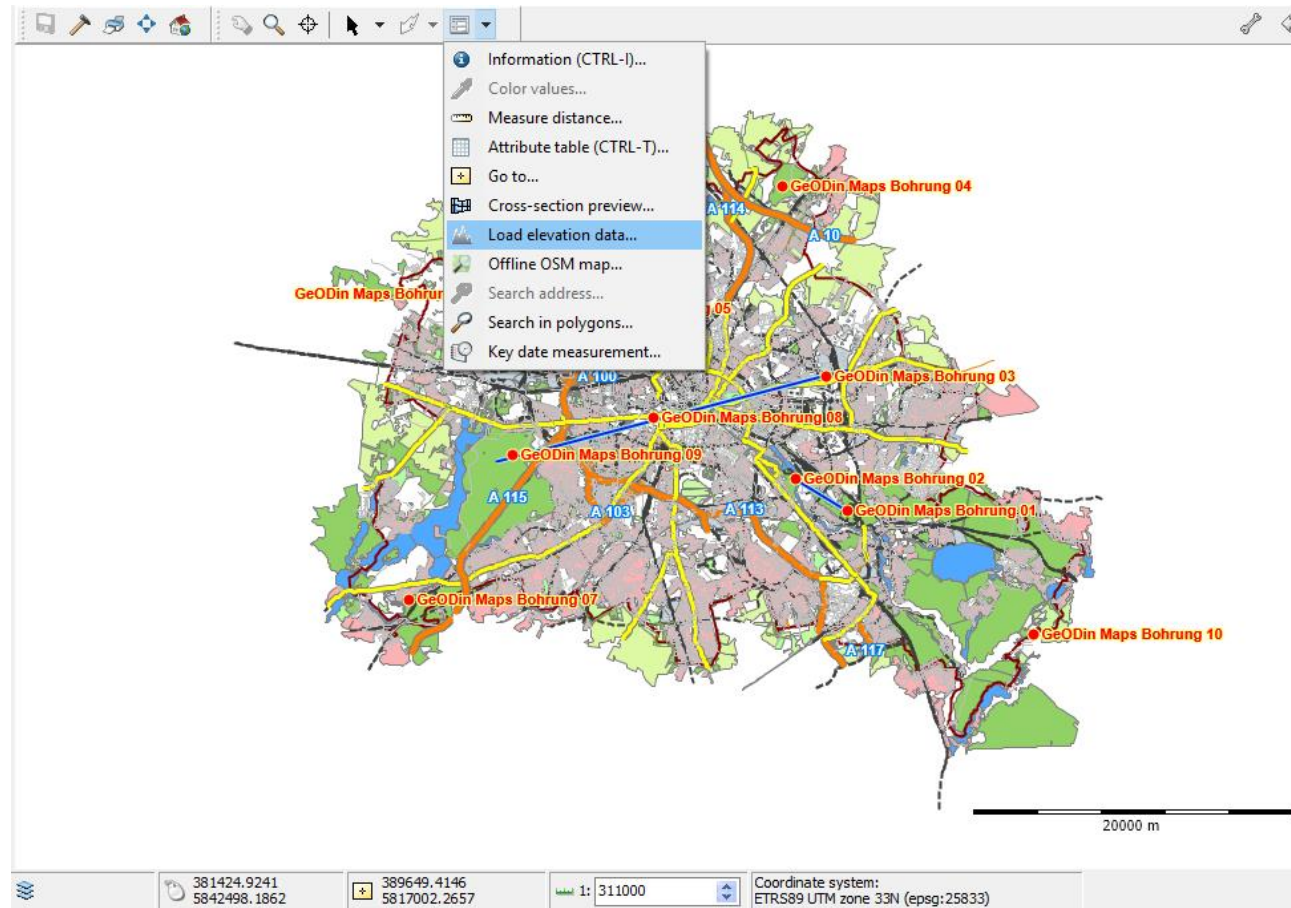
The so-called highlander plausibility* is a new function in the macro-parser for formulae and plausibility which is relevant to the number of data sets.

`$Count>DAT:PARAM$` returns the number of data sets in a data type for the current measurement point. By using a condition the number of data sets can be reduced further:
`$%COND[#PARDICT#=,pb']Count>01P:PARDICT$`

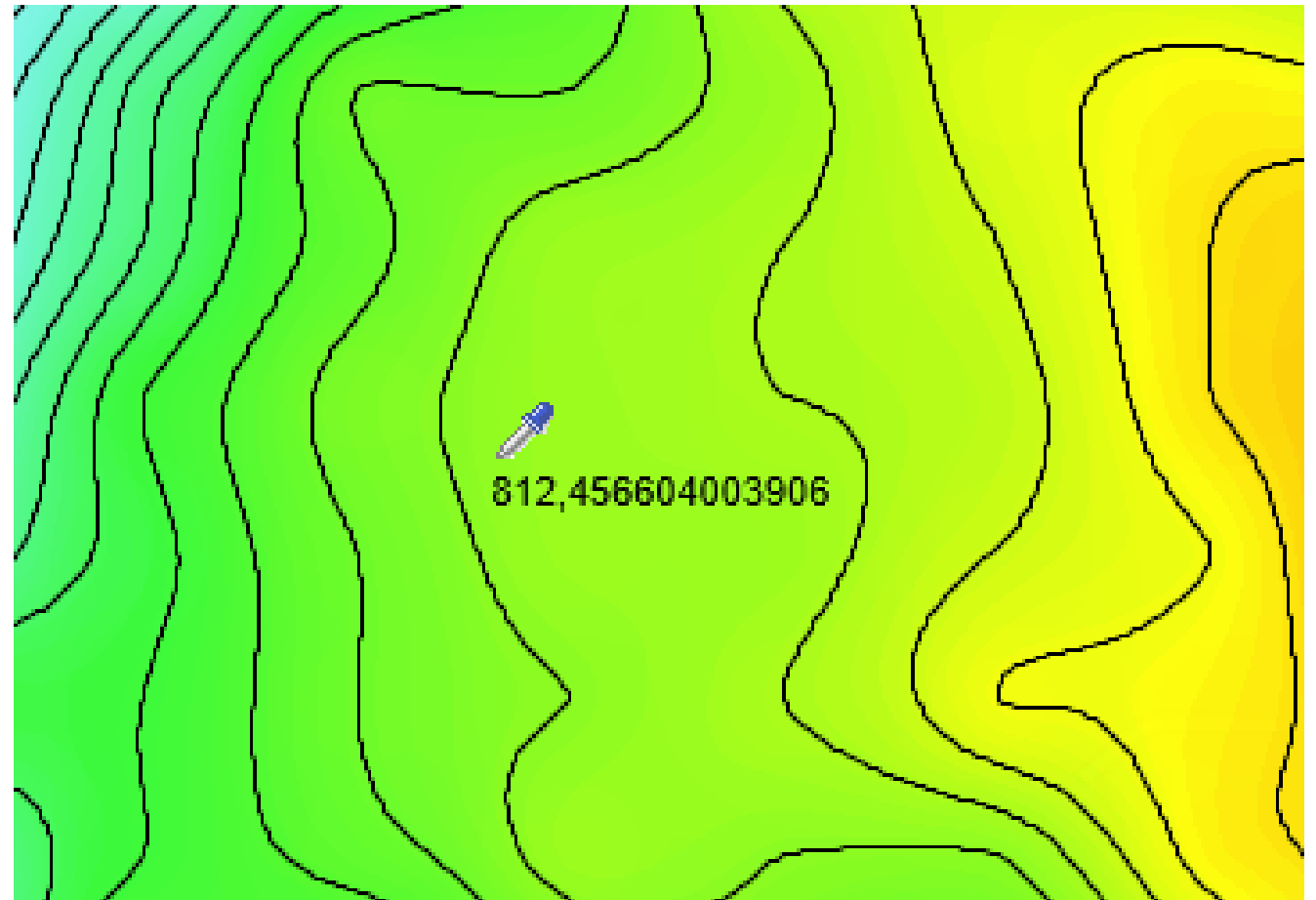
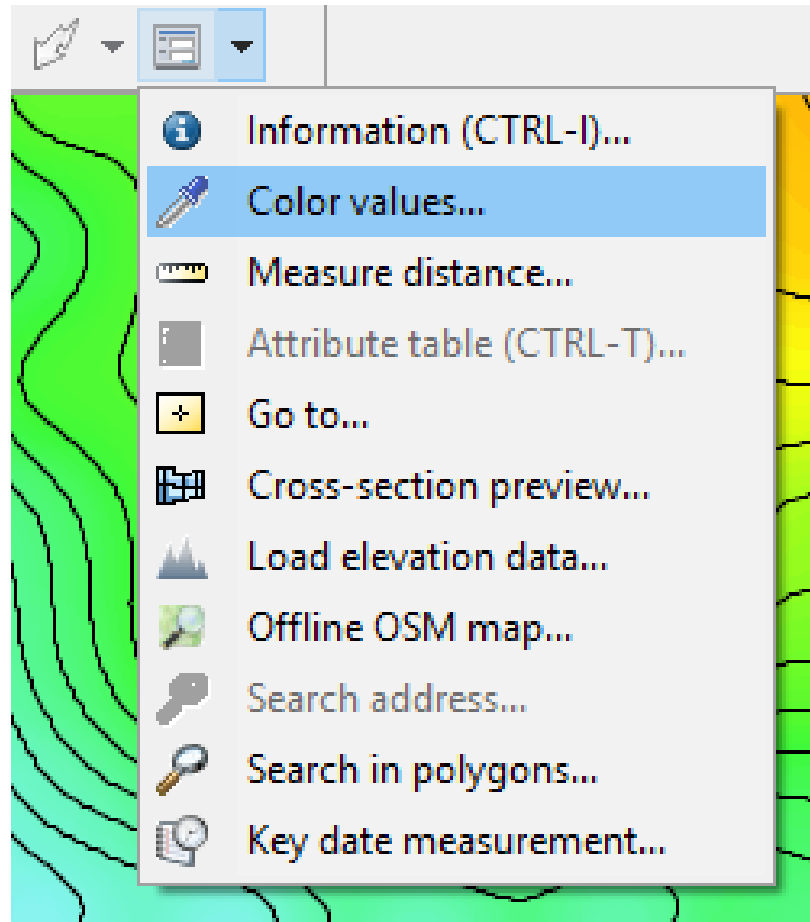
The example shows the number of data sets that contain the entry pb in the field PARDICT, whereby this condition is only allowed to occur once per measurement point.

(* *"There can be only one" is the belief and motto among the immortals in the original Highlander film :-)*

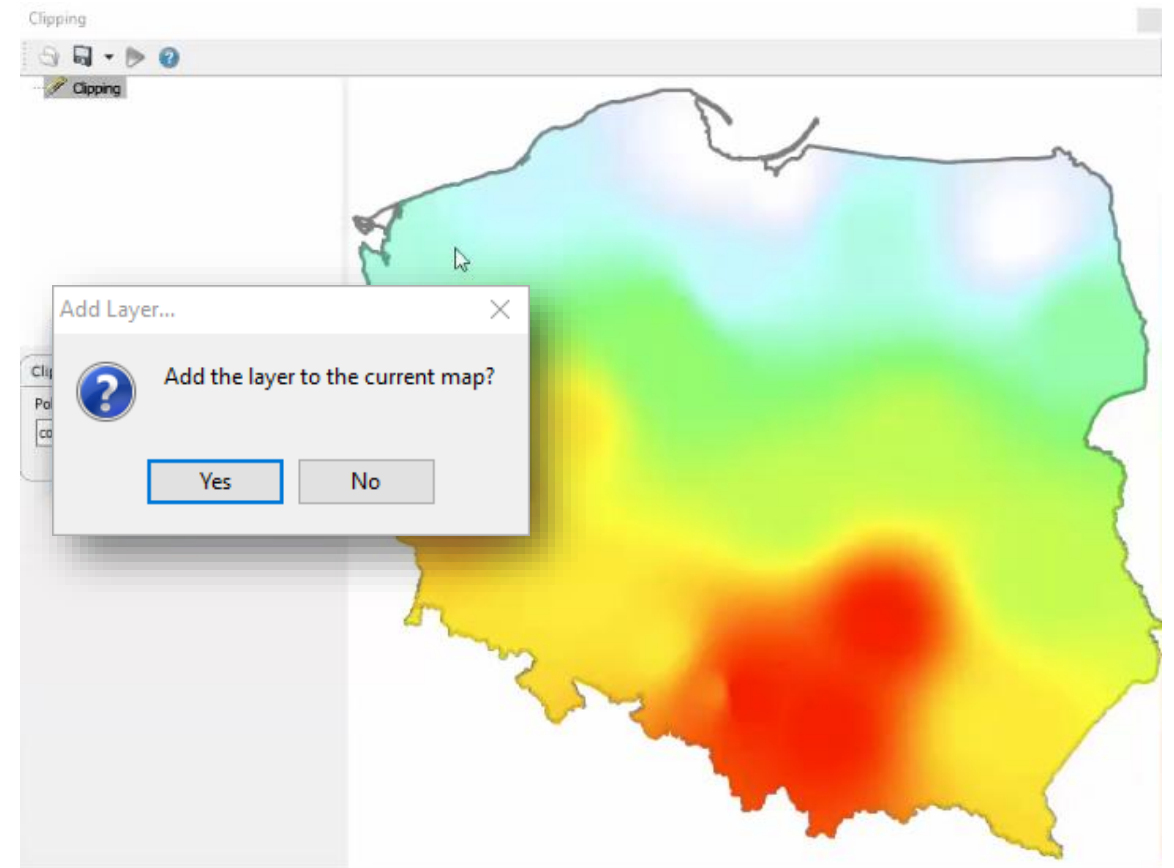
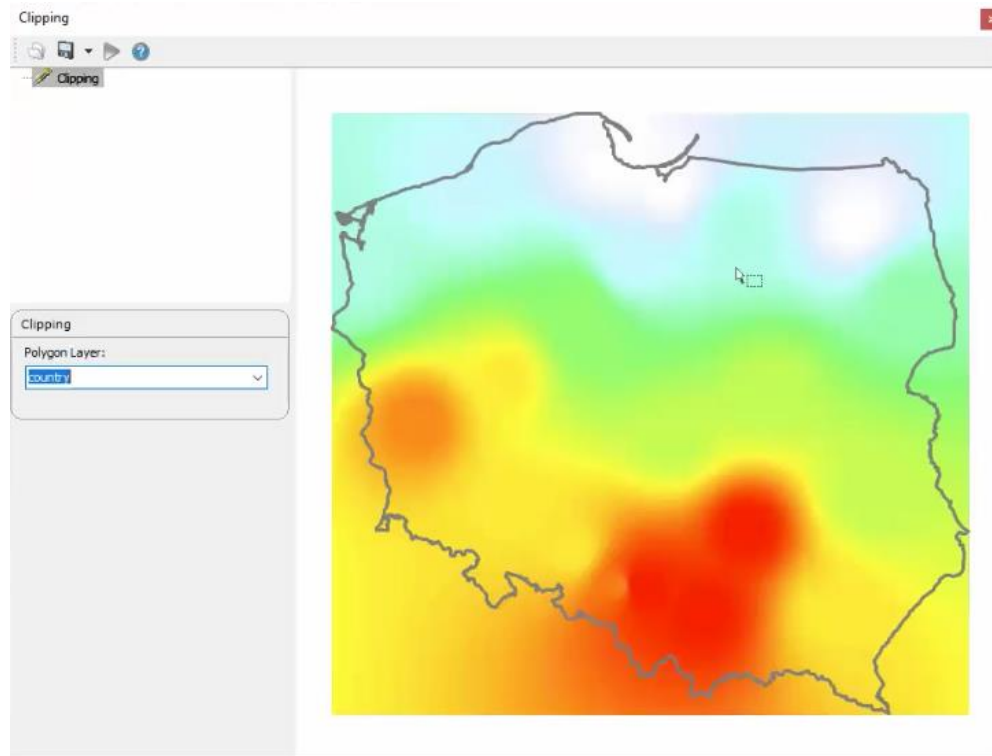
Loading elevation data



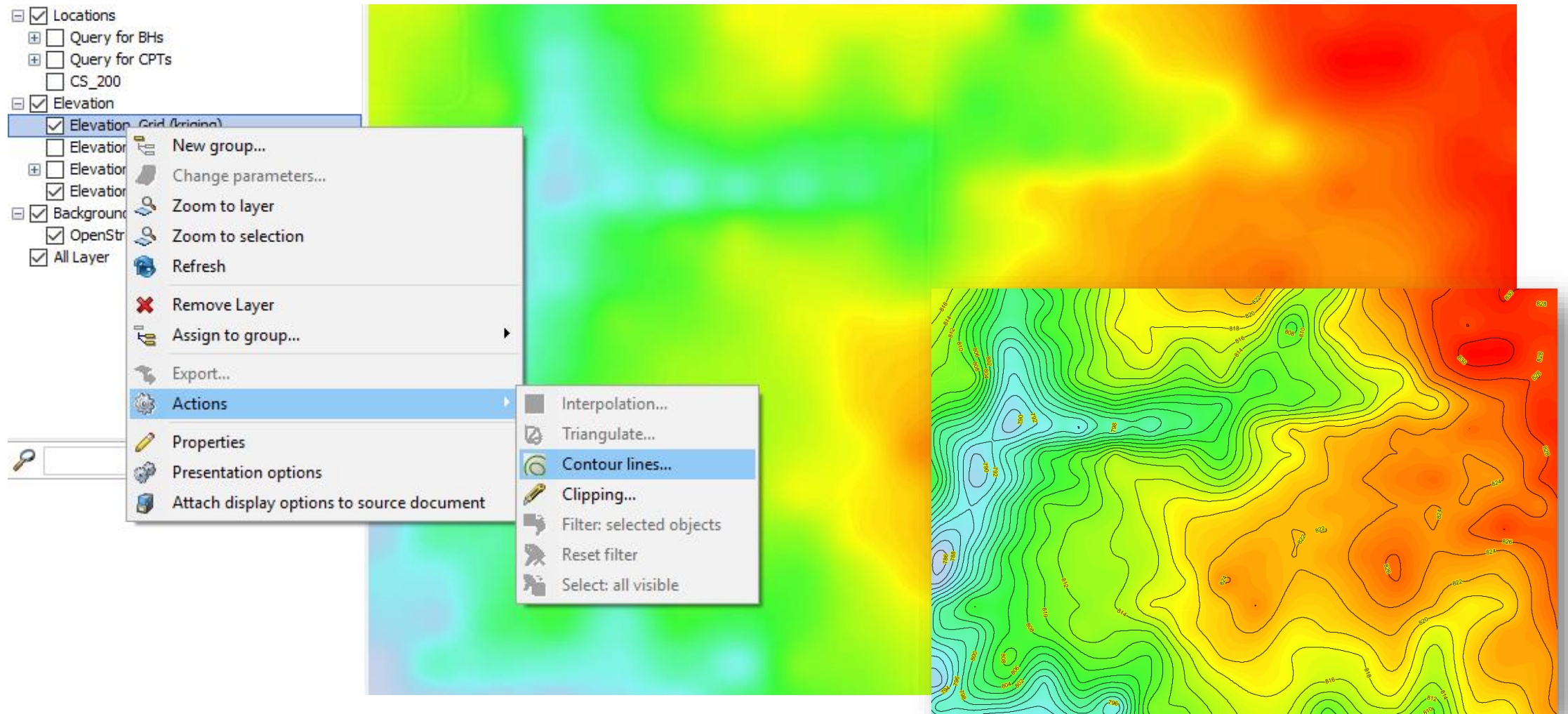
Native values from pixel layers



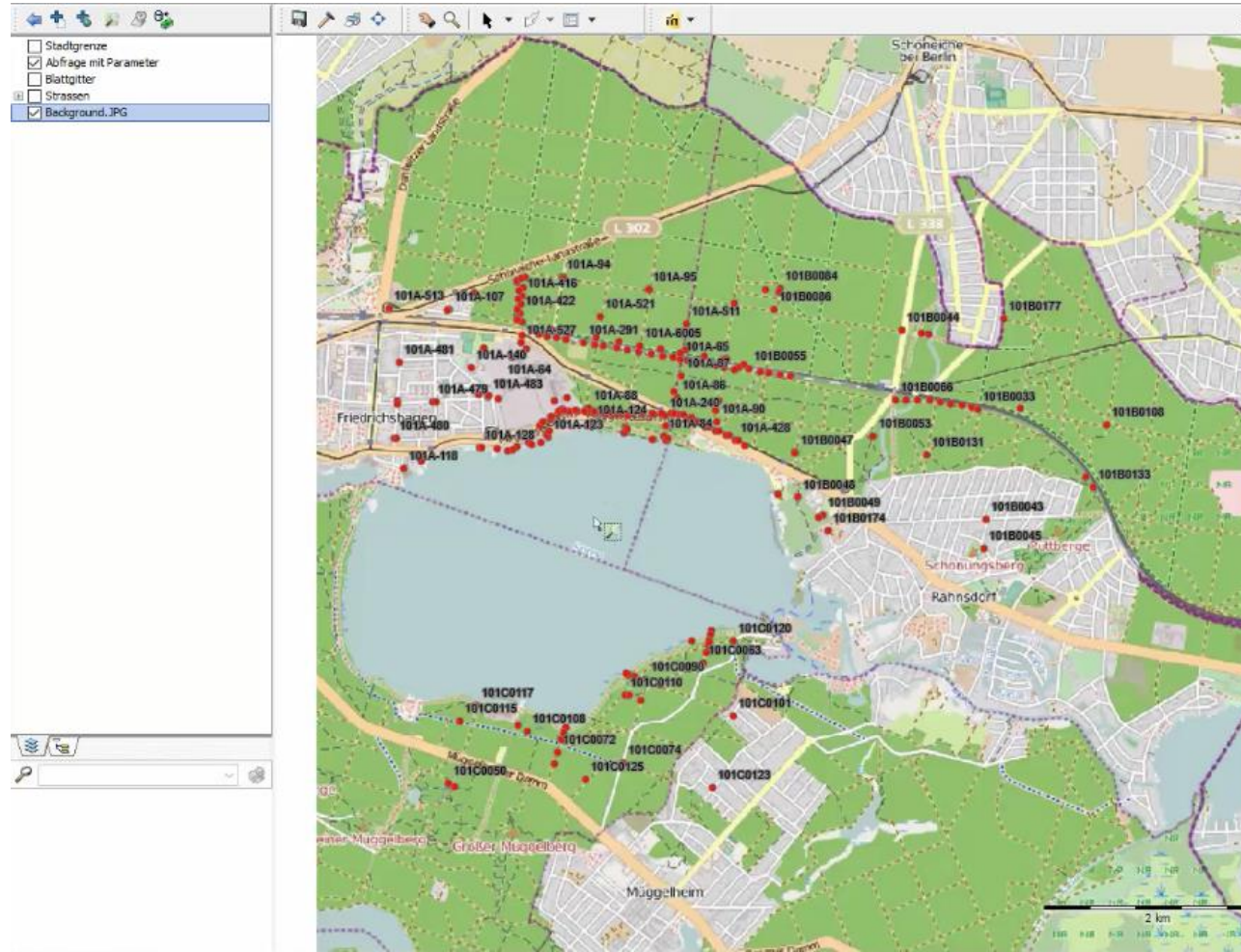
Clipping



Contour lines



Offline OpenStreetMap (OSM)



Map start view

Map properties [X]

Properties:

- Map properties
 - Initial view**
 - Saved preview image

Initial view

☐ Zoom to full map

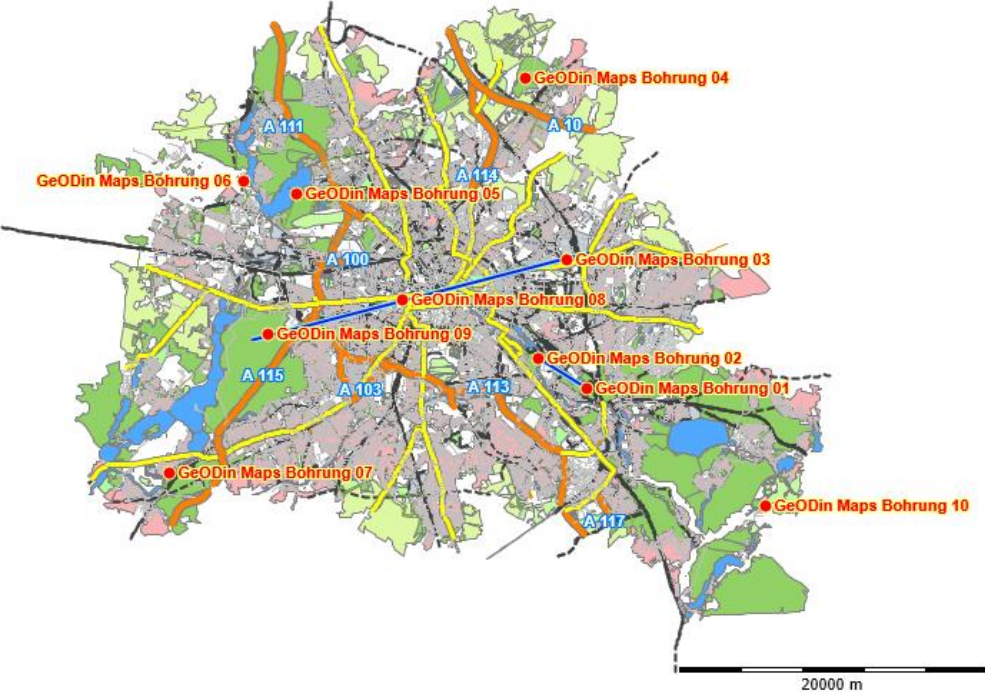
☒ Custom

Map center:

X: Y:

Scale:



1:










20000 m



WMS-Layer




Add web layer...

Server URL:
 <http://www.pegelonline.wsv.de/webservices/gis/wms/aktuell/mnwmmhw> 

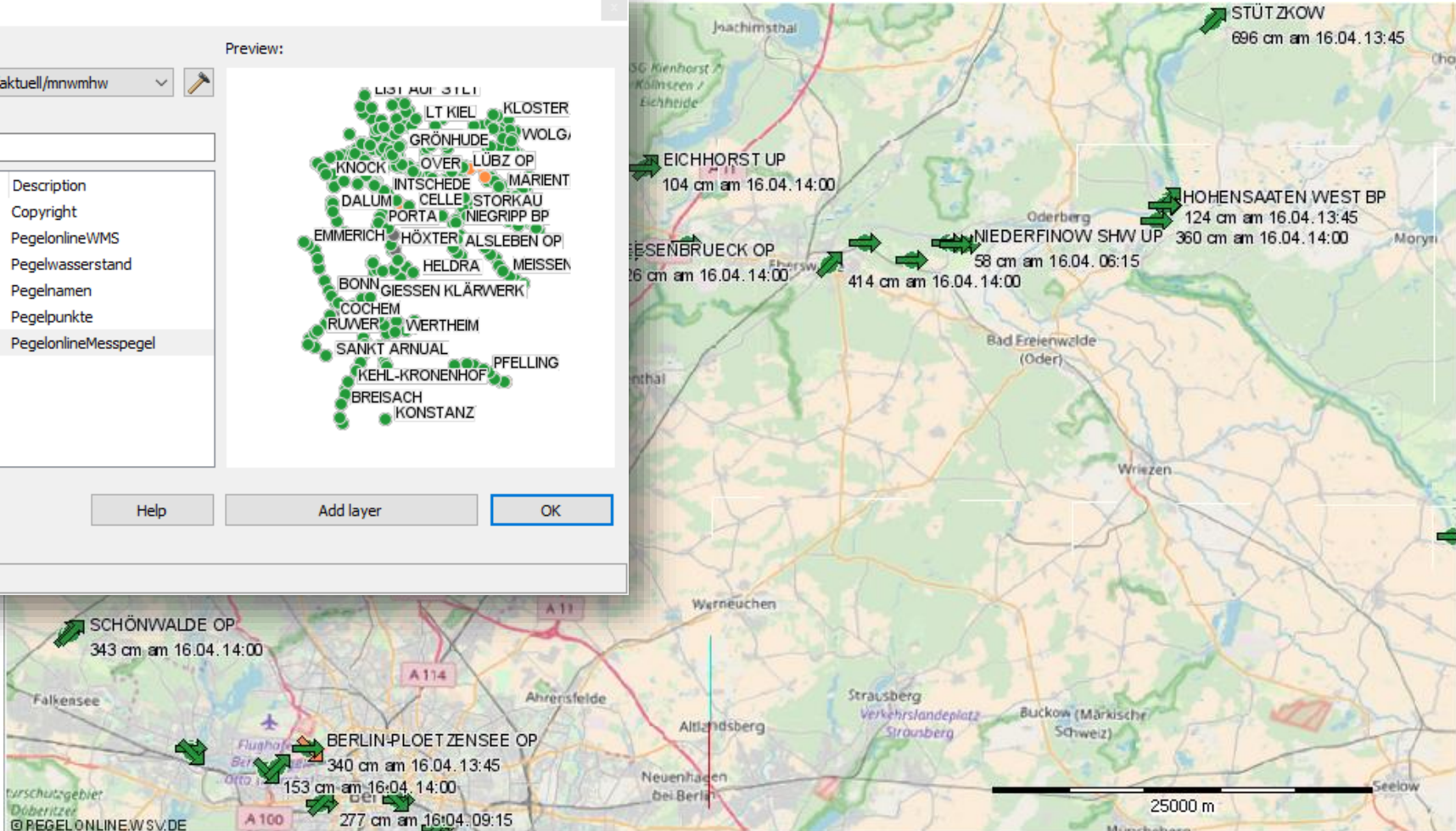

Search:


Name	Description
 Copyright (WSV)	Copyright
 PEGELONLINE (MNW/MHW)	PegelonlineWMS
 Wasserstand (WSV)	Pegelwasserstand
 Pegelnamen (WSV)	Pegelnamen
 Pegelmessstelle (WSV)	Pegelpunkte
 Aktuelle Wasserstände (WSV)	PegelonlineMesspegel

Format:  image/png System:  EPSG:3857

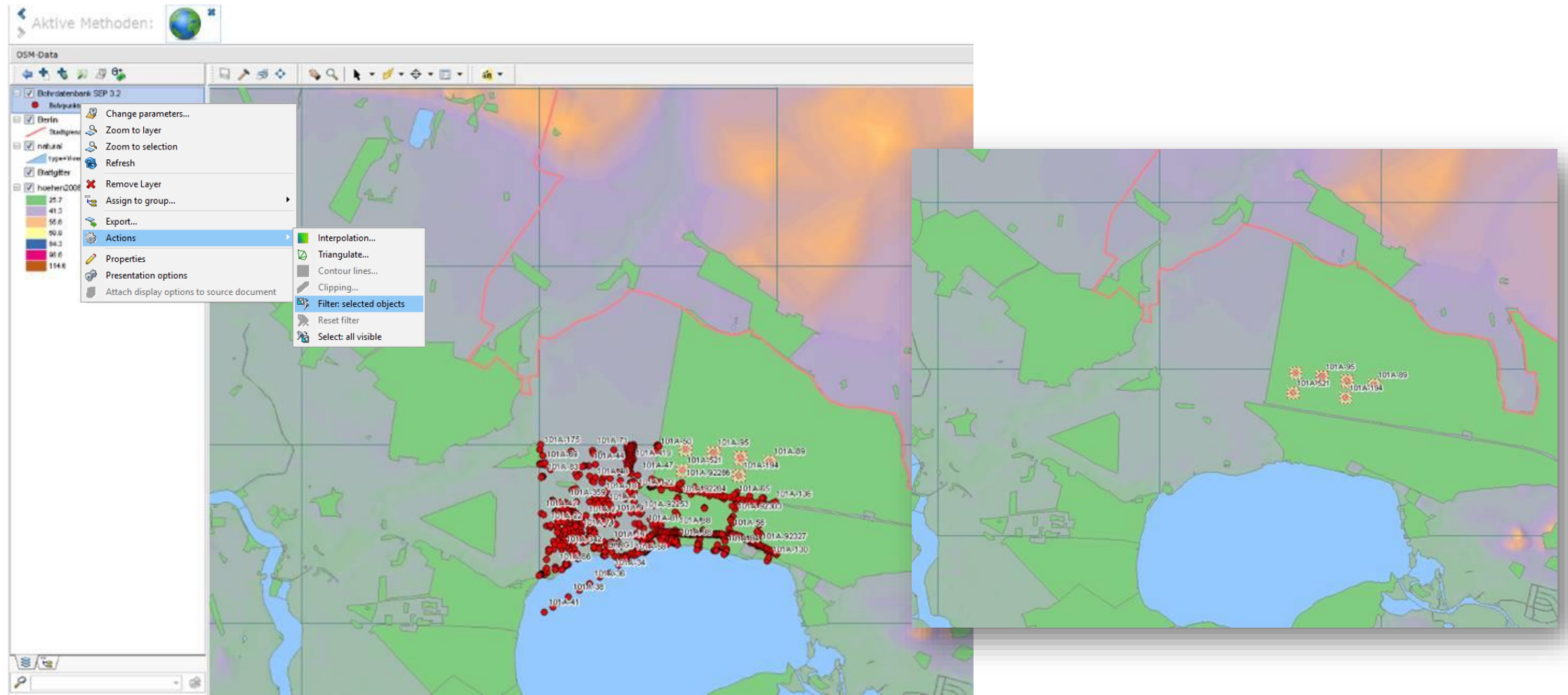
 Help  Add layer  OK

Preview:



© PEGELONLINE.WSV.DE

Selective object filtering

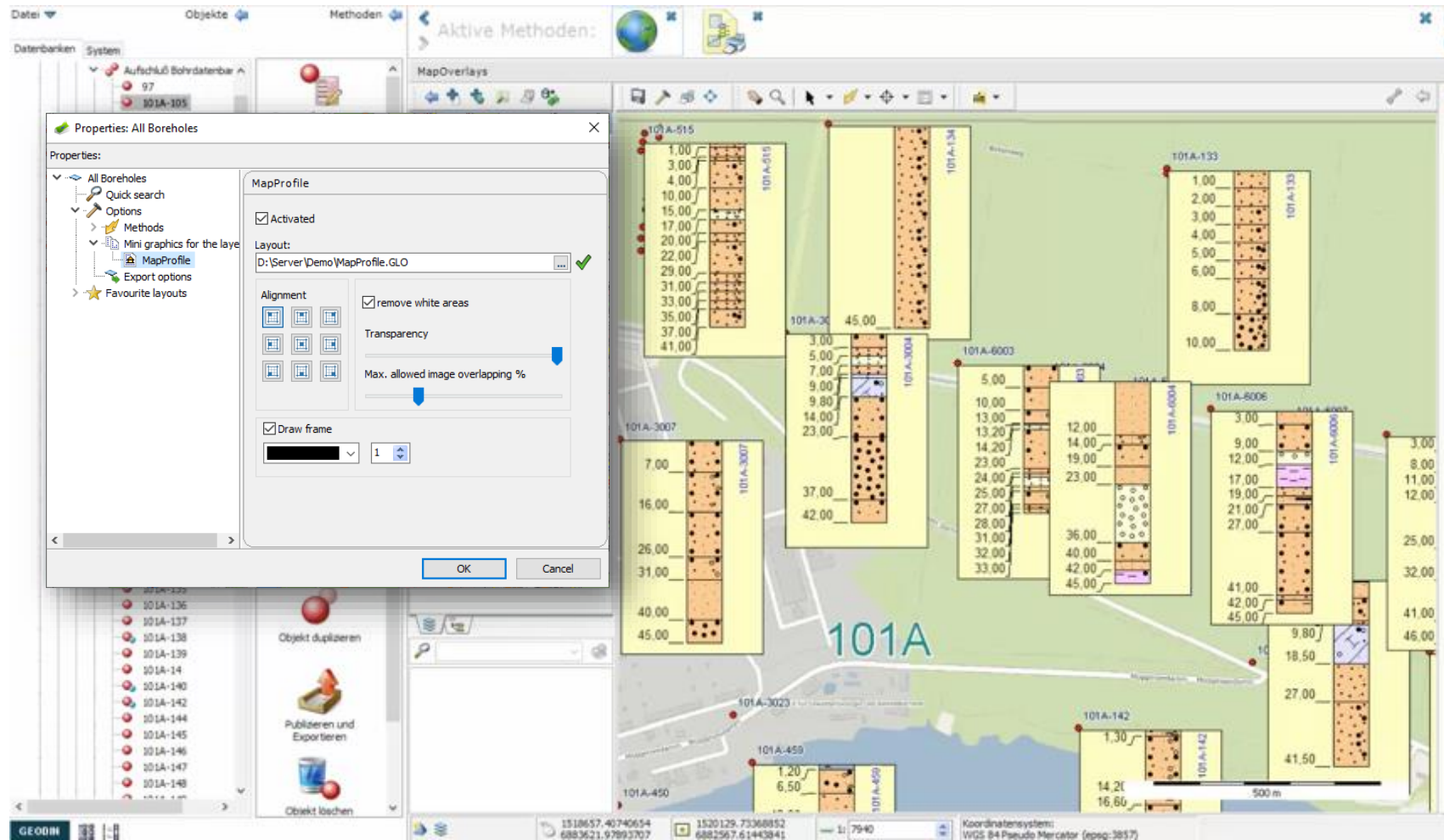


Marker

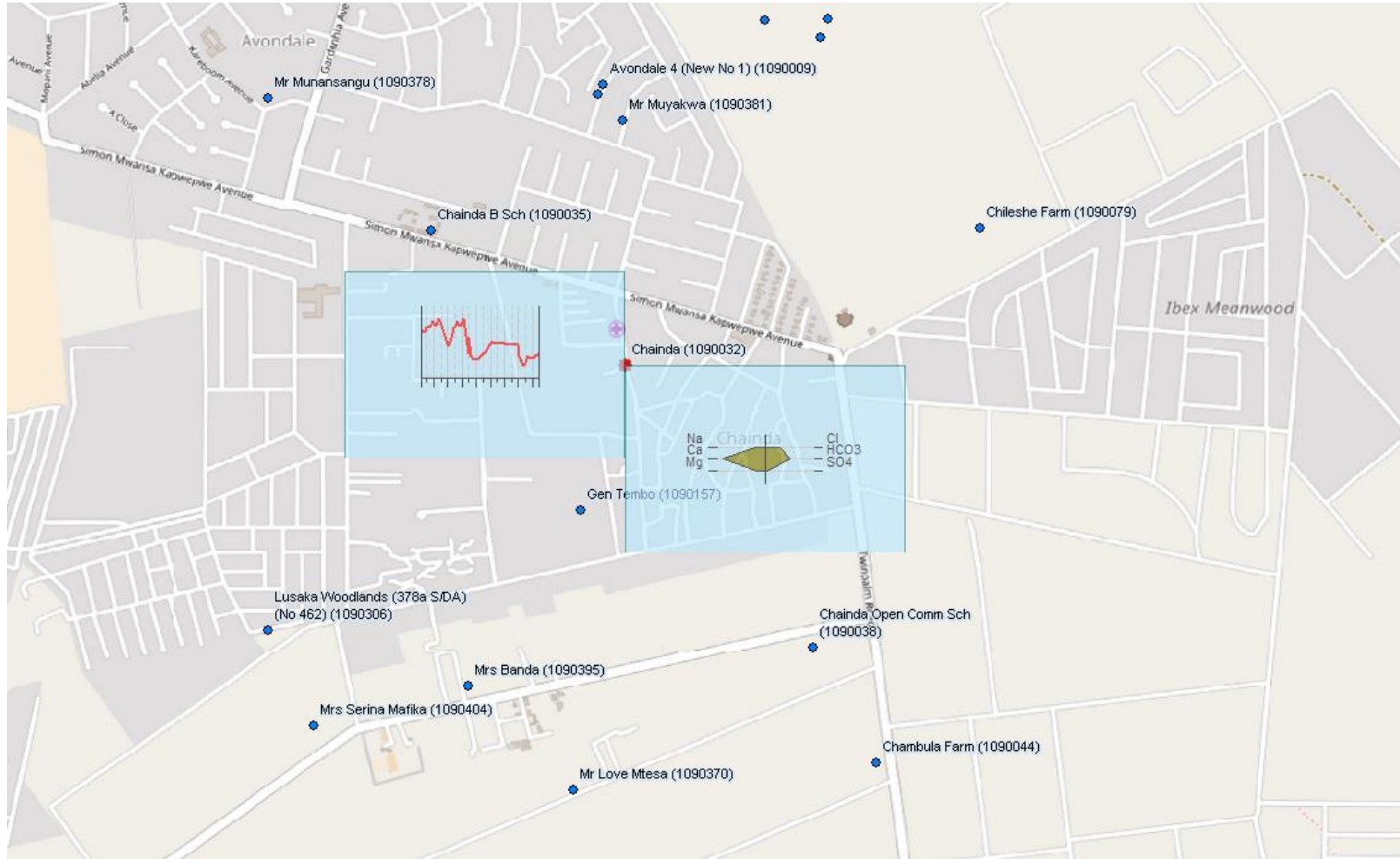




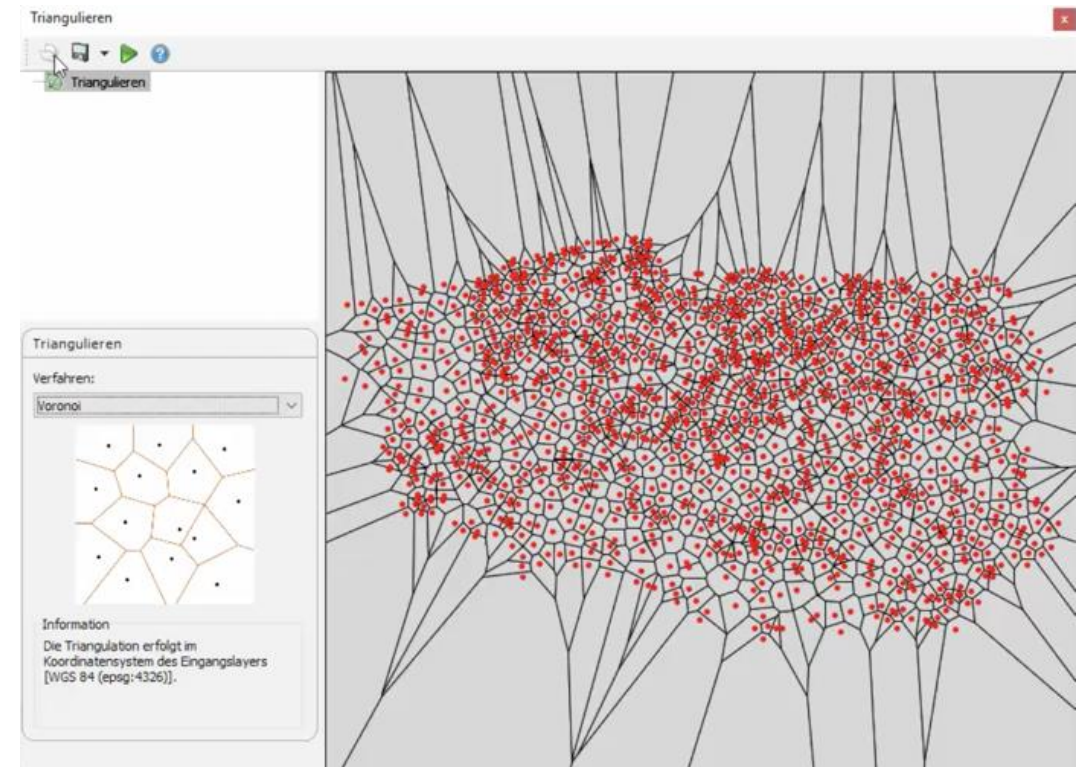
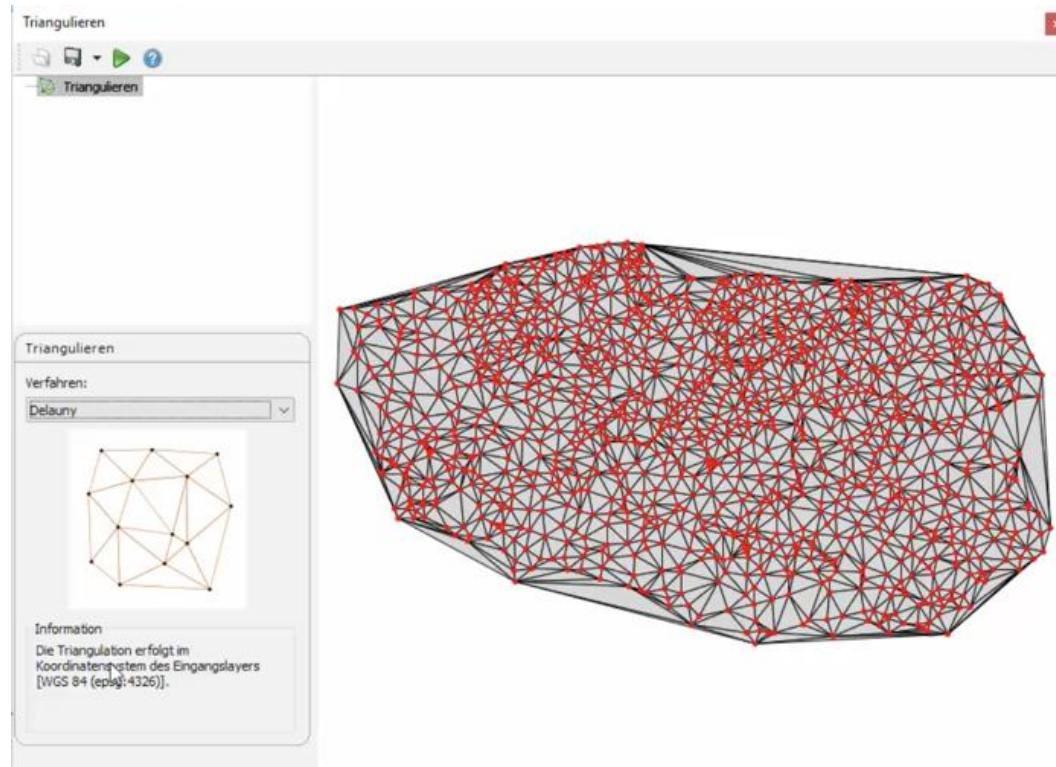
Maps with overlays (mini graphics)



Maps with overlays (mini graphics)

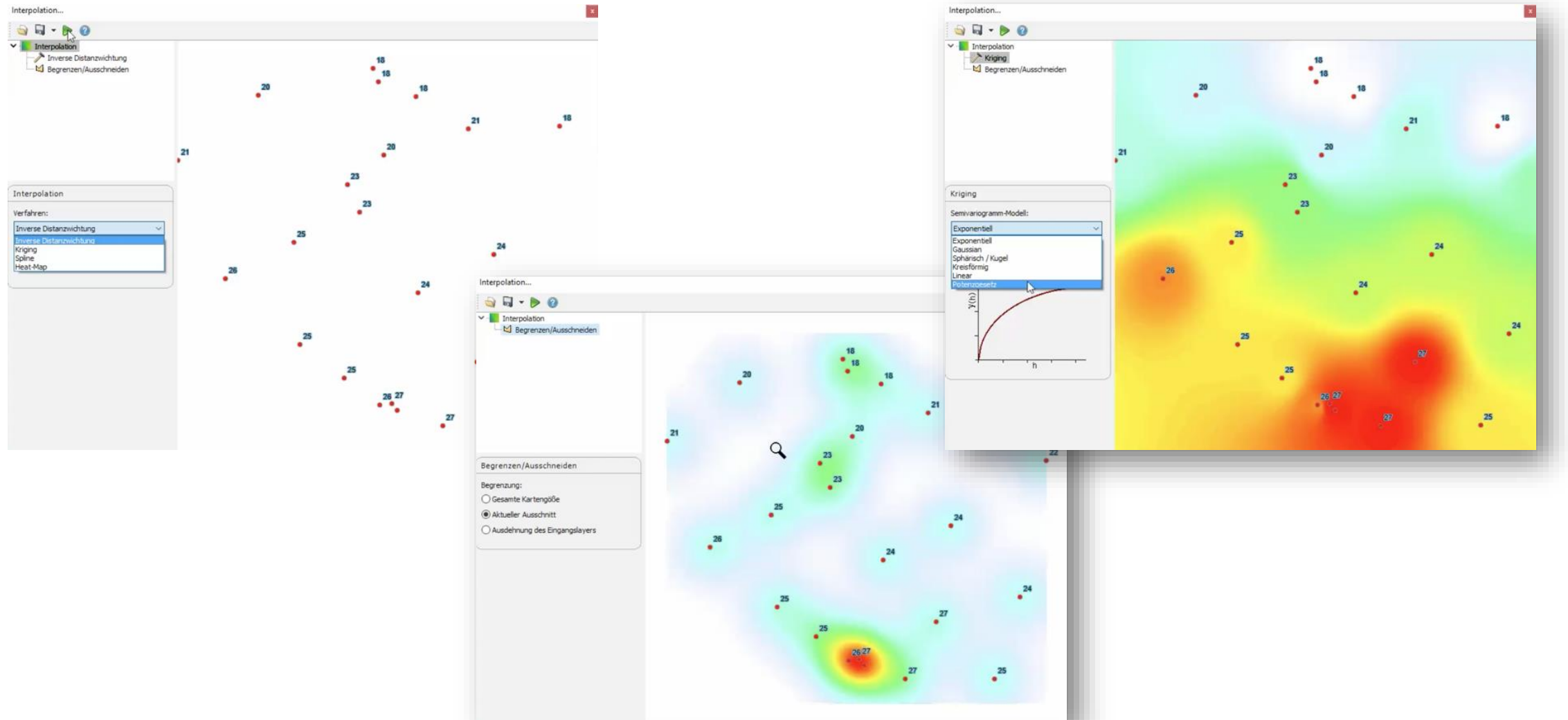


Triangulation

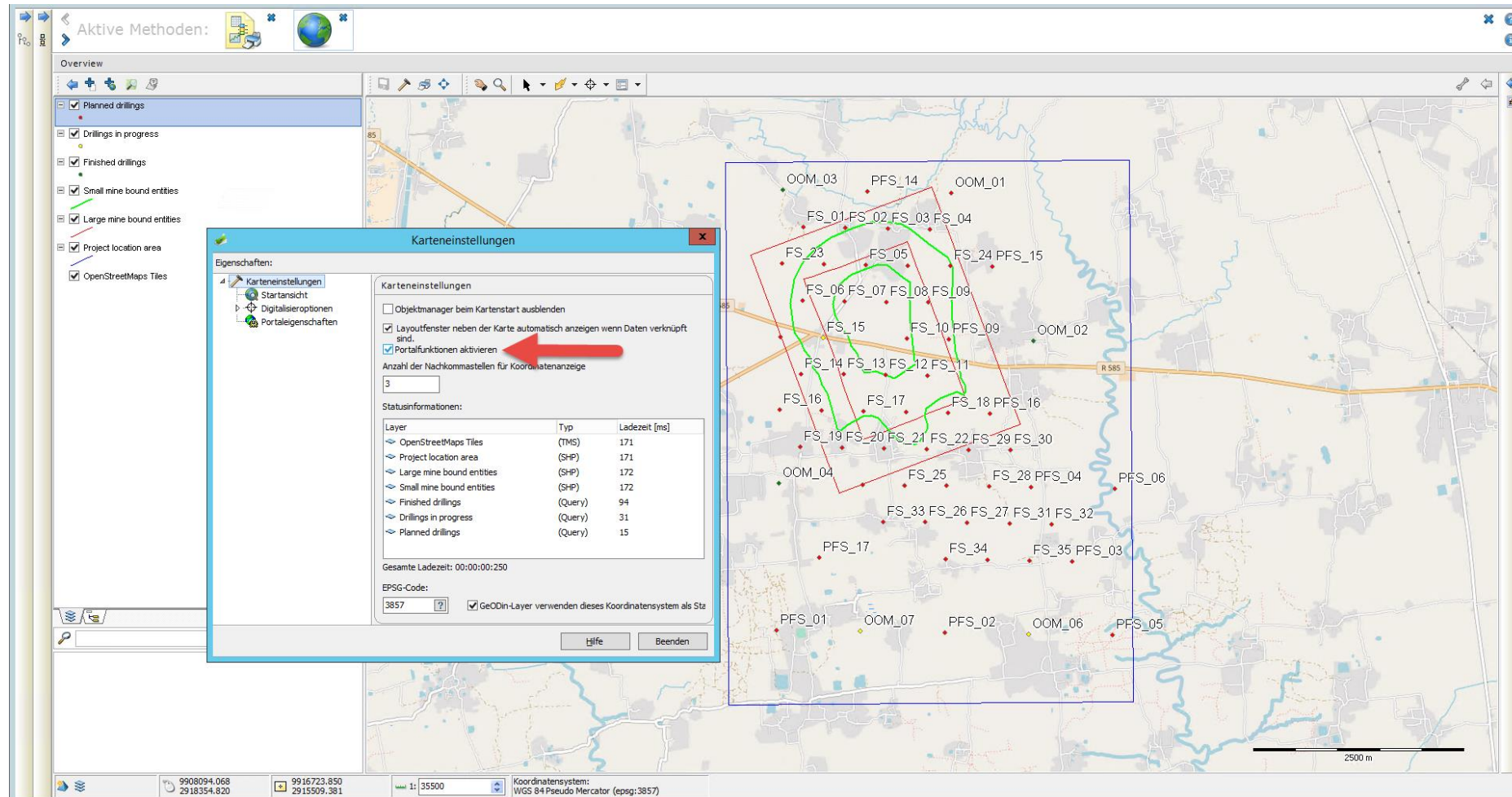


Verfahren: Delauny (links) und Voronoi (rechts)

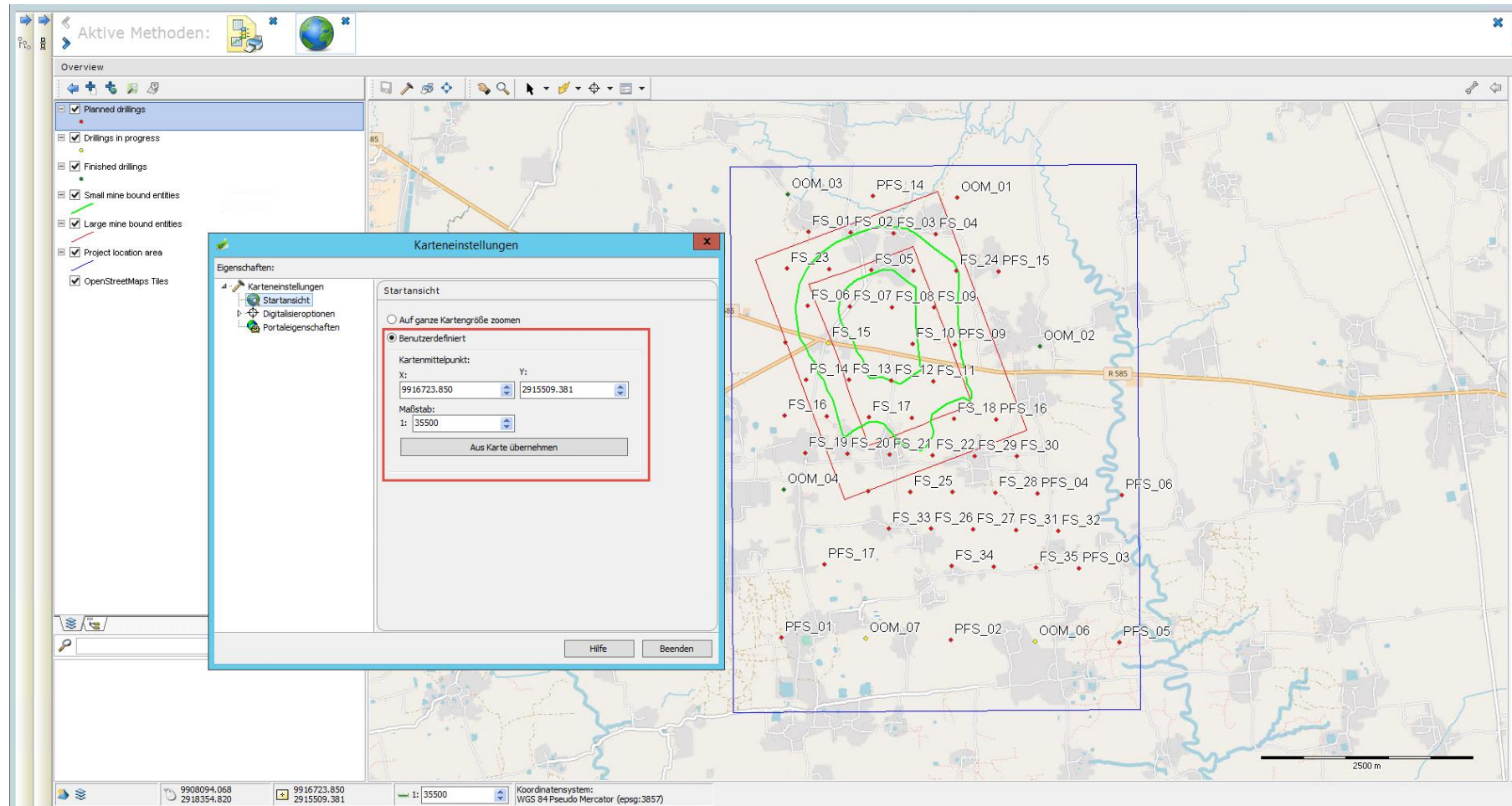
Interpolation



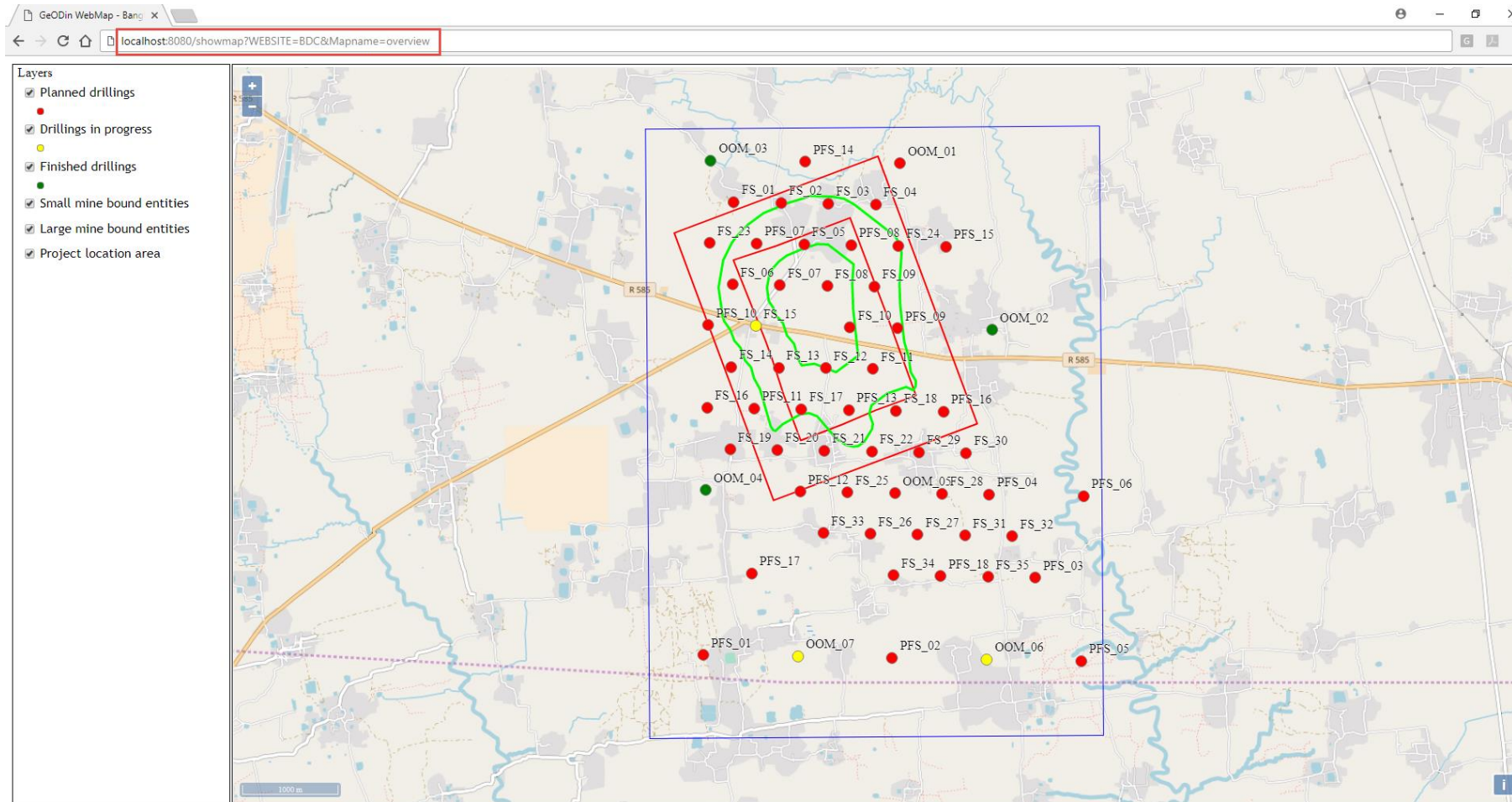
Map in WebGIS



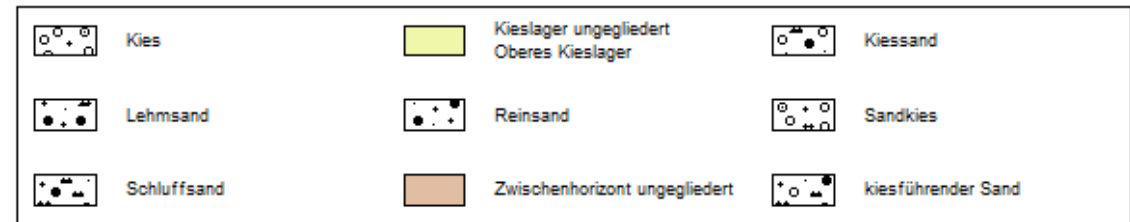
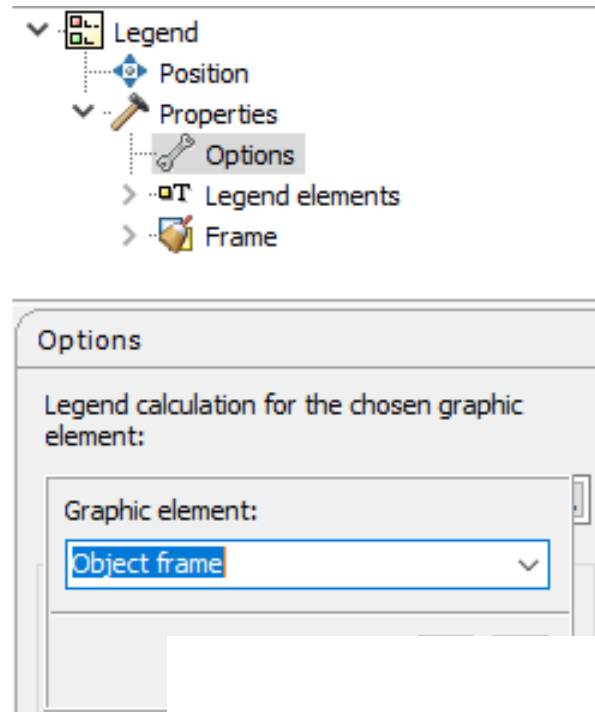
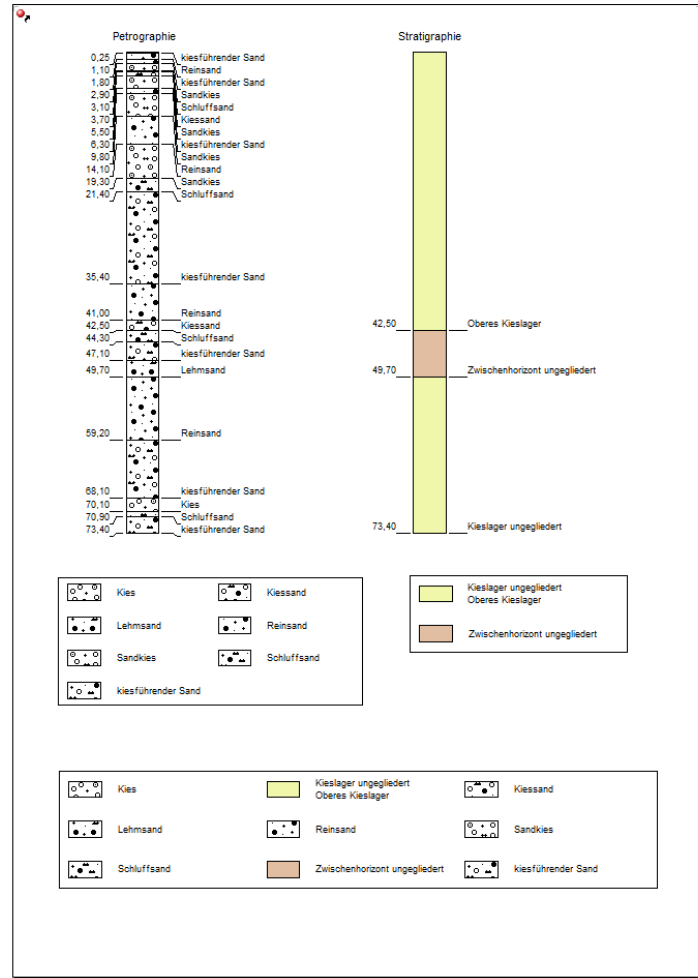
Map in WebGIS



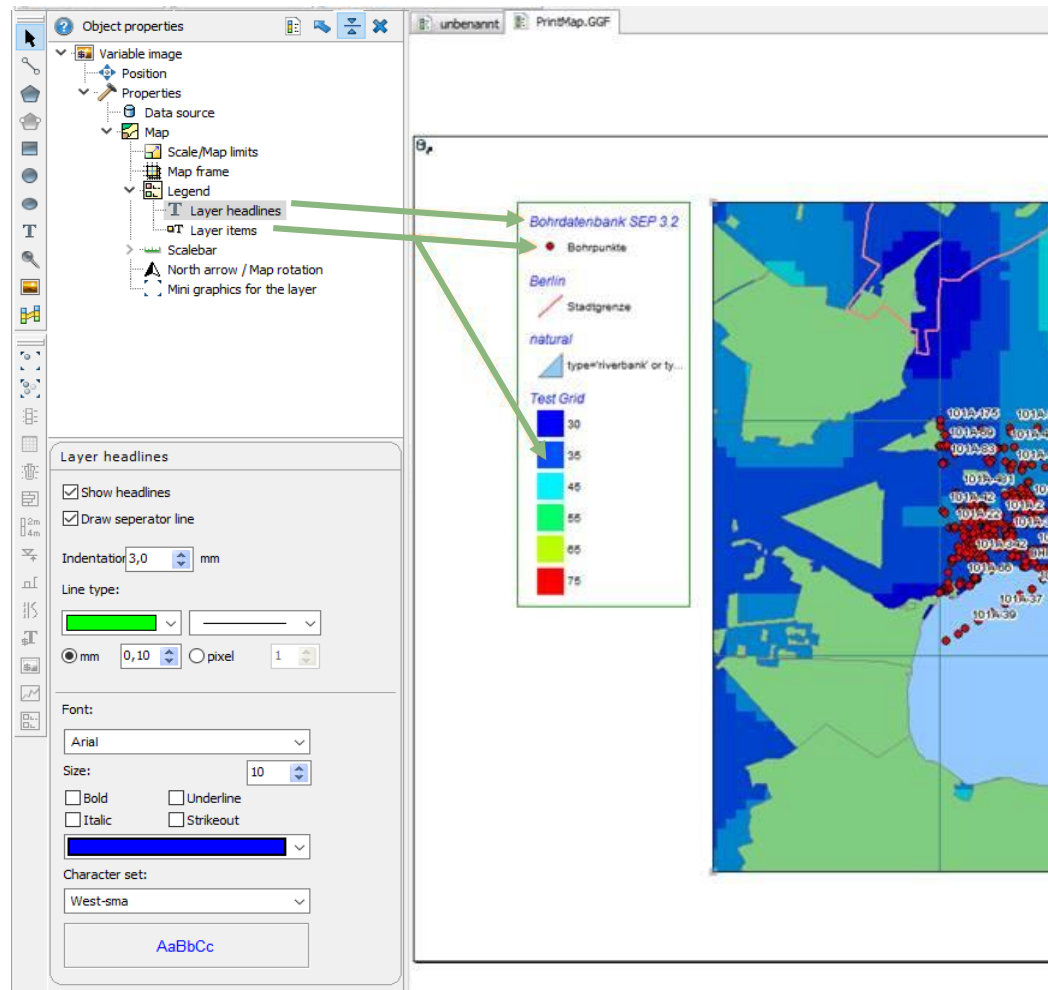
Map in WebGIS



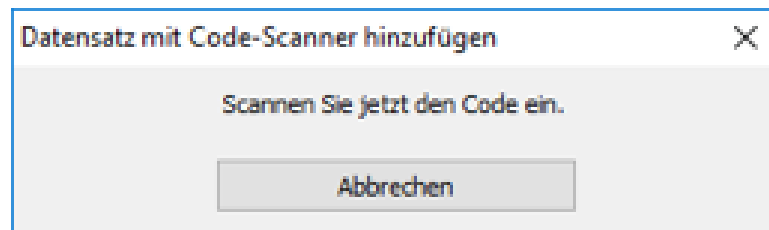
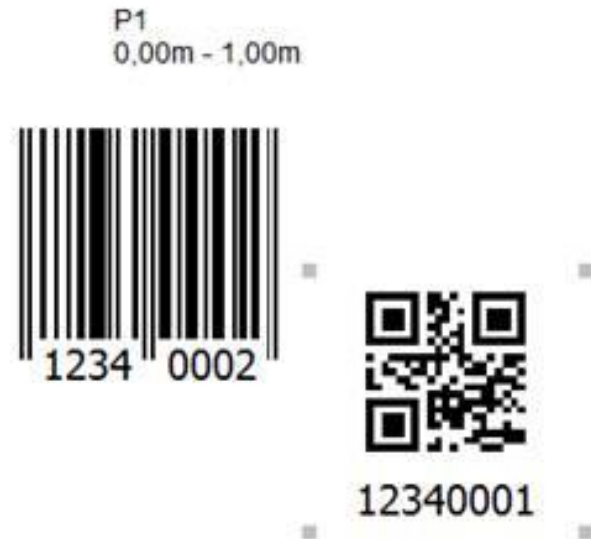
Legends for several profiles



Map legends in layouts

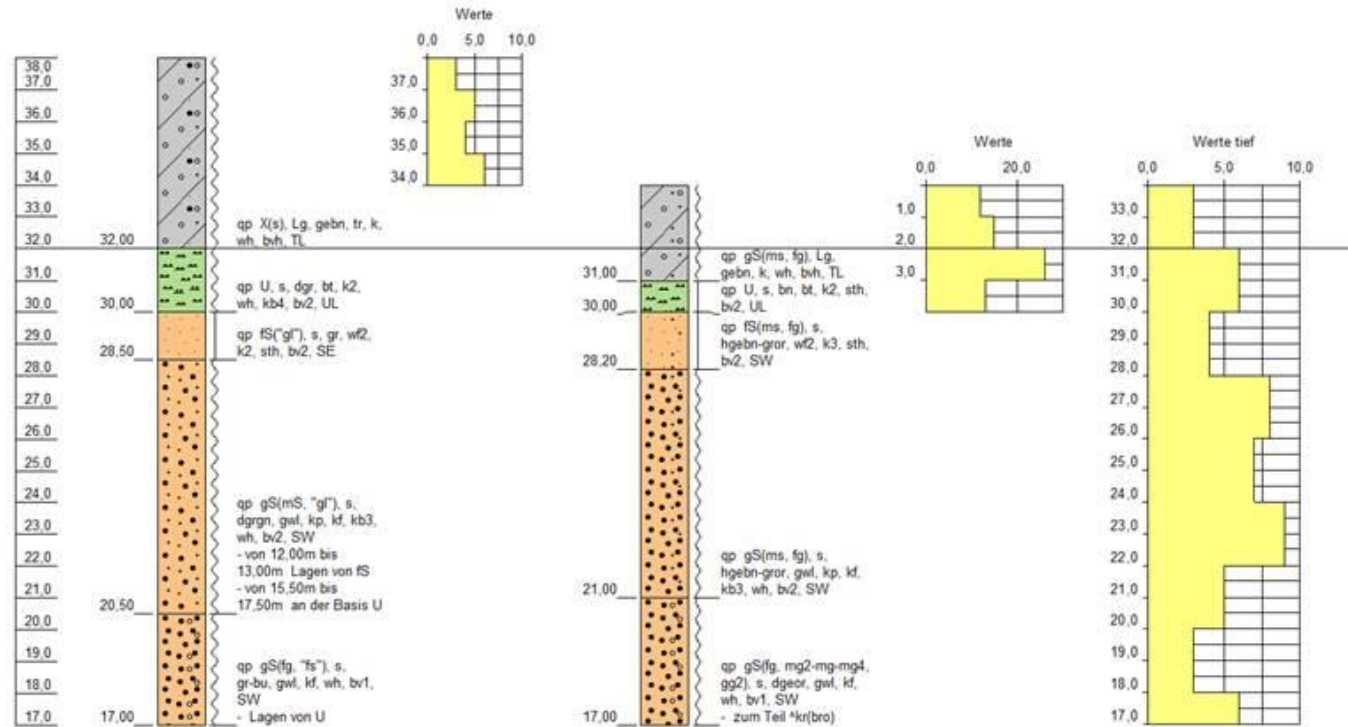


Barcode and QR codes

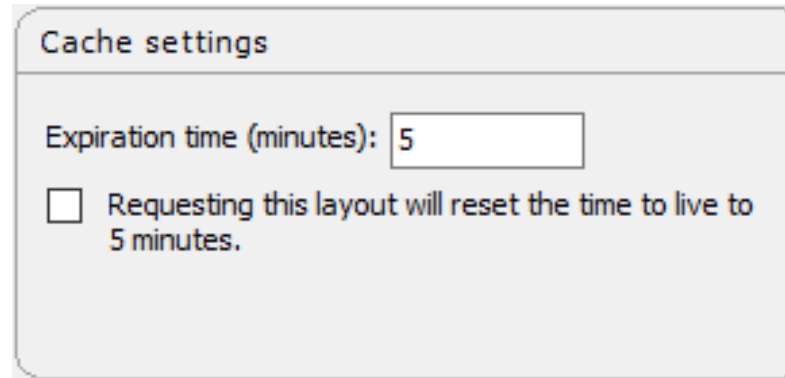
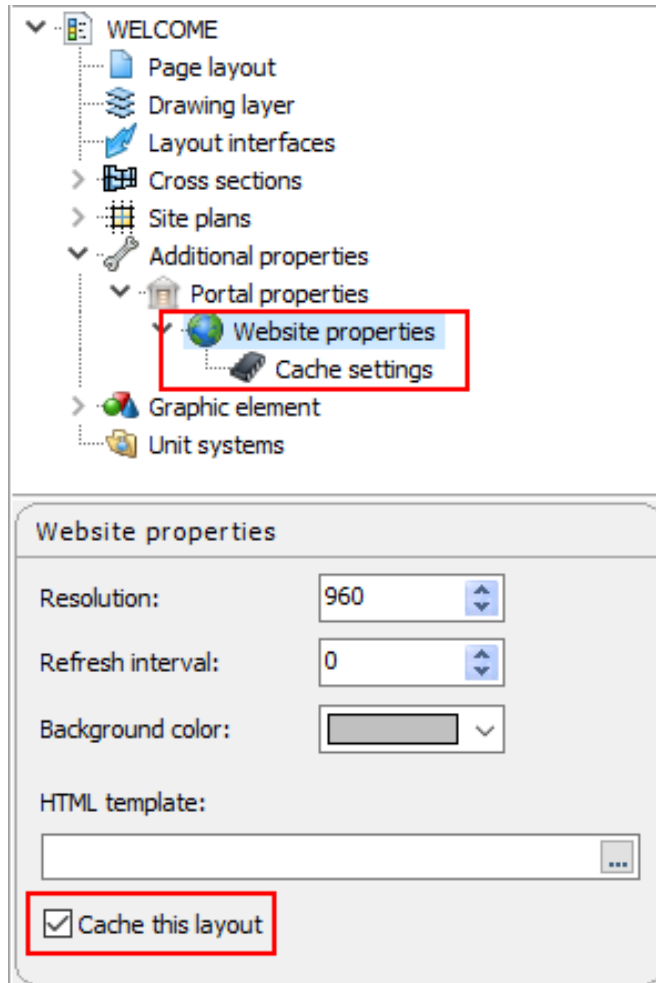


Name	Ergebnisse	ID	Barcode	Foto
P1		12340001		
P2		12340002		
P3	Betonangriffsgrad, einachsige Druckfestigkeit des gestörten Bodens, Porenanteil bei lockerster Lagerung, Wassergehalt an der Ausrollgrenze	12340003		
P4				

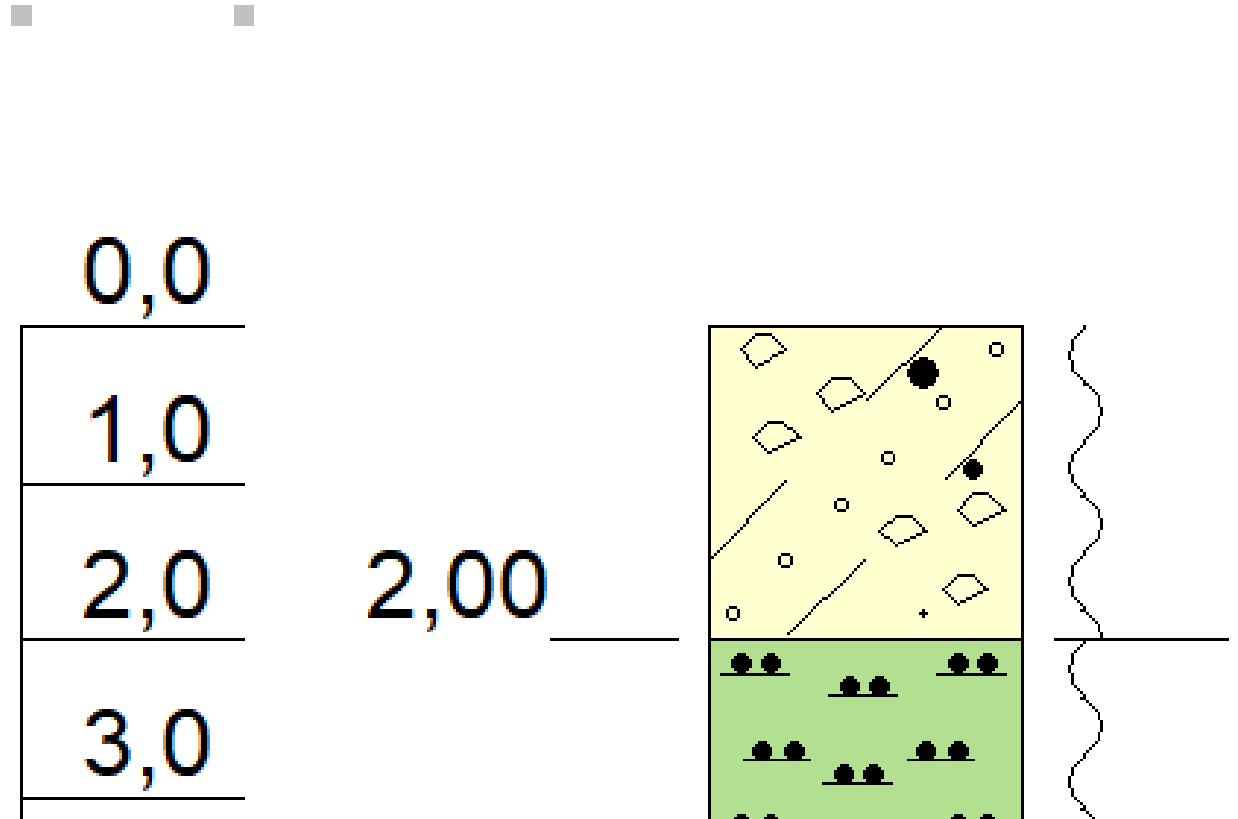
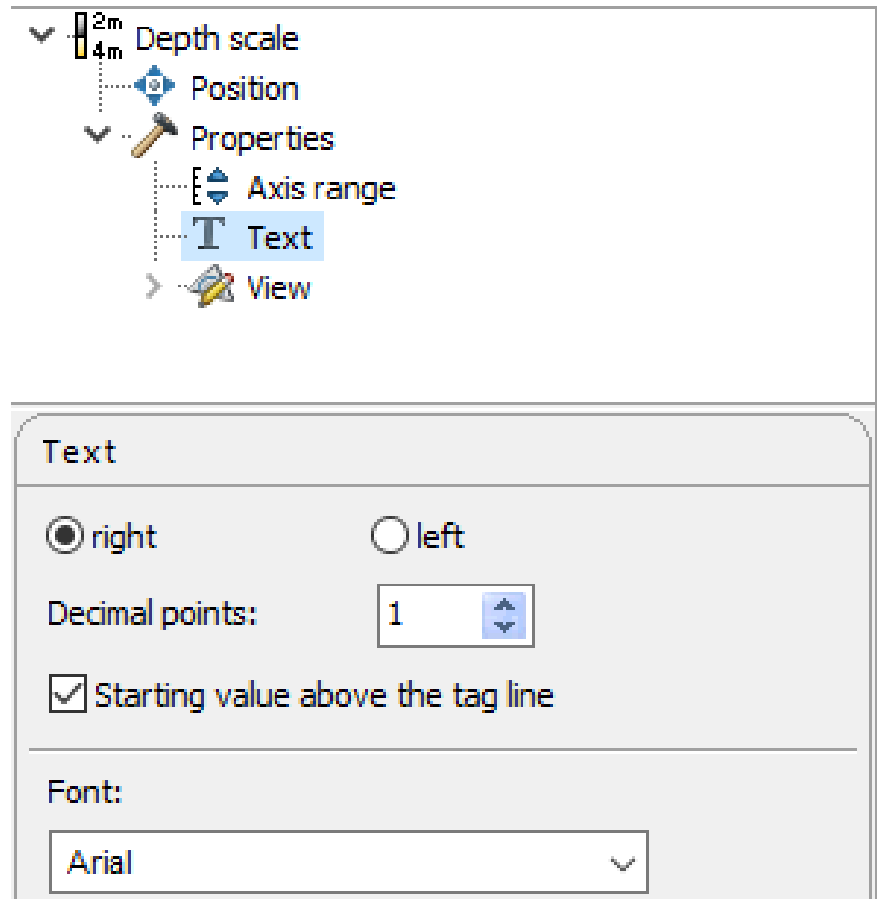
Data sequence grids in cross-sections



Cache settings for portal layouts



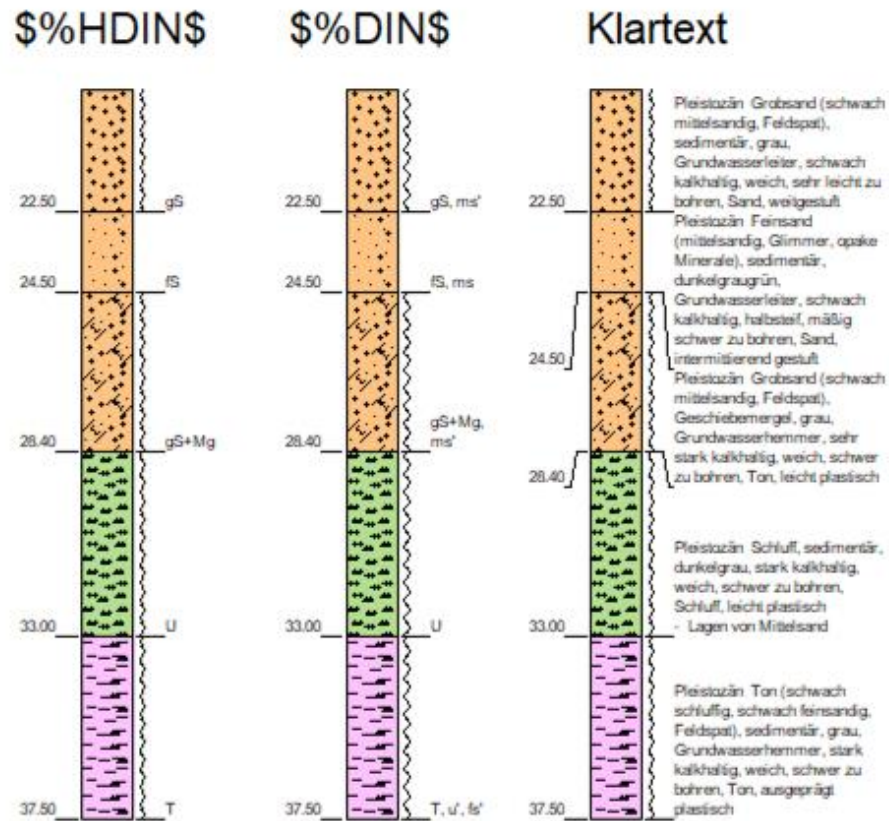
Starting value for depth scale



Labelling macro: \$%HDIN\$




7



Copy projects with multiple layer descriptions

Copy project

 **Copy project with all data**
Select a destination database for the copy of the project. The project information can be modified.

Target database:
GeODin demo database

General project information

Name: Copy of Demo Project

Alias name:

Author: Fugro Germany Land

☐ User-specified ID (not recommended)


ID:

Options

- ☒ Include data
 - ☒ Measurement values
 - ☒ Documents (The project contains extended document data.)

Help OK Cancel

Copy project

 **Copy project with all data**
Select a destination database for the copy of the project. The project information can be modified.

Target database:
GeODin demo database

General project information

Name: Copy of Demo project

Alias name:

Author: Fugro Germany Land

☐ User-specified ID (not recommended)

ID:

Options

- ☒ Documents (The project contains extended document data.)
- ☒ Layer data
 - ☒ Ersterfassung
 - ☒ Generalisiertes Kurzprofil

Help OK Cancel

Contact us

Questions, feedback
& new ideas?

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