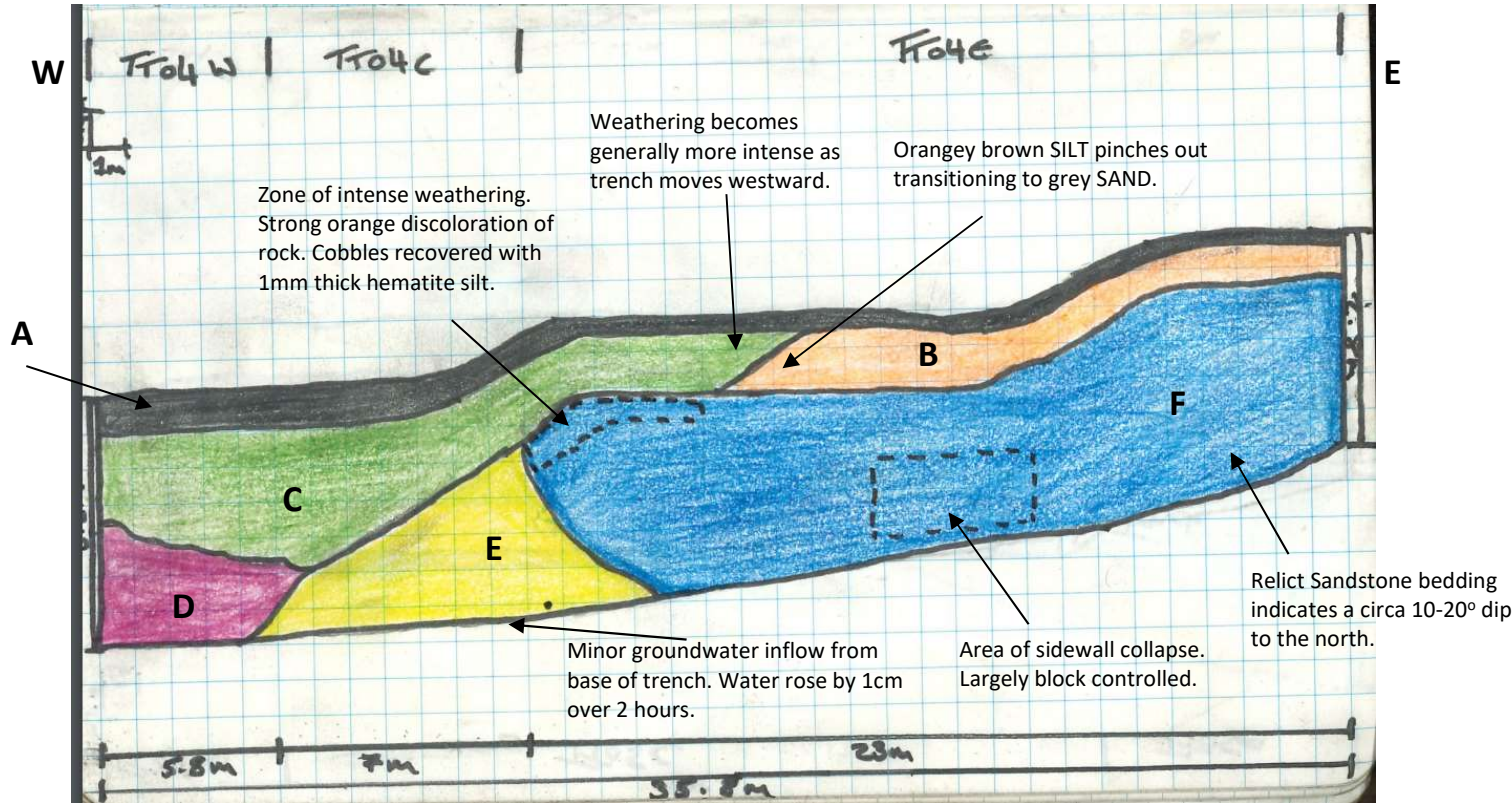


Appendix I A - Trial Trench Records (ESP, 2022)

TRIAL TRENCH RECORD SHEET

Site:	Afan Valley Resort, Croeserw	Trench No. TT04
Project No.	8053	
Date of Excavation:	22 nd June 2022	

Section:



Details:

TT04 has Grid Reference of 285061, 195615, 280.1mOD.

Coordinates and ground levels obtained using Geode GNS2 - Horizontal accuracy 16.4cm. Vertical accuracy 25.1cm.

Trial trench excavated to a depth of 3.2m to establish ground conditions and identify suspected geological fault.

Service plans inspected and trial pit position scanned with CAT & Genny prior to breaking ground.

Trial pit concluded on dense bedrock at base of the trench.

Trial trench backfilled with arisings upon completion.

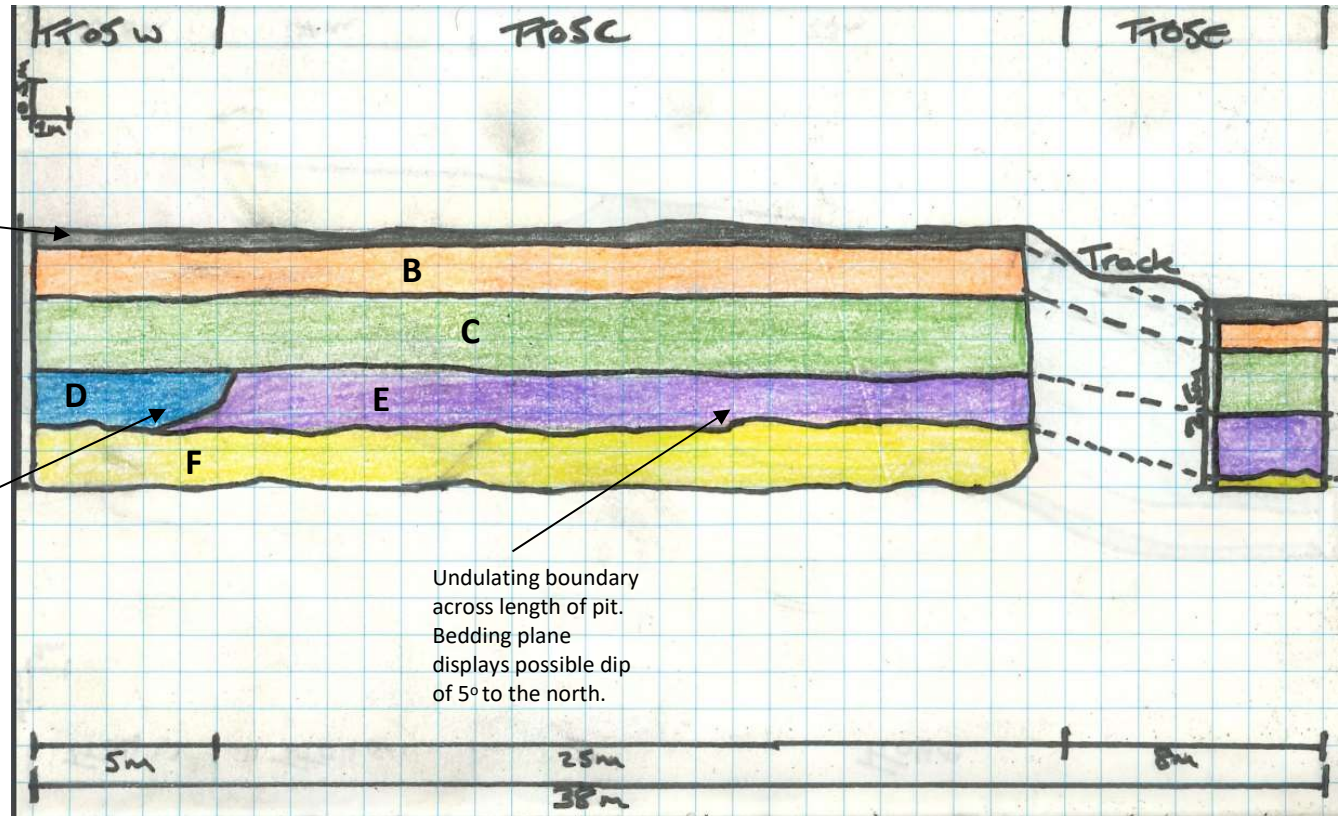
Soils Encountered:

- A. Soft dark brown, clayey SILT. Moderately compressible with no water released on compression. No odour. Abundant rootlets. Grass overlain. Rare branches present. (ORGANIC RICH TOPSOIL).
- B. Soft orange-brown gravelly sandy SILT. Sand is fine to coarse, gravel is fine to coarse angular to subrounded consisting of sandstone. (PROBABLE GRADE VI RHONDDA MEMBER).
- C. Medium dense grey, gravelly silty clayey SAND with low cobble and boulder content. Sand is fine to coarse. Gravel is fine to coarse angular to subrounded consisting of Sandstone. Sandstone cobbles and boulders are strong, angular measuring up to 290mm. (PROBABLE GRADE IV/III RHONDDA MEMBER).
- D. Dense grey sandy fine to coarse angular to subangular sandstone GRAVEL with high cobble and moderate boulder content. Sand is fine to coarse. Sandstone cobbles and boulders are strong, angular measuring up to 410mm. (PROBABLE GRADE II RHONDDA MEMBER).
- E. Dense orange mottled brown, sandy silty fine to coarse angular to subangular sandstone GRAVEL with high cobble and boulder content. Sand is fine to coarse. Sandstone cobbles and boulders are strong, angular measuring up to 440mm with mudstone and siltstone lenses measuring up to 8mm in thickness. (PROBABLE GRADE II RHONDDA MEMBER).
- F. Dense dark brown gravelly sandy COBBLES with many boulders. Sand is fine to coarse. Gravel is fine to coarse angular to subangular consisting of sandstone. Sandstone cobbles and boulders are strong angular to subangular, tabular, measuring up to 490mm, with abundant 1mm thick well developed mudstone laminae. (PROBABLE GRADE I/II RHONDDA MEMBER).

TRIAL TRENCH RECORD SHEET

Site:	Afan Valley Resort, Croeserw	Trench No. TT05
Project No.	8053	
Date of Excavation:	21 st June 2022	

Section:



Details:

TT05 has Grid Reference 286070, 195529, 290.82mOD.

Coordinates and ground levels obtained using Geode GNS2 - Horizontal accuracy 29.4cm. Vertical accuracy 40.8cm.

Trial trench excavated to a depth of 3.5m to establish ground conditions and identify suspected geological fault.

Service plans inspected and trial pit position scanned with CAT & Genny prior to breaking ground.

Trial trench concluded on dense bedrock was encountered at base of pit.

Trial trench backfilled with arisings upon completion.

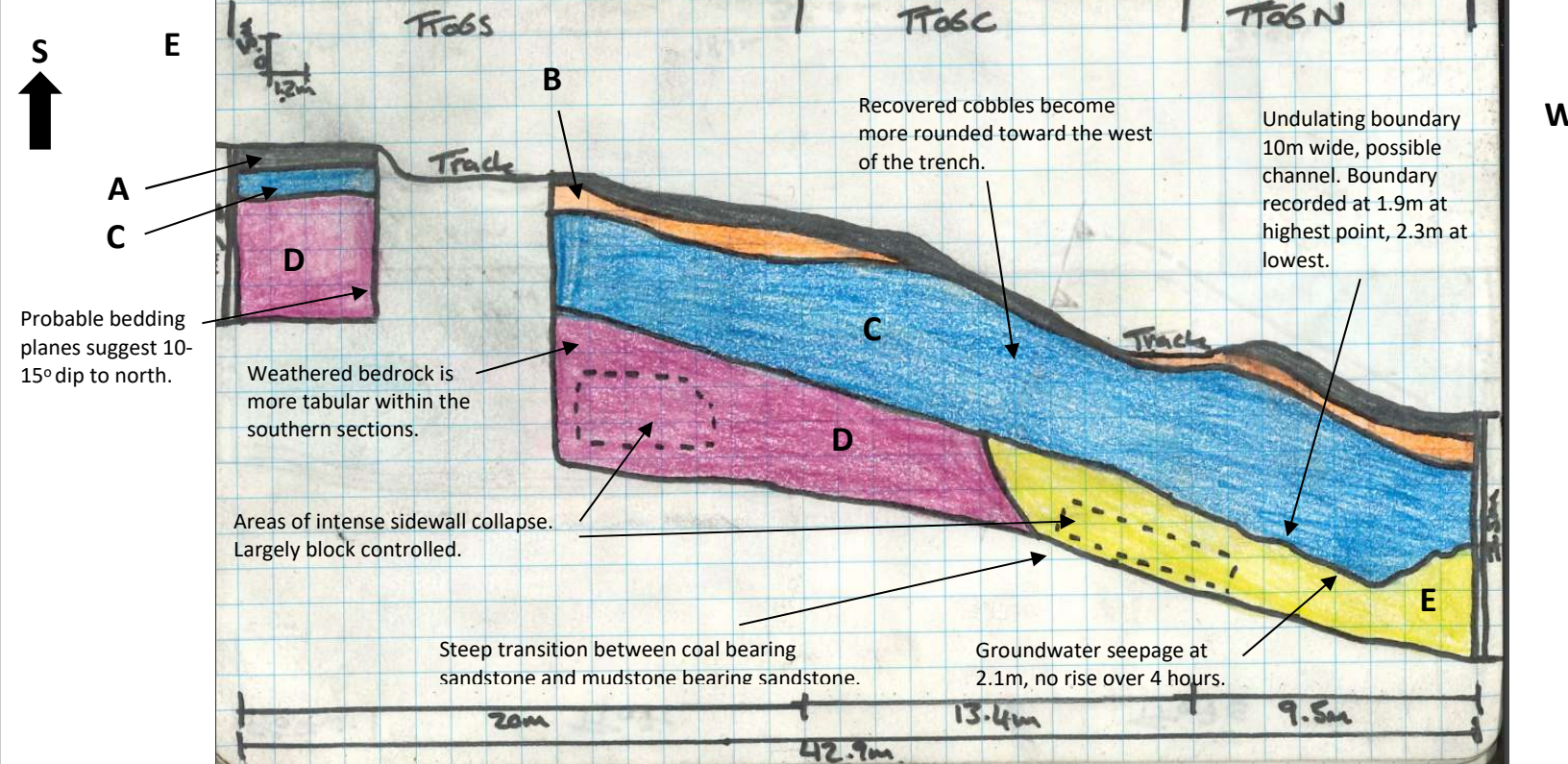
Soils Encountered:

- A. Soft dark brown clayey SILT. Moderately compressible with no water released on compression. No odour. Abundant rootlets. Grass overlain. Rare branches present. (ORGANIC RICH TOPSOIL).
- B. Soft orange-brown slightly gravelly silty fine to coarse SAND. Gravel is fine to coarse subangular to subrounded consisting of mudstone and siltstone. (PROBABLE GRADE VI RHONDDA MEMBER).
- C. Medium dense brown sandy silty fine to coarse angular to subangular mudstone and siltstone GRAVEL with low cobble content. Sand is fine to coarse. Siltstone cobbles are strong, angular to subangular measuring up to 160mm. (PROBABLE GRADE III RHONDDA MEMBER).
- D. Dense grey mottled black sandy silty fine to coarse angular GRAVEL of siltstone and coal with moderate cobble and boulder content. Sand is fine to coarse. Siltstone cobbles and boulders are strong, angular measuring up to 300mm. (PROBABLE GRADE III/II RHONDDA MEMBER).
- E. Dense grey very sandy fine to coarse angular GRAVEL of siltstone and mudstone with moderate cobble and boulder content. Sand is fine to coarse. Siltstone cobbles and boulders are strong, angular measuring up to 210mm. Rounded Ironstone nodules present within siltstone clasts measuring between 30mm to 80mm. (PROBABLE GRADE II RHONDDA MEMBER).
- F. Dense dark grey very gravelly sandy COBBLES with many boulders. Sand is fine to coarse, gravel is fine to coarse angular consisting of siltstone and mudstone. Siltstone cobbles and boulders are strong, angular measuring up to 470mm. (PROBABLE GRADE I RHONDDA MEMBER).

TRIAL TRENCH RECORD SHEET

Site:	Afan Valley Resort, Croeserw	Trench No. TT06
Project No.	8053	
Date of Excavation:	24 th June 2022	

Section:



Details:

TT06 has Grid Reference 284995, 195863, 254.40mOD.

Coordinates and ground levels obtained using Geode GNS2 - Horizontal accuracy 17.1cm. Vertical accuracy 26.2cm.

Trial trench excavated to a depth of 3.5m to establish ground conditions and identify suspected geological fault.

Service plans inspected and trial pit position scanned with CAT & Genny prior to breaking ground.

Layer B, possibly locally removed for track construction.

Excavator breakdown during construction of trench due to difficult access, steeply sloping ground.

Trial trench concluded on dense bedrock was encountered at base of pit.

Trial trench backfilled with arisings upon completion.

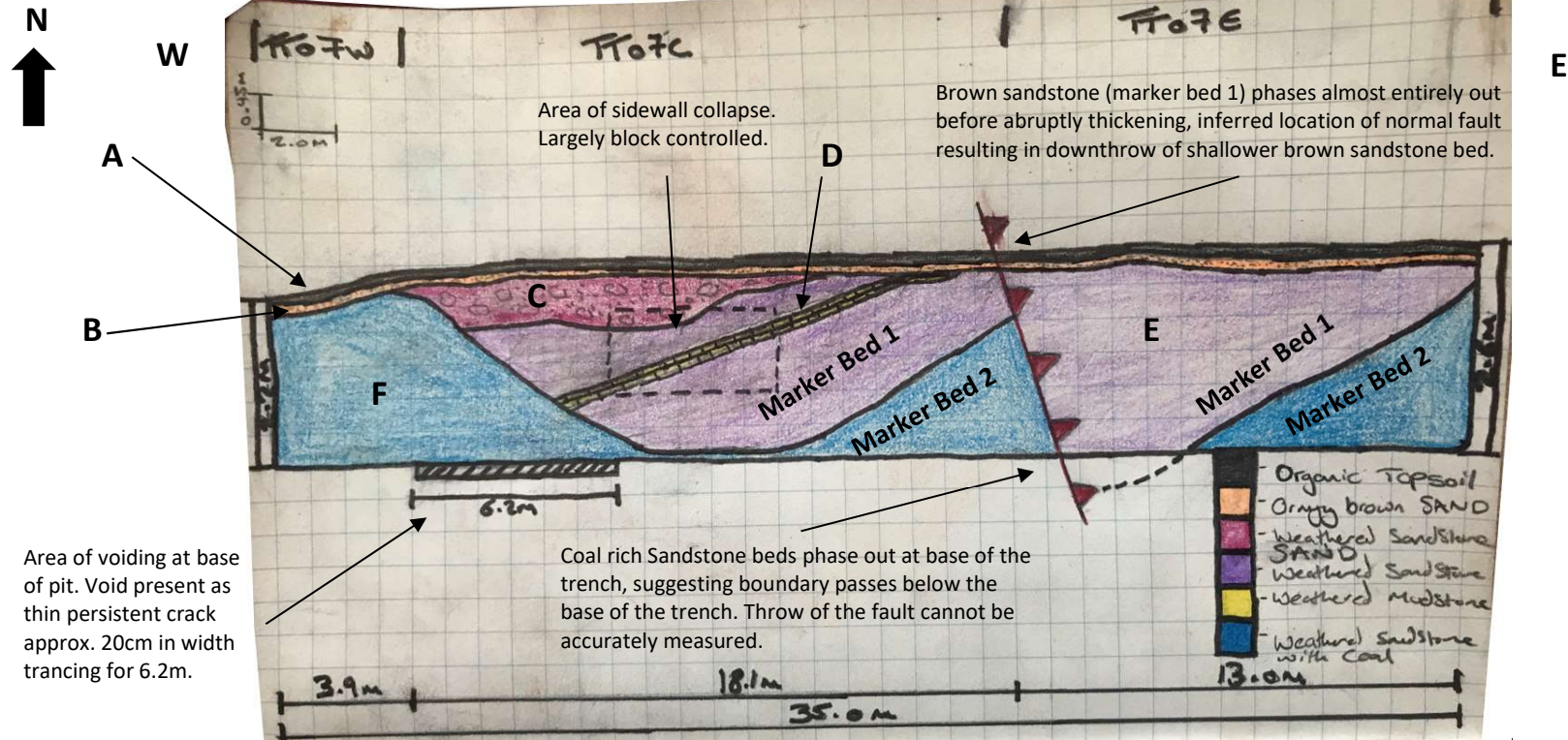
Soils Encountered:

- A. Soft dark brown clayey SILT. Moderately compressible with no water released on compression. No odour. Abundant rootlets. Grass overlain. Rare branches present. (ORGANIC RICH TOPSOIL).
- B. Soft orange-brown slightly gravelly sandy SILT. Sand is fine to coarse, gravel is fine to coarse angular to subangular consisting of Sandstone. (PROBABLE GRADE VI RHONDDA MEMBER).
- C. Medium dense dark brown, gravelly fine to coarse SAND with low cobble content. Gravel is fine to coarse angular to subrounded consisting of Sandstone. Sandstone cobbles are strong, angular measuring up to 190mm. (PROBABLE GRADE III RHONDDA MEMBER).
- D. Dense blackish brown mottled orange gravelly sandy clayey COBBLES with many boulders. Sand is fine to coarse, gravel is fine to coarse angular consisting of sandstone and coal. Sandstone cobbles and boulders are strong, angular measuring up to 340mm. Abundant black gravel and clay present as both inclusions and as a band between 2.1 and 2.3m in southern section of trench. (PROBABLE GRADE III/II RHONDDA MEMBER).
- E. Dense dark brown gravelly sandy clayey COBBLES with many boulders. Sand is fine to coarse. Gravel is fine to coarse angular to subangular consisting of Sandstone and mudstone. Sandstone cobbles and boulders are strong angular to subangular measuring up to 335mm. Mudstone cobbles and boulders are angular to subangular, moderately strong to weak measuring up to 250mm. (PROBABLE GRADE I RHONDDA MEMBER).

TRIAL TRENCH RECORD SHEET

Site:	Afan Valley Resort, Croeserw	Trench No. TT07
Project No.	8053	
Date of Excavation:	28 th June 2022	

Section:



Details:

TT07 has Grid Reference 286071, 195309, 307.88mOD.

Coordinates and ground levels obtained using Geode GNS2 - Horizontal accuracy 18cm. Vertical accuracy 28cm.

Trial trench excavated to a depth of 2.5m to establish ground conditions and identify suspected geological fault.

Service plans inspected and trial pit position scanned with CAT & Genny prior to breaking ground.

Trial trench concluded on dense bedrock was encountered at base of pit.

Trial trench backfilled with arisings upon completion.

Soils Encountered:

- A. Soft dark brown clayey SILT. Moderately compressible with no water released on compression. No odour. Abundant rootlets. Grass overlain. Rare branches present. (ORGANIC RICH TOPSOIL).
- B. Soft orange-brown slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse subangular to subrounded consisting of Sandstone. (PROBABLE HEAD DEPOSITS).
- C. Medium dense dark brown gravelly fine to coarse SAND with medium cobble and boulder content. Gravel is fine to coarse angular to subrounded consisting of Sandstone. Sandstone cobbles and boulders are strong, angular measuring up to 400mm. (PROBABLE GRADE III RHONDDA MEMBER).
- D. Dense light brown fine to coarse angular mudstone GRAVEL with low cobble and boulder content. Mudstone cobbles and boulders are moderately strong, angular measuring up to 210mm. (PROBABLE GRADE II RHONDDA MEMBER).
- E. Dense brown gravelly sandy angular COBBLES with many boulders. Sand is fine to coarse. Gravel is fine to coarse angular to subangular consisting of Sandstone. Sandstone cobbles and boulders are strong angular to subangular measuring up to 660mm. (PROBABLE GRADE II/I RHONDDA MEMBER).
- F. Dense blackish brown, gravelly sandy COBBLES with many boulders. Sand is fine to coarse. Gravel is fine to coarse angular to subangular consisting of Sandstone and Coal. Sandstone cobbles and boulders are strong angular to subangular measuring up to 420mm. (PROBABLE GRADE I RHONDDA MEMBER).

