

METROLINK

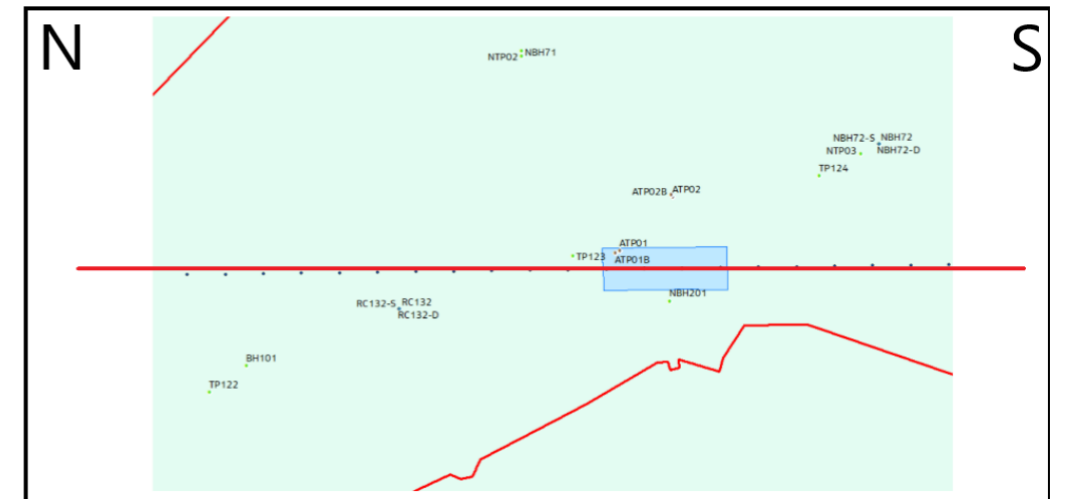
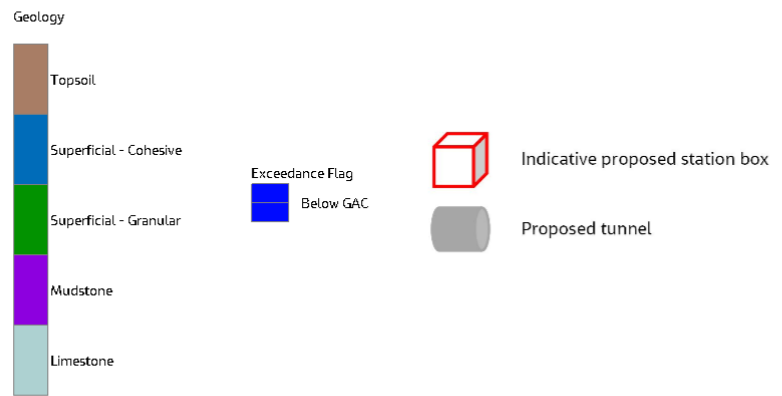
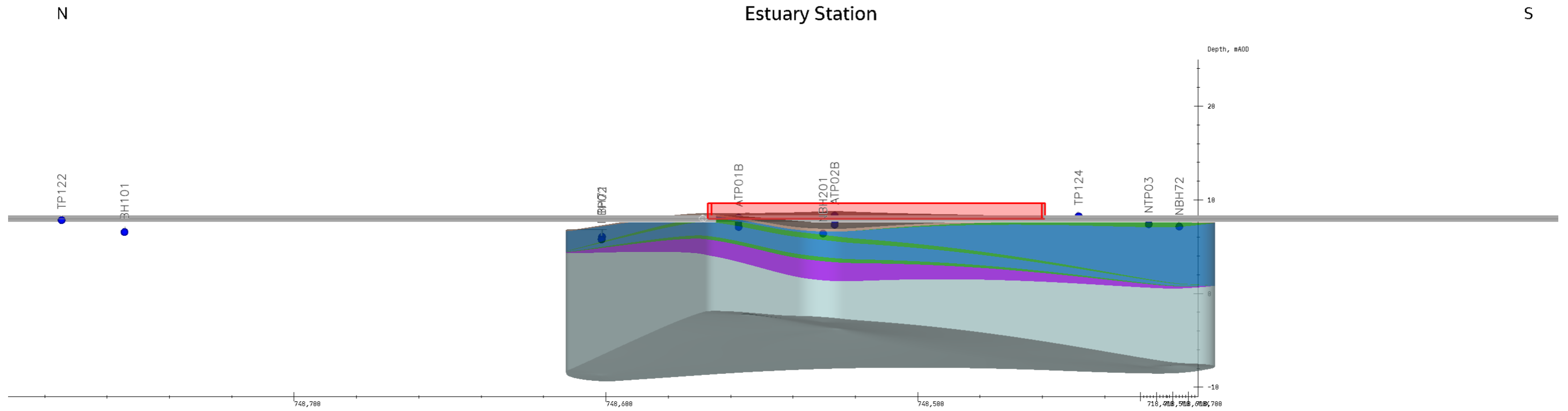
Integrated Transport. Integrated Life.

A20.4

**Geological
Models:
Stations**

Appendix A20.4 - Geological Models: Stations

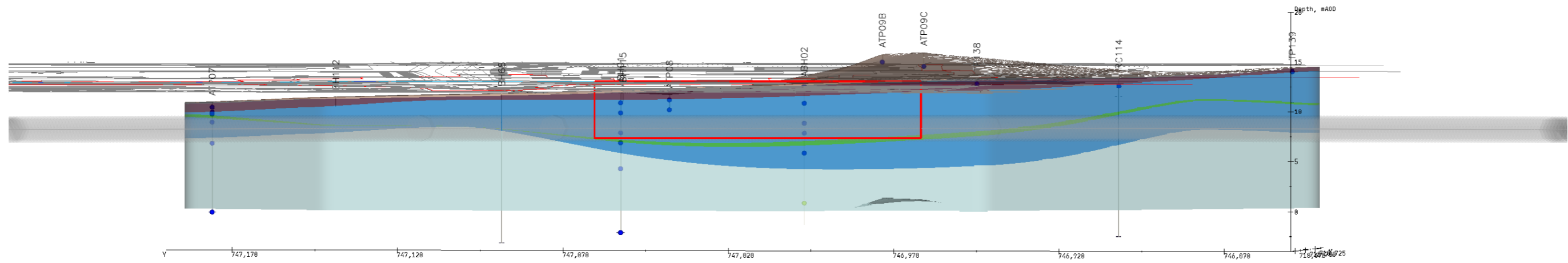
The geological and soil geochemical screening information has been incorporated into models using Earth Volumetric Studio (EVS) 3D modelling software (C Tech Development Corporation, Earth Volumetric Studio Version 2020.12, licensed for use by Jacobs). The observed geology from Ground Investigation locations has been interpolated by EVS using statistical kriging to determine the vertical extents of each stratigraphic layer. The result of the screening of soil geochemical data against residential human health generic assessment criteria (GAC) have been included within the models to allow 3D characterisation of the geochemical data within the sub-surface. (Please refer to Appendix 20.5 for an explanation of GAC). The sections presented within this Appendix are a 2D representation of a 3D model.



N

Seatown Station

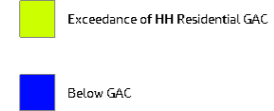
S



Geology



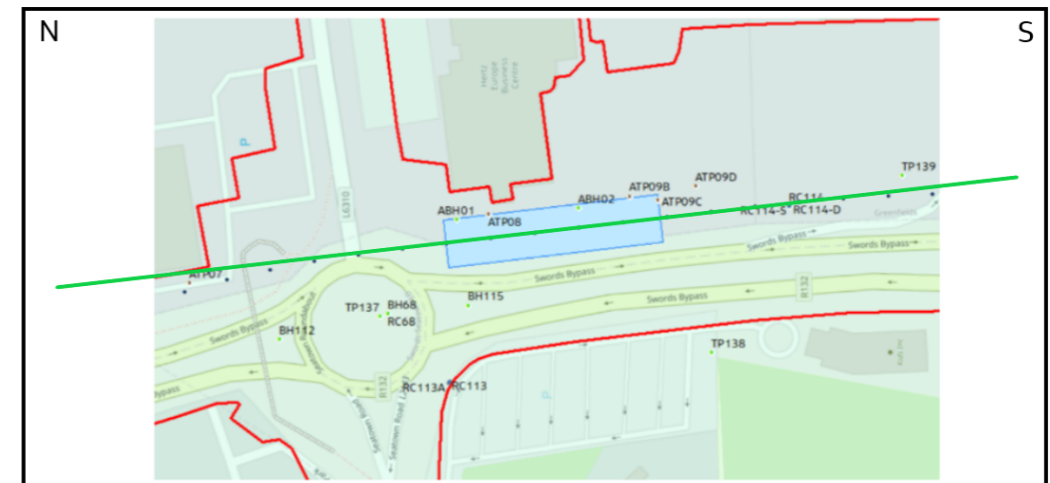
Exceedance Flag



Indicative proposed station box



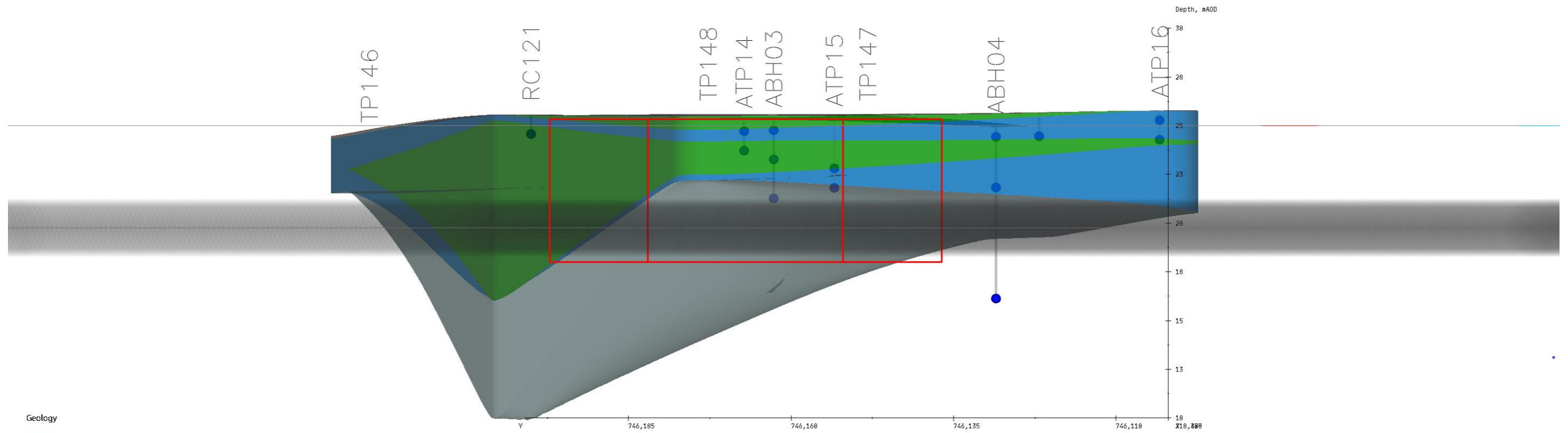
Proposed cutting



N

Swords Central Station

S



Geology

- Topsoil
- Tarmac
- Concrete
- Made Ground
- Superficial - Granular
- Superficial - Cohesive
- Limestone

Exceedance Flag
 Below GAC

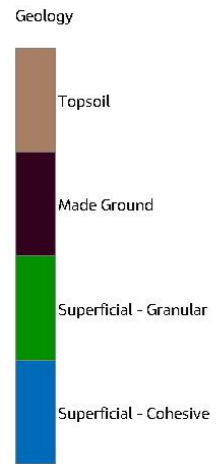
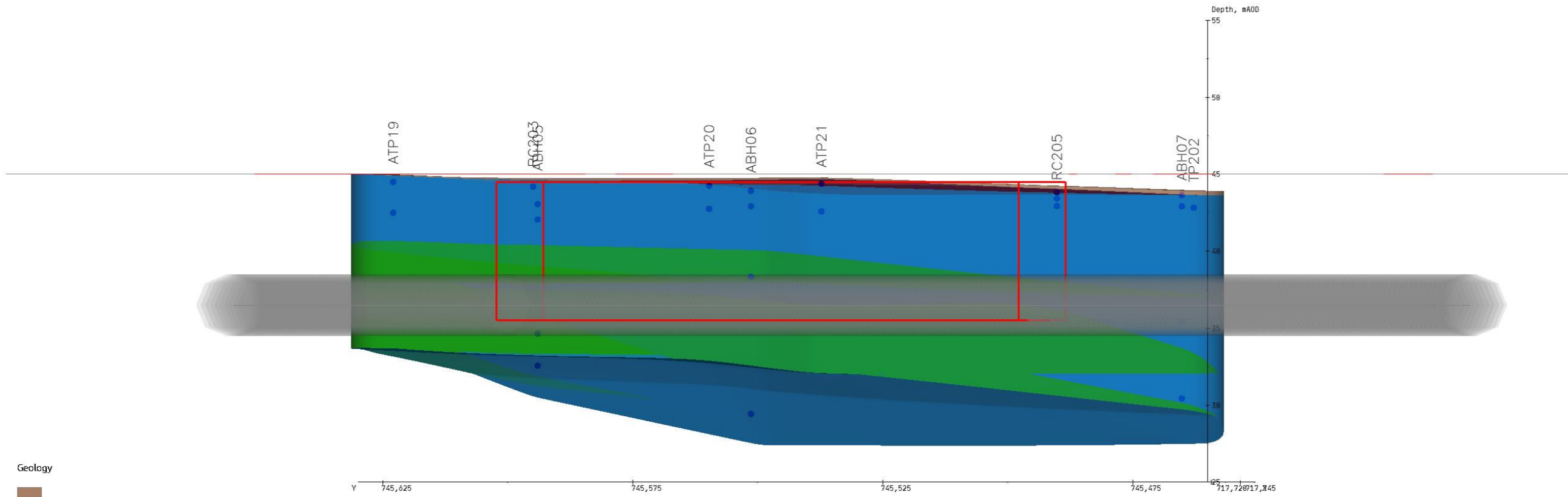
- Indicative proposed station box
- Proposed cutting



N

Fostertown Station

S



Exceedance Flag
 Below GAC

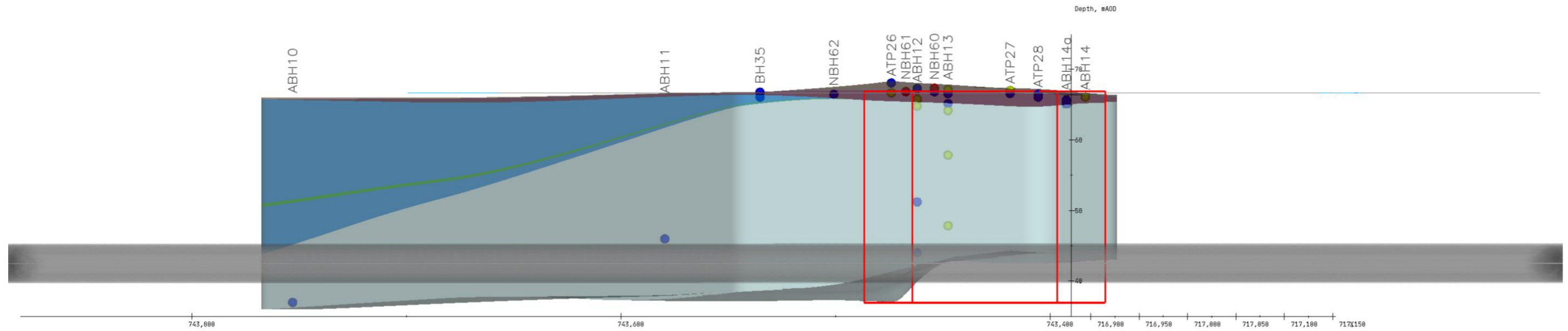
Indicative proposed station box
 Proposed cutting



N

Dublin Airport

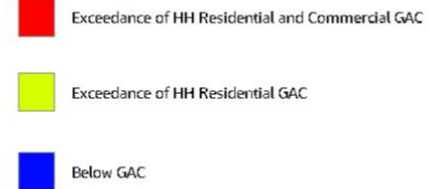
S



Geology



Exceedance Flag



Indicative proposed station box



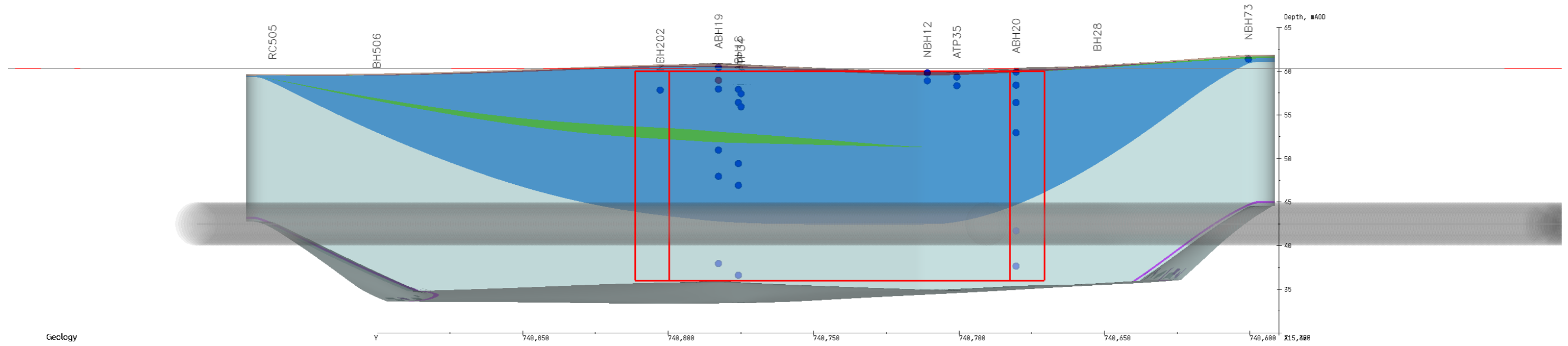
Proposed tunnel



N

Northwood Station

S



Geology

- Topsoil
- Made Ground
- Superficial - Granular
- Superficial - Cohesive
- Mudstone
- Limestone

Exceedance Flag

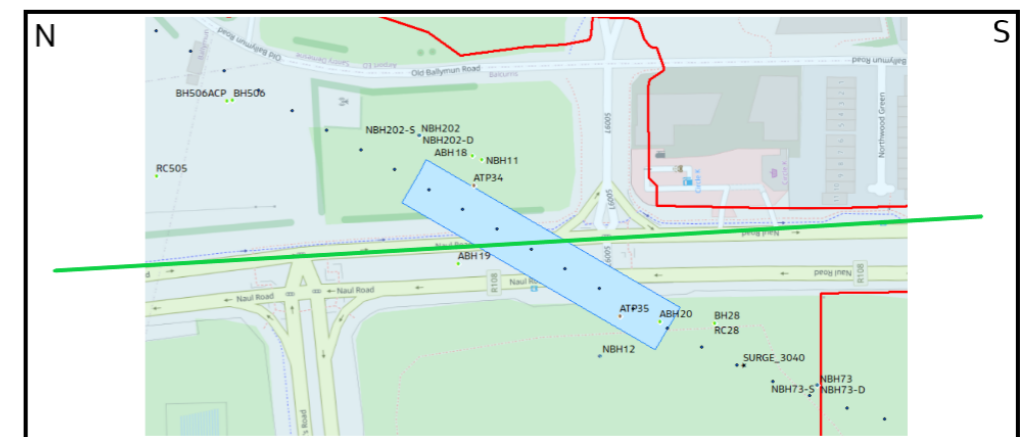
- Exceedance of HH Residential and Commercial GAC
- Exceedance of HH Residential GAC
- Below GAC



Indicative proposed station box



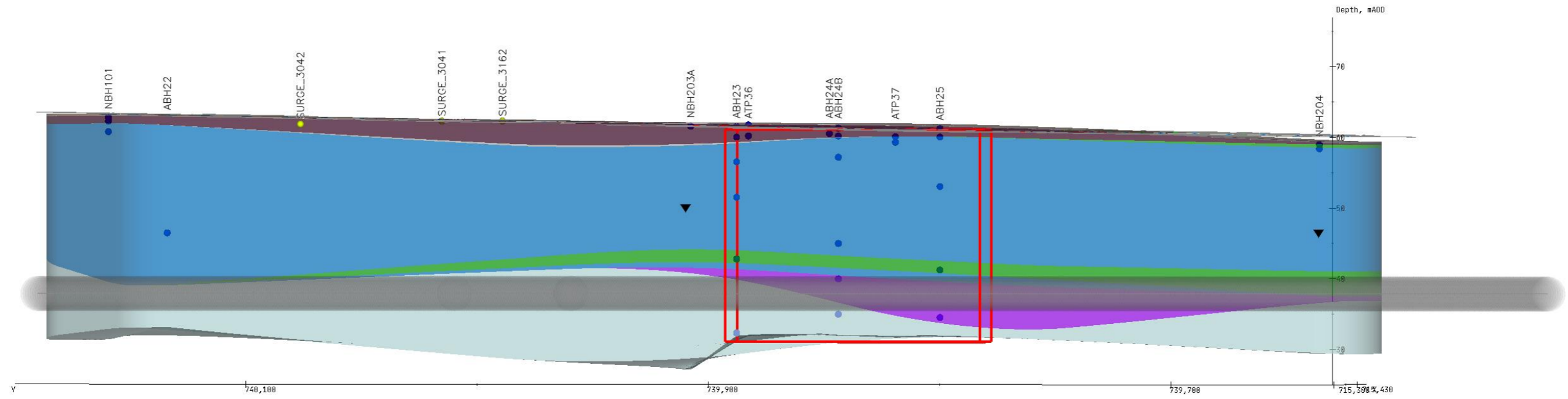
Proposed tunnel



N

Ballymun Station

S



Geology

- Topsoil
- Tarmac
- Concrete
- Made Ground
- Superficial - Granular
- Superficial - Cohesive
- Mudstone
- Limestone

Exceedance Flag

- Exceedance of HH Residential GAC
- Below GAC



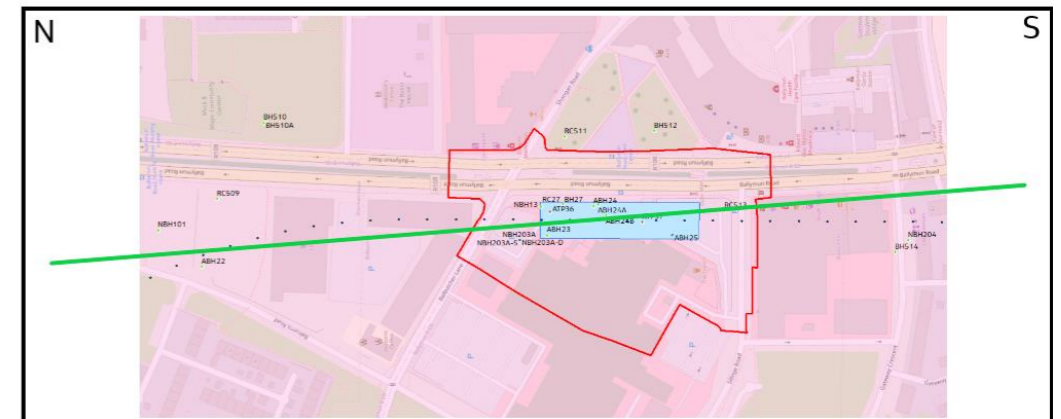
Observed groundwater level



Indicative proposed station box



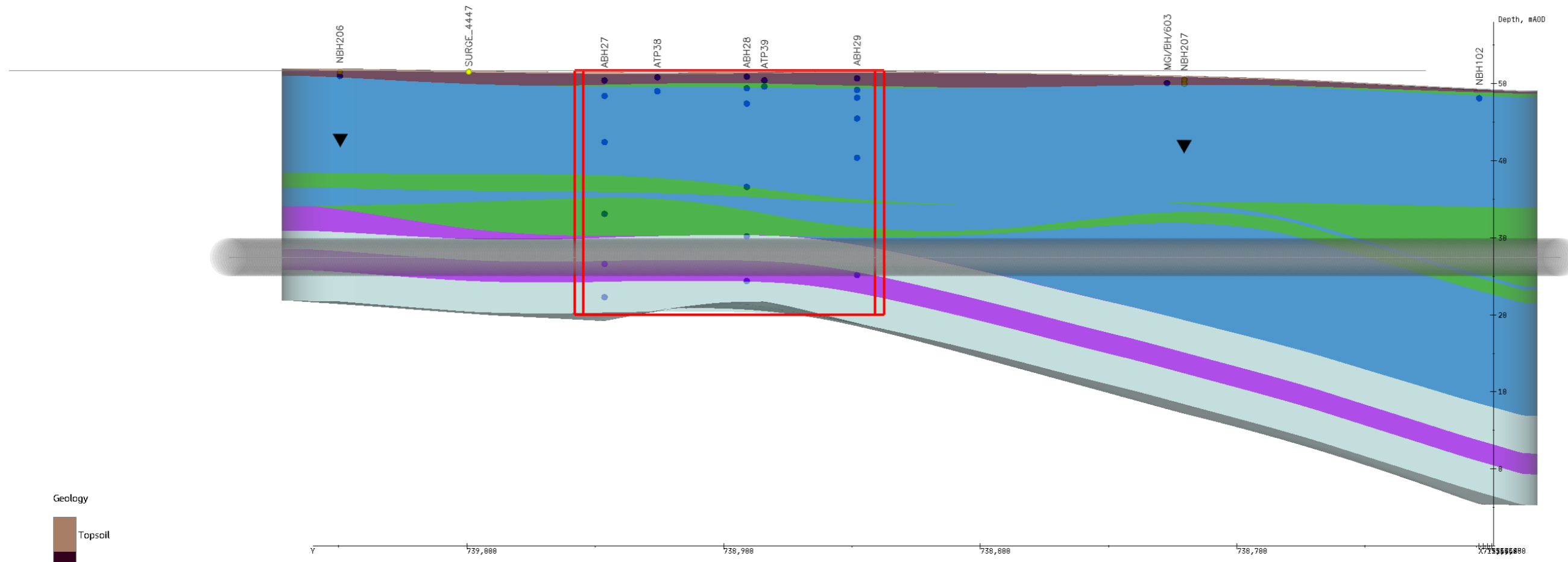
Proposed tunnel



N

Collins Avenue Station

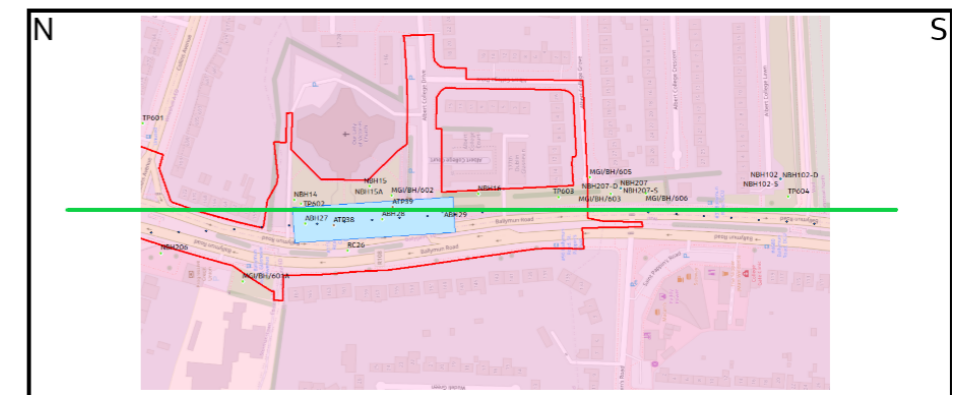
S



- Geology
- Topsoil
 - Made Ground
 - Concrete
 - Superficial - Granular
 - Superficial - Cohesive
 - Mudstone
 - Limestone

- Exceedance Flag
- Exceedance of HH Residential GAC
 - Below GAC

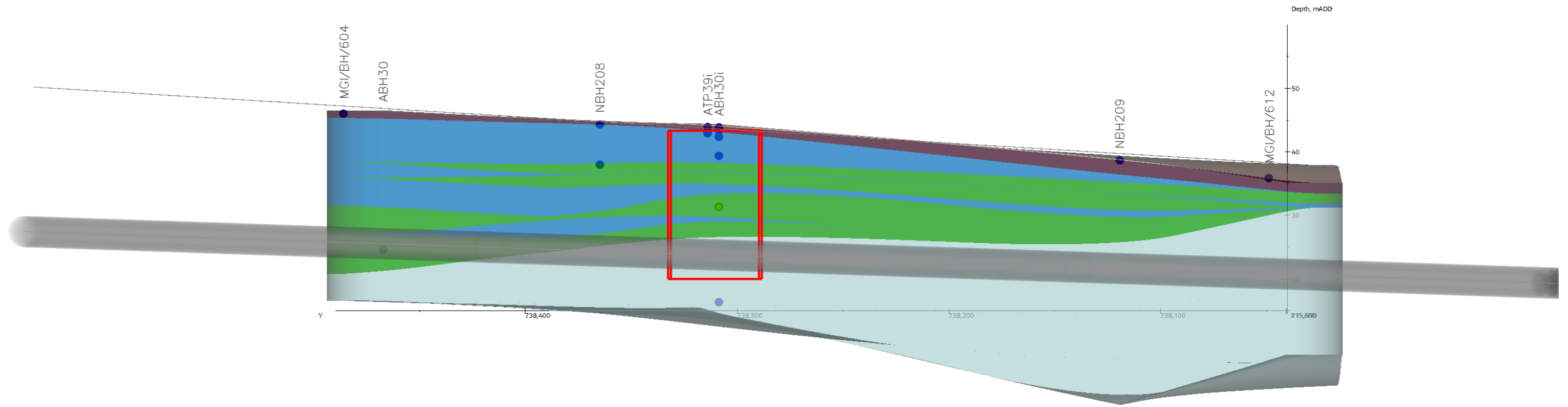
- Observed groundwater level
- Indicative proposed station box
- Proposed tunnel



N

Intervention Shaft/ Albert College Park

S



Geology

- Topsoil
- Tarmac
- Concrete
- Made Ground
- Superficial - Granular
- Superficial - Cohesive
- Mudstone
- Limestone

Exceedance Flag

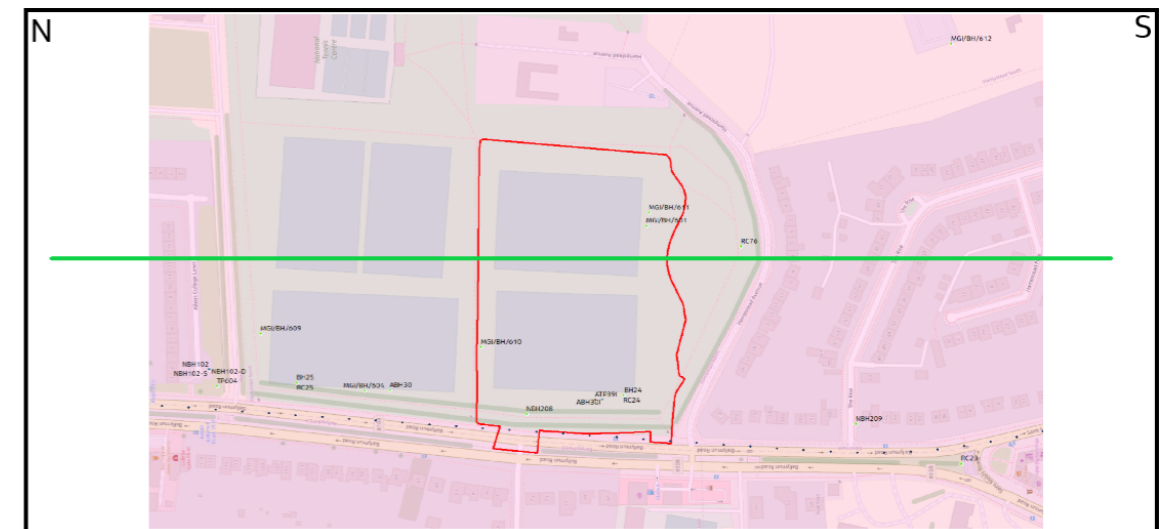
- Exceedance of HH Residential GAC
- Below GAC



Indicative proposed station box



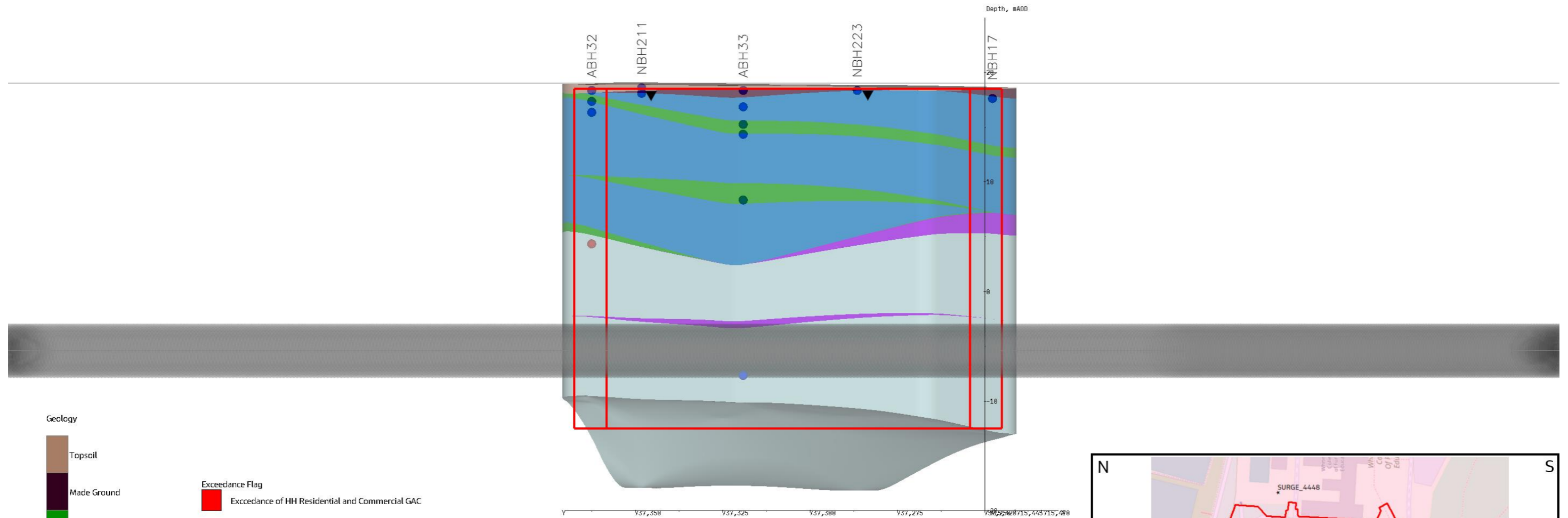
Proposed tunnel



N

Griffith Park Station

S



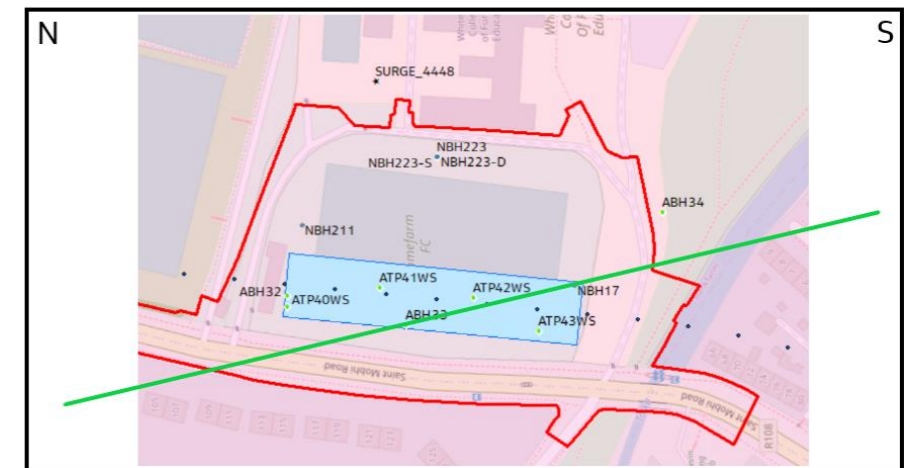
Geology

- Topsoil
- Made Ground
- Superficial - Granular
- Superficial - Cohesive
- Mudstone
- Limestone

Exceedance Flag

- Exceedance of HH Residential and Commercial GAC
- Exceedance of HH Residential GAC
- Below GAC

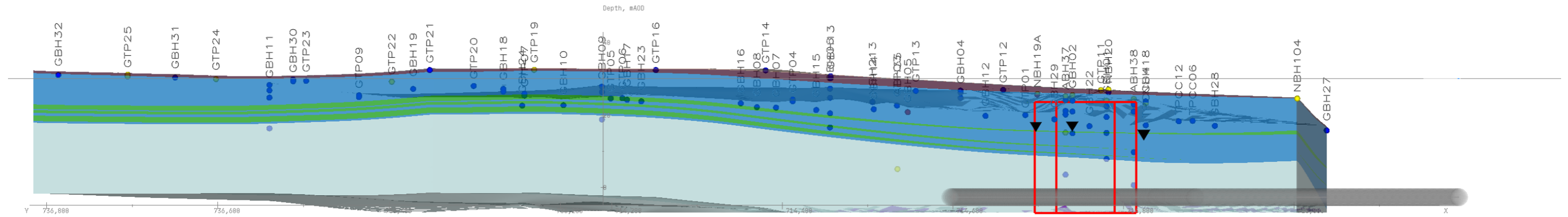
- Observed groundwater level
- Indicative proposed station box
- Proposed tunnel



W

Glasnevin Station

E



Geology

- Topsoil
- Tarmac
- Concrete
- Made Ground
- Superficial - Granular
- Superficial - Cohesive
- Mudstone
- Limestone

Exceedance Flag

- Exceedance of HH Residential and Commercial GAC
- Exceedance of HH Residential GAC
- Below GAC



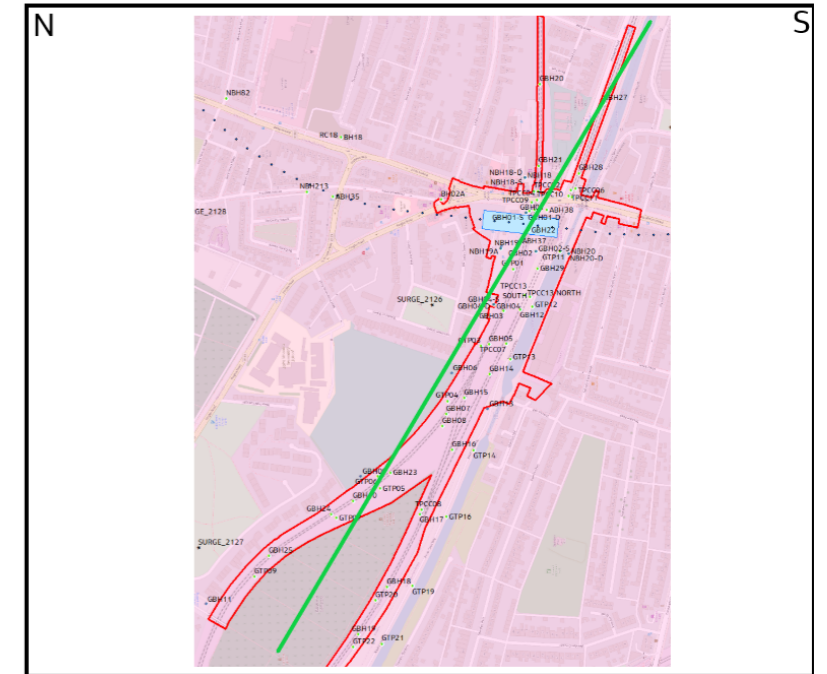
Observed groundwater level

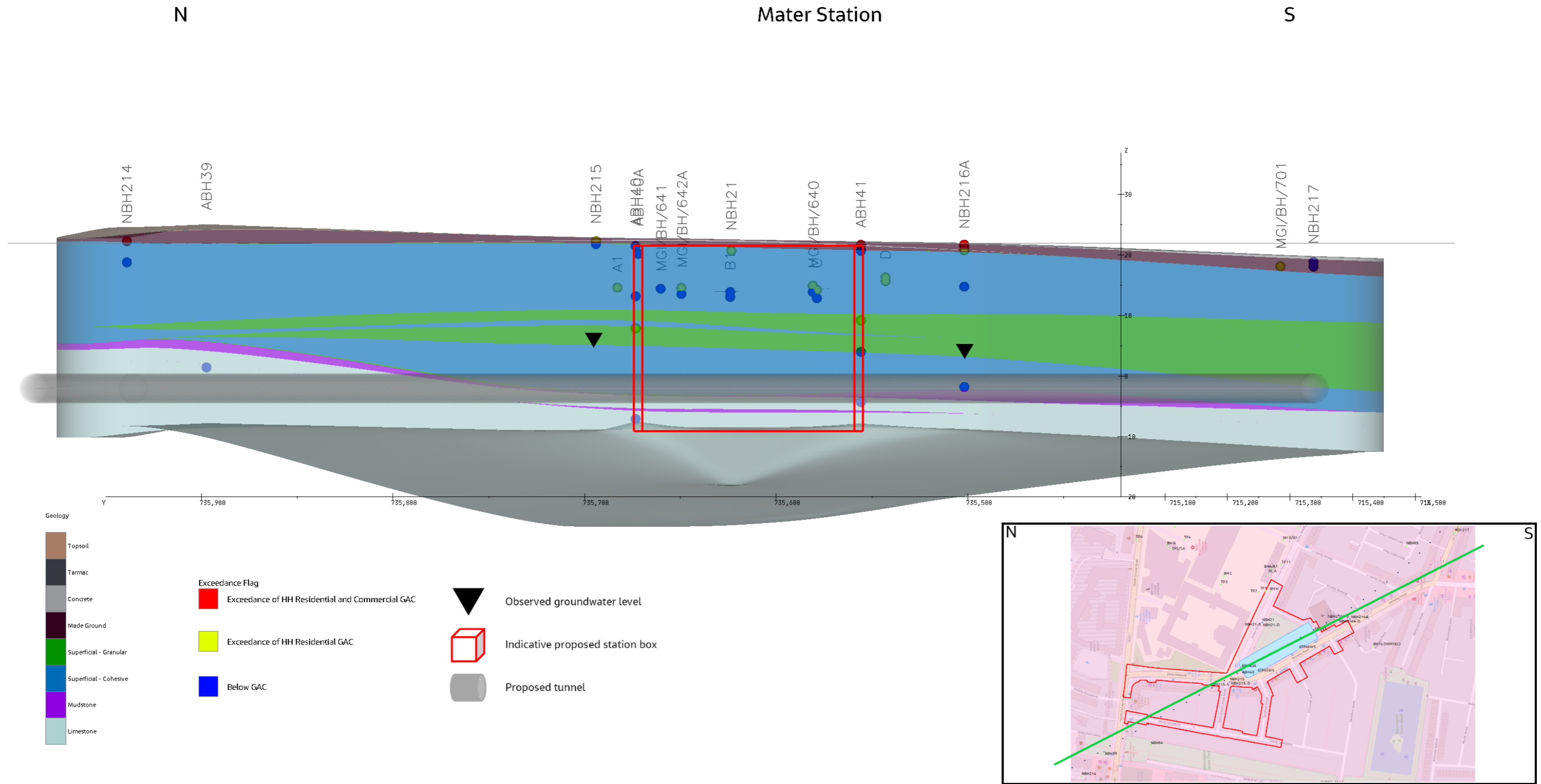


Indicative proposed station box



Proposed tunnel

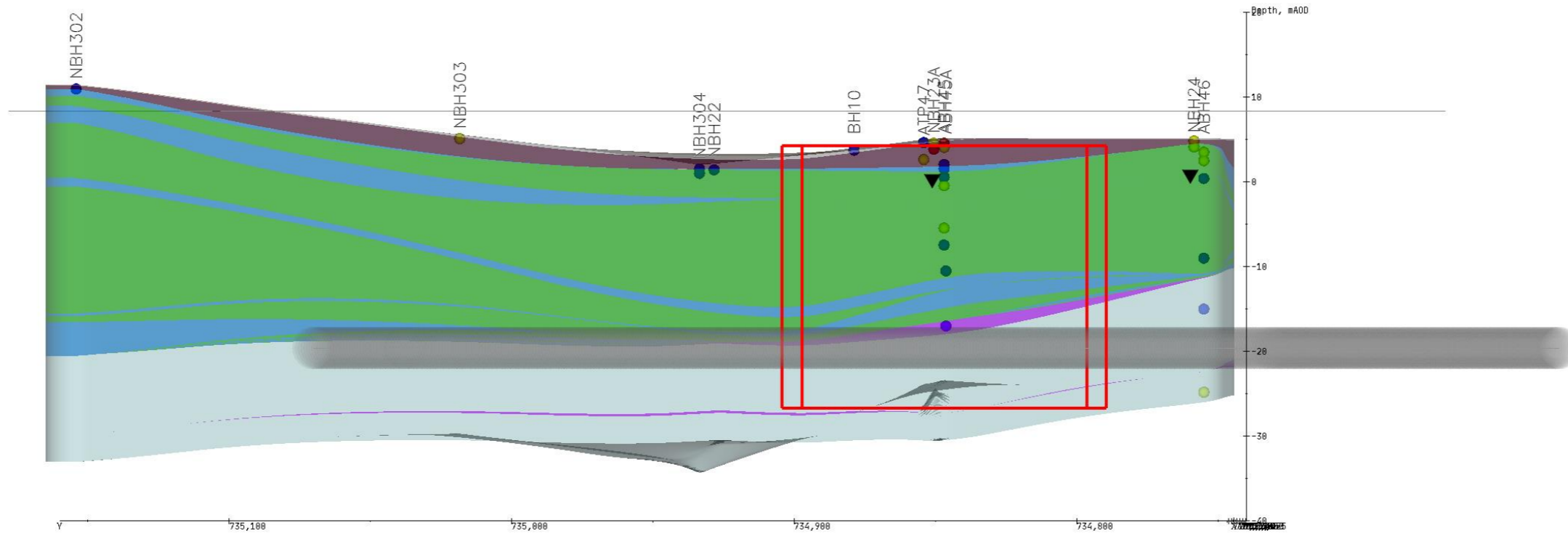




N

O'Connell Station

S



Geology

- Topsoil
- Concrete
- Made Ground
- Superficial - Granular
- Superficial - Cohesive
- Mudstone
- Limestone

Exceedance Flag

- Exceedance of HH Residential & Commercial GAC
- Exceedance of HH Residential GAC
- Below GAC



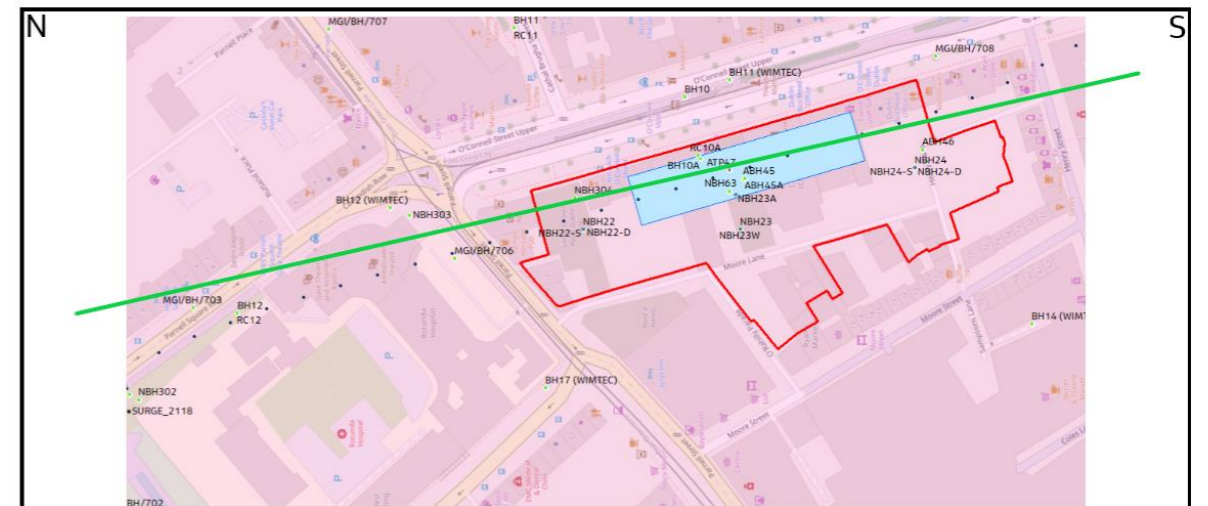
Observed groundwater level



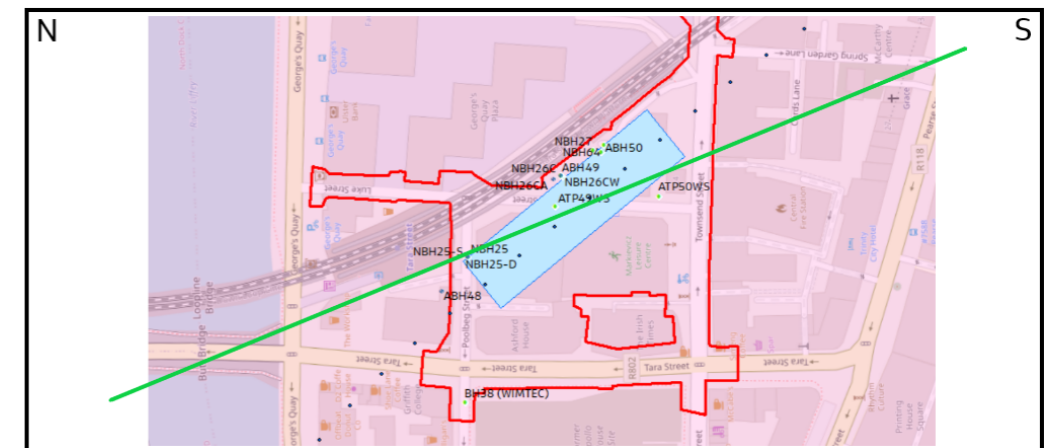
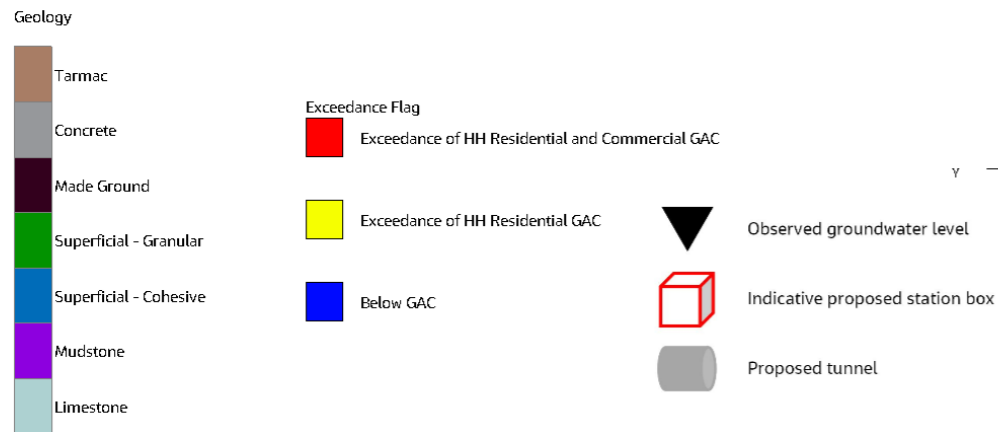
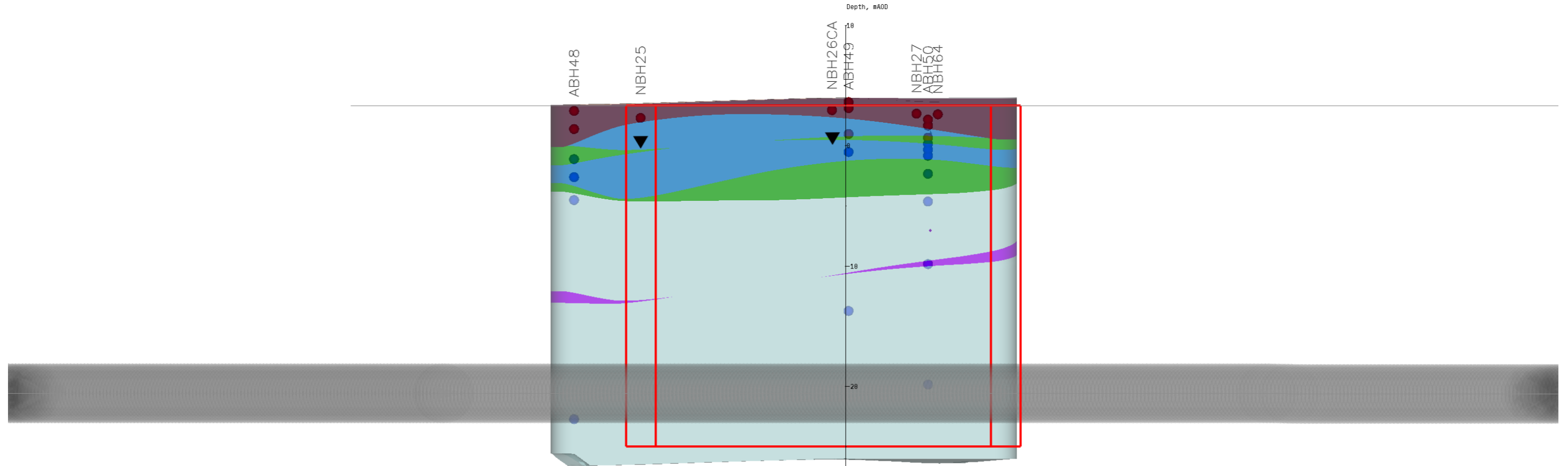
Indicative proposed station box



Proposed tunnel



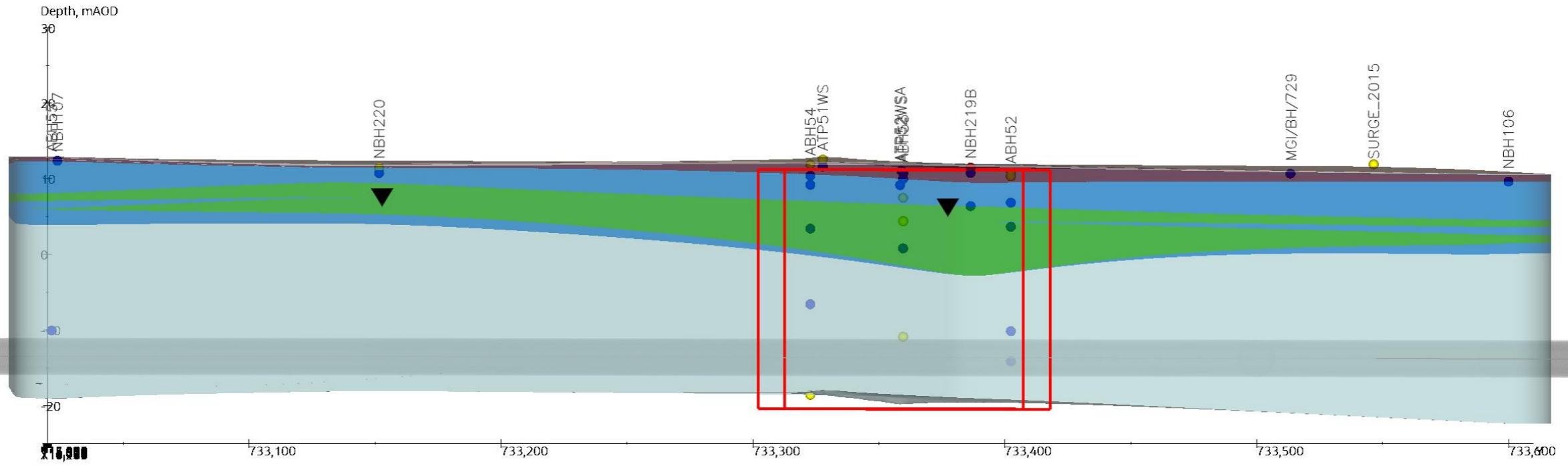
N Tara Station S



S

St Stephen's Green Station

N



Geology

- Topsoil
- Tarmac
- Concrete
- Made Ground
- Superficial - Granular
- Superficial - Cohesive
- Limestone

Exceedance Flag

- Exceedance of HH Residential and Commercial GAC
- Exceedance of HH Residential GAC
- Below GAC



Observed groundwater level



Indicative proposed station box



Proposed tunnel



N

Charlemont Station

S

