Parker Road - RDN well Hydrogeological Model and Proposed Monitoring Program

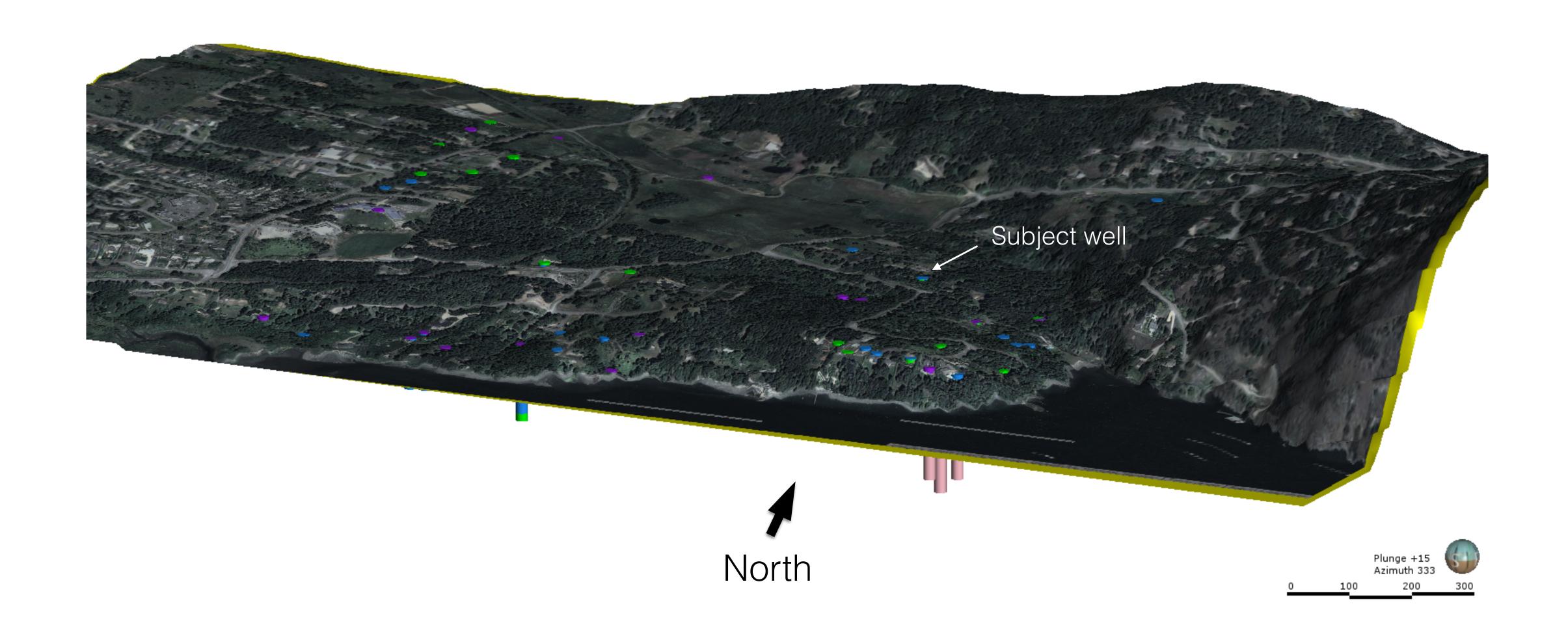


## Mork completed

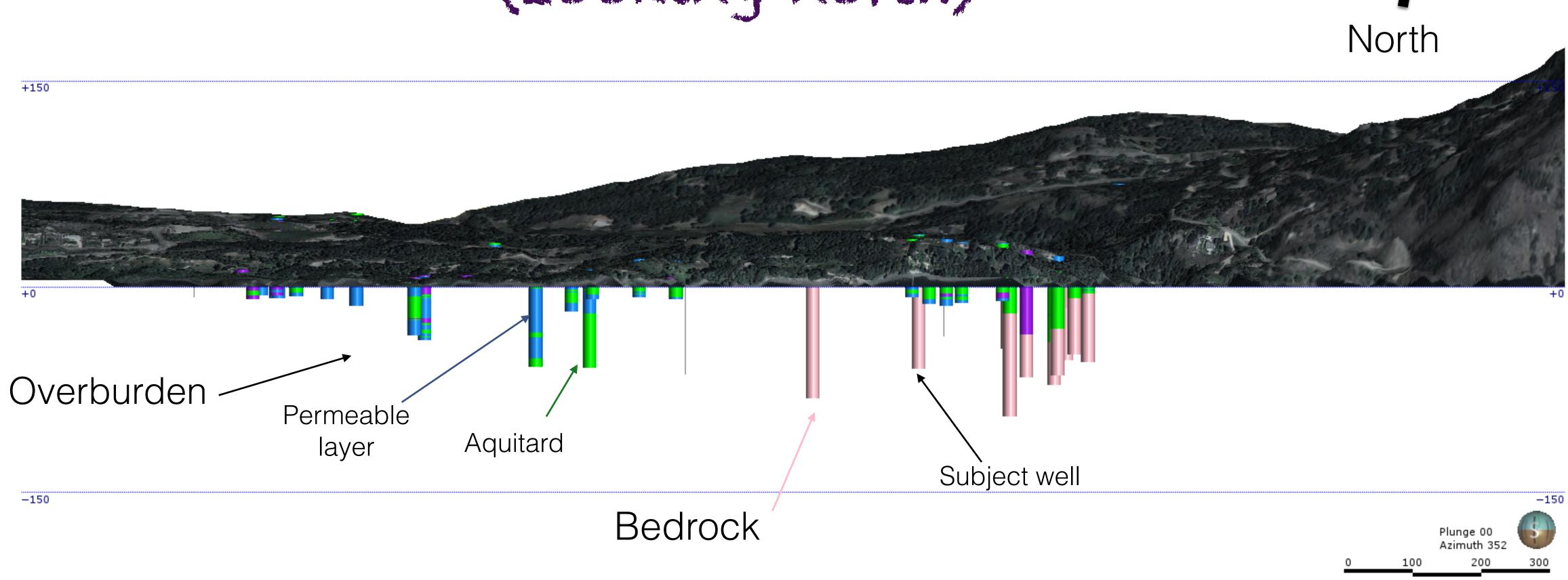
- o Inventory of wells (with RDN)
- e Local hydrogeology 3D model/visualisation
- o Draft Monitoring Program
- o Stream Gauging planning

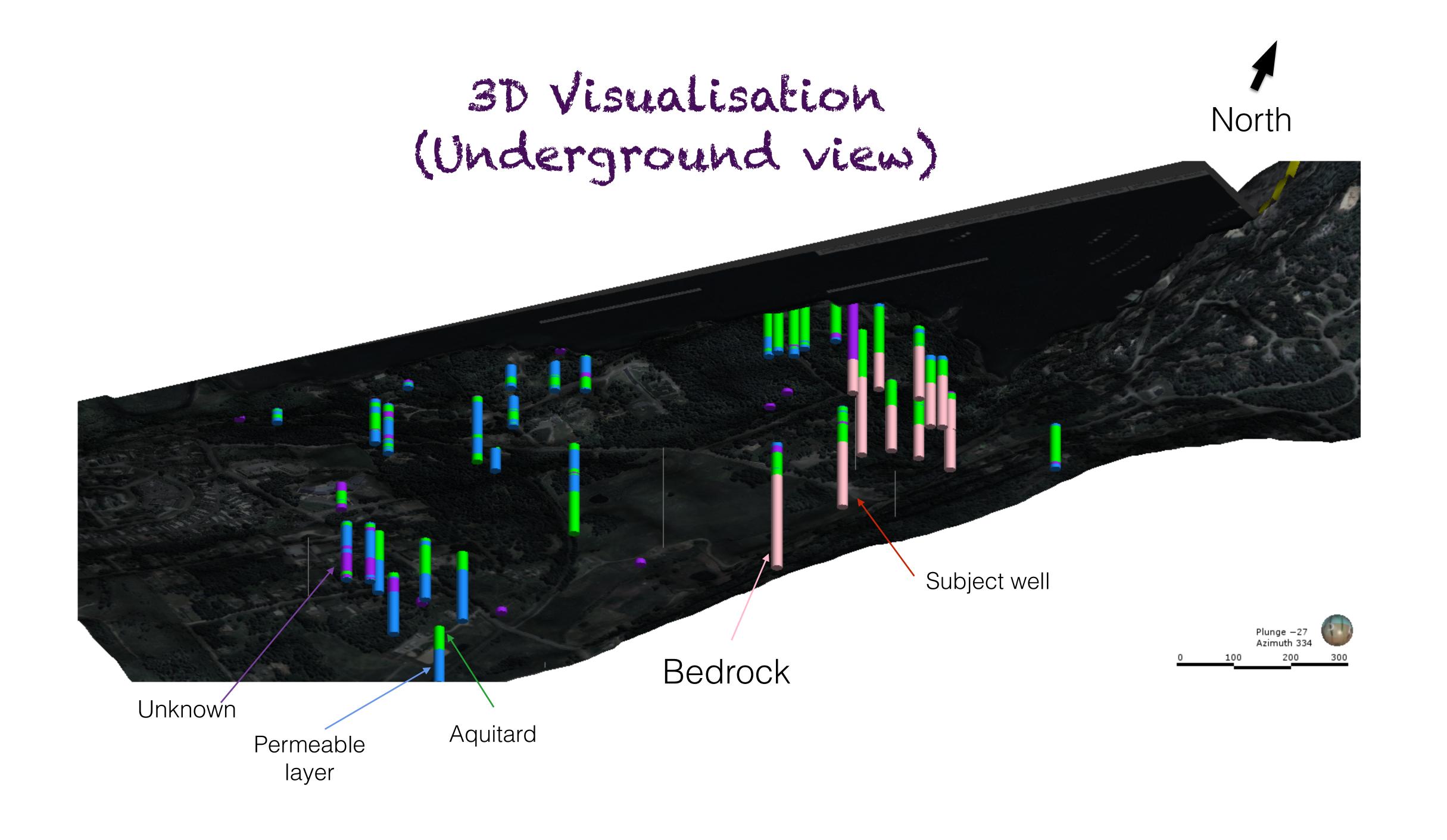


## 3D Visualisation (leapfrog - Looking north)



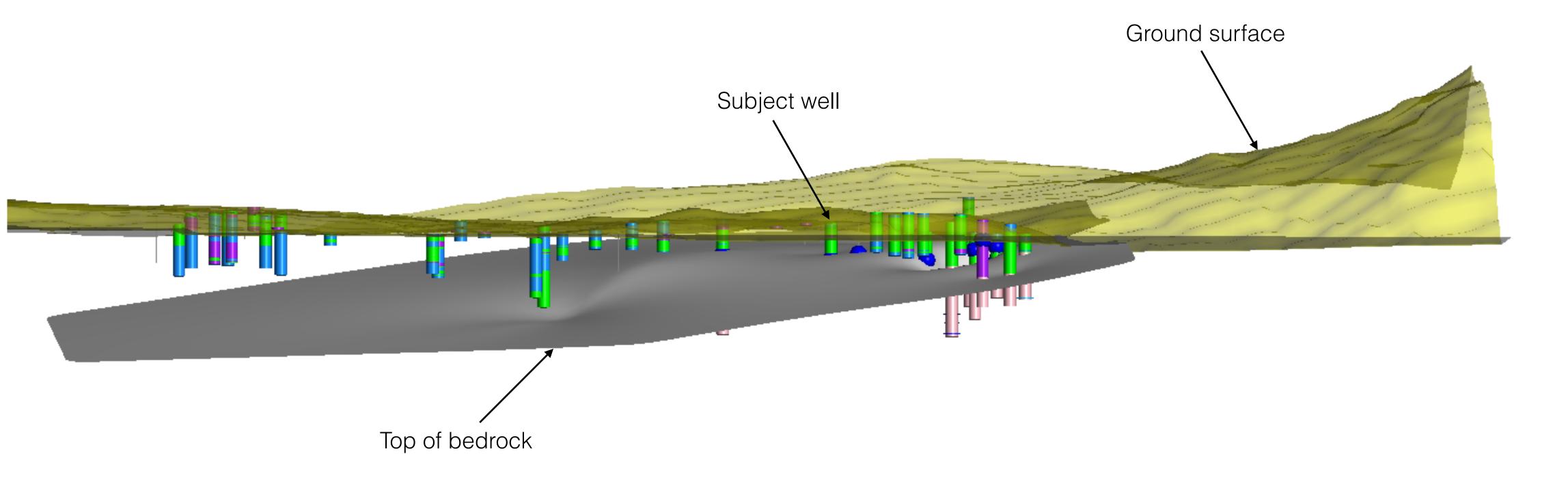
### 3D Visualisation (Looking north)





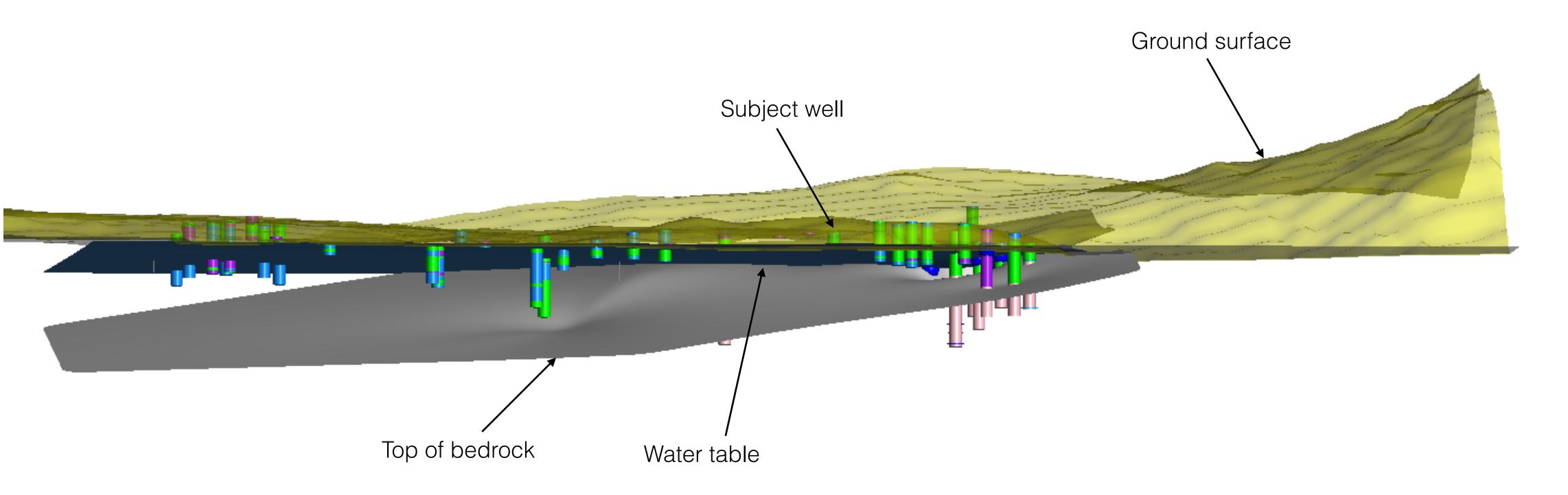
### Top of bedrock



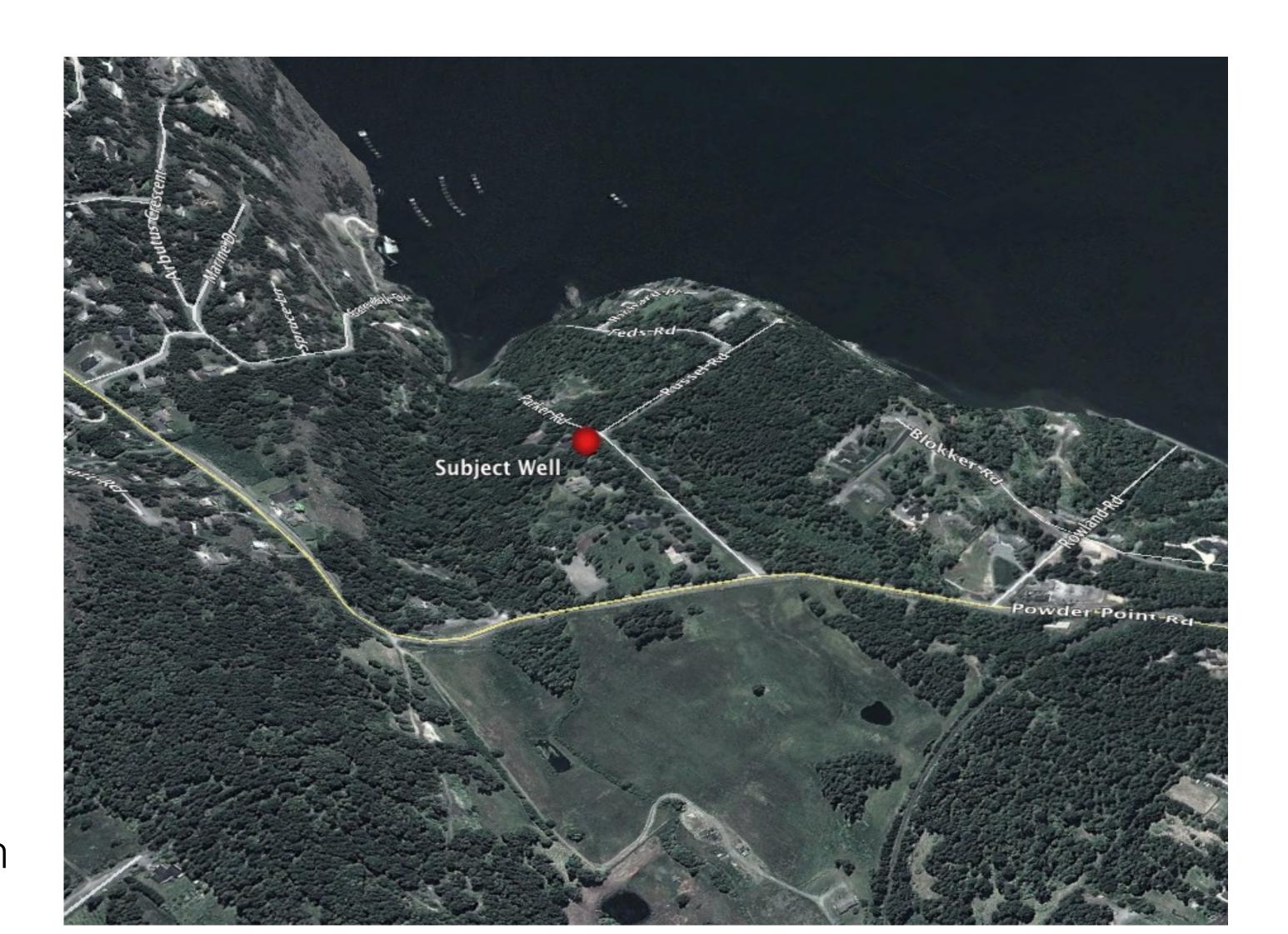


### Top of bedrock and water table



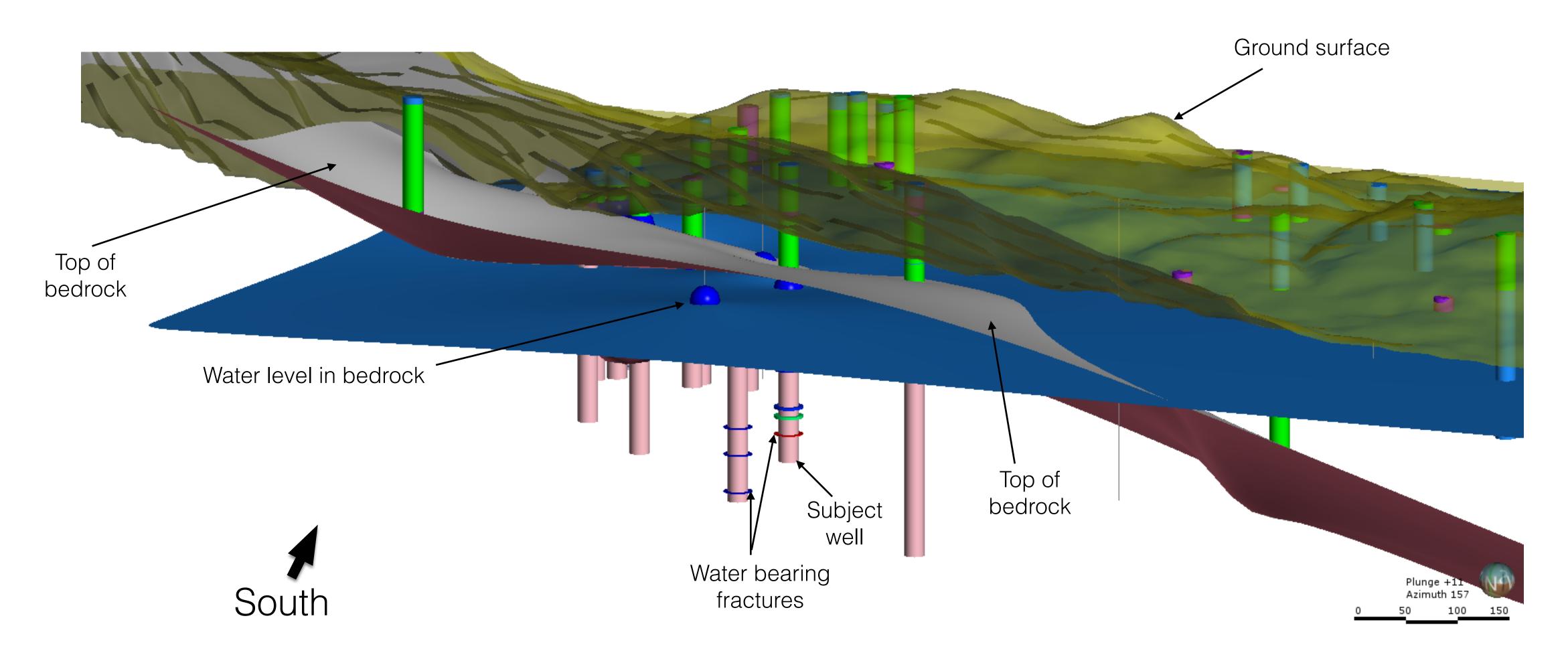


### Aerial view (looking south)

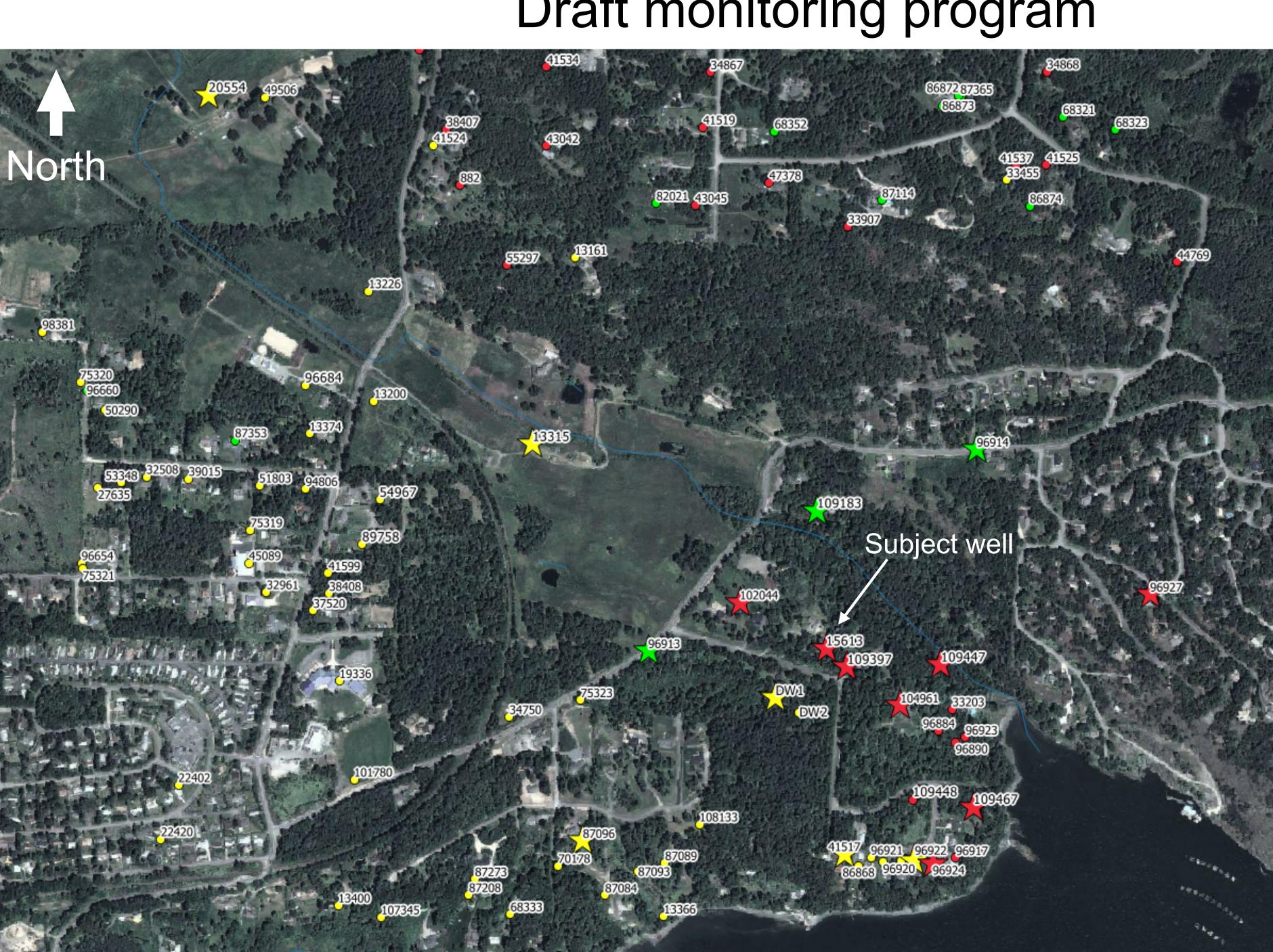




# Top of bedrock and water table (looking south)



#### Draft monitoring program





- Bedrock
- Overburden
- Unknown

#### Proposed monitored wells



## DRAFT CS.

- 6 hours pumping test in dry season (July or August) for a gross assessment of the aquifer behaviour. Water levels will be monitored in the selected wells.
- One month pumping test at an intermediate flow rate (50 Usgpm?).
  - o to perform flowmeter test during this pump test to confirm locations and inflows along the borehole
  - o increasing flow rate to 75 USgpm (in last few days of testing) to stress the aquifer and to monitor its reaction



## DRAFT CS.

Interpretation of data: Assess longterm capacity of aquifer and compare observed drawdowns to modeled drawdowns.



## DRAFT MOLET GUALLY MONLEOTLING

- Subject well: to record real time in-situ parameters (pH, temperature, electrical conductivity, dissolved oxygen)
- In monitored wells (including subject well): to collect a water sample for potability analysis at the beginning of the test and at the end of the pumping test.



#### **DRAFT** Monitoring of Maelstrom Creek



3 flow gauges

Level and flow monitoring

MACIAL COLL