LT521 – Bingally 400kV Substation

Access Track Peat Probing and Coring GI Summary Note

Report Reference:
BING4-LT521-SEBAM-EWKS-ZZ-RPT-G-0003

Scottish & Southern Electricity Networks
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CONTROL SHEET

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CLIENT: BAM Nuttall Ltd
PROJECT NAME: LT521 – Bingally 400kV Substation
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Contents

Drawings

BING4-LT521-SEBAM-EWKS-ZZ-D-C-0241
BING4-LT521-SEBAM-EWKS-ZZ-D-C-0242
BING4-LT521-SEBAM-EWKS-ZZ-D-C-0243
BING4-LT521-SEBAM-EWKS-ZZ-D-C-0244
BING4-LT521-SEBAM-EWKS-ZZ-D-C-0245
BING4-LT521-SEBAM-EWKS-ZZ-D-C-0246

Appendices

1.0 INTRODUCTION

Scottish and Southern Network (SSEN) are proposing a new substation at Bingally, approximately 7km south of the existing Fasnakyle substation near Cannich in the Highlands. This is required as part of the upgrading of the second circuit on the existing Beauly-Denny Overhead Line (OHL) from 275kV to 400kV and will allow connection of new renewable electricity generation to the transmission network in the coming years. An approximately 9km long access track is required between the Bingally site and the A831 and there is currently no GI along the corridor of the proposed track.

An initial peat probing and peat coring ground investigation (GI) was therefore scoped in order to gather initial information about the depth of peat and type of peat along the proposed access track.

1.1 Peat Probing and Coring Strategy

Advice was sought from SSEN to establish an appropriate peat probing grid that would be acceptable for planning. Fairhurst were to review with an appropriate peat probing grid that provide sufficient information for the alignment design as it currently stands.

A Request for Information (RFI) was issued to BAM (for SSEN) on 16th February 2024 and a response was provided on 14th March 2024. The response was as follows:

As discussed on the SSE/SBAM Engineering call on 23rd Feb, a 50x50m peat probing grid with a 50m buffer only would likely be insufficient to inform the offline sections of the access tracks. It was raised the increase in cost/time for a more refined grid to the extent of the RLB out to 200m. Below are two potential options for peat probing grids in the offline sections, open to discussion:

- *25x25m grid within 50m buffer either side of the track alignment, extending to 50x50m grid out to 100m.*
- *25x25m grid 25m buffer either side of the track alignment, 50x50m grid out to 100m and then a 100x100m grid out to 200m.*

Both options apply with a view that if the track were to re-align significantly, further probing at 50m grid or less is required to take place on the revised alignment. Where deep peat is evident then grid size to be reduced to a 10x10m grid to allow informed micro-siting. Also worth noting that if peat isn't present or not deep, the grid can be looked to be increased. Probing is not as key where existing access tracks are being utilized. However if significant upgrade/widening is required on tracks, probing should be done within a realistic buffer (10/20m?) to inform peat depths/quantity of peat which will feed into Peat Management Plan.

The peat probing grid carried out was determined based on the first option with an additional 50m to cover the extends of the Red Line Boundary (RLB). The centreline of the proposed road was used to create parallel 'strings' to the west and east of the centreline and proposed peat probe locations were plotted at either a 25m interval (when within 50m of the current alignment) or a 50m interval (when beyond 100m of the current alignment). Peat probing was therefore carried out as follows:

- Peat probing on the centreline of the proposed road, carried out at 25m centres.
- Peat probing 25m west and 25m east of the proposed centreline, carried out at 25m intervals.
- Peat probing 50m west and 50m east of the proposed centreline, carried out at 25m intervals.
- Peat probing 100m west and 100m east of the proposed centreline, carried out at 50m intervals.
- Peat probing 150m west and 150m east of the proposed centreline, carried out at 50m intervals.

The peat coring locations were determined after the peat probing was complete and the depth of peat was plotted in QGIS to establish areas of deeper peat. The peat core locations were then selected to target deep areas of peat and peat within areas of proposed cut.

1.2 Ground Investigation Information

The information from the peat probing and coring GI was provided as follows:

- Peat Probing - Excel spreadsheets of the peat probes illustrating location, depth, height, date and any comments (e.g. any shallow obstructions, micrositing or tree roots).
- Peat Coring - PDF of draft peat coring logs.

The final peat probing tracker and the preliminary peat core logs PC01-PC60 were issued on 25th July, with revisions provided on16th October 2024. The preliminary peat core logs are provided in **Appendix 2.** Final logs are still to be issued by BAM Ritchies.

The peat probing corridors, peat core locations as well as a summary of the peat encountered in the cores is illustrated in Drawings **BING4-LT521-SEBAM-EWKS-ZZ-D-C-0241 to 0246**. The alignment of the road underwent minor alignment changes between CH 1000 to CH 1600 during the investigation which can be seen in **BING4-LT521-SEBAM-EWKS-ZZ-D-C-0246**.

2.0 PEAT PROBING RESULTS

A total of 3017 peat probes were carried out which covered the 9km corridor of the access track, proposed temporary laydown areas and borrow pit adjacent to the substation and a proposed compound to the north.

The peat probing results have illustrated that there is overall less deep peat along the proposed access track than within the main substation area. The average peat depth of all probes completed was 0.41m. There are localised areas of deep peat which are occasionally spatially associated with the BGS mapped peat.

An extract of the peat probing heat maps has been provided in **Appendix 1.1.**

Deep peat present on the alignment of the proposed access track and additional temporary compounds / laydown areas is as follow

- CH 3000 – 3400 – Channel of deep peat which cross cuts the road between the aforementioned chainages, in an area of cut and fill, spatially associated with an area of BGS mapped peat.
- CH 4400 - 5000 – Area of Class 2 importance peat according to Scotland Peatland Map (2016). The deep peat is associated with low lying ground between knolls of shallow rock. Deep peat surrounds both the west and east of the proposed centreline of the road within areas of cut and fill.
- CH 5800 – Online and west of the proposed track in an area of cut and fill. No peat recorded on BGS map.
- CH 8100 – East of the online section of the proposed access track in an area of fill, spatially associated with an area of BGS mapped peat.
- CH 8500 – Offline section of the proposed access track in an area of fill, spatially associated with an area of BGS mapped peat.
- Laydown/Stockpile Area 3 – Temporary area required for the construction of the substation for laydown/stockpiling of material. An area of deep was encountered spatially associated with the BGS mapped peat in a low-lying area to the south of the footprint of the proposed laydown/stockpile area.

The deepest peat recorded (4.5m bgl) was encountered within the low lying area to the south of the footprint of the proposed laydown/stockpile area, as seen in the heat maps in **Appendix 1.1**.

3.0 PEAT CORING RESULTS

The peat coring results were targeted in areas of deep peat and overall encountered undecomposed peat to slightly decomposed peat at depths < 1.0m with moderately decomposed peat to very highly decomposed peat encountered at depths up to a maximum of 3.20m bgl (in the same location as the maximum depth of peat encountered through the peat probing).

The results of the peat coring were reviewed and a summary of the conditions within each core is provided in **Appendix 1.2**. A summary of the Von Post classification and percentage of occurrence is provided in **Appendix 1.3.**

The below summarises the peat cores taken within specific sections of the site relative to the Von Post classification system. Reference should also be made to Drawings **BING4-LT521-SEBAM-EWKS-ZZ-D-C-0241 to 0246** which summarise the results of the peat coring on the plan view of the proposed scheme.

3.1 CH 0- 2550

Core 43 to Core 59 were taken within this section.

The maximum peat depths found throughout this section ranged between 0.20m (PC53) and 1.60m (PC49). There were also ten locations where no peat was discovered at all, spatially associated with existing and felled woodland.

Three core samples displayed a H9 value at their maximum depth (PC45, PC49, and PC52) and they were located along the central south-eastern section of this final area. These H9 sections were located at various depths, beginning from 0.40m – 1.05m and up to their maximum depths of 0.50m – 1.60m.

The remaining peat coring samples displayed a H5-H7 value at their maximum depth. All of the surface level peat from the core samples in this section displayed a decomposition value of H2-H4 at their surface.

The peats moisture content in this section was a B2-B3 apart from the areas with a H9 rating which had a moisture value of B4.

3.2 CH 2550 - 3550

Core 33 to Core 42 were taken within this section.

The first half of this section between PC33 and PC39 provided depths with the range of 1.10m – 1.93m, with only PC36 exceeding this, providing the maximum peat depth of this sample at 2.35m.

The areas between PC33 and PC39 displayed a peat decomposition at their maximum depth of H8-H10. With all values at the surface displaying a H3 or greater. The shallower peat samples of PC40 – PC42 (max depth of 0.50m – 0.74m) all displayed the value of H5-H7 at their maximum depth. At their surface they displayed a value of H3.

This section has recorded the greatest amount of peat decomposition so far out of all the previous sections. The moisture contents have ranged B2 – B5 with areas of B2 being located no deeper than 0.62mbgl. This section has also seen the greatest concentration of B4-B5 values than previous sections.

3.3 CH 3550 - 5500

Core 19 to Core 32 were taken within this section.

This section produced significantly deeper areas of peat than the previous, with 7 of 14 core samples exceeding a depth of 1.60m or greater. Two probes produced peat depths of 3.0m+ with PC22 reaching a maximum depth of 3.20m and PC23 producing a maximum depth of 3.0m.

The deeper peat regions were mainly concentrated in the first half of this section with 5 of 6 core samples registering a peat depth of less than 0.60m in the second half of the section.

The depth of peat did not correlate to the level of decomposition however though. PC30 displayed a H9 value at a depth of 0.40m, and PC24 contained peat with a H8/H9 value at a depth of 0.85m. Another value of H8/H9 was displayed by PC23 at a depth of 3.0m, however beside that sample PC22 logged a depth at 3.20m displaying a value of only H5-H6.

Overall, this section shown some major decomposition throughout all levels of peat with some core samples displaying this as close as 0.50m towards the surface (PC30 H9 0.20m – 0.40m, PC31 H6-H7 0.12m – 0.33m, and PC32 H6-H7 0.15m – 0.26m).

Moisture levels ranged between B1 and B4 with B1 sections only seen within 0.15m of the surface. Areas with a B4 moisture content were located along with areas of H8+.

3.4 CH 5500 - 9000

Core 06 to Core 18 + Core 60 were taken within this section.

The deepest lying area of peat was taken near the beginning of this section at PC08 which registered a max depth of 3.15m which displayed a level of H9 decomposition. PC11 produced the second deepest area of peat at 2.0m and a H8-H9 value at this depth. However, these two core samples did not produce the peat with the most decomposition, PC17 displayed values of H9-H10 between the depths of 1.10m and 1.30m.

The other twelve core samples in this section produced maximum peat depths up to a depth of 1.35m (PC07)

The core samples taken in this section which found peat at a depth of 1.20m or deeper found the peat to be a level of H7+ excluding PC08.

The majority of peat analysed within 0.50m of ground level did not exceed a value of H5. However, the peat located near the surface on the whole did not produce a value of anything less than H4.

For the moisture content, there was a range of B2 to B5 throughout the core samples taken throughout this section. No significant correlation between the locations and depths of these various levels of moisture has been displayed.

All core samples followed the linear trend of an increased ‘H’ value as the depth was increased apart from PC15. Between 0.00m – 0.18m a value of H5 was displayed, then down to 0.31m a composition of H2-H3 was displayed before then returning back to a H5 down to a depth of 0.90m. Down to the final level of 1.00m a value of H6-H7 was displayed.

3.5 Laydown Area / Borrow Pit

Core 01 to Core 05 were taken within this area.

The deepest lying areas of peat were found in the two core locations taken along the south-west corner of the Laydown Area (PC03: max depth 2.10m & PC04: max depth 2.20m)

The shallowest peat coring results were found along the eastern side of the Borrow Pit (PC01: max depth 1.60m) and outside the west boundary of the Laydown Area (PC05: max depth 1.56m).

The greatest decomposition of peat was found with the core samples taken along boundaries of the Laydown Area and Borrow Pit, with PC01 & PC04 producing values of H6-H7 with their deepest lying layers. PC03, located between these two core samples produced values of H5-H7 throughout its entire core sample. This made it the core sample with the most extreme peat decomposition throughout this section.

PC05 provided the sample with the least peat decomposition reading a value of H2-H3 down to a depth of 1.05m and a value of H4 down to its maximum peat depth of 1.56m.

The anomaly throughout these samples was found with PC02 taken within the centre of the Laydown Area / Borrow Pit. It displayed a peat decomposition of H4 up to 1.00m, H6-H7 up to 1.50m (similar to PC01, 03, 04) although from 1.50m – 1.80m the levels of peat decomposition became a reading of H3.

The moisture content throughout the 5 core samples were a consistent B2 – B3.

4.0 CONCLUSIONS

An assessment has been carried out of the ground investigation data and the following conclusions are noted:

- The average peat depth from the probing completed is 0.41m with a maximum recorded depth of 4.5m bgl to the south west corner of the proposed laydown/ stockpile Area 3.

- Deep peat is present in localised areas of the proposed alignment, predominantly associated with the BGS mapped peat.
- Peat cores demonstrate an overall pattern of undecomposed peat to slightly decomposed peat at depths < 1.0m with moderately decomposed peat to very highly decomposed peat encountered at depths up to a maximum of 3.20m bgl.

The peat probing data and peat coring data will be examined with the results of the detailed GI and reported in full in the Ground Investigation Report (GIR).

DRAWINGS

BING4-LT521-SEBAM-EWKS-ZZ-D-C-0241

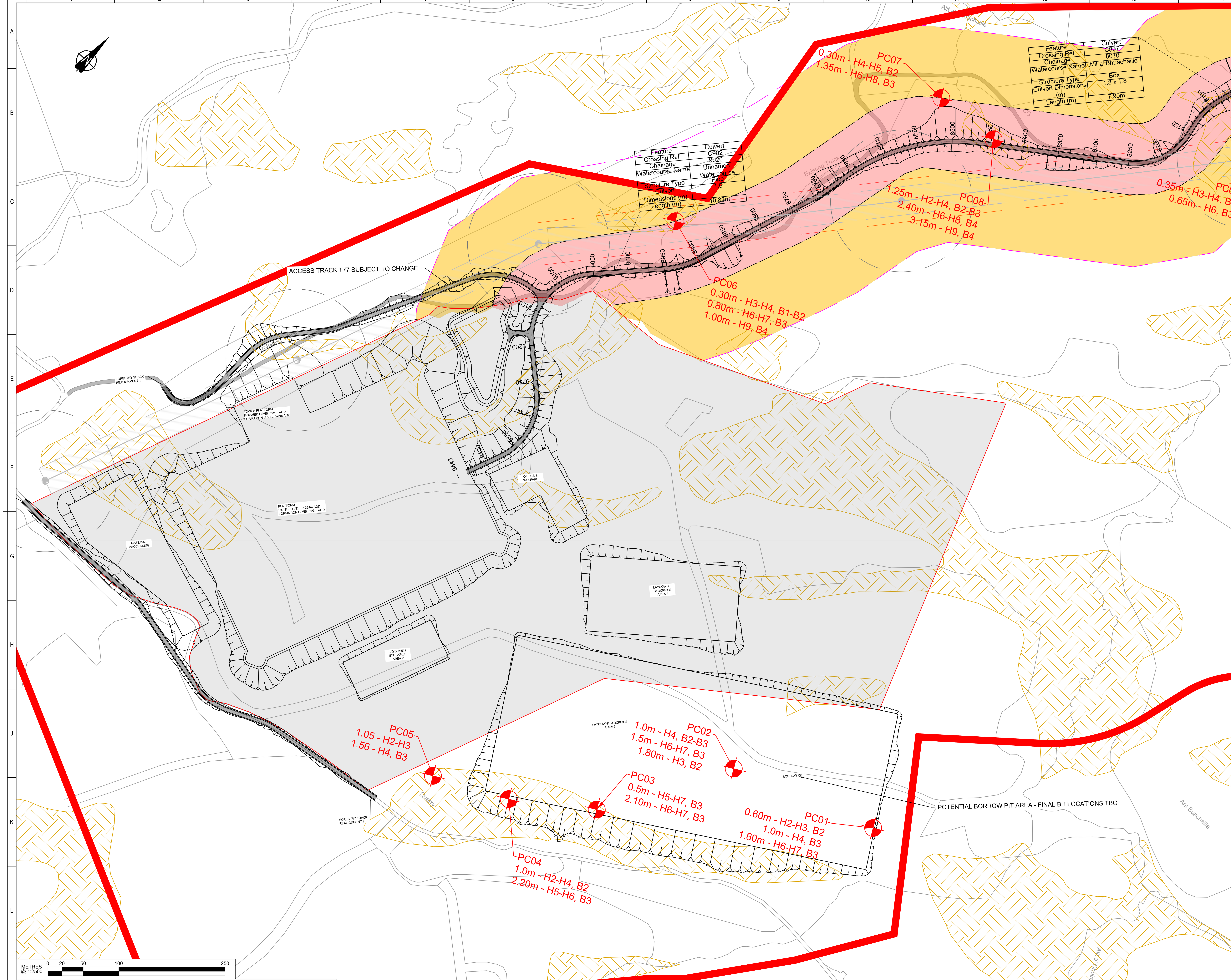
BING4-LT521-SEBAM-EWKS-ZZ-D-C-0242

BING4-LT521-SEBAM-EWKS-ZZ-D-C-0243

BING4-LT521-SEBAM-EWKS-ZZ-D-C-0244

BING4-LT521-SEBAM-EWKS-ZZ-D-C-0245

BING4-LT521-SEBAM-EWKS-ZZ-D-C-0246



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- 50m FROM CENTRELINE
- 100m PEAT PROBE CORRIDOR — ZONE 1
- 2 x 100m PEAT PROBE CORRIDOR — ZONE 2
- BGS MAPPED PEAT

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
(REFER TO CDM REGISTER BING4-LT521-SEBAM-ZZ-EXT-REG-OS-0001)

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following :

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

CONSTRUCTION RISK

11. Watercourse Crossings
19. Unauthorised access from public
4. Wild fires
12. Beauly-Denny Overhead Line and other overhead lines
7. Underground services
15. Made Ground associated with former powerline and access road
13. Deep Peat and 17. unknown ground conditions
14. Unstable Quarry faces
16. Shallow groundwater
22. Steep topography

MAINTENANCE / CLEANING RISK

- No known residual hazard at this stage of the design development

DECOMMISSIONING / DEMOLITION RISK

- No known residual hazard at this stage of the design development

REV:	DATE:	DRWN:	CHKD:	APPVD:	DESCRIPTION:
P01	31/10/24	LC	LRC	FL	FIRST ISSUE

STATUS: S5 ISSUED FOR REVIEW

CONTRACTOR: SIEMENS energy + bam Joint Venture

Substation Delivery Framework

CLIENT: Scottish & Southern Electricity Networks TRANSMISSION

PROJECT: BINGALLY 400kv SUBSTATION

PROJECT NUMBER: BING4-LT521 LOCATION: BINGALLY

TITLE: LT521 - BINGALLY 400kv SUBSTATION EARTHWORKS PEAT CORING LOCATIONS SHEET 1 OF 6

DRAWN:	L. CODONA	ENG CHECK:	L. COLLERAN
DESIGNER:	L. COLLERAN	COORDINATION:	L. COLLERAN
SCALE :	1:2500	APPROVED:	F. LYNCH
DATE OF FIRST ISSUE:	31/10/2024	SECURITY:	

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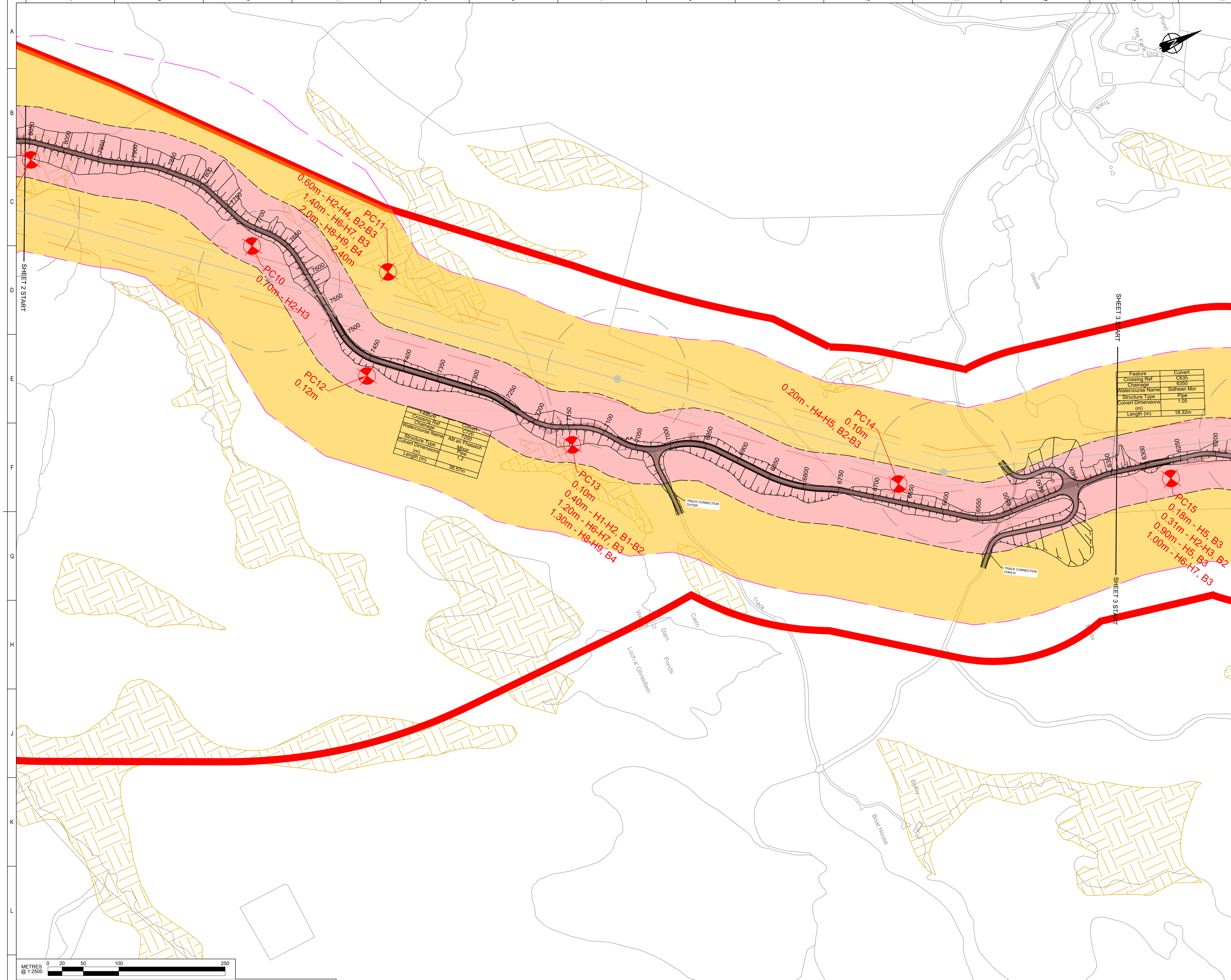
CLIENT DRAWING NUMBER: BING4-LT521-SEBAM-EWKS-ZZ-D-C-0241 — REV. No: P01



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CONTRACTOR:

Joint Venture
Substation Delivery
Framework

CLIENT:

TRANSMISSION

PROJECT:
BINGALLY 400kv SUBSTATION

PROJECT NUMBER: BING4-LT521 | LOCATION: BINGALLY

TITLE: LT521 - BINGALLY 400kv SUBSTATION
EARTHWORKS
PEAT CORING LOCATIONS
SHEET 2 OF 6

DRAWN:	L. CODONA	ENG CHECK:	L. COLLERAN
DESIGNER:	L. COLLERAN	COORDINATION:	L. COLLERAN
SCALE :	1:2500	APPROVED:	F. LYNCH
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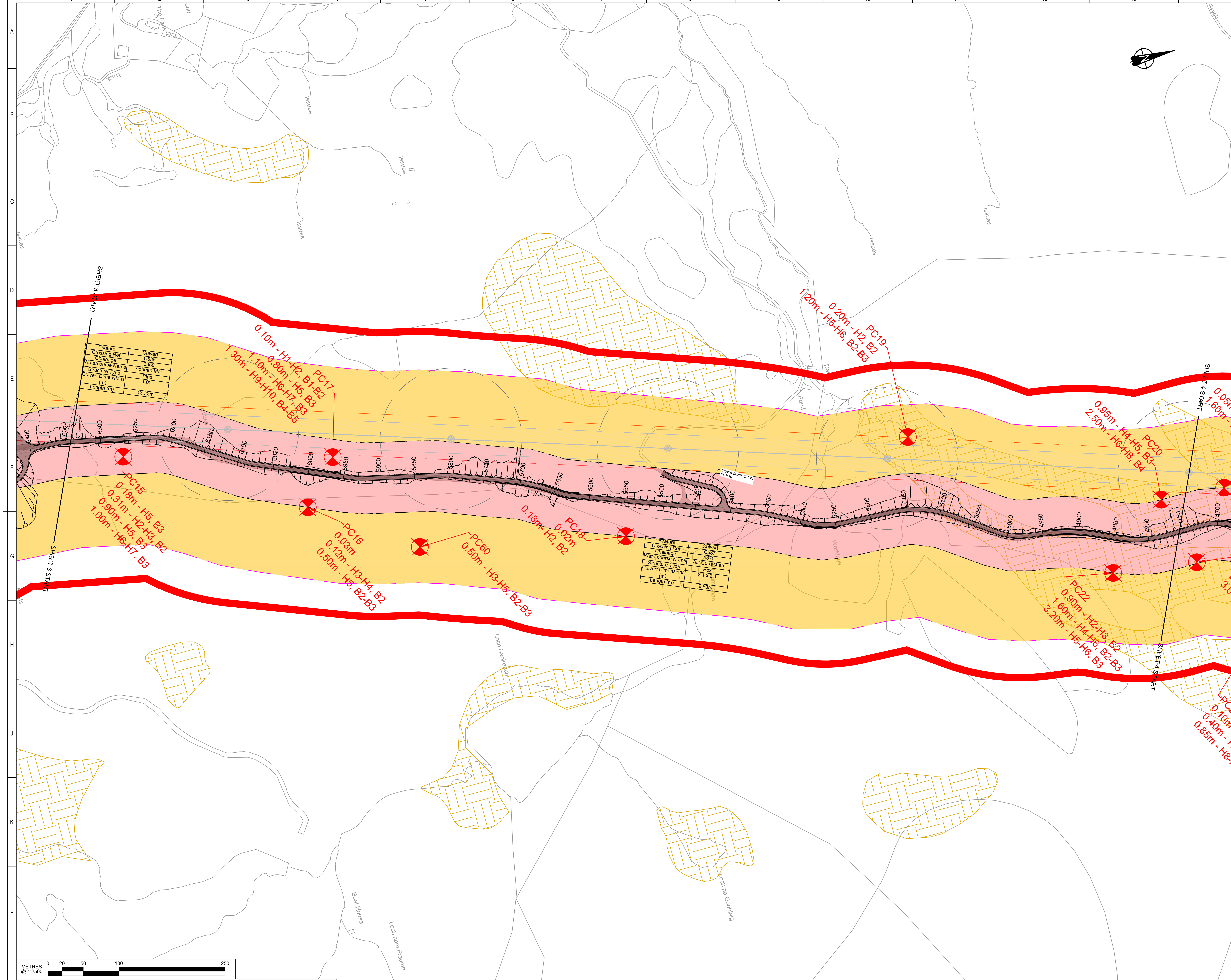
Date Plotted: 31.10.2024



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PROJECT NUMBER: BING4-LT521 | LOCATION: BINGALLY

TITLE: LT521 - BINGALLY 400kv SUBSTATION
EARTHWORKS
PEAT CORING LOCATIONS
SHEET 3 OF 6

DRAWN:	L. CODONA	ENG CHECK:	L. COLLERAN
DESIGNER:	L. COLLERAN	COORDINATION:	L. COLLERAN
SCALE :	1:2500	APPROVED:	F. LYNCH
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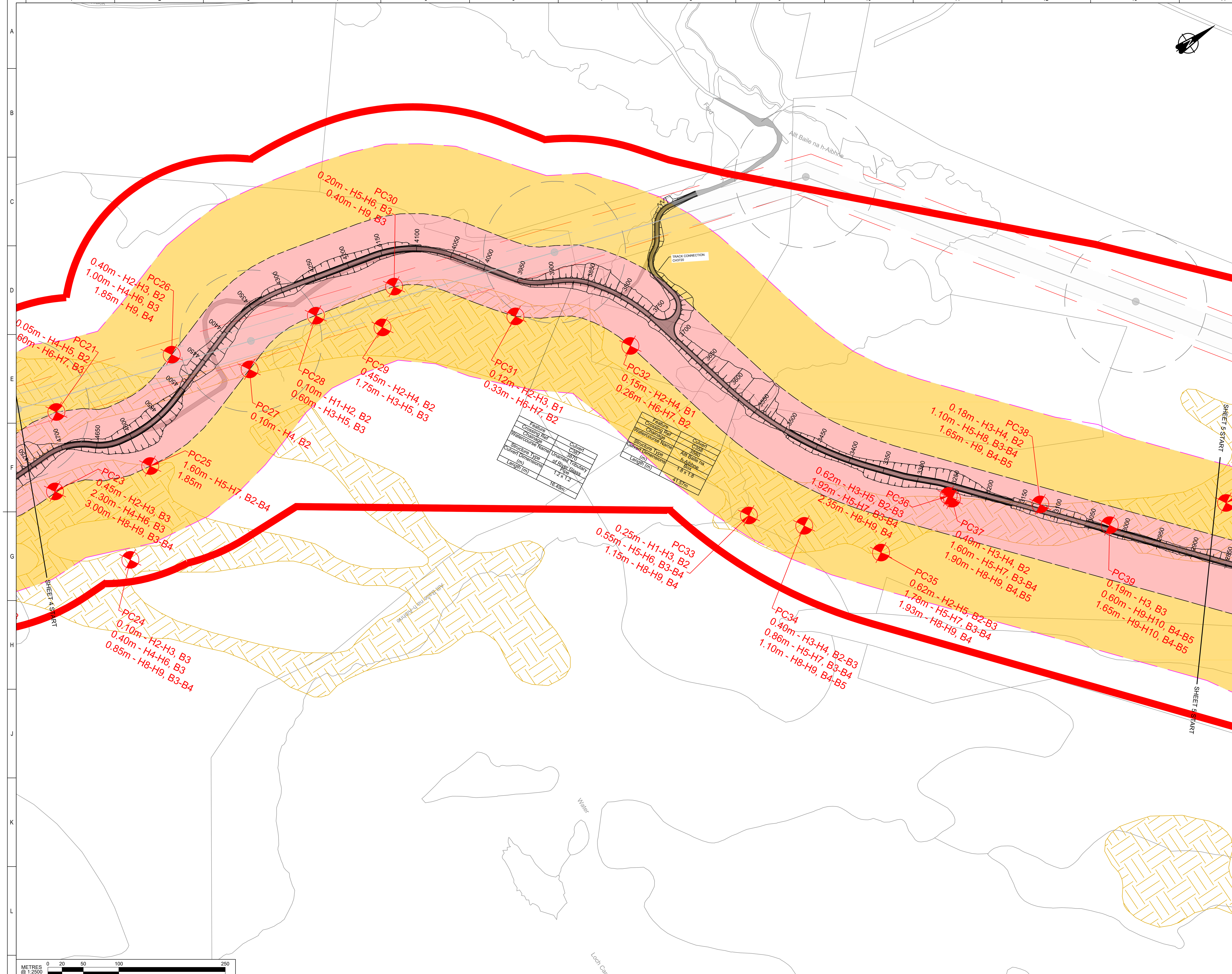
Date Plotted: 31.10.2024



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TRANSMISSION

PROJECT: BINGALLY 400kv SUBSTATION

PROJECT NUMBER: BING4-LT521 | LOCATION: BINGALLY

TITLE: LT521 - BINGALLY 400kv SUBSTATION
EARTHWORKS
PEAT CORING LOCATIONS
SHEET 4 OF 6

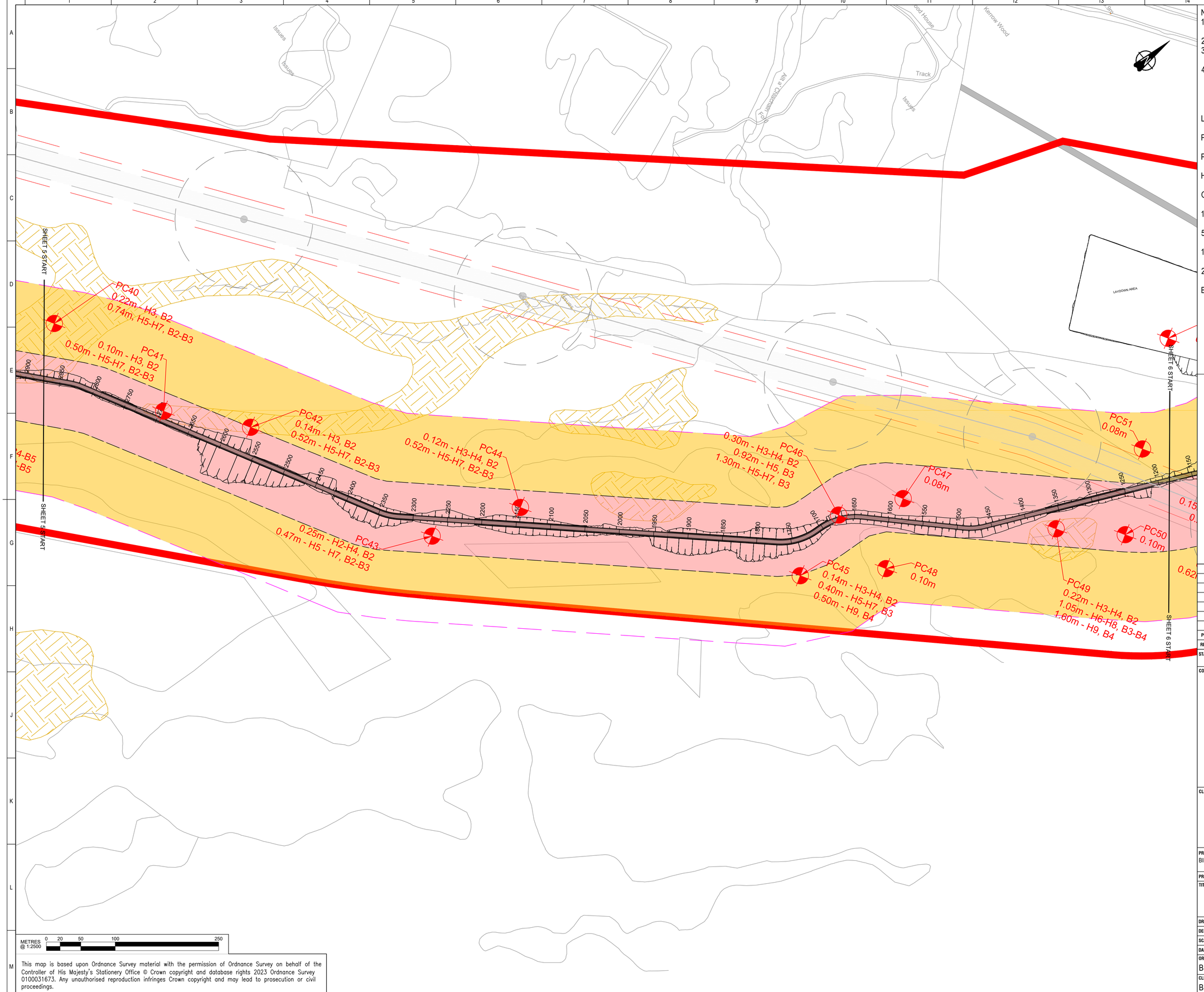
DRAWN:	L. CODONA	ENG CHECK:	L. COLLERAN
DESIGNER:	L. COLLERAN	COORDINATION:	L. COLLERAN
SCALE :	1:2500	APPROVED:	F. LYNCH
DATE OF FIRST ISSUE:	31/10/2024	SECURITY:	

ORIGINATOR DRAWING NUMBER: BING4-LT521-SEBAM-EWKS-ZZ-D-C-0244 — SHEET No: 4 of 6

CLIENT DRAWING NUMBER: BING4-LT521-SEBAM-EWKS-ZZ-D-C-0244 — REV. No: P01

File Name: J:\156918\04 - Fasnakyle 2\Detailed Design\Drawings\0600 Geotechnical\BING4-LT521-SEBAM-EWKS-ZZ-D-C-0244

Date Plotted: 31.10.2024



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NOTES:-

1. This drawing shall only be used for the design element sated in the drawing title.
2. Only written dimensions shall be used.
3. All dimensions are in metres unless noted otherwise.
4. This drawing shall only be used for construction of the works when certified as acknowledged by Scottish and Southern Electricity Networks and upon relevant third party consultation certification

LEGEND:-

PROPOSED RED LINE BOUNDARY	━
PEAT CORING LOCATIONS	⊕
HISTORIC PEAT PROBING AREA	▭
OVERHEAD LINES (30m OFFSET)	- - -
150m FROM CENTRELINE	- - -
50m FROM CENTRELINE	- - -
100m PEAT PROBE CORRIDOR	ZONE 1
2 x 100m PEAT PROBE CORRIDOR	ZONE 2
BGS MAPPED PEAT	▨

SAFETY, HEALTH AND
ENVIRONMENTAL INFORMATION
(REFER TO CDM REGISTER BING4-LT521-SEBAM-ZZ-EXT-REG-OS-0001)

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following :

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

CONSTRUCTION RISK

11. Watercourse Crossings
19. Unauthorised access from public
4. Wild fires
12. Beauly-Denny Overhead Line and other overhead lines
7. Underground services
15. Made Ground associated with former powerline and access road
13. Deep Peat and 17. unknown ground conditions
14. Unstable Quarry faces
16. Shallow groundwater
22. Steep topography

MAINTENANCE / CLEANING RISK

- No known residual hazard at this stage of the design development

DECOMMISSIONING / DEMOLITION RISK

- No known residual hazard at this stage of the design development

REV:	DATE:	DRWN:	CHKD:	APPVD:	DESCRIPTION:
P01	31/10/24	LC	LRC	FL	FIRST ISSUE

STATUS: S5 ISSUED FOR REVIEW

CONTRACTOR:

Joint Venture
Substation Delivery
Framework

CLIENT:

PROJECT:
BINGALLY 400kv SUBSTATION

PROJECT NUMBER: BING4-LT521
LOCATION: BINGALLY

TITLE:
LT521 - BINGALLY 400kv SUBSTATION
EARTHWORKS
PEAT CORING LOCATIONS
SHEET 5 OF 6

DRAWN:	L. CODONA	ENG CHECK:	L. COLLERAN
DESIGNER:	L. COLLERAN	COORDINATION:	L. COLLERAN
SCALE :	1:2500	APPROVED:	F. LYNCH
DATE OF FIRST ISSUE:	31/10/2024	SECURITY:	

ORIGINATOR DRAWING NUMBER:
BING4-LT521-SEBAM-EWKS-ZZ-D-C-0245

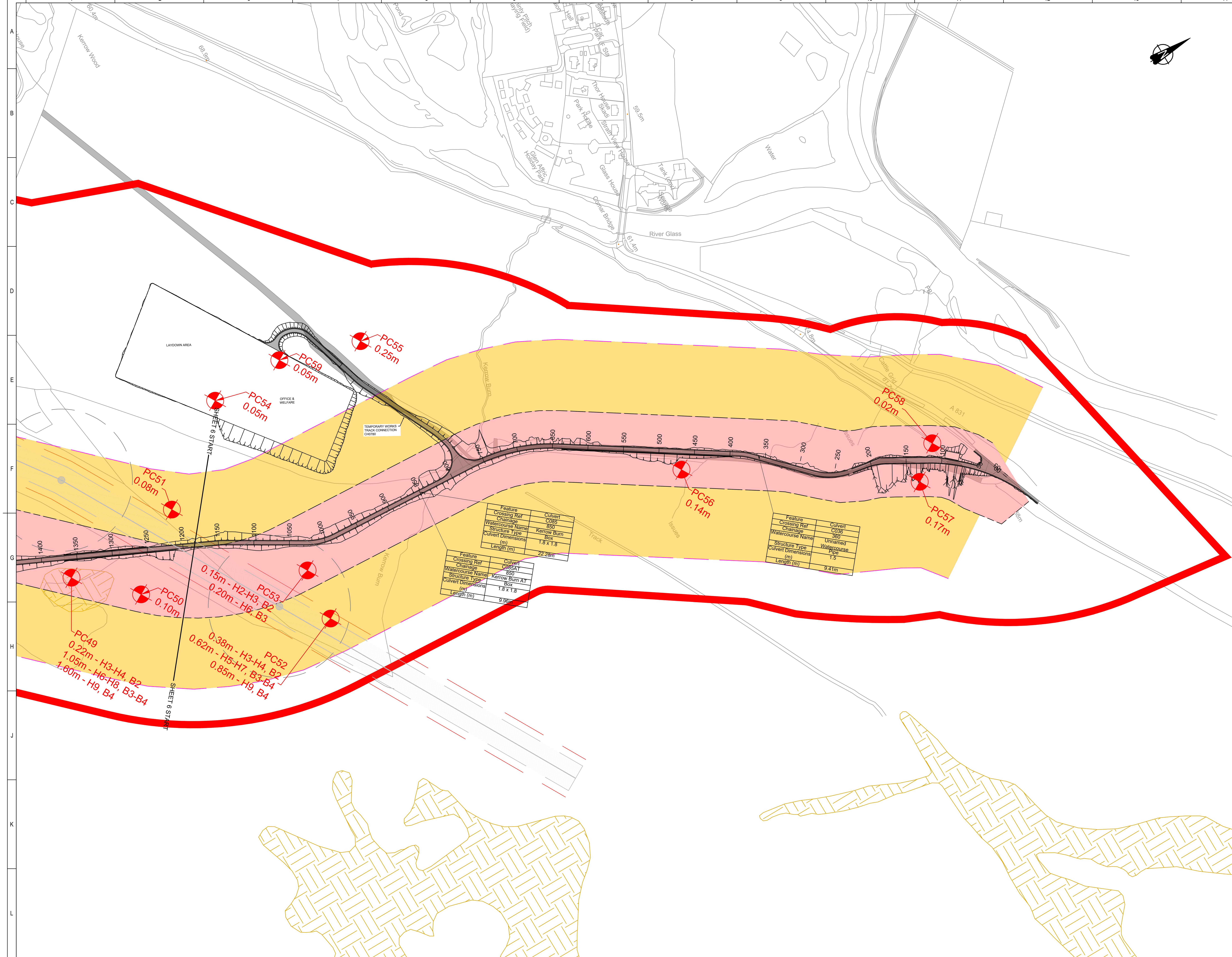
SHEET No:
5 of 6

CLIENT DRAWING NUMBER:
BING4-LT521-SEBAM-EWKS-ZZ-D-C-0245

REV. No:
P01

File Name: J:\156918\04 - Fasnakyle 2\Detailed Design\Drawings\0600 Geotechnical\BING4-LT521-SEBAM-EWKS-ZZ-D-C-0245 - Peat Coring Locations Sheet 5 of 6.dwg

Date Plotted: 31.10.2024



METRES @ 1:2500 0 20 50 100 250

NOTES:-

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2. Only written dimensions shall be used.
3. All dimensions are in metres unless noted otherwise.
4. This drawing shall only be used for construction of the works when certified as acknowledged by Scottish and Southern Electricity Networks and upon relevant third party consultation certification

LEGEND:-

- PROPOSED RED LINE BOUNDARY
- PEAT CORING LOCATIONS
- HISTORIC PEAT PROBING AREA
- OVERHEAD LINES (30m OFFSET)
- 150m FROM CENTRELINE
- 50m FROM CENTRELINE
- 100m PEAT PROBE CORRIDOR — ZONE 1
- 2 x 100m PEAT PROBE CORRIDOR — ZONE 2
- BGS MAPPED PEAT

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
(REFER TO CDM REGISTER BING4-LT521-SEBAM-ZZ-EXT-REG-OS-0001)

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following :

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

CONSTRUCTION RISK

11. Watercourse Crossings
19. Unauthorised access from public
4. Wild fires
12. Beauly-Denny Overhead Line and other overhead lines
7. Underground services
15. Made Ground associated with former powerline and access road
13. Deep Peat and 17. unknown ground conditions
14. Unstable Quarry faces
16. Shallow groundwater
22. Steep topography

MAINTENANCE / CLEANING RISK

· No known residual hazard at this stage of the design development

DECOMMISSIONING / DEMOLITION RISK

· No known residual hazard at this stage of the design development

REV:	DATE:	DRWN:	CHKD:	APPVD:	DESCRIPTION:
P01	31/10/24	LC	LRC	FL	FIRST ISSUE

STATUS: S5 ISSUED FOR REVIEW

CONTRACTOR:
SIEMENS energy + bam
Joint Venture Substation Delivery Framework

CLIENT:
Scottish & Southern Electricity Networks
TRANSMISSION

PROJECT: BINGALLY 400kv SUBSTATION

PROJECT NUMBER: BING4-LT521 LOCATION: BINGALLY

TITLE: LT521 - BINGALLY 400kv SUBSTATION EARTHWORKS PEAT CORING LOCATIONS SHEET 6 OF 6

DRAWN:	L. CODONA	ENG CHECK:	L. COLLERAN
DESIGNER:	L. COLLERAN	COORDINATION:	L. COLLERAN
SCALE:	1:2500	APPROVED:	F. LYNCH
DATE OF FIRST ISSUE:	31/10/2024	SECURITY:	

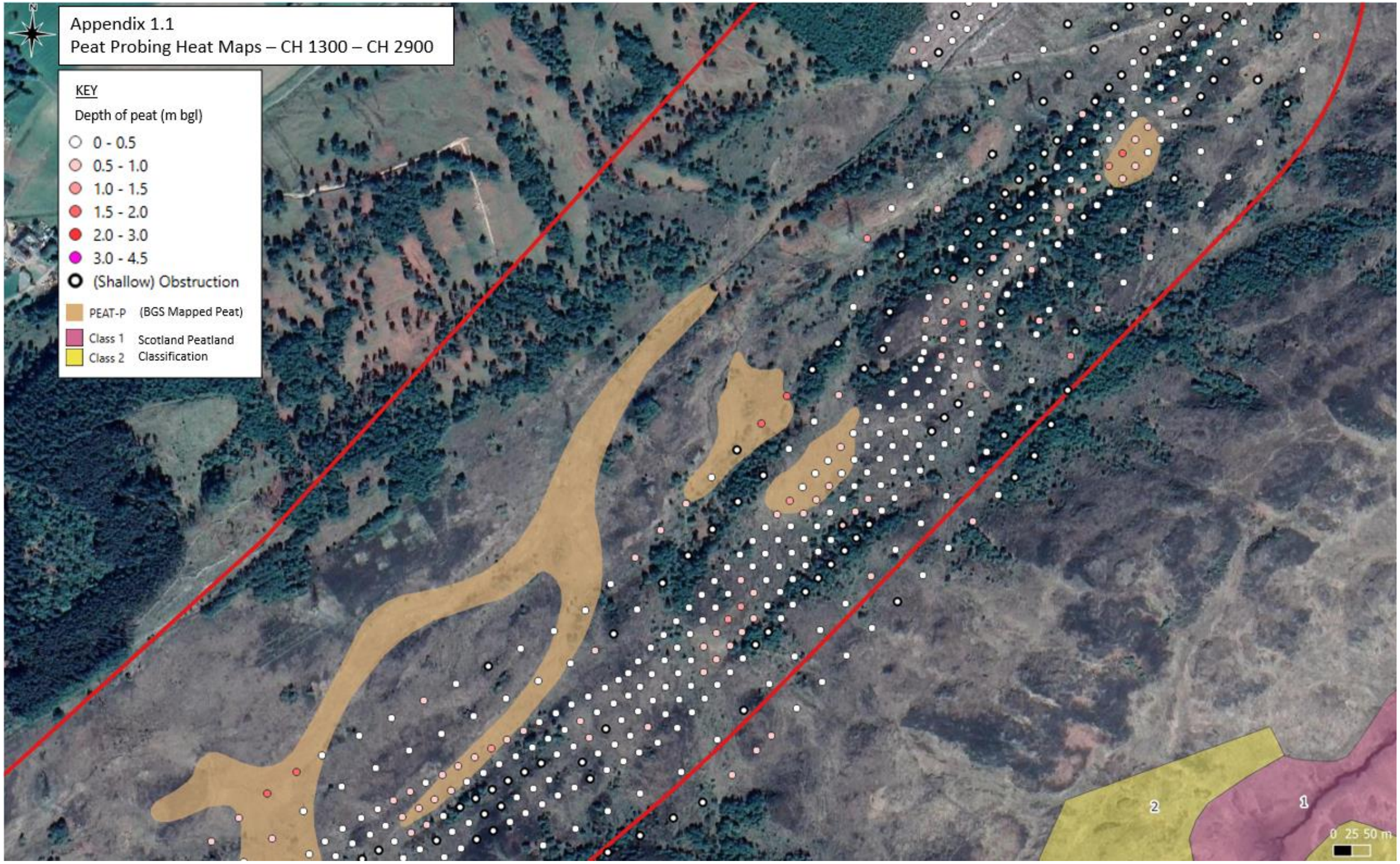
ORIGINATOR DRAWING NUMBER: BING4-LT521-SEBAM-EWKS-ZZ-D-C-0246 SHEET No: 6 of 6

CLIENT DRAWING NUMBER: BING4-LT521-SEBAM-EWKS-ZZ-D-C-0246 REV. No: P01

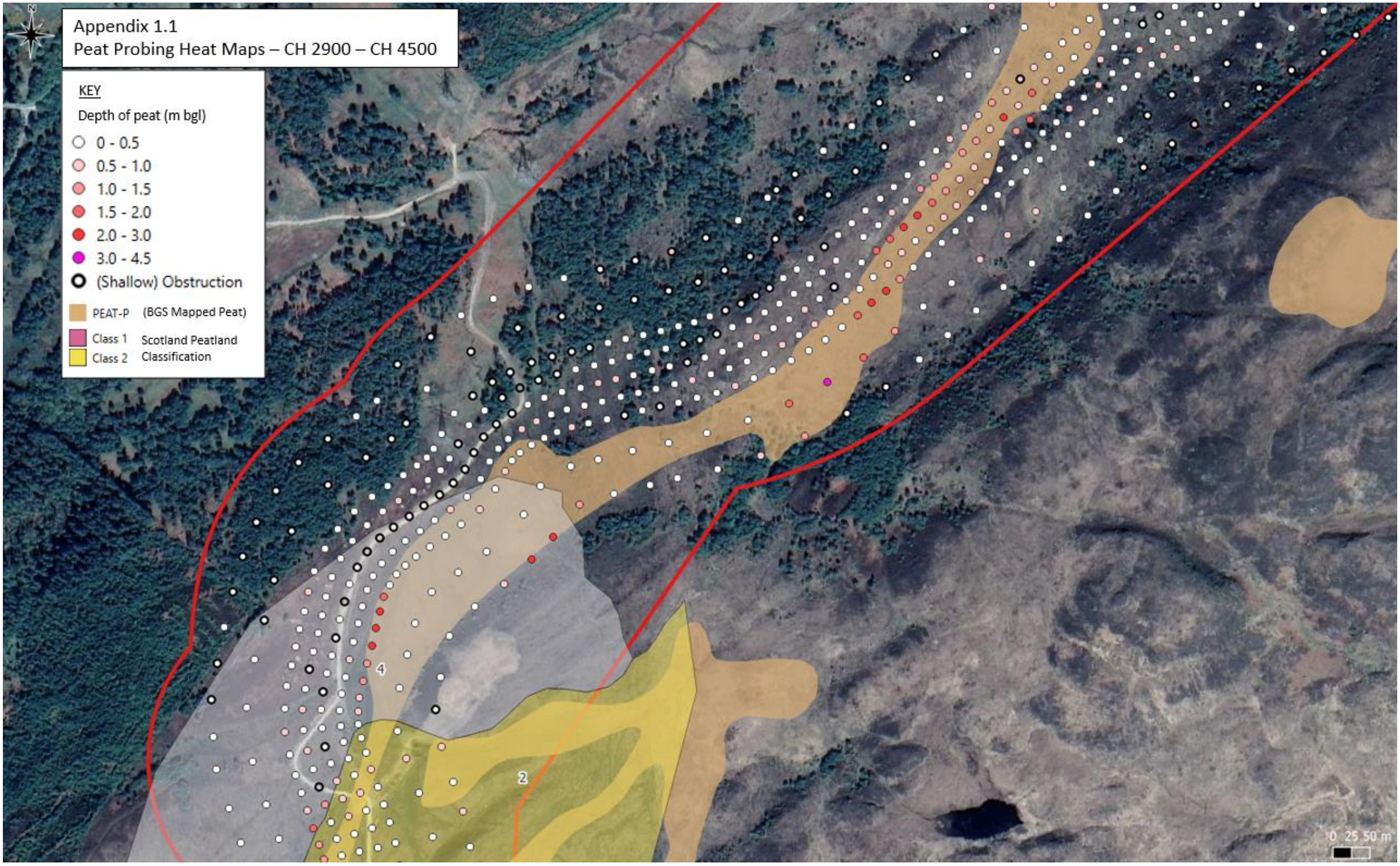
Appendix 1 Peat Probing and Coring Summaries

Appendix 1.1 – Peat Probing Heat Maps – Using data supplied by BAM Ritchies and presented in QGIS.

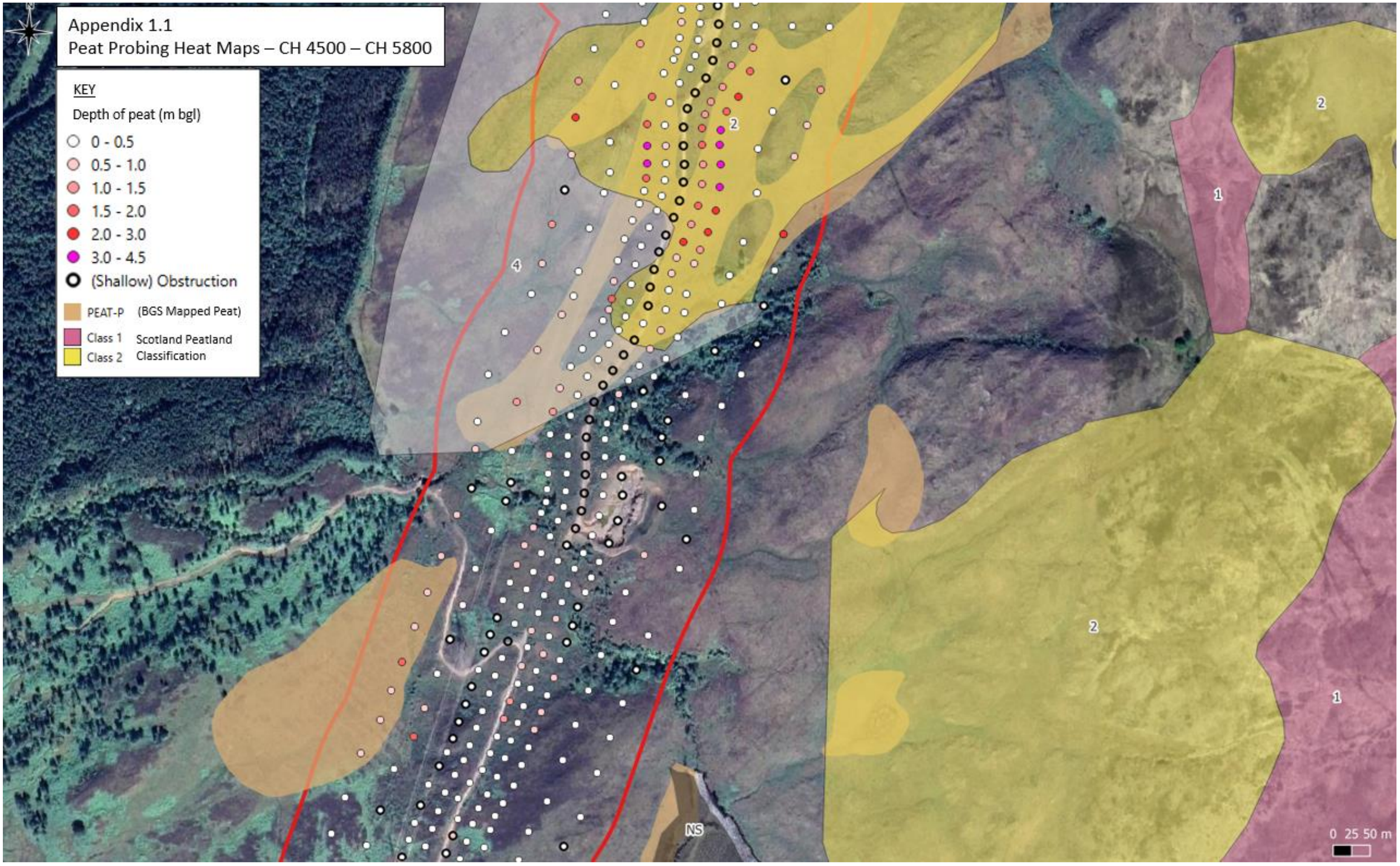
Appendix 1.1 – Peat Probing Heat Maps – Using data supplied by BAM Ritchies and presented in QGIS.



Appendix 1.1 – Peat Probing Heat Maps – Using data supplied by BAM Ritchies and presented in QGIS.



Appendix 1.1 – Peat Probing Heat Maps – Using data supplied by BAM Ritchies and presented in QGIS.



Appendix 1.1 – Peat Probing Heat Maps – Using data supplied by BAM Ritchies and presented in QGIS.

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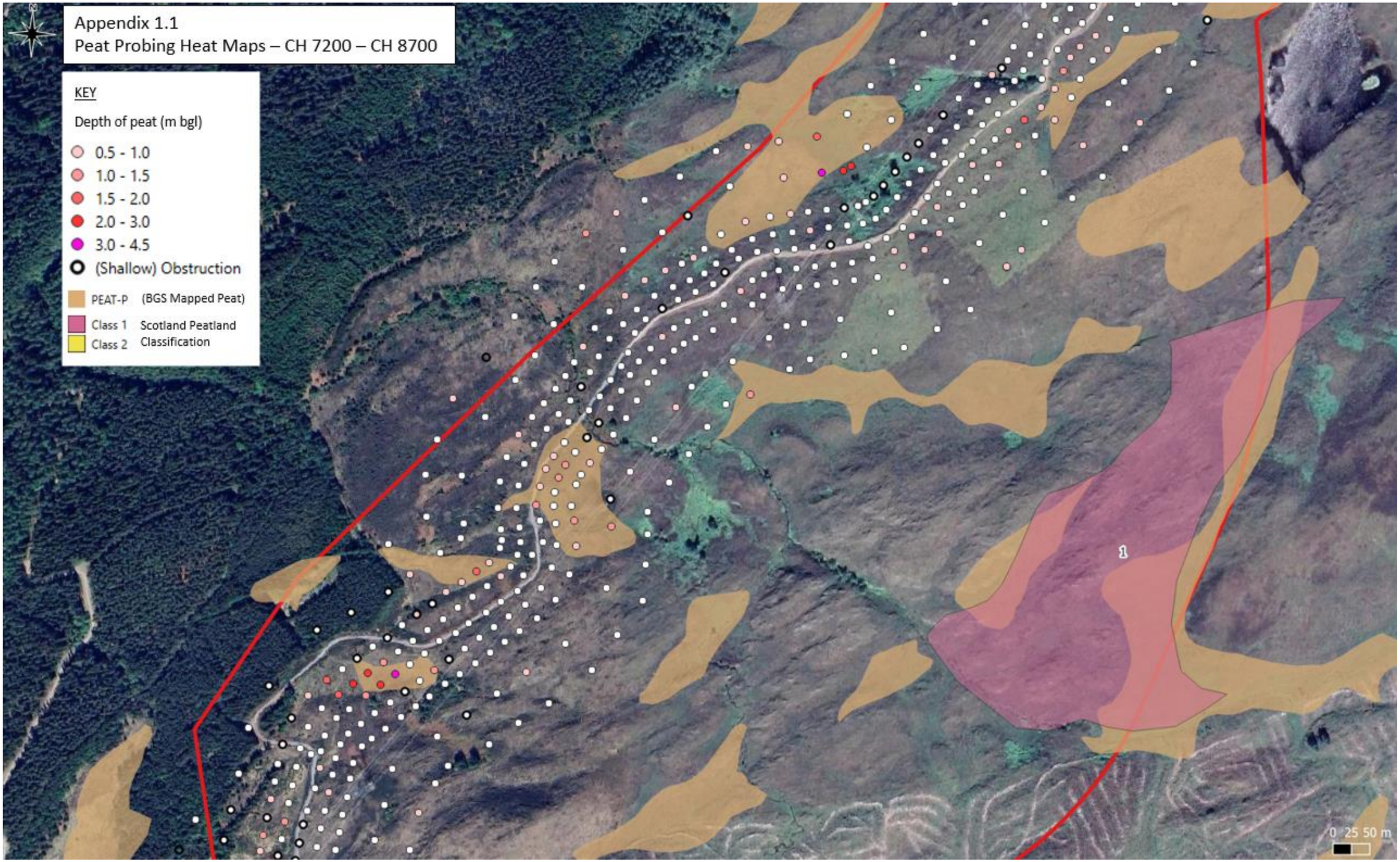
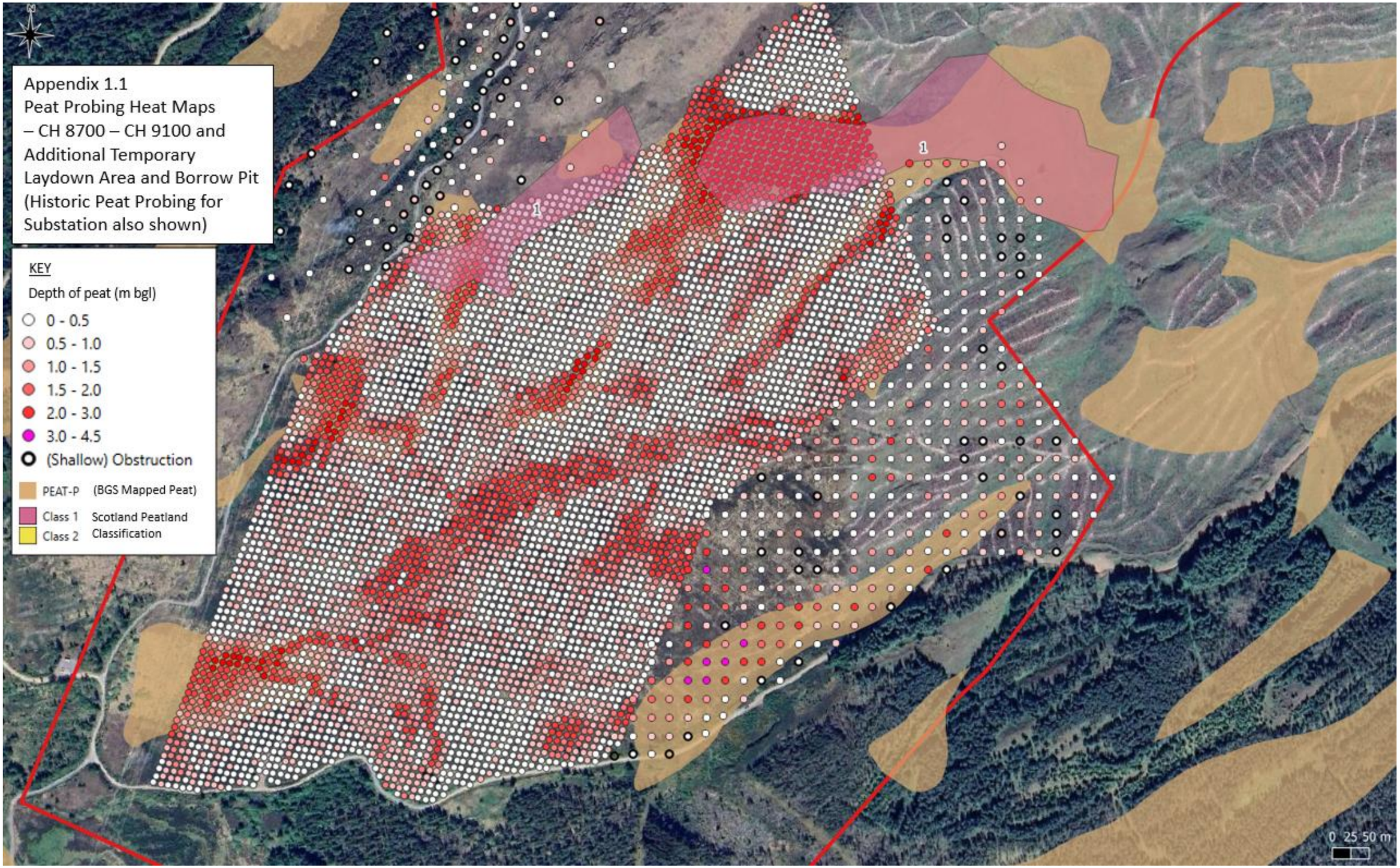


Appendix 1.1 – Peat Probing Heat Maps – Using data supplied by BAM Ritchies and presented in QGIS.



Appendix 1.2 – Peat Coring Summary – Using Preliminary Logs supplied by BAM Ritchies.

Core 1	The first probing sample produced 3 types of peat reached a depth of 1.6mbgl, they thicknesses were 0.6m, 0.4m, and 0.6m. The peat begun as very slightly decomposed with easily identifiable plant remains. The peat then became slightly more decomposed with pasty plant remains before finishing as a moderately to highly decomposed peat with faintly recognisable plant structure. Almost half of this peat escaped when squeezing. The moisture content was low and then became moderate for the final two sections.
Core 2	The second set of core samples consisted of another 3 distinct peat layers. The thickness of these were 1.0m, 0.5m, and 0.3m. The peat began as slightly decomposed before reaching a stage of moderately to highly decomposed with barely any recognisable plant structure. However, with the deepest sample, the peat returned to very slight decomposed composition with identifiable plant remains. The three samples displayed a similar low to moderate moisture content, with the wettest being the middle layer.
Core 3	Core 3 produced two recognisably different varieties of peat from its sample, with the first having a thickness of 0.5m followed by the second at 1.6m, leaving the base of the peat at 2.1mgbl. This peat was highly decomposed, becoming even more so the deeper mbgl the probe went. There was still some faintly recognisable plant structure throughout the peat. The peat overall had a moderate moisture content.
Core 4	There were two distinct types of peat in this sample, with similar thicknesses of 1m and 1.2m. The initial top section of peat ranged from almost entirely undecomposed to slightly decomposed. The plant residue throughout this top layer has mainly not started to decompose however some have started to become pasty. No peat passes through the hands when squeezed and it has a low moisture content. The other peat layer is moderately to moderately highly decomposed, with indistinct plant structure and peat that escapes through the fingers when squeezed. It has a moderate moisture content.
Core 5	Core 5 produced peats of 1.05m and 0.51m thick. The top section was slightly less decomposed than the bottom section. No peat passed through when squeezed and plant remains only started to become pasty in the deeper section. The moisture content was low and then became moderate.
Core 6	Core 6 contained three different varieties of peat of thicknesses 0.3m, 0.5m, and 0.2m. The peat began as slightly decomposed before becoming moderately highly to highly decomposed, with the final thickness containing practically fully decomposed peat with hardly any recognised plant structure. The samples moisture content went from an initial dry peat, moderately moist and finally a high moisture content.
Core 7	Core 7 produced two peats of thickness 0.3m and 1.05m. The peat began as slightly to moderately decomposed peat and then became a moderately highly to very highly decomposed peat. The first section contained pasty plant remains, and in the second the plant remains were very indistinct or roots and fibres. The moisture content was dry/low and became moderate.
Core 8	This probe produced the second deepest area of peat from the samples with a base level of 3.15mbgl. The three thicknesses were 1.25m, 1.15m and 0.75m. The peats began as almost entirely undecomposed, becoming more and more decomposed as the probe went deeper. The final section of peat was practically fully decomposed with no discernible plant structure and all the peat escaped through the fingers when squeezed. The water content did not differ much between the three with the first section being slightly lower than the other two layers which contained a high moisture content.
Core 9	Core 9 found a peat depth of 0.65mbgl and two samples of 0.35m and 0.3m thick. The peat began as slightly decomposed with pasty plant remains which released muddy dark water. The deeper section produced a moderately highly decomposed peat with indistinct plant structure which released and one-third of the peat when squeezed. The moisture content began as low and finished as moderate.
Core 10	One type of peat was found here of 0.7m thick. It was almost entirely undecomposed with slight decomposition in some areas. No peat passed when squeezed and the plant remains were still identifiable.
Core 11	This probe reached a depth of 2.4mbgl with 3 thicknesses of peat: 0.6m, 0.8m, and 0.6m followed by 0.4m of grey to greyish brown clay. The top layer of peat was almost entirely undecomposed with some slightly decomposed and some slightly pasty plant remains but no peat passed when squeezed. The second layer was highly decomposed with very faintly recognisable plant structure with half the peat releasing when squeezed. The third layer was practically fully decomposed forming a uniform paste when squeezed. The moisture contents varied from a low, to moderate, to a high content.
Core 12	There was no peat contained in this sample. The sample contained 0.12m of a brown fine to medium grained sand.
Core 13	Contained in this sample was 0.1m of a brown fine to medium grained sand. The following three layers of peat were 0.3m, 0.8m, and 0.1m. The first layer was completely to almost entirely undecomposed. The final two layers were highly decomposed and then practically fully decomposed. The moisture content was dry, moderate and then high.

Core 14	Core 14 contained 0.1m and a brown clayey fine to medium sand followed by 0.1m of a moderately decomposed peat which released muddy water with barely recognisable plant structure. This peat had a low to moderate moisture content.
Core 15	This probe produced four layers of peat reaching a base of 1.0m with thicknesses of 0.18m, 0.13m, 0.59m, and 0.1m. The peat begun as moderately decomposed before becoming almost entirely undecomposed, the third layer then returned to the original moderately decomposed state. The final layer seen the peat become highly decomposed, with half the peat escaping when squeezed. The water content was moderate throughout the probe apart from the second layer which displayed a low moisture content.
Core 16	Core 16 begun as 0.03m of brown clayey fine to medium sand followed by two peat layers of 0.09m and 0.38m, reaching a base of 0.5mbgl. The first layer of peat was slightly decomposed with slightly pasty plant remains. The second layer was moderately decomposed with a very small amount of amorphous peat escaping when squeezed. Both moisture contents were mainly low with the second layer slightly moister then the first.
Core 17	Core 17 produced 4 layers of peat ranging in thicknesses of 0.1m, 0.7m, 0.3m and 0.2m respectively. The first layer was undecomposed however as the sample went deeper the peat became significantly more decomposed with the final layer being composed of practically fully decomposed peat which became a uniform paste when squeezed. The moisture contents began as dry/low with the second two layers having a moderate content. The final layer had a high/very high moisture content.
Core 18	This sample began with 0.02m of brown clayey fine to medium sand, followed by 0.16m of an almost entirely undecomposed peat which released clear/yellowish water when squeezed and easily identifiable plant remains. It had a low moisture content.
Core 19	There were two types of peat produced from this probe of thicknesses of 0.2m and 1.0m. The top layer was almost entirely undecomposed peat however, the second layer consisted of moderately to moderately highly decomposed peat containing very indistinct plant structure.
Core 20	Core 20 contained two layers of thickness 0.95m and 1.55m. The top layer consisted of slightly/moderately decomposed peat with indistinct plant features. The second layer consisted of moderately highly to very highly decomposed peat containing plant residue of up to the just the roots and fibres that resist decomposition. The first layer had a moderate moisture content and the second had a high moisture content.
Core 21	This probe contained one smaller layer and one much thicker layer consisting of 0.05m and 1.55m thick. The top layer was slightly to moderately decomposed with a low moisture content followed by the second layer which was moderately highly/highly decomposed with a moderate moisture content.
Core 22	This probe produced the deepest level of peat from all the samples with a depth of 3.2m. The three layers had a thickness of 0.9m, 0.7m, and 1.6m. the top layer was relatively undecomposed with the second and third layers both containing areas of moderately high decomposition with the middle being slightly less so than the bottom layer. A consistent low to moderate water content was shown throughout the sample.
Core 23	This probe produced another deep sample of peat with a base layer of 3.0mbgl and three thicknesses of 0.45m, 1.85m, and 0.7m. The sample began as very slightly decomposed followed by the middle area which consisted of a slightly/moderately decomposed peat. The deeper layer then consisted of a practically fully decomposed peat. The moisture contents were a consistent moderate with the deeper layer bordering a high content.
Core 24	An identical pattern was shown from Core 24 as was with Core 23 apart from this probe gave a max peat depth of 0.85m and three thicknesses of 0.1m, 0.3m, 0.45m.
Core 25	This core sample contained one top layer of a 1.6m thick, of a moderately to highly decomposed peat with faintly recognisable plant structure with a low to high moisture content. It was followed by 0.25m thick of a light grey slightly clayey subangular fine to medium grain gravel.
Core 26	This probe produced 3 peat layers of thickness 0.4m, 0.6m and 0.85m. These three layers of peat followed the same pattern as displayed in Core 23 and 24.
Core 27	This produced one small peat layer of 0.1m thick. It was a slightly decomposed peat with a low moisture content and slightly pasty plant remains. It released muddy dark water when squeezed.
Core 28	Here two distinctly different layers of peat were produced, one of 0.1m thickness and the second 0.5m. The top layer was an almost completely undecomposed peat with some areas that were completely undecomposed. The second, thicker layer consisted of a peat that was very slightly to moderately decomposed. The moisture contents went from low to moderate.
Core 29	The two layers of peat here had some overlap between their decomposition. Their thickness was 0.45m and 1.3m reaching a base depth of 1.75mbgl. The top layer ranged from almost entirely undecomposed to slightly decomposed. The second layer ranged from very slightly decomposed to moderately decomposed. The top layer had a low moisture content and the second a moderate content.

Core 30	Two peat layers of equal thickness, 0.2m, were produced from this probe. The top displayed a moderately/highly decomposed peat with some pasty plant structure. The second layer was practically fully decomposed with hardly any recognisable plant structure. Both peats had a moderate moisture content.
Core 31	Two distinct peat layers of thickness of thickness 0.12m and 0.21m were gathered from this probe. The top layer was very slightly decomposed with some areas almost entirely undecomposed which was completely dry. The second layer was moderately highly to highly decomposed and had a low moisture content.
Core 32	This core sample was almost identical to Core 31 although there were areas of slightly more decomposition in the top layer. The thickness of the two layers were 0.15m and 0.11m.
Core 33	Core 33 produced 3 distinct layers of peat of thicknesses 0.25m, 0.3m, and 0.6m. The top layer began with minimal decomposition and a low moisture content, the second layer displayed moderate to moderately high decomposition with plant remains starting to become indistinct and a low/moderate moisture content. The third and final layer contained peat that was almost fully decomposed with hardly any recognisable plant structure and a moderate moisture content.
Core 34	This followed the same pattern as Core 33 apart from the initial top layer began with slightly more decomposition. The thickness of each layer was 0.4m, 0.46m, and 0.24m. The moisture only differed from Core 33 with the deepest layer displaying areas of a very high moisture content.
Core 35	This was once again almost identical to Core 33 with the only difference being the top layer shown slightly more decomposition here than the previous two cores. The moisture contents were the same as Core 33. The thicknesses were 0.62m, 1.16m, and 0.15m.
Core 36	This sample was an identical composition to Core 34. The thickness of each layer was 0.62m, 1.3m, and 0.43m. This was also the deepest peat sample at 2.35mbgl since Core 23 at 3.0mbgl.
Core 37	This sample followed the same pattern as the previous one with layer thicknesses of 0.4m, 1.2m, and 0.3m.
Core 38	The same as above but with a layer thickness of 0.18m, 0.92m, and 0.55m.
Core 39	This sample had slightly less peat decomposition in its middle layer. Its deepest layer also displayed the most decomposition shown from all the samples along with Core 17. This peat was completely decomposed with no discernible plant structure. When squeezed all the wet peat escaped through the fingers. This layer also had a very high moisture content. The thickness of the layers was 0.19m, 0.41m, and 1.05m.
Core 40	Core 40 had two distinctly different layers of peat, their thickness was 0.22m and 0.52m. the top layer consisted of very slightly decomposed peat which released muddy brown water when squeezed with identifiable plant remains. The deeper layer consisted of moderately/highly decomposed peat with a lot less recognisable plant remains. The moisture content in the top layer was low with the deeper layer being low/moderate.
Core 41	This had an identical composition to Core 40, however the thickness of the two layers were slightly different at 0.1m and 0.4m.
Core 42	The same as Core 40 but with thicknesses of 0.14m and 0.38m.
Core 43	The same as Core 40 but with thicknesses of 0.25m and 0.22m.
Core 44	The same as Core 40 but with thicknesses of 0.12m and 0.40m.
Core 45	This sample contained three distinctly different layers of peat. The first two were the same composition to Core 40. However, the third and deepest layer contained peat that had practically fully decomposed in which there was hardly recognised plant structure and when squeezed it formed a uniform paste. This third layer had a high moisture content. The layer thicknesses were 0.14m, 0.26m, and 0.1m
Core 46	This sample was similar to Core 45 however its third and deepest layer shown peat that had not decomposed quite as much and still contained some indistinct plant structure. This layer also was less moist than the one in Core 45. The layer thicknesses were 0.3m, 0.62m, 0.38m.
Core 47	This probe consisted of 0.08m of a dark brown clayey fine sand.
Core 48	This probe consisted of 0.1m of brown clayey fine sand.

Core 49	This sample contained three distinct peat layers with thicknesses of 0.22m, 0.83m, 0.55m with the base of the peat reaching 1.6mbgl. The top layer consisted of slightly to very slightly decomposed peat with identifiable plant remains and a low moisture content. The second layer consisted of moderately to very highly decomposed peat with a now very indistinct plant structure and a moderate/high moisture content. The third and deepest layer contained practically fully decomposed peat with hardly any recognisable plant structure and a high moisture content.
Core 50	This consisted of 0.1m of dark brown silty fine to medium sand.
Core 51	This consisted of 0.08m of light brown fine sand.
Core 52	This core was a near identical make up to Core 49. The thickness of the three layers were 0.38m, 0.24m, and 0.23m
Core 53	This contained two distinct peat layers of 0.15m and 0.05m. The top layer was almost entirely undecomposed/very slightly decomposed with identifiable plant remains and a low moisture content. The second layer consisted of moderately highly decomposed peat with faintly recognisable plant structure and a moderate moisture content.
Core 54	0.05m of brown fine to medium sand.
Core 55	0.25m of brown fine to medium sand with frequent fine roots.
Core 56	0.14m of brown clayey fine to medium sand.
Core 57	0.17m of brown clayey fine to medium sand.
Core 58	0.02m of brown clayey fine to medium sand.
Core 59	0.05m of brown fine to medium sand.
Core 60	One 0.5m thick layer of a very slightly/moderately decomposed peat containing plant remains that are starting to become slightly indistinct. Muddy water is released when squeezed and it has a low/moderate moisture content.

FAIRHURST

Appendix 1.3 – Peat Coring Von Post Groups and % of type encountered – Using Preliminary Logs supplied by BAM Ritchies.

Location	Base of Peat (mbgl)	Top of Strata (mbgl)	Base of Strata (mbgl)	Thickness	Type of Peat (HX, BX)	
Core 1	1.6	0	0.6	0.6	H2-3	B2
		0.6	1	0.4	H4	B3
		1	1.6	0.6	H6-7	B3
Core 2	1.8	0	1	1	H4	B2-B3
		1	1.5	0.5	H6-7	B3
		1.5	1.8	0.3	H3	B2
Core 3	2.1	0	0.5	0.5	H5-7	B3
		0.5	2.1	1.6	H6-7	B3
Core 4	2.2	0	1	1	H2-4	B2
		1	2.2	1.2	H5-6	B3
Core 5	1.56	0	1.05	1.05	H2-3	B2
		1.05	1.56	0.51	H4	B3
Core 6	1	0	0.3	0.3	H3-4	B1-2
		0.3	0.8	0.5	H6-7	B3
		0.8	1	0.2	H9	B4
Core 7	1.35	0	0.3	0.3	H4-5	B1-2
		0.3	1.35	1.05	H6-8	B3
Core 8	3.15	0	1.25	1.25	H2-4	B2-3
		1.25	2.4	1.15	H6-8	B4
		2.4	3.15	0.75	H9	B4
Core 9	0.65	0	0.35	0.35	H3-4	B2
		0.35	0.65	0.3	H6	B3
Core 10	0.7	0	0.7	0.7	H2-3	
Core 11	2.4	0	0.6	0.6	H2-4	B2-3
		0.6	1.4	0.8	H6-7	B3
		1.4	2	0.6	H8-9	B4
		2	2.4	0.4	Grey to greyish brown CLAY	
Core 12	0.12	0	0.12	0.12	TOPSOIL: Brown fine to medium grained SAND	
Core 13	1.3	0	0.1	0.1	TOPSOIL: Brown fine to medium SAND	
		0.1	0.4	0.3	H1-2	B1-2
		0.4	1.2	0.8	H6-7	B3
		1.2	1.3	0.1	H8-9	B4
Core 14	0.2	0	0.1	0.1	TOPSOIL: Brown clayey fine to medium SAND	
		0.1	0.2	0.1	H4-5	B2-B3
Core 15	1	0	0.18	0.18	H5	B3
		0.18	0.31	0.13	H2-3	B2
		0.31	0.9	0.59	H5	B3
		0.9	1	0.1	H6-7	B3
Core 16	0.5	0	0.03	0.03	TOPSOIL: Brown clayey fine to medium SAND	
		0.03	0.12	0.09	H3-4	B2
		0.12	0.5	0.38	H5	B2-3

Tot No. of H = 117

Tot No. of B = 115

%
H1 = 3.4%
H2 = 16.2%
H3 = 17.9%
H4 = 11.1%
H5 = 20.5%
H6 = 14.5%
H7 = 0.9%
H8 = 7.7%
H9 = 8.5%
H10 = 0%
B1 = 5.2%
B2 = 40%
B3 = 39.1%
B4 = 15.7%
B5 = 0%

FAIRHURST

Core 17	1.3	0	0.1	0.1	H1-2	B1-2
		0.1	0.8	0.7	H5	B3
		0.8	1.1	0.3	H6-7	B3
		1.1	1.3	0.2	H9-10	B4-5
Core 18	0.18	0	0.02	0.02	TOPSOIL: Brown clayey fine to medium SAND	
		0.02	0.18	0.16	H2	B2
Core 19	1.2	0	0.2	0.2	H2	B2
		0.2	1.2	1	H5-6	
Core 20	2.5	0	0.95	0.95	H4-5	B3
		0.95	2.5	1.55	H6-8	B4
Core 21	1.6	0	0.05	0.05	H4-5	B2
		0.05	1.6	1.55	H6-7	B3
Core 22	3.2	0	0.9	0.9	H2-3	B2
		0.9	1.6	0.7	H4-6	B2-3
		1.6	3.2	1.6	H5-6	B3
Core 23	3	0	0.45	0.45	H2-3	B3
		0.45	2.3	1.85	H4-6	B3
		2.3	3	0.7	H8-9	B3-4
Core 24	0.85	0	0.1	0.1	H2-3	B3
		0.1	0.4	0.3	H4-6	B3
		0.4	0.85	0.45	H8-9	B3-4
Core 25	1.85	0	1.6	1.6	H5-7	B2-4
		1.6	1.85	0.25	Light grey slightly clayey subangular fine to medium GRAVEL	
Core 26	1.85	0	0.4	0.4	H2-3	B2
		0.4	1	0.6	H4-6	B3
		1	1.85	0.85	H9	B4
Core 27	0.1	0	0.1	0.1	H4	B2
Core 28	0.6	0	0.1	0.1	H1-2	B2
		0.1	0.6	0.5	H3-5	B3
Core 29	1.75	0	0.45	0.45	H2-4	B2
		0.45	1.75	1.3	H3-5	B3
Core 30	0.4	0	0.2	0.2	H5-6	B3
		0.2	0.4	0.2	H9	B3
Core 31	0.33	0	0.12	0.12	H2-3	B1
		0.12	0.33	0.21	H6-7	B2
Core 32	0.26	0	0.15	0.15	H2-4	B1
		0.15	0.26	0.11	H6-7	B2
Core 33	1.15	0	0.25	0.25	H1-3	B2
		0.25	0.55	0.3	H5-6	B3-4
		0.55	1.15	0.6	H8-9	B4
Core 34	1.1	0	0.4	0.4	H3-4	B2-3
		0.4	0.86	0.46	H5-7	B3-4
		0.86	1.1	0.24	H8-9	B4-5
Core 35	1.93	0	0.62	0.62	H2-5	B2-3

		0.62	1.78	1.16	H5-7	B3-4
		1.78	1.93	0.15	H8-9	B4
Core 36	2.35	0	0.62	0.62	H3-5	B2-3
		0.62	1.92	1.3	H5-7	B3-4
		1.92	2.35	0.43	H8-9	B4
Core 37	1.9	0	0.4	0.4	H3-4	B2
		0.4	1.6	1.2	H5-7	B3-4
		1.6	1.9	0.3	H8-9	B4
Core 38	1.65	0	0.18	0.18	H3-4	B2
		0.18	1.1	0.92	H5-8	B3-4
		1.1	1.65	0.55	H9	B4-5
Core 39	1.65	0	0.19	0.19	H3	B3
		0.19	0.6	0.41	H4-6	B3-4
		0.6	1.65	1.05	H9-10	B4-5
Core 40	0.74	0	0.22	0.22	H3	B2
		0.22	0.74	0.52	H5-7	B2-3
Core 41	0.5	0	0.1	0.1	H3	B2
		0.1	0.5	0.4	H5-7	B2-3
Core 42	0.52	0	0.14	0.14	H3	B2
		0.14	0.52	0.38	H5-7	B2-3
Core 43	0.47	0	0.25	0.25	H2-4	B2
		0.25	0.47	0.22	H5-7	B2-3
Core 44	0.52	0	0.12	0.12	H3-4	B2
		0.12	0.52	0.4	H5-7	B2-3
Core 45	0.5	0	0.14	0.14	H3-4	B2
		0.14	0.4	0.26	H5-7	B3
		0.4	0.5	0.1	H9	B4
Core 46	1.3	0	0.3	0.3	H3-4	B2
		0.3	0.92	0.62	H5	B3
		0.92	1.3	0.38	H7-8	B3
Core 47	0.08	0	0.08	0.08	TOPSOIL: Dark brown clayey fine SAND	
Core 48	0.1	0	0.1	0.1	TOPSOIL: Brown clayey fine SAND	
Core 49	1.6	0	0.22	0.22	H3-4	B2
		0.22	1.05	0.83	H6-8	B3-4
		1.05	1.6	0.55	H9	B4
Core 50	0.1	0	0.1	0.1	Dark brown silty fine to medium SAND	
Core 51	0.08	0	0.08	0.08	Light brown fine SAND	
Core 52	0.85	0	0.38	0.38	H3-4	B2
		0.38	0.62	0.24	H5-7	B3-4
		0.62	0.85	0.23	H9	B4
Core 53	0.2	0	0.15	0.15	H2-3	B2
		0.15	0.2	0.05	H6	B3
Core 54	0.05	0	0.05	0.05	Brown fine to medium SAND	
Core 55	0.25	0	0.25	0.25	Brown fine to medium SAND with frequenct fine roots	
Core 56	0.14	0	0.14	0.14	TOPSOIL: Brown clayey fine to medium SAND	

Core 57	0.17	0	0.17	0.17	TOPSOIL: Brown clayey fine to medium SAND	
Core 58	0.02	0	0.02	0.02	TOPSOIL: Brown clayey fine to medium SAND	
Core 59	0.05	0	0.05	0.05	Brown fine to medium SAND	
Core 60	0.5	0	0.5	0.5	H3-5	B2-3

Appendix 2 Preliminary Peat Core Logs

Exploratory Hole Log

Location ID: PC01
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	231222.87 mE	Checked By:	SR
Client:	BAM		824375.83 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	341.84 mOD	Scale:	1:25
Date Started:	03/07/2024			Log Status:	PRELIM
Date Completed:	03/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	1.60m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)
Spongy to firm dark brown fibrous PEAT (H2-H3, B2) with many fine roots. *0.00 - 0.30m : Moist.* *0.30 - 1.60m : Wet.*		(0.60)	
		0.60	341.24
Firm dark brown clayey pseudo-fibrous PEAT (H4, B3).		(0.40)	
		1.00	340.84
Firm dark brown to black pseudo-fibrous PEAT (H6-7, B3).		(0.60)	
1.60m : Refusal on hard base.		1.60	340.24
Terminated at 1.60m			

Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC01
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	231222.87 mE	Checked By:	SR
Client:	BAM		824375.83 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	341.84 mOD	Log Status:	PRELIM
Date Started:	03/07/2024			Print Date:	31/07/2024
Date Completed:	03/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	1.60m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.60	RPC	03/07/2024	03/07/2024	Russian Peat Corer				SK	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
03/07/2024	07:30	0.00			Start of shift
03/07/2024	17:30	1.60			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.60	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC02
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	231022.84 mE	Checked By:	SR
Client:	BAM		824300.81 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	347.84 mOD	Scale:	1:25
Date Started:	03/07/2024			Log Status:	PRELIM
Date Completed:	03/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	1.80m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing: Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Spongy dark brown clayey pseudo-fibrous PEAT (H4, B2-B3).		(1.00)														
		1.00	346.84													
Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, B3).		(0.50)														
		1.50	346.34													
Firm dark brown clayey fibrous PEAT (H3, B2) with few fine roots.		(0.30)														
1.80m : Refusal on hard base.		1.80	346.04													
Terminated at 1.80m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC02
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	231022.84 mE	Checked By:	SR
Client:	BAM		824300.81 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	347.84 mOD	Log Status:	PRELIM
Date Started:	03/07/2024			Print Date:	31/07/2024
Date Completed:	03/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	1.80m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.80	RPC	03/07/2024	03/07/2024	Russian Peat Corer				SK	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
03/07/2024	07:30	0.00			Start of shift
03/07/2024	17:30	1.80			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.80	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC03
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	230922.85 mE	Checked By:	SR
Client:	BAM		824125.82 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	351.44 mOD	Scale:	1:25
Date Started:	03/07/2024			Log Status:	PRELIM
Date Completed:	03/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	2.10m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy dark brown clayey pseudo-fibrous PEAT (H5-H7, B3).		(0.50)														
		0.50	350.94													
Spongy dark brown clayey pseudo-fibrous PEAT (H6-H7, B3).		(1.60)														
2.10m : Refusal on hard base.		2.10	349.34													
Terminated at 2.10m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC03
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB
Project No:	RGN.331V	Co-ordinates:	230922.85 mE
Client:	BAM		824125.82 mN
Engineer:	Fairhurst	Ground Level:	351.44 mOD
Date Started:	03/07/2024	Orientation:	- - deg.
Date Completed:	03/07/2024	Inclination:	90 deg.

Hole Type:	RPC
Checked By:	SR
Approved By:	AH
Log Status:	PRELIM
Print Date:	31/07/2024
Final Depth:	2.10m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	2.10	RPC	03/07/2024	03/07/2024	Russian Peat Corer				SK	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
03/07/2024	07:30	0.00			Start of shift
03/07/2024	17:30	2.10			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	2.10	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC04
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	230822.89 mE	Checked By:	SR
Client:	BAM		824050.88 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	351.04 mOD	Scale:	1:25
Date Started:	03/07/2024			Log Status:	PRELIM
Date Completed:	03/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	2.20m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Firm light brown to dark brown fibrous PEAT (H2-H4, B2) with many fine roots. *0.00 - 0.20m : Moist.* *0.20 - 2.20m : Wet.*		(1.00)														
Firm dark brown clayey pseudo-fibrous PEAT (H5-6, B3).		1.00	350.04													
		(1.20)														
2.20m : Refusal on hard base. Terminated at 2.20m		2.20	348.84													

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC04
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB
Project No:	RGN.331V	Co-ordinates:	230822.89 mE 824050.88 mN
Client:	BAM	Ground Level:	351.04 mOD
Engineer:	Fairhurst		
Date Started:	03/07/2024	Orientation:	- - deg.
Date Completed:	03/07/2024	Inclination:	90 deg.

Hole Type:	RPC
Checked By:	SR
Approved By:	AH
Log Status:	PRELIM
Print Date:	31/07/2024
Final Depth:	2.20m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	2.20	RPC	03/07/2024	03/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
03/07/2024	07:30	0.00			Start of shift
03/07/2024	17:30	2.20			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	2.20	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC05
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	230722.85 mE	Checked By:	SR
Client:	BAM		824000.81 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	348.74 mOD	Scale:	1:25
Date Started:	03/07/2024			Log Status:	PRELIM
Date Completed:	03/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	1.56m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing: Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Firm light brown becoming dark brown fibrous PEAT (H2-H3, B2) with many fine roots. *0.00 - 0.50m : Very moist.* *0.50 - 1.56m : Wet.*		(1.05)														
		1.05	347.69													
Plastic dark brown clayey pseudo-fibrous PEAT (H4, B3) with frequent fine roots.		(0.51)														
1.56m : Refusal on hard base. Terminated at 1.56m		1.56	347.18													

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC05
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	230722.85 mE	Checked By:	SR
Client:	BAM		824000.81 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	348.74 mOD	Log Status:	PRELIM
Date Started:	03/07/2024			Print Date:	31/07/2024
Date Completed:	03/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	1.56m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.56	RPC	03/07/2024	03/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
03/07/2024	07:30	0.00			Start of shift
03/07/2024	17:30	1.56			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.56	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC06
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	230432.28 mE	Checked By:	SR
Client:	BAM		824802.08 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	275.21 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	1.00m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)
Spongy dark brown fibrous PEAT (H3-H4, B1-2) with many fine roots. *0.00 - 1.00m : Wet.*		(0.30)	
		0.30	274.91
Firm brown to dark brown clayey pseudo-fibrous PEAT (H6-7, B3).		(0.50)	
		0.80	274.41
Firm dark brown to black pseudo-fibrous PEAT (H9, B4). *1.00m : Refusal on hard base.*		1.00	274.21
Terminated at 1.00m			

Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC06
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	230432.28 mE	Checked By:	SR
Client:	BAM		824802.08 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	275.21 mOD	Log Status:	PRELIM
Date Started:	04/07/2024			Print Date:	31/07/2024
Date Completed:	04/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	1.00m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.00	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SK	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	1.00			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.00	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC07
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	230581.86 mE	Checked By:	SR
Client:	BAM		825186.98 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	237.40 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	1.35m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy dark brown fibrous PEAT (H4-5, B1-2) with many fine roots. *0.00 - 1.35m : Very moist.*		(0.30)														
		0.30	237.10													
Firm dark brown clayey pseudo-fibrous PEAT (H6-8, B3).		(1.05)														
1.35m : Refusal on stiff base.		1.35	236.05													
Terminated at 1.35m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC07
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	230581.86 mE	Checked By:	SR
Client:	BAM		825186.98 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	237.40 mOD	Log Status:	PRELIM
Date Started:	04/07/2024			Print Date:	31/07/2024
Date Completed:	04/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	1.35m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.35	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SK	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	1.35			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.35	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC08
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	230675.58 mE	Checked By:	SR
Client:	BAM		825195.78 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	242.35 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	3.15m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)
Spongy dark brown fibrous PEAT (H2-4, B2-3) with many fine roots. *0.00 - 3.15m : Wet*		(1.25)	
Firm dark brown clayey pseudo-fibrous PEAT (H6-8, B4) with frequent fine roots.		1.25 (1.15)	241.10
Firm dark brown to dark greyish brown clayey amorphous PEAT (H9, B4).		2.40 (0.75)	239.95
3.15m : Refusal on stiff base. Terminated at 3.15m		3.15	239.20

Sampling, Coring and In Situ Testing

Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC08
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	230675.58 mE	Checked By:	SR
Client:	BAM		825195.78 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	242.35 mOD	Log Status:	PRELIM
Date Started:	04/07/2024			Print Date:	31/07/2024
Date Completed:	04/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	3.15m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	3.15	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SK	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	3.15			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	3.15	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC09
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	230906.09 mE	Checked By:	SR
Client:	BAM		825480.04 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	255.97 mOD	Scale:	1:25
Date Started:	03/07/2024			Log Status:	PRELIM
Date Completed:	03/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.65m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy brown fibrous PEAT (H3-4, B2) with many fine roots. *0.00 - 0.65m : Moist.*		(0.35)														
		0.35	255.62													
Dark brown slightly clayey pseudo-fibrous PEAT (H6, B3). *0.65m : Refusal on hard base.*		(0.30)														
Terminated at 0.65m		0.65	255.32													

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC09
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	230906.09 mE	Checked By:	SR
Client:	BAM		825480.04 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	255.97 mOD	Log Status:	PRELIM
Date Started:	03/07/2024			Print Date:	31/07/2024
Date Completed:	03/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.65m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.65	RPC	03/07/2024	03/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
03/07/2024	07:30	0.00			Start of shift
03/07/2024	17:30	0.65			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.65	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC10
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	231143.43 mE	Checked By:	SR
Client:	BAM		825716.26 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	275.05 mOD	Scale:	1:25
Date Started:	03/07/2024			Log Status:	PRELIM
Date Completed:	03/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.70m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy light brown to brown fibrous PEAT (H2-H3, B2) with many fine roots.																
0.00 - 0.70m : Moist.		(0.70)														
0.70m : Refusal on hard base.		0.70	274.35													
Terminated at 0.70m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC10
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	231143.43 mE	Checked By:	SR
Client:	BAM		825716.26 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	275.05 mOD	Log Status:	PRELIM
Date Started:	03/07/2024			Print Date:	31/07/2024
Date Completed:	03/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.70m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.70	RPC	03/07/2024	03/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
03/07/2024	07:30	0.00			Start of shift
03/07/2024	17:30	0.70			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.70	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC11
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	231254.28 mE	Checked By:	SR
Client:	BAM		825876.63 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	266.93 mOD	Scale:	1:25
Date Started:	03/07/2024			Log Status:	PRELIM
Date Completed:	03/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	2.40m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing: Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Spongy brownn fibrous PEAT (H2-H4, B2-3) with many fine roots. *0.00 - 0.60m : Moist.*		(0.60)														
		0.60	266.33													
Firm dark brown clayey pseudo-fibrous PEAT (H6-7, B3). *0.60 - 2.40m : Wet.*		(0.80)														
		1.40	265.53													
Firm dark greyish brown clayey amorphous PEAT (H8-9, B4).		(0.60)														
		2.00	264.93													
Grey to greyish brown CLAY.		(0.40)														
2.40m : Refusal on stiff base.		2.40	264.53													
Terminated at 2.40m																

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC11
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	231254.28 mE	Checked By:	SR
Client:	BAM		825876.63 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	266.93 mOD	Log Status:	PRELIM
Date Started:	03/07/2024			Print Date:	31/07/2024
Date Completed:	03/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	2.40m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	2.40	RPC	03/07/2024	03/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
03/07/2024	07:30	0.00			Start of shift
03/07/2024	17:30	2.40			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	2.40	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC12
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	231376.46 mE	Checked By:	SR
Client:	BAM		825790.31 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	294.32 mOD	Scale:	1:25
Date Started:	03/07/2024			Log Status:	PRELIM
Date Completed:	03/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.12m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
TOPSOIL: Brown fine to medium grained SAND.		0.12	294.20													
0.12m : Refusal on hard base.																
Terminated at 0.12m																

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC12
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	231376.46 mE	Checked By:	SR
Client:	BAM		825790.31 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	294.32 mOD	Log Status:	PRELIM
Date Started:	03/07/2024			Print Date:	31/07/2024
Date Completed:	03/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.12m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.12	RPC	03/07/2024	03/07/2024	Russian Peat Corer				SK	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
03/07/2024	07:30	0.00			Start of shift
03/07/2024	17:30	0.12			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.12	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC13
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	231582.47 mE	Checked By:	SR
Client:	BAM		826015.64 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	291.47 mOD	Scale:	1:25
Date Started:	03/07/2024			Log Status:	PRELIM
Date Completed:	03/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	1.30m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)
TOPSOIL: Brown fine to medium SAND.		0.10	291.37
Firm dark brown clayey fibrous PEAT (H1-2, B1-2).		(0.30)	
Spongy dark brown clayey pseudo-fibrous PEAT (H6-7, B3).		0.40	291.07
		(0.80)	
Spongy to plastic black clayey pseudo-fibrous to amorphous PEAT (H8-9, B4).		1.20	290.27
1.30m : Refusal on hard base.		1.30	290.17
Terminated at 1.30m			

Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC13
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	231582.47 mE	Checked By:	SR
Client:	BAM		826015.64 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	291.47 mOD	Log Status:	PRELIM
Date Started:	03/07/2024			Print Date:	31/07/2024
Date Completed:	03/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	1.30m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.30	RPC	03/07/2024	03/07/2024	Russian Peat Corer				SK	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
03/07/2024	07:30	0.00			Start of shift
03/07/2024	17:30	1.30			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.30	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC14
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	231819.07 mE	Checked By:	SR
Client:	BAM		826413.99 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	292.53 mOD	Scale:	1:25
Date Started:	03/07/2024			Log Status:	PRELIM
Date Completed:	03/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.20m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
TOPSOIL: Brown clayey fine to medium SAND.		0.10	292.43													
Firm to spongy black fibrous to pseudo-fibrous PEAT (H4-H5, B2-B3). *0.20m : Refusal on hard base.*		0.20	292.33													
Terminated at 0.20m																

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC14
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB
Project No:	RGN.331V	Co-ordinates:	231819.07 mE 826413.99 mN
Client:	BAM	Ground Level:	292.53 mOD
Engineer:	Fairhurst		
Date Started:	03/07/2024	Orientation:	- - deg.
Date Completed:	03/07/2024	Inclination:	90 deg.

Hole Type:	RPC
Checked By:	SR
Approved By:	AH
Log Status:	PRELIM
Print Date:	31/07/2024
Final Depth:	0.20m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.20	RPC	03/07/2024	03/07/2024	Russian Peat Corer				SK	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
03/07/2024	07:30	0.00			Start of shift
03/07/2024	17:30	0.20			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.20	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC15
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	231967.30 mE	Checked By:	SR
Client:	BAM		826768.63 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	285.70 mOD	Scale:	1:25
Date Started:	03/07/2024			Log Status:	PRELIM
Date Completed:	03/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	1.00m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy black to dark brown clayey amorphous PEAT (H5, B3)																
		0.18	285.52													
Firm dark brown clayey fibrous PEAT (H2-H3, B2).																
		0.31	285.39													
Spongy to firm dark brown clayey pseudo-fibrous PEAT (H5, B3).																
		(0.59)														
		0.90	284.80													
Spongy to firm black amporphous PEAT (H6-H7, B3)																
1.00m : Refusal on hard base.		1.00	284.70													
Terminated at 1.00m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC15
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB
Project No:	RGN.331V	Co-ordinates:	231967.30 mE
Client:	BAM		826768.63 mN
Engineer:	Fairhurst	Ground Level:	285.70 mOD
Date Started:	03/07/2024	Orientation:	- - deg.
Date Completed:	03/07/2024	Inclination:	90 deg.

Hole Type:	RPC
Checked By:	SR
Approved By:	AH
Log Status:	PRELIM
Print Date:	31/07/2024
Final Depth:	1.00m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.00	RPC	03/07/2024	03/07/2024	Russian Peat Corer				SK	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
03/07/2024	07:30	0.00			Start of shift
03/07/2024	17:30	1.00			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.00	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC16
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232103.00 mE	Checked By:	SR
Client:	BAM		827001.84 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	289.95 mOD	Scale:	1:25
Date Started:	03/07/2024			Log Status:	PRELIM
Date Completed:	03/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.50m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
TOPSOIL: Brown clayey fine to medium SAND.		0.03	289.92													
Spongy dark brown clayey pseudo-fibrous PEAT (H3-H4, B2).		0.12	289.83													
Firm dark brown to black pseudo-fibrous PEAT (H5, B2-B3).		(0.38)														
		0.50	289.45													
Terminated at 0.50m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC16
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232103.00 mE	Checked By:	SR
Client:	BAM		827001.84 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	289.95 mOD	Log Status:	PRELIM
Date Started:	03/07/2024			Print Date:	31/07/2024
Date Completed:	03/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.50m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.50	RPC	03/07/2024	03/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
03/07/2024	07:30	0.00			Start of shift
03/07/2024	17:30	0.50			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.50	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC17
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232043.60 mE	Checked By:	SR
Client:	BAM		827053.99 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	277.28 mOD	Scale:	1:25
Date Started:	03/07/2024			Log Status:	PRELIM
Date Completed:	03/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	1.30m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy dark brown clayey fibrous PEAT (H1-H2, B1-B2).																
Spongy dark brown clayey pseudo-fibrous PEAT (H5, B3).		0.10	277.18													
		(0.70)														
Firm dark brown to black pseudo-fibrous PEAT (H6-H7, B3).		0.80	276.48													
		(0.30)														
Plastic black amorphous PEAT (H9-H10, B4-B5).		1.10	276.18													
1.30m : Refusal on hard base.		1.30	275.98													
Terminated at 1.30m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC17
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232043.60 mE	Checked By:	SR
Client:	BAM		827053.99 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	277.28 mOD	Log Status:	PRELIM
Date Started:	03/07/2024			Print Date:	31/07/2024
Date Completed:	03/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	1.30m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.30	RPC	03/07/2024	03/07/2024	Russian Peat Corer				SK	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
03/07/2024	07:30	0.00			Start of shift
03/07/2024	17:30	1.30			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.30	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC18
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232257.35 mE	Checked By:	SR
Client:	BAM		827425.06 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	285.87 mOD	Scale:	1:25
Date Started:	03/07/2024			Log Status:	PRELIM
Date Completed:	03/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.18m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
TOPSOIL: Brown clayey fine to medium SAND.		0.02	285.85													
Firm dark brown fibrous PEAT (H2, B2).																
0.18m : Refusal on hard base.		0.18	285.69													
Terminated at 0.18m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC18
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232257.35 mE	Checked By:	SR
Client:	BAM		827425.06 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	285.87 mOD	Log Status:	PRELIM
Date Started:	03/07/2024			Print Date:	31/07/2024
Date Completed:	03/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.18m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.18	RPC	03/07/2024	03/07/2024	Russian Peat Corer				SK	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
03/07/2024	07:30	0.00			Start of shift
03/07/2024	17:30	0.18			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.18	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC19
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232224.12 mE	Checked By:	SR
Client:	BAM		827845.21 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	248.77 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	1.20m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy dark brown clayey fibrous PEAT (H2, B2).																
		0.20	248.57													
Firm dark brown clayey pseudo-fibrous PEAT (H5-H6, B2-B3).		(1.00)														
1.20m : Refusal on hard base.		1.20	247.57													
Terminated at 1.20m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC19
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232224.12 mE	Checked By:	SR
Client:	BAM		827845.21 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	248.77 mOD	Log Status:	PRELIM
Date Started:	04/07/2024			Print Date:	31/07/2024
Date Completed:	04/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	1.20m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.20	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SK	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	1.20			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.20	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC20
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232401.20 mE	Checked By:	SR
Client:	BAM		828168.15 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	261.80 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	2.50m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy dark brown clayey pseudo-fibrous PEAT (H4-H5, B3).		(0.95)														
		0.95	260.85													
Firm dark brown clayey pseudo-fibrous PEAT (H6-H8, B4).		(1.55)														
2.50m : Refusal on hard base.		2.50	259.30													
Terminated at 2.50m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC20
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232401.20 mE	Checked By:	SR
Client:	BAM		828168.15 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	261.80 mOD	Log Status:	PRELIM
Date Started:	04/07/2024			Print Date:	31/07/2024
Date Completed:	04/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	2.50m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	2.50	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SK	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	2.50			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	2.50	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC21
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232407.35 mE	Checked By:	SR
Client:	BAM		828257.98 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	260.41 mOD	Scale:	1:25
Date Started:	05/07/2024			Log Status:	PRELIM
Date Completed:	05/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	1.60m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Firm dark brown fibrous PEAT (H4-5, B2) with many fine roots.		0.05	260.36													
0.00 - 1.60m : Very moist.																
Firm to plastic dark brown clayey pseudo-fibrous PEAT (H6-7, B3) with frequent fine roots.		(1.55)														
1.60m : Refusal on hard base.		1.60	258.81													
Terminated at 1.60m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC21
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232407.35 mE	Checked By:	SR
Client:	BAM		828257.98 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	260.41 mOD	Log Status:	PRELIM
Date Started:	05/07/2024			Print Date:	31/07/2024
Date Completed:	05/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	1.60m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.60	RPC	05/07/2024	05/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
05/07/2024	07:30	0.00			Start of shift
05/07/2024	17:30	1.60			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.60	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC22
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232483.98 mE	Checked By:	SR
Client:	BAM		828076.23 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	268.07 mOD	Scale:	1:25
Date Started:	05/07/2024			Log Status:	PRELIM
Date Completed:	05/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	3.20m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing: Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Spongy to firm dark brown fibrous PEAT (H2-3, B2) with many fine roots. *0.00 - 1.60m : Wet.*		(0.90)														
		0.90	267.17													
Firm to plastic dark brown fibrous to pseudo-fibrous PEAT (H4-6, B2-3) with frequent fine roots.		(0.70)														
1.60m : Refusal on hard base.		1.60	266.47													
Plastic dark brown pseudo-fibrous PEAT (H5-6, B3).		(1.60)														
		3.20	264.87													
Terminated at 3.20m																

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC22
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232483.98 mE	Checked By:	SR
Client:	BAM		828076.23 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	268.07 mOD	Log Status:	PRELIM
Date Started:	05/07/2024			Print Date:	31/07/2024
Date Completed:	05/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	3.20m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	3.20	RPC	05/07/2024	05/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
05/07/2024	07:30	0.00			Start of shift
05/07/2024	17:30	3.20			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	3.20	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC23
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232499.16 mE	Checked By:	SR
Client:	BAM		828193.87 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	268.56 mOD	Scale:	1:25
Date Started:	05/07/2024			Log Status:	DRAFT
Date Completed:	05/07/2024	Orientation:	- - deg.	Print Date:	16/10/2024
		Inclination:	90 deg.	Final Depth:	3.00m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Firm dark brown fibrous PEAT (H2-3, B3) with many fine roots. *0.00 - 0.45m : Moist.*		(0.45)														
		0.45	268.11													
Firm to plastic dark brown fibrous to pseudo-fibrous PEAT (H4-6, B3). *0.45 - 3.00m : Wet.*		(1.85)														
		2.30	266.26													
Plastic dark brown pseudo-fibrous to amorphous PEAT (H8-9, B3-4) with frequent fine roots.		(0.70)														
3.00m : Refusal on stiff base.		3.00	265.56													
Terminated at 3.00m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note that this log is still draft and may be subject to change.

Remarks

Exploratory Information Sheet

Location ID: PC23
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232499.16 mE	Checked By:	SR
Client:	BAM		828193.87 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	268.56 mOD	Log Status:	DRAFT
Date Started:	05/07/2024			Print Date:	16/10/2024
Date Completed:	05/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	3.00m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	3.00	RPC	05/07/2024	05/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
05/07/2024	07:30	0.00			Start of shift
05/07/2024	17:30	3.00			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	3.00	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note that this log is still draft and may be subject to change.

Exploratory Hole Log

Location ID: PC24
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232638.40 mE	Checked By:	SR
Client:	BAM		828228.10 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	279.51 mOD	Scale:	1:25
Date Started:	05/07/2024			Log Status:	DRAFT
Date Completed:	05/07/2024	Orientation:	- - deg.	Print Date:	16/10/2024
		Inclination:	90 deg.	Final Depth:	0.85m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Firm brown fibrous PEAT (H2-3, B3) with many fine roots.		0.10	279.41													
0.00 - 0.10m : Moist.																
Firm to plastic dark brown clayey pseudo-fibrous PEAT (H4-6, B3) with frequent fine roots.		(0.30)														
0.10 - 0.85m : Wet.		0.40	279.11													
Plastic dark brown clayey pseudo-fibrous to amorphous PEAT (H8-9, B3-4).		(0.45)														
0.85m : Refusal on hard base.		0.85	278.66													
Terminated at 0.85m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note that this log is still draft and may be subject to change.

Remarks

Exploratory Information Sheet

Location ID: PC24
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB
Project No:	RGN.331V	Co-ordinates:	232638.40 mE
Client:	BAM		828228.10 mN
Engineer:	Fairhurst	Ground Level:	279.51 mOD
Date Started:	05/07/2024	Orientation:	- - deg.
Date Completed:	05/07/2024	Inclination:	90 deg.

Hole Type:	RPC
Checked By:	SR
Approved By:	AH
Log Status:	DRAFT
Print Date:	16/10/2024
Final Depth:	0.85m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.85	RPC	05/07/2024	05/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
05/07/2024	07:30	0.00			Start of shift
05/07/2024	17:30	0.85			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.85	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note that this log is still draft and may be subject to change.

Exploratory Hole Log

Location ID: PC25
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232544.40 mE	Checked By:	SR
Client:	BAM		828325.19 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	267.86 mOD	Scale:	1:25
Date Started:	05/07/2024			Log Status:	DRAFT
Date Completed:	05/07/2024	Orientation:	- - deg.	Print Date:	16/10/2024
		Inclination:	90 deg.	Final Depth:	1.85m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing: Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Firm to plastic dark brown clayey pseudo-fibrous PEAT (H5-7, B2-4) with frequent fine roots. *0.00 - 1.60m : Wet.*		(1.60)														
1.60m : Refusal on granular base.		1.60	266.26													
Light grey slightly clayey subangular fine to medium GRAVEL.		1.85	266.01													
Terminated at 1.85m																

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note that this log is still draft and may be subject to change.

Remarks

Exploratory Information Sheet

Location ID: PC25
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232544.40 mE	Checked By:	SR
Client:	BAM		828325.19 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	267.86 mOD	Log Status:	DRAFT
Date Started:	05/07/2024			Print Date:	16/10/2024
Date Completed:	05/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	1.85m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.85	RPC	05/07/2024	05/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
05/07/2024	07:30	0.00			Start of shift
05/07/2024	17:30	1.85			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.85	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note that this log is still draft and may be subject to change.

Exploratory Hole Log

Location ID: PC26
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232430.91 mE	Checked By:	SR
Client:	BAM		828437.91 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	252.11 mOD	Scale:	1:25
Date Started:	05/07/2024			Log Status:	DRAFT
Date Completed:	05/07/2024	Orientation:	- - deg.	Print Date:	16/10/2024
		Inclination:	90 deg.	Final Depth:	1.85m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)
Spongy brown fibrous PEAT (H2-3, B2) with many fine roots. *0.00 - 1.85m : Wet.*		(0.40)	
		0.40	251.71
Firm to plastic dark brown clayey pseudo-fibrous PEAT (H4-6, B3) with frequent fine roots.		(0.60)	
		1.00	251.11
Plastic dark brown clayey amorphous PEAT (H9, B4).		(0.85)	
1.85m : Refusal on hard base. Terminated at 1.85m		1.85	250.26

Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note that this log is still draft and may be subject to change.

Remarks

Exploratory Information Sheet

Location ID: PC26
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232430.91 mE	Checked By:	SR
Client:	BAM		828437.91 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	252.11 mOD	Log Status:	DRAFT
Date Started:	05/07/2024			Print Date:	16/10/2024
Date Completed:	05/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	1.85m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.85	RPC	05/07/2024	05/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
05/07/2024	07:30	0.00			Start of shift
05/07/2024	17:30	1.85			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.85	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note that this log is still draft and may be subject to change.

Exploratory Hole Log

Location ID: PC27
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232509.46 mE	Checked By:	SR
Client:	BAM		828517.42 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	248.98 mOD	Scale:	1:25
Date Started:	05/07/2024			Log Status:	DRAFT
Date Completed:	05/07/2024	Orientation:	- - deg.	Print Date:	16/10/2024
		Inclination:	90 deg.	Final Depth:	0.10m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy brown fibrous PEAT (H4, B2) with many fine roots. *0.00 - 0.10m : Very moist.* *0.10m : Refusal on hard base.* Terminated at 0.10m		0.10	248.88													

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note that this log is still draft and may be subject to change.

Remarks

Exploratory Information Sheet

Location ID: PC27
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232509.46 mE	Checked By:	SR
Client:	BAM		828517.42 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	248.98 mOD	Log Status:	DRAFT
Date Started:	05/07/2024			Print Date:	16/10/2024
Date Completed:	05/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.10m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.10	RPC	05/07/2024	05/07/2024	Russian Peat Corer				SR	Boulders along surface.

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
05/07/2024	07:30	0.00			Start of shift
05/07/2024	17:30	0.10			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.10	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note that this log is still draft and may be subject to change.

Exploratory Hole Log

Location ID: PC28
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232498.76 mE	Checked By:	SR
Client:	BAM		828637.10 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	241.22 mOD	Scale:	1:25
Date Started:	05/07/2024			Log Status:	DRAFT
Date Completed:	05/07/2024	Orientation:	- - deg.	Print Date:	16/10/2024
		Inclination:	90 deg.	Final Depth:	0.60m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy light brown fibrous PEAT (H1-2, B2) with many fine roots.		0.10	241.12													
0.00 - 0.60m : Wet.																
Spongy to firm slightly clayey brown fibrous PEAT (H3-5, B3) with many fine roots.		(0.50)														
0.60m : Refusal on stiff base.		0.60	240.62													
Terminated at 0.60m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note that this log is still draft and may be subject to change.

Remarks

Exploratory Information Sheet

Location ID: PC28
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232498.76 mE	Checked By:	SR
Client:	BAM		828637.10 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	241.22 mOD	Log Status:	DRAFT
Date Started:	05/07/2024			Print Date:	16/10/2024
Date Completed:	05/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.60m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.60	RPC	05/07/2024	05/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
05/07/2024	07:30	0.00			Start of shift
05/07/2024	17:30	0.60			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.60	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note that this log is still draft and may be subject to change.

Exploratory Hole Log

Location ID: PC29
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232564.80 mE	Checked By:	SR
Client:	BAM		828705.80 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	240.01 mOD	Scale:	1:25
Date Started:	05/07/2024			Log Status:	DRAFT
Date Completed:	05/07/2024	Orientation:	- - deg.	Print Date:	16/10/2024
		Inclination:	90 deg.	Final Depth:	1.75m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy brown fibrous PEAT (H2-4, B2) with many fine roots. *0.00 - 1.75m : Wet.*		(0.45)														
		0.45	239.56													
Firm to plasic dark brown clayey pseudo-fibrous PEAT (H3-5, B3).		(1.30)														
1.75m : Refusal on stiff base.		1.75	238.26													
Terminated at 1.75m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note that this log is still draft and may be subject to change.

Remarks

Exploratory Information Sheet

Location ID: PC29
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232564.80 mE	Checked By:	SR
Client:	BAM		828705.80 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	240.01 mOD	Log Status:	DRAFT
Date Started:	05/07/2024			Print Date:	16/10/2024
Date Completed:	05/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	1.75m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.75	RPC	05/07/2024	05/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
05/07/2024	07:30	0.00			Start of shift
05/07/2024	17:30	1.75			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.75	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note that this log is still draft and may be subject to change.

Exploratory Hole Log

Location ID: PC30
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232526.25 mE	Checked By:	SR
Client:	BAM		828751.43 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	239.26 mOD	Scale:	1:25
Date Started:	17/07/2024			Log Status:	DRAFT
Date Completed:	17/07/2024	Orientation:	- - deg.	Print Date:	16/10/2024
		Inclination:	90 deg.	Final Depth:	0.40m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Firm dark brown pseudo-fibrous PEAT (5-6, B3) with frequent fine roots. *0.00 - 0.40m : Moist.*		0.20	239.06													
Plastic dark greyish brown clayey amorphous PEAT (H9, B3). *0.40m : Refusal on hard base.*		0.40	238.86													
Terminated at 0.40m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note that this log is still draft and may be subject to change.

Remarks

Exploratory Information Sheet

Location ID: PC30
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB
Project No:	RGN.331V	Co-ordinates:	232526.25 mE
Client:	BAM		828751.43 mN
Engineer:	Fairhurst	Ground Level:	239.26 mOD
Date Started:	17/07/2024	Orientation:	- - deg.
Date Completed:	17/07/2024	Inclination:	90 deg.

Hole Type:	RPC
Checked By:	SR
Approved By:	AH
Log Status:	DRAFT
Print Date:	16/10/2024
Final Depth:	0.40m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.40	RPC	17/07/2024	17/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
17/07/2024	07:30	0.00			Start of shift
17/07/2024	17:30	0.40			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.40	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note that this log is still draft and may be subject to change.

Exploratory Hole Log

Location ID: PC31
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232656.44 mE	Checked By:	SR
Client:	BAM		828869.74 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	232.49 mOD	Scale:	1:25
Date Started:	17/07/2024			Log Status:	DRAFT
Date Completed:	17/07/2024	Orientation:	- - deg.	Print Date:	16/10/2024
		Inclination:	90 deg.	Final Depth:	0.33m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy brown fibrous PEAT (2-3, B1) with many fine roots. *0.00 - 0.12m : Dry.*		0.12	232.37													
Firm dark brown clayey pseudo-fibrous PEAT (H6-7, B2). *0.12 - 0.33m : Moist.* *0.33m : Refusal on hard base.*		0.33	232.16													
Terminated at 0.33m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note that this log is still draft and may be subject to change.

Remarks

Exploratory Information Sheet

Location ID: PC31
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB
Project No:	RGN.331V	Co-ordinates:	232656.44 mE
Client:	BAM		828869.74 mN
Engineer:	Fairhurst	Ground Level:	232.49 mOD
Date Started:	17/07/2024	Orientation:	- - deg.
Date Completed:	17/07/2024	Inclination:	90 deg.

Hole Type:	RPC
Checked By:	SR
Approved By:	AH
Log Status:	DRAFT
Print Date:	16/10/2024
Final Depth:	0.33m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.33	RPC	17/07/2024	17/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
17/07/2024	07:30	0.00			Start of shift
17/07/2024	17:30	0.33			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.33	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note that this log is still draft and may be subject to change.

Exploratory Hole Log

Location ID: PC32
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232781.45 mE	Checked By:	SR
Client:	BAM		828980.98 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	225.92 mOD	Scale:	1:25
Date Started:	17/07/2024			Log Status:	PRELIM
Date Completed:	17/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.26m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy brown fibrous PEAT (2-4, B1) with many fine roots.																
0.00 - 0.26m : Moist.		0.15	225.77													
Firm dark brown clayey pseudo-fibrous PEAT (H6-7, B2).		0.26	225.66													
0.26m : Refusal on hard base.																
Terminated at 0.26m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC32
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232781.45 mE	Checked By:	SR
Client:	BAM		828980.98 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	225.92 mOD	Log Status:	PRELIM
Date Started:	17/07/2024			Print Date:	31/07/2024
Date Completed:	17/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.26m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.26	RPC	17/07/2024	17/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
17/07/2024	07:30	0.00			Start of shift
17/07/2024	17:30	0.26			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.26	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC33
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	233072.72 mE	Checked By:	SR
Client:	BAM		828986.31 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	238.06 mOD	Scale:	1:25
Date Started:	17/07/2024			Log Status:	PRELIM
Date Completed:	17/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	1.15m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)
Spongy brown fibrous PEAT (H1-3, B2) with many fine roots. *0.00 - 0.25m : Moist.*		0.25	237.81
Firm dark brown clayey pseudo-fibrous PEAT (H5-6, B3-4). *0.25 - 1.15m : Wet.*		(0.30)	
Plastic dark brown to black clayey amorphous PEAT (H8-9, B4).		0.55	237.51
		(0.60)	
1.15m : Refusal on hard base.		1.15	236.91
Terminated at 1.15m			

Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC33
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	233072.72 mE	Checked By:	SR
Client:	BAM		828986.31 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	238.06 mOD	Log Status:	PRELIM
Date Started:	17/07/2024			Print Date:	31/07/2024
Date Completed:	17/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	1.15m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.15	RPC	17/07/2024	17/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
17/07/2024	07:30	0.00			Start of shift
17/07/2024	17:30	1.15			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.15	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC34
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	233128.53 mE	Checked By:	SR
Client:	BAM		829042.75 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	237.22 mOD	Scale:	1:25
Date Started:	17/07/2024			Log Status:	PRELIM
Date Completed:	17/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	1.10m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing: Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Spongy to firm brown to dark brown fibrous PEAT (H3-4, B2-3) with many fine roots. *0.00 - 0.20m : Moist.* *0.20 - 1.10m : Wet.*		(0.40)														
		0.40	236.82													
Firm dark brown clayey pseudo-fibrous PEAT (H5-7, B3-4).		(0.46)														
		0.86	236.36													
Plastic dark brown to black clayey amorphous PEAT (H8-9, B4-5). *1.10m : Refusal on stiff base.*		1.10	236.12													
Terminated at 1.10m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC34
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB
Project No:	RGN.331V	Co-ordinates:	233128.53 mE
Client:	BAM		829042.75 mN
Engineer:	Fairhurst	Ground Level:	237.22 mOD
Date Started:	17/07/2024	Orientation:	- - deg.
Date Completed:	17/07/2024	Inclination:	90 deg.

Hole Type:	RPC
Checked By:	SR
Approved By:	AH
Log Status:	PRELIM
Print Date:	31/07/2024
Final Depth:	1.10m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.10	RPC	17/07/2024	17/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
17/07/2024	07:30	0.00			Start of shift
17/07/2024	17:30	1.10			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.10	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC35
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	233220.16 mE	Checked By:	SR
Client:	BAM		829111.45 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	235.46 mOD	Scale:	1:25
Date Started:	17/07/2024			Log Status:	PRELIM
Date Completed:	17/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	1.93m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy to firm brown to dark brown fibrous PEAT (H2-5, B2-3) with many fine roots. *0.00 - 0.30m : Moist.* *0.30 - 1.93m : Wet.*		(0.62)														
Firm to plastic dark brown clayey pseudo-fibrous PEAT (H5-7, B3-4).		0.62 (1.16)	234.84													
Plastic dark brown to black clayey amorphous PEAT (H8-9, B4). *1.93m : Refusal on stiff base.*		1.78 1.93	233.68 233.53													
Terminated at 1.93m																

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC35
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	233220.16 mE	Checked By:	SR
Client:	BAM		829111.45 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	235.46 mOD	Log Status:	PRELIM
Date Started:	17/07/2024			Print Date:	31/07/2024
Date Completed:	17/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	1.93m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.93	RPC	17/07/2024	17/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
17/07/2024	07:30	0.00			Start of shift
17/07/2024	17:30	1.93			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.93	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC36
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	233193.91 mE	Checked By:	SR
Client:	BAM		829220.52 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	229.75 mOD	Scale:	1:25
Date Started:	17/07/2024			Log Status:	PRELIM
Date Completed:	17/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	2.35m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy to firm brown to dark brown fibrous PEAT (H3-5, B2-3) with many fine roots. *0.00 - 0.10m : Moist.* *0.10 - 2.35m : Wet.*		(0.62)														
Firm to plastic dark brown clayey pseudo-fibrous PEAT (H5-7, B3-4) with frequent fine roots.		0.62	229.13													
		(1.30)														
Plastic dark brown to black clayey amorphous PEAT (H8-9, B4).		1.92	227.83													
		(0.43)														
2.35m : Refusal on hard base. Terminated at 2.35m		2.35	227.40													

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC36
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	233193.91 mE	Checked By:	SR
Client:	BAM		829220.52 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	229.75 mOD	Log Status:	PRELIM
Date Started:	17/07/2024			Print Date:	31/07/2024
Date Completed:	17/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	2.35m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	2.35	RPC	17/07/2024	17/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
17/07/2024	07:30	0.00			Start of shift
17/07/2024	17:30	2.35			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	2.35	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC37
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	233212.92 mE	Checked By:	SR
Client:	BAM		829236.72 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	228.62 mOD	Scale:	1:25
Date Started:	17/07/2024			Log Status:	PRELIM
Date Completed:	17/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	1.90m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)
Spongy brown to dark brown fibrous PEAT (H3-4, B2) with many fine roots. *0.00 - 0.20m : Moist.* *0.20 - 1.90m : Wet.*		(0.40)	
		0.40	228.22
Firm to plastic dark brown clayey pseudo-fibrous PEAT (H5-7, B3-4).		(1.20)	
		1.60	227.02
Plastic dark brown to black clayey amorphous PEAT (H8-9, B4).		(0.30)	
1.90m : Refusal on stiff base. Terminated at 1.90m		1.90	226.72

Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC37
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	233212.92 mE	Checked By:	SR
Client:	BAM		829236.72 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	228.62 mOD	Log Status:	PRELIM
Date Started:	17/07/2024			Print Date:	31/07/2024
Date Completed:	17/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	1.90m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.90	RPC	17/07/2024	17/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
17/07/2024	07:30	0.00			Start of shift
17/07/2024	17:30	1.90			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.90	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC38
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	233289.02 mE	Checked By:	SR
Client:	BAM		829335.50 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	220.96 mOD	Scale:	1:25
Date Started:	17/07/2024			Log Status:	DRAFT
Date Completed:	17/07/2024	Orientation:	- - deg.	Print Date:	16/10/2024
		Inclination:	90 deg.	Final Depth:	1.65m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy brown fibrous PEAT (H3-4, B2) with many fine roots.		0.18	220.78													
0.00 - 0.15m : Moist.																
Firm to plastic dark brown slightly clayey pseudo-fibrous PEAT (H5-8, B3-4).		(0.92)														
0.20 - 1.65m : Wet.																
Plastic dark brown to black clayey amorphous PEAT (H9, B4-5).		1.10	219.86													
		(0.55)														
1.65m : Refusal on hard base.		1.65	219.31													
Terminated at 1.65m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note that this log is still draft and may be subject to change.

Remarks

Exploratory Information Sheet

Location ID: PC38
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	233289.02 mE	Checked By:	SR
Client:	BAM		829335.50 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	220.96 mOD	Log Status:	DRAFT
Date Started:	17/07/2024			Print Date:	16/10/2024
Date Completed:	17/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	1.65m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.65	RPC	17/07/2024	17/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
17/07/2024	07:30	0.00			Start of shift
17/07/2024	17:30	1.65			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.65	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note that this log is still draft and may be subject to change.

Exploratory Hole Log

Location ID: PC39
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	233367.93 mE	Checked By:	SR
Client:	BAM		829401.72 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	218.25 mOD	Scale:	1:25
Date Started:	17/07/2024			Log Status:	PRELIM
Date Completed:	17/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	1.65m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing: Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Spongy brown fibrous PEAT (H3, B3) with many fine roots.																
0.00 - 1.65m : Wet.		0.19	218.06													
Firm to plastic dark brown clayey pseudo-fibrous PEAT (H4-6, B3-4).		(0.41)														
		0.60	217.65													
Firm to plastic dark brown clayey amorphouse PEAT (H9-10, B4-5).		(1.05)														
1.65m : Refusal on hard base.		1.65	216.60													
Terminated at 1.65m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC39
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB
Project No:	RGN.331V	Co-ordinates:	233367.93 mE
Client:	BAM		829401.72 mN
Engineer:	Fairhurst	Ground Level:	218.25 mOD
Date Started:	17/07/2024	Orientation:	- - deg.
Date Completed:	17/07/2024	Inclination:	90 deg.

Hole Type:	RPC
Checked By:	SR
Approved By:	AH
Log Status:	PRELIM
Print Date:	31/07/2024
Final Depth:	1.65m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.65	RPC	17/07/2024	17/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
17/07/2024	07:30	0.00			Start of shift
17/07/2024	17:30	1.65			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.65	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC40
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	233433.42 mE	Checked By:	SR
Client:	BAM		829556.13 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	209.81 mOD	Scale:	1:25
Date Started:	17/07/2024			Log Status:	PRELIM
Date Completed:	17/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.74m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy brown fibrous PEAT (H3, B2) with many fine roots. *0.00 - 0.22m : Moist.*		0.22	209.59													
Firm dark brown clayey pseudo-fibrous PEAT (H5-7, B2-3). *0.22 - 0.74m : Wet.*		(0.52)														
Terminated at 0.74m		0.74	209.07													

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC40
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	233433.42 mE	Checked By:	SR
Client:	BAM		829556.13 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	209.81 mOD	Log Status:	PRELIM
Date Started:	17/07/2024			Print Date:	31/07/2024
Date Completed:	17/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.74m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.74	RPC	17/07/2024	17/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
17/07/2024	07:30	0.00			Start of shift
17/07/2024	17:30	0.74			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.74	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC41
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	233632.50 mE	Checked By:	SR
Client:	BAM		829596.88 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	223.08 mOD	Scale:	1:25
Date Started:	16/07/2024			Log Status:	PRELIM
Date Completed:	16/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.50m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy brown fibrous PEAT (H3, B2) with many fine roots.		0.10	222.98													
0.00 - 0.50m : Very moist.																
Firm dark brown clayey pseudo-fibrous PEAT (H5-7, B2-3).		(0.40)														
0.50m : Refusal on hard base.		0.50	222.58													
Terminated at 0.50m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC41
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB
Project No:	RGN.331V	Co-ordinates:	233632.50 mE
Client:	BAM		829596.88 mN
Engineer:	Fairhurst	Ground Level:	223.08 mOD
Date Started:	16/07/2024	Orientation:	- - deg.
Date Completed:	16/07/2024	Inclination:	90 deg.

Hole Type:	RPC
Checked By:	SR
Approved By:	AH
Log Status:	PRELIM
Print Date:	31/07/2024
Final Depth:	0.50m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.50	RPC	16/07/2024	16/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
16/07/2024	07:30	0.00			Start of shift
16/07/2024	17:30	0.50			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.50	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC42
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	233730.86 mE	Checked By:	SR
Client:	BAM		829678.00 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	219.53 mOD	Scale:	1:25
Date Started:	16/07/2024			Log Status:	PRELIM
Date Completed:	16/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.52m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy brown fibrous PEAT (H3, B2) with many fine roots.		0.14	219.39													
0.00 - 0.52m : Very moist.																
Firm dark brown clayey pseudo-fibrous PEAT (H5-7, B2-3).		(0.38)														
0.52m : Refusal on hard base.		0.52	219.01													
Terminated at 0.52m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC42
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	233730.86 mE	Checked By:	SR
Client:	BAM		829678.00 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	219.53 mOD	Log Status:	PRELIM
Date Started:	16/07/2024			Print Date:	31/07/2024
Date Completed:	16/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.52m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.52	RPC	16/07/2024	16/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
16/07/2024	07:30	0.00			Start of shift
16/07/2024	17:30	0.52			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.52	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC43
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234020.15 mE	Checked By:	SR
Client:	BAM		829780.86 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	230.06 mOD	Scale:	1:25
Date Started:	16/07/2024			Log Status:	PRELIM
Date Completed:	16/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.47m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy brown fibrous PEAT (H2-4, B2) with many fine roots. *0.00 - 0.47m : Very moist.*																
Firm dark brown clayey pseudo-fibrous PEAT (H5-7, B2-3). *0.47m : Refusal on hard base.*		0.25	229.81													
Terminated at 0.47m		0.47	229.59													

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC43
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234020.15 mE	Checked By:	SR
Client:	BAM		829780.86 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	230.06 mOD	Log Status:	PRELIM
Date Started:	16/07/2024			Print Date:	31/07/2024
Date Completed:	16/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.47m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.47	RPC	16/07/2024	16/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
16/07/2024	07:30	0.00			Start of shift
16/07/2024	17:30	0.47			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.47	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC44
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234069.62 mE	Checked By:	SR
Client:	BAM		829906.20 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	223.93 mOD	Scale:	1:25
Date Started:	16/07/2024			Log Status:	PRELIM
Date Completed:	16/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.52m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy brown fibrous PEAT (H3-4, B2) with many fine roots.		0.12	223.81													
0.00 - 0.52m : Very moist.																
Firm dark brown clayey pseudo-fibrous PEAT (H5-7, B2-3).		(0.40)														
0.52m : Refusal on hard base.		0.52	223.41													
Terminated at 0.52m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC44
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234069.62 mE	Checked By:	SR
Client:	BAM		829906.20 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	223.93 mOD	Log Status:	PRELIM
Date Started:	16/07/2024			Print Date:	31/07/2024
Date Completed:	16/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.52m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.52	RPC	16/07/2024	16/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
16/07/2024	07:30	0.00			Start of shift
16/07/2024	17:30	0.52			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.52	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC45
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234404.30 mE	Checked By:	SR
Client:	BAM		830159.44 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	221.00 mOD	Scale:	1:25
Date Started:	16/07/2024			Log Status:	PRELIM
Date Completed:	16/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.50m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy brown fibrous PEAT (H3-4, B2) with many fine roots.																
0.00 - 0.50m : Very moist.		0.14	220.86													
Firm to plastic dark brown clayey pseudo-fibrous PEAT (H5-7, B3).																
		0.40	220.60													
Plastic dark brown clayey amorphous PEAT (H9, B4).																
0.50m : Refusal on hard base.		0.50	220.50													
Terminated at 0.50m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC45
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234404.30 mE	Checked By:	SR
Client:	BAM		830159.44 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	221.00 mOD	Log Status:	PRELIM
Date Started:	16/07/2024			Print Date:	31/07/2024
Date Completed:	16/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.50m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.50	RPC	16/07/2024	16/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
16/07/2024	07:30	0.00			Start of shift
16/07/2024	17:30	0.50			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.50	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC46
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234371.95 mE	Checked By:	SR
Client:	BAM		830255.58 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	209.20 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	1.30m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing: Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Spongy brown fibrous PEAT (H3-4, B2) with many fine roots. *0.00 - 0.30m : Moist.*		(0.30)														
		0.30	208.90													
Firm dark brown clayey fibrous PEAT (H5, B3) with frequent fine roots. *0.30 - 1.30m : Wet.*		(0.62)														
		0.92	208.28													
Plastic dark grey pseudo-amorphous PEAT (H7-H8, B3) occasionally interlayered with dark grey amorphous peat.		(0.38)														
1.30m : Refusal on hard base. Terminated at 1.30m		1.30	207.90													

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC46
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234371.95 mE	Checked By:	SR
Client:	BAM		830255.58 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	209.20 mOD	Log Status:	PRELIM
Date Started:	04/07/2024			Print Date:	31/07/2024
Date Completed:	04/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	1.30m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.30	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	1.30			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.30	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC47
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234412.75 mE	Checked By:	SR
Client:	BAM		830343.11 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	206.10 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.08m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
TOPSOIL: Dark brown clayey fine SAND. *0.00 - 0.08m : Moist.* *0.08m : Refusal on hard base.* Terminated at 0.08m		0.08	206.02													

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC47
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234412.75 mE	Checked By:	SR
Client:	BAM		830343.11 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	206.10 mOD	Log Status:	PRELIM
Date Started:	04/07/2024			Print Date:	31/07/2024
Date Completed:	04/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.08m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.08	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	0.08			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.08	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC48
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234475.43 mE	Checked By:	SR
Client:	BAM		830258.93 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	221.57 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.10m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
TOPSOIL: Brown clayey fine SAND. *0.00 - 0.10m : Moist.* *0.10m : Refusal on hard base.* Terminated at 0.10m		0.10	221.47													

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC48
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB
Project No:	RGN.331V	Co-ordinates:	234475.43 mE
Client:	BAM		830258.93 mN
Engineer:	Fairhurst	Ground Level:	221.57 mOD
Date Started:	04/07/2024	Orientation:	- - deg.
Date Completed:	04/07/2024	Inclination:	90 deg.

Hole Type:	RPC
Checked By:	SR
Approved By:	AH
Log Status:	PRELIM
Print Date:	31/07/2024
Final Depth:	0.10m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.10	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	0.10			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.10	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC49
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234587.79 mE	Checked By:	SR
Client:	BAM		830486.52 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	189.19 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	1.60m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)
Spongy brown to dark brown fibrous PEAT (H3-H4, B2) with many fine roots. *0.00 - 0.22m : Moist.*		0.22	188.97
Firm dark brown clayey pseudo-fibrous PEAT (H6-8, B3-4). *0.22 - 1.60m : Wet.*		(0.83)	
Firm dark greyish brown amorphous PEAT (H9, B4).		1.05	188.14
1.60m : Refusal on stiff base.		(0.55)	
Terminated at 1.60m		1.60	187.59

Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC49
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234587.79 mE	Checked By:	SR
Client:	BAM		830486.52 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	189.19 mOD	Log Status:	PRELIM
Date Started:	04/07/2024			Print Date:	31/07/2024
Date Completed:	04/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	1.60m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	1.60	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	1.60			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	1.60	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC50
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234658.64 mE	Checked By:	SR
Client:	BAM		830558.28 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	199.75 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.10m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Dark brown silty fine to medium SAND. *0.00 - 0.10m : Moist.* *0.10m : Refusal on hard base.* Terminated at 0.10m		0.10	199.65													

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC50
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234658.64 mE	Checked By:	SR
Client:	BAM		830558.28 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	199.75 mOD	Log Status:	PRELIM
Date Started:	04/07/2024			Print Date:	31/07/2024
Date Completed:	04/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.10m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.10	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	0.10			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.10	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC51
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234577.63 mE	Checked By:	SR
Client:	BAM		830656.88 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	171.78 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.08m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Light brown fine SAND. *0.00 - 0.08m : Moist.* *0.08m : Refusal on hard base.*		0.08	171.70													
Terminated at 0.08m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC51
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234577.63 mE	Checked By:	SR
Client:	BAM		830656.88 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	171.78 mOD	Log Status:	PRELIM
Date Started:	04/07/2024			Print Date:	31/07/2024
Date Completed:	04/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.08m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.08	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	0.08			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.08	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC52
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234824.19 mE	Checked By:	SR
Client:	BAM		830769.11 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	174.79 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.85m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing: Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Spongy brown fibrous PEAT (H3-4, B2) with many fine roots. *0.00 - 0.85m : Very moist.*		(0.38)														
		0.38	174.41													
Firm dark brown clayey fibrous PEAT (H5-7, B3-4) with frequent fine roots.																
		0.62	174.17													
Firm dark grey clayey amorphous PEAT (H9, B4). *0.85m : Refusal on hard base.*																
		0.85	173.94													
Terminated at 0.85m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC52
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234824.19 mE	Checked By:	SR
Client:	BAM		830769.11 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	174.79 mOD	Log Status:	PRELIM
Date Started:	04/07/2024			Print Date:	31/07/2024
Date Completed:	04/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.85m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.85	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	0.85			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.85	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC53
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234751.77 mE	Checked By:	SR
Client:	BAM		830776.93 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	168.46 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.20m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Spongy brown fibrous PEAT (H2-3, B2) with many fine roots.		0.15	168.31													
0.00 - 0.20m : Moist.																
Firm dark brown clayey fibrous PEAT (H6, B3) with frequent fine roots.		0.20	168.26													
0.20m : Refusal on hard base.																
Terminated at 0.20m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC53
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234751.77 mE	Checked By:	SR
Client:	BAM		830776.93 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	168.46 mOD	Log Status:	PRELIM
Date Started:	04/07/2024			Print Date:	31/07/2024
Date Completed:	04/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.20m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.20	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	0.20			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.20	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC54
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234478.12 mE	Checked By:	SR
Client:	BAM		830787.47 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	155.53 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.05m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Brown fine to medium SAND. *0.05m : Refusal on boulders at surface.* Terminated at 0.05m		0.05	155.48													

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC54
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234478.12 mE	Checked By:	SR
Client:	BAM		830787.47 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	155.53 mOD	Log Status:	PRELIM
Date Started:	04/07/2024			Print Date:	31/07/2024
Date Completed:	04/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.05m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.05	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SR	Boulders along surface.

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	0.05			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00		905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC55
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234511.30 mE	Checked By:	SR
Client:	BAM		831006.27 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	135.32 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.25m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Brown fine to medium SAND with frequent fine roots. *0.00 - 0.25m : Moist.*																
0.25m : Refusal on hard base.		0.25	135.07													
Terminated at 0.25m																

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC55
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234511.30 mE	Checked By:	SR
Client:	BAM		831006.27 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	135.32 mOD	Log Status:	PRELIM
Date Started:	04/07/2024			Print Date:	31/07/2024
Date Completed:	04/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.25m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.25	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	0.25			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.25	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC56
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234890.92 mE	Checked By:	SR
Client:	BAM		831310.91 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	131.41 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.14m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
TOPSOIL: Brown clayey fine to medium SAND.		0.14	131.27													
0.14m : Refusal on hard base.																
Terminated at 0.14m																

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC56
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234890.92 mE	Checked By:	SR
Client:	BAM		831310.91 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	131.41 mOD	Log Status:	PRELIM
Date Started:	04/07/2024			Print Date:	31/07/2024
Date Completed:	04/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.14m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.14	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SR	Point is 14 m away from actual location, access issues due to dense forest.

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	0.14			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.14	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC57
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	235076.99 mE	Checked By:	SR
Client:	BAM		831590.45 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	100.64 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.17m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
TOPSOIL: Brown clayey fine to medium SAND.		0.17	100.47													
0.17m : Refusal on hard base.																
Terminated at 0.17m																

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC57
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	235076.99 mE	Checked By:	SR
Client:	BAM		831590.45 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	100.64 mOD	Log Status:	PRELIM
Date Started:	04/07/2024			Print Date:	31/07/2024
Date Completed:	04/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.17m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.17	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SR	Point is 13 m away from actual location, access issues due to dense forest.

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	0.17			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.17	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC58
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	235047.60 mE	Checked By:	SR
Client:	BAM		831622.59 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	91.46 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.02m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
TOPSOIL: Brown clayey fine to medium SAND. *0.02m : Refusal on hard base.* Terminated at 0.02m		0.02	91.44													

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC58
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	235047.60 mE	Checked By:	SR
Client:	BAM		831622.59 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	91.46 mOD	Log Status:	PRELIM
Date Started:	04/07/2024			Print Date:	31/07/2024
Date Completed:	04/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.02m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.02	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SR	Point close to road track.

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	0.02			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.02	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC59
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	234476.13 mE	Checked By:	SR
Client:	BAM		830894.71 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	147.24 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.05m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing								TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
				Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units					
Brown fine to medium SAND. *0.05m : Refusal on boulders at surface.* Terminated at 0.05m		0.05	147.19													

Stratum depths measured along borehole axis.
Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.
Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'
Further details given on appended 'Exploratory Information Sheet'.
Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC59
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB
Project No:	RGN.331V	Co-ordinates:	234476.13 mE
Client:	BAM		830894.71 mN
Engineer:	Fairhurst	Ground Level:	147.24 mOD
Date Started:	04/07/2024	Orientation:	- - deg.
Date Completed:	04/07/2024	Inclination:	90 deg.

Hole Type:	RPC
Checked By:	SR
Approved By:	AH
Log Status:	PRELIM
Print Date:	31/07/2024
Final Depth:	0.05m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.05	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SR	Boulders along surface.

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	0.05			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.05	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.

Exploratory Hole Log

Location ID: PC60
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232198.76 mE	Checked By:	SR
Client:	BAM		827138.02 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	295.65 mOD	Scale:	1:25
Date Started:	04/07/2024			Log Status:	PRELIM
Date Completed:	04/07/2024	Orientation:	- - deg.	Print Date:	31/07/2024
		Inclination:	90 deg.	Final Depth:	0.50m

Stratum Description	Leg.	Depth (Thick-ness) (m)	Level (m)	Sampling, Coring and In Situ Testing: Depth (m)	Type	Dia (mm)	Rec %	Blows/ [mins]	Test	Test Result	Units	TCR SCR RQD %	IFmin mm IFave mm IFmax mm or [FI]	Water	Well/ Backfill	D
Spongy becoming firm brown to dark brown fibrous PEAT (H3-H5, B2-3) with many fine roots. *0.00 - 0.50m : Moist.*		(0.50)														
0.50m : Refusal on hard base. Terminated at 0.50m		0.50	295.15													

Stratum depths measured along borehole axis.

Groundwater levels may be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Explanation of symbols and abbreviations given in 'Key to Exploratory Holes'

Further details given on appended 'Exploratory Information Sheet'.

Please note this is a preliminary log and has yet to be checked.

Remarks

Exploratory Information Sheet

Location ID: PC60
Sheet 1 of 1

Project Name:	LT521 - Bingally 400kv Substation Access Track GI	Survey Grid System:	OSGB	Hole Type:	RPC
Project No:	RGN.331V	Co-ordinates:	232198.76 mE	Checked By:	SR
Client:	BAM		827138.02 mN	Approved By:	AH
Engineer:	Fairhurst	Ground Level:	295.65 mOD	Log Status:	PRELIM
Date Started:	04/07/2024			Print Date:	31/07/2024
Date Completed:	04/07/2024	Orientation:	- - deg.		
		Inclination:	90 deg.	Final Depth:	0.50m

Depth Related Exploratory Hole Information

From (m)	To (m)	Type	Start	End	Plant	Barrel	Drill Bit	Rig Crew	Logger	Remarks
0.00	0.50	RPC	04/07/2024	04/07/2024	Russian Peat Corer				SR	

Boring-Drilling Progress

Date	Time	Depth (m)	Casing (m)	Depth Water (m)	Remarks
04/07/2024	07:30	0.00			Start of shift
04/07/2024	17:30	0.50			Hole complete

Hole Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Casing Diameter by Depth

Depth (m)	Dia. (mm)	Remarks

Water Added Records

From (m)	To (m)	Volume (litres)	Remarks

Depth Related Remarks

From (m)	To (m)	Remarks

Chiselling / Hard Boring Details

From (m)	To (m)	Duration (hh:mm)	Tool

Drilling Flush Details

From (m)	To (m)	Returns (%)	Flush	Colour

Water Strikes

Date	Strike (m)	Casing (m)	Time (mins)	Depth (m)	Sealed (m)	Remarks

Monitoring Installation Pipe Work

Type	Pipe ID	From (m)	To (m)	Dia(mm)	Pipe Type	Remarks

Backfill Details

From (m)	To (m)	Legend	Description
0.00	0.50	905	Arisings

Standard Penetration Test Results

Depth (m)	Type	N Value	Casing (m)	Water (m)	SWPen(mm)	Blows1	Pen1(mm)	Blows2	Pen2(mm)	Blows3	Pen3(mm)	Blows4	Pen4(mm)	Blows5	Pen5(mm)	Blows6	Pen6(mm)	Hammer	E. Ratio%

Reason for Hole Termination: Refusal

Groundwater levels can be subject to seasonal, tidal and other fluctuations and should not be taken as constant.

Please note this is a preliminary log and has yet to be checked.