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Cumbria
CA15 8RY

Date: 13.08.2026
Project No: GEO2024-6517
Project: Griffin Close, Frizington
Report Title: Mining Remediation Validation Report

Dear Paul,

Geo Environmental Engineering Ltd (GEO) were instructed by Thomas Armstrong (Construction) Limited (the 'Client') to provide a validation report on the completion of the mining remediation works undertaken for the proposed residential development of land located on Griffin Close, in the Cumbrian village of Frizington.

Previous Reports Summary

The following reports have been completed for the site:

- Phase 1: Desk Top Study, ref: 2022-6436, dated: 17.08.2022.
- Phase 2: Ground Investigation Report, ref: 2023-5496, dated: 03.02.2023.
- Supplementary Mining Investigation Report, ref: 2024-6310, dated: 06.08.2024.

A brief summary of each of the reports is included below and continuing on the following pages; however, it is recommended that each report is read in conjunction with this report.

Desk Top Study

Historical records showed that the site was undeveloped until 1981 when the former care home was constructed. It is understood that the care home was demolished around c.2012. GEO has not been able to identify a specific reason why the care home was demolished.

Made ground was anticipated associated with the former development, however, geological data did not indicate any significant made ground on site or within 250m. Drift deposits were recorded as glacial till overlying solid strata of Pennine Middle Coal Measures.

The report indicated a potential for shallow mining in the Bannock Coal seam which is indicated to sub-crop across the north east of the site and dip to the south west. Intrusive mining investigations were recommended. The report also noted a recorded a mine shaft in the northern part of the site. Two other shafts are recorded beyond the site boundary to the north of the site. The report recommended intrusive investigations to locate the mine shaft.

The report indicated a high to very high geotechnical risk associated with redevelopment. The main concern was associated with historical coal mining geohazards such as the potential for shallow unrecorded coal mine workings and the presence of a shaft within the site boundary.

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The report indicated a very low risk to human health from potential ground contamination as no significant sources of contamination were identified. A negligible risk was deemed appropriate with regards to controlled waters, and a moderate risk was deemed appropriate with regards to possible ground gas (associated with possible shallow mining and on-site mine shafts).

Radon protection measures were not deemed necessary.

Ground Investigation Report

The ground investigation comprised mini-percussive boreholes, mechanically excavated trial pitting, trenching and rotary borehole drilling. Ground gas monitoring wells were installed, and gas monitoring was completed on 6 No. occasions between September and December 2022.

Made ground was typically between 0.40m and 2.70m deep and comprised topsoil with occasional fragments of clinker, coal, slag and brick overlying sandy clay fill with occasional of clinker, coal, sandstone, brick and dolomite. Pockets of topsoil/peat, wood fragments and silt were also noted within the fill.

Localised deeper 'made ground' was recorded in the north eastern part of the site associated with an area of geotechnically very poor ground and an underlying loosely infilled void between 3.50m and 5.00m bgl with occasional coal, clinker and brick gravel.

Trenches were excavated across the northern part of the site in order to locate the mine shaft. No evidence of the shaft was encountered.

The underlaying drift typically comprised firm to stiff or stiff sandy gravelly clay with occasional lenses of gravelly sand. Possible heavily weathered mudstone bedrock was encountered from c.0.90m and c.3.60m bgl. Solid mudstone strata were confirmed in the rotary boreholes between c.2.70m and c.3.60m bgl (excluding the areas of deeper 'made ground').

Samples of topsoil, made ground and natural strata were screened for a range of potential contaminants including metals, cyanide, PAH and asbestos. The results were assessed against GAC for a residential development with private gardens. All of the test results came back low with no exceedances. The report indicated that although the existing soils do not pose a risk to human health, they are considered unsuitable for re-use at the surface and an allowance should be made for importing clean soils within the proposed private gardens.

Gas monitoring did not identify any elevated concentrations of carbon dioxide or menthane. However, as a precaution given the potential for shallow mining, gas protection measures were recommended regardless.

Supplementary investigations were recommended to determine the location of the mine shaft and the determine the risk of shallow unrecorded coal mining beneath the northern part of the site. The report concluded that the rock cover across the central and southern parts of the site is sufficient to mitigate significant structural risks.

Conventional strip foundations in the firm to stiff / stiff natural clay or weathered bedrock were considered suitable across the central and southern parts of the site. However, given the geotechnically poor ground in the north eastern parts of the site, piled foundations were recommended in this area.

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Supplementary Mining Investigation Report

A geophysical Survey (Electromagnetic and Ground Conductivity) was completed in May 2024 in an attempt to identify the mine shaft and any mine working artefacts. The investigation identified several anomalies which could be representative of mining relicts or geological structures. Intrusive investigations were recommended at these locations to provide further information.

Dynamic probing was completed in two lines at right angles across the northern part of the site where the previous investigation had identified deep, geotechnically poor ground which was described as 'made ground'. The probes encountered variable ground conditions with very soft/loose ground in the north eastern part of the site to a maximum depth of c.7m bgl. The probe was occasionally falling under its own weight which is generally representative of extremely loose/soft ground or possible voids.

Trial trenching was completed across the north eastern part of the site in July 2024 in order to locate the mine shaft. The trenches encountered a shallow sub-cropping coal seam in the extreme north east which appeared to dip to the south. Weathered mudstone bedrock was typically encountered from depths of between c.1.10m and c.1.50m bgl in this area.

Trench TT03 was located over and targeting the former borehole WS02 which encountered deep 'made ground' and void. The trench encountered a band of coal from c.3.10m and an open void between c.3.40m and c.5.00m bgl. A pillar of coal was also noted along the edge of the void. This confirmed the presence of significant mining beneath the site. Although no made ground was encountered, the weathered bedrock was noted as occasionally loose, possibly due to localised collapse of the underlying workings (void migration).

Evidence of a suspected mine shaft was encountered in trench TT06. This comprised a column of soft / soft to firm brown clay with pockets of gravel which appeared reworked. The trench was excavated to a depth of c.3.60m bgl and the column of soft clay was noted to continue below this depth. Light grey weathered bedrock was recorded either side of this feature. The suspected shaft was surveyed following completion of the investigation

- Suspected Mine Shaft Location: 303377.806, 517407.38.

The rotary boreholes encountered solid bedrock at depths of between c.2.80m and c.5.20m bgl. The boreholes encountered up to three coal seams which varied between 0.15m and 1.55m thick. The thickest seam was encountered within the northern part of the site at depths of 5.50m and 7.60m bgl and corresponds with the workings encountered in the trench.

Evidence of workings was encountered in one of the rotary boreholes (RBH-E) located to the north east of the car park and recorded loss of flush and soft ground from c.11.10m and no returns (complete loss of flush) and broken ground from 12.30m bgl. Solid ground was recorded from c.13.80m bgl.

The report concluded that the Bannock Coal Seam has been worked beneath the site from depths of between 3.20m to over 11m bgl. The seam appears to be between 1.35m and 1.55m thick where it has been worked. Although workings were only encountered across the northern parts of the site, workings elsewhere on site (further south) could not be ruled out.

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Coal Mining Remediation

GEO had confirmed the presence of shallow coal mining below the site, and a suspected mine shaft below the northern part of the site during supplementary ground investigations. The report recommended remediation of the shallow coal mine workings and the suspected mine shaft to stabilise the ground and mitigate the risks to the proposed development and end users.

Van Elle was appointed by the client to investigate and mitigate the risks associated with historic coal mining beneath the site. A copy of Van Elle's factual drilling and treatment report is attached with this Validation Report.

Remediation Works Undertaken

A comprehensive drilling and grouting programme was completed across the proposed development footprint, comprising the drilling of 130 treatment boreholes, drilled to an average depth of approximately 25 m below ground level to investigate and treat shallow mine workings. 72% of boreholes encountered solid coal, indicating no significant evidence of workings, and 28% of boreholes encountered soft or broken ground, consistent with former mine workings.

The investigation confirmed evidence of historic shallow mining activity beneath parts of the site, typically recorded by Van Elle as 'overburden' overlying 'soft ground' ranging between the depths of 4m and 7m bgl. These areas were treated through pressure grouting. Van Elle has not recorded the presence of any open voids, despite the previous trial trenching by GEO breaking through the roof of the workings and encountering an open void.

Where there is no evidence of workings, Van Elle has generally recorded the presence of 'coal' underlain by 'mudstone'.

Two exploratory boreholes were drilled at the MRA's indicated "best fit" location for the recorded mine shaft, however, the mineshaft was not found at this recorded position. The boreholes encountered only superficial deposits and solid mudstone.

A further programme of 80 probe holes was drilled on a 1m grid to locate the recorded mineshaft (303517-006), and this failed to identify the shaft within the investigated area.

Several positions around the location of the sub-surface anomaly identified by GEO and probed by Van Elle has recorded deeper 'overburden' with 'mudstone' (intact rockhead) encountered at depths of c.6m which corelates to the depth at which the coal has been worked. Coal also appears to be missing in several positions within close proximity to where the deeper rockhead has been encountered, and it is possible that collapse of the overlying rockhead / roof of the workings adjacent to the mine entry has occurred and that this may have been mis-identified by the drillers as 'mudstone' and could in fact represent broken ground or goaf. This deepening of 'overburden' corresponds with the sub-surface anomalies identified during the ground investigation.

Whilst localised deepening of overburden is evident, Van Elle does not consider that a mine shaft is present that would require further remedial measures, such as additional grouting or capping works. Nevertheless, this area should remain in accordance with the proposed development layout and be kept free from structural loading. It is possible, when taking into consideration the shallowness of the previously identified open voids in this area (noted in the trial trenching activities) that the feature encountered in the ground investigation may be representative of a crown hole migration feature and

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that Van Elle's remedial grouting works will afford the necessary protection from any future upward void migration.

Approximately 80 tonnes of cementitious grout were injected to stabilise the ground and backfill boreholes. All treatment boreholes were grouted to surface using a 12:1 PFA/OPC grout mix.

Validation boreholes were subsequently tested and maintained a pressure of 2 bar for 2 minutes, demonstrating that the remediation works had been effective and that the treated ground achieved the required standard.

Conclusions

Van Elle considers the remediation works successful and concludes that:

- The identified risks associated with former shallow mine workings have been effectively mitigated.
- Ground treatment has reduced the residual mining risk to a negligible level.
- The proposed residential development can proceed without restriction from shallow mining hazards.
- The Mining Remediation Authority permit can be closed following completion of the works.

Residual Risks and Recommendations

Although the remediation programme was successful, Van Elle notes that all former mining areas carry a residual possibility of:

- Unknown mineshafts,
- Bell pits,
- Adits,
- Crown holes, or
- Other mining-related anomalies.

Accordingly, a watching brief is recommended during all excavation and earthworks. Any unusual ground conditions, changes in material type, voids, or colour variations should be investigated immediately.

Executive Conclusion

This validation report demonstrates that a robust drilling, probing and grouting programme has been completed across the development site.

Where historic shallow mine workings have been identified, these have been successfully treated, and validation testing has confirmed the effectiveness of the remediation works.

Whilst an increase in overburden thickness was identified at the suspected mine shaft location, Van Elle has not conclusively demonstrated the presence of a mine shaft at GEO's suspected location. It is possible, that the feature encountered is representative of crown hole migration. In addition, it is possible that the British Geological Survey (BGS) records, which indicate the shaft is located off-site, are more accurate in this instance than the Mining Remediation Authority (MRA) records, which suggest the shaft is situated within the site boundary.

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When considering the above information and the completion of the grouting remediation works, the site is considered minerally safe, stable and suitable for the proposed residential development subject to normal vigilance during construction activities.

General Comments and Limitations

Consideration must be made for variations to occur in the ground conditions between the exploratory hole locations for which GEO holds no responsibility. It is therefore recommended that a "watching brief" be applied to ensure that if ground conditions vary from those identified during this investigation then advice should be sought from a suitably qualified and experienced Geo-Environmental Engineer.

The recommendations and opinions expressed in this report are based on the ground conditions observed. Consequently, GEO takes no responsibility for conditions that have not been revealed or which occur between them.

The conclusions and recommendations presented within this report are considered reasonable based on the available information. However, these cannot be guaranteed to gain regulatory approval. Therefore, the report should be passed to the appropriate regulatory authorities and/ or other key stakeholders, including warranty providers in order to seek their approval of the findings prior to undertaking any site works or development on site.

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If there are any queries, please do not hesitate to contact Geo-Environmental Engineering Ltd.

Yours Faithfully

[redacted]

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For and on behalf of Geo Environmental Engineering Limited
Richard Stripp *BSc. (Hons) MSc. FGS MIEnvSc*
Associate

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243358

Griffin Close, Frizlington

Factual Report

Drilling and Treatment for Former Shallow Mine Workings

Van Elle
Summit Close
Kirkby-in-Ashfield
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NG17 8GJ
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Contents

Control Sheet

This report has been prepared for the sole benefit, use and information of Thomas Armstrong (Construction) Ltd for the purposes set out in the instructions commissioning it. The liability of Van Elle Ltd in respect of the information contained in the report will not extend to any third party.

Summary Table **Factual Report for the probing and treatment of shallow workings beneath new proposed Residential Development.**	
SITE	Griffin Close, Frizlington
CLIENT	Thomas Armstrong (Construction) Limited
DATE	10/07/2026
REFERENCE	VE243358

Development Proposal	Thomas Armstrong (Construction) Limited (TAC) are currently redeveloping the site of a former care home for a new residential development. This report gives a factual account of the works caried out including shallow mine workings treatment.
Geological Setting / Coal Ming Legacy	The site is underlain by the Pennine Middle Coal Measures consisting productive coal-bearing mudstones, siltstones, and sandstones. Superficial deposits consist of made ground and granular materials The Mining Remediation Authority (MRA) deems the site to be High Risk for development due to the sites historical mining environment. As well as the risk from former shallow mine workings, a former mineshaft is stated to be on site reference 303517-006 which will need investigating and treating if found.

Scope of Works	Due to the proposed end use of the site, i.e. residential development, it is necessary to ensure that any residual risk from the site's mining past is mitigated and reduced. Probe drill and locate mineshaft 303517-006. If located treatment to be afforded to it. It would therefore be a requirement of the Local Authority and the MRA that the mine workings and former shaft are investigated and treated to prevent any potential surface instability in the future.
Conclusion	136 No. boreholes were drilled at the site to investigate and treat identified underlying shallow mine workings beneath the properties. 72% recorded solid coal, only 28% showing potential workings (soft / broken ground). Shaft 303517-006 was not located on the MRA coordinates and therefore probing on 1m centres was carried out within the site boundary. 80 probe holes were drilled to locate the shaft within the site boundary. The shaft was not located. All grid positions drilled were grouted using a 12:1 PFA: OPC grout. The shafts were back filled with a 10:1 grout.
Recommendations	As with all formerly mined sites, there is always a possibility of unknown mineshafts/bell pits/adits and previously formed crown holes being present on site. We would suggest that there is a watching brief whilst undertaking any excavation/earthworks on site and any changes in fill material or colour are noted and investigated.

Prepared by	Paul Grocott MIMMM FGS	Signed P.Grocott	Date 16/07/2026
Approved by	Sam Palmer MEng GMICE	Signed S.Palmer	Date 16/07/2026

Introduction

Thomas Armstrong Construction (TAC) in their capacity as Principal Contractor, have instructed Van Elle (VE) to carry out the investigation and stabilisation of potential shallow workings beneath a new residential development in Frizlington, Cumbria.

The stabilisation and treatment will be carried out by Drilling and Grouting, an industry wide term, used to describe the processes identified and described below.

The site is currently on the site of a former Care Home which has been demolished, turned over and the crushed material put down as a drilling platform.

The site is located off Griffin Close in Frizlington. The site location is shown below on Figure 1.

Figure 1: Site plan

As part of the pre-construction phase of the redevelopment, a site investigation was commissioned to assess the land and to identify any risk posed by a former mining environment given the areas history.

All works were carried out in line with recommendations given in CIRIA Publication 758D and permits to treat obtained from the Mining Remediation Authority.

Methodology – Drill and Grouting Shallow Workings

A 6m x 6m grid with centre borehole (effectively 4.25m coverage) was superimposed on the proposed layout to cover the area. Treatment boreholes were drilled to an average depth of 25m or 1m below the seam / workings. The treatment plan is shown below on figure 2.

Figure 2: Treatment plan

The works involved the drilling of 101mm/72mm diameter boreholes to access the underlying workings/geology to ascertain if treatment was required.

All works were carried out by a Casagrande C6 rotary percussive drill rigs, using water as the flushing medium to assist in the drilling through hard strata and to reduce the risk of releasing perched mine gases.

The crew set up the rig at the drilling location with the initial lengths of 101mm casing installed on the mast. The driller then commenced drilling and installed the first lengths casing into the ground. With the initial casing lengths installed, the driller split off the drill head from the casing, then raising the drill head to a suitable position for accepting the next length of the casing. This process was repeated until the casing reached rockhead, where it was socketed in to give a tight seal, thus preventing grout loss.

Once the casing was installed to rockhead and sealed, the smaller diameter drill rods (T38) were added to the mast and a 72mm drill bit fitted to drill down to the target seam.

Once the target seam had been reached and an open borehole achieved, the borehole was further cleaned out by moving the rods up and down on the mast, allowing any materials that had spalled into the borehole to be removed.

The entire drill string was then removed, and the borehole deemed complete and ready for grouting.

During the drilling process, accurate logs of depths, loss of flush, geology and any workings encountered were recorded. Logs attached and can be found in Appendix 2.

Grouting works commenced once there were enough holes drilled out within the treatment area to permit and accommodate the batching of a full grout mix with minimal wastage. Logs can be found attached in Appendix 3.

The grout consisted of an PFA / OPC cementitious grout, mixed and injected through an electric 6-ton mixer. Grout was pumped to each borehole through a series of 3" and 2" Grout lines. All boreholes were grouted to surface.

Mineshaft 303517-006

The recorded mineshaft on site (MRA reference 303517-006) was shown to be in the middle of the northern part of the site. TAC marked out the position of the shaft from coordinates provided by the MRA. VE drilled on the best fit position and recorded superficial deposits to 6m below ground level (bgl) and then solid MUDSTONE from 6m to 11m bgl.

A second borehole was drilled 1m away from the first position with the same geological conditions encountered.

I was therefore necessary to undertake a mine shaft probing exercise to determine the existence and / or location of the shaft with the confines of the site and its boundary.

A total of 80 probes holes were drilled on the grid with the shaft not being encountered. It is therefore reasonable to assume that the shaft is not within the immediate area of the MRA best fit position. However, the shaft could be else where on site and a watching brief should be in place during excavations for any anomalous findings.

Summary of Works Carried Out

In total 130 treatment boreholes were drilled to an average depth of 25m below ground level (bgl)

Superficial Deposits (Over burden) was found to consist of some made ground and glacial tills, which in turn was underlain by Mudstones and Coal.

There was evidence of former workings in the form of soft drilling / broken ground, however the majority (72%) showed no evidence with solid coal being recorded.

80 no. probe holes were drilled to locate the recorded mineshaft, with said shaft not being encountered.

80 tons of grout were injected into the works to treat the workings and backfill the solid holes.

Conclusion

Positions drilled recorded some evidence of a former shallow mine working environment.

Of all the boreholes drilled, 28% showed evidence of former shallow mine workings with soft / broken ground being encountered with some loss of flush. Each borehole was grouted and back filled with a 12:1 PFA/OPC grout, and on removal of the casing, boreholes were topped up to surface. Validation boreholes were drilled across the site and held their pressure of 2 bar for 2 minutes showing treatment had been successful.

The recorded shaft reference 303517-006 was not found to be within the location of the MRA best fit position. The shaft may be elsewhere on site, or it may be out with the site boundary. A watching brief should be kept as earthworks are carried out for any change in colour or material, which may be indicative of a mining related anomaly.

Van Elle is satisfied that the risk from former mine workings based on the evidence gleaned form the drilling and grouting exercise is negligible, and that the development can go ahead unhindered.

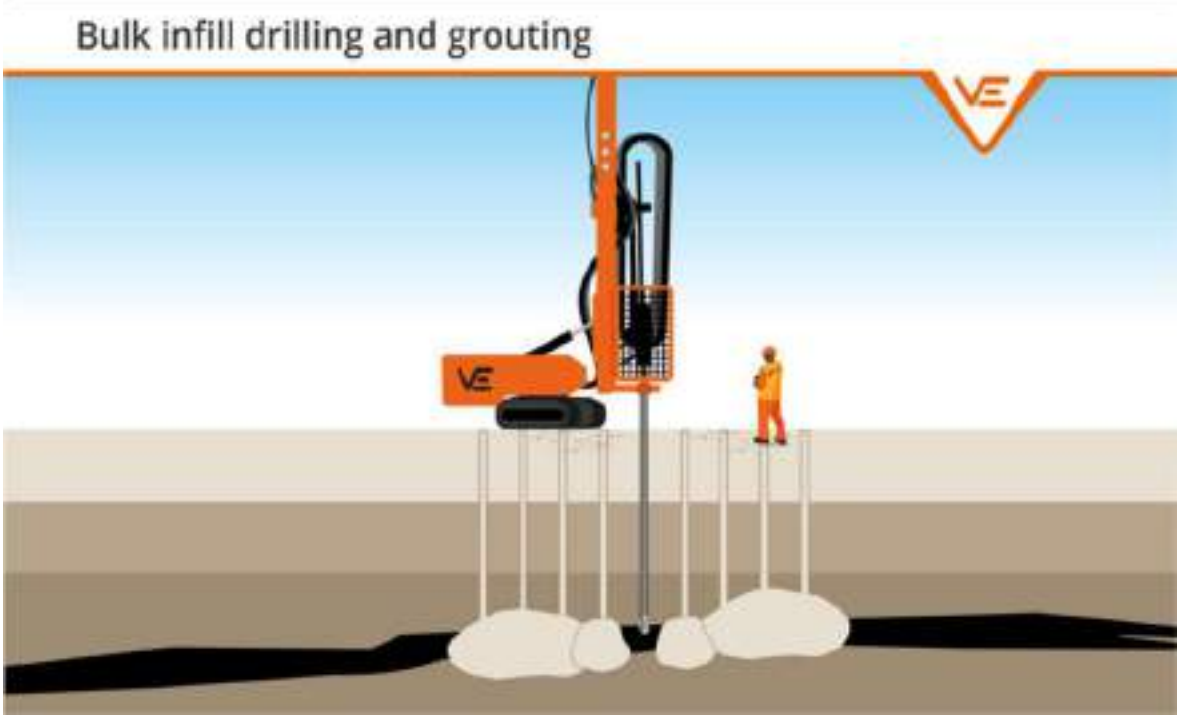
The Mining Remediation Authority Permit can now be closed, and a copy is attached in Appendix 6.

As with all formerly mined sites, there is always a possibility of unknown mineshafts/bell pits/adits and previously formed crown holes being present on site. We would suggest that there is a watching brief whilst undertaking any excavation/earthworks on site and any changes in fill material or colour are noted and investigated.

Appendix 1: Specification

Griffin Close, Frizington

Specification for Consolidation of Former Mine Workings by Drilling and Grouting including Mine Shaft Treatment



Document Name	GS-PR-GRT009 Drilling and Grouting Specification - SP243358 Griffin Close, Frizington
Division	Specialist Piling
Client	Thomas Armstrong (Construction) Limited
Project/Task	Griffin Close, Frizington
Job No. 243358	**Date 27/03/2026**

Revision Status

Initial	Name	Position	Date	Signature
Prepared by	Sam Palmer	Contracts Manager	27/03/26	S.Palmer
Reviewed by	Paul Grocott	Senior Contracts Manager	27/03/26	Paul Grocott

Rev no.	Revised by	Date	Amendments
00	Sam Palmer	27/03/26	FIRST ISSUE
01			
02			
03			

1.0 Introduction and Scope of Works

Thomas Armstrong (Construction) Limited in their capacity as Principal Contractor, has requested Van Elle (VE) prepare a specification to allow the stabilisation and consolidation of underlying Coal seams and associated workings and known mineshaft Ref: 303517-006 within the footprint of a new housing development

The stabilisation of the workings / coal seams will be carried out by Drilling and Grouting, an industry wide term, used to describe the processes identified and described below.
The area to be drilled is shown on the drawing below.

Figure 1: Drill and Grouting Borehole Plan

Also within the scope of works is probing to find the extents of the known mineshaft, suspected to be Ref: 303517-006 (location shown Figure 1 as 'Mineshaft location', found by Geo Environmental Engineering and referenced in 'Supplementary Mining Investigation Report' 06/08/2024) and treatment by pressure grouting in 2m lifts.

1.1 Location and Description

The site is located between Griffin Close and Greenvale Court, Frizington. The site location is shown by the red area in Figure 2.

Figure 2: Site Location (Google Maps, 2026)

1.2 Ground Conditions and Geology

A check of the BGS GeoIndex online resource shows the site to be underlain by Pennine Middle Coal Measures formed of ' Interbedded grey mudstone, siltstone, pale grey sandstone and commonly coal seams, with a bed of mudstone containing marine fossils at the base, and several such marine fossil-bearing mudstones in the upper half of the unit.' A screenshot is shown below as Figure 3. It also shows an 'inferred coal seam' and overlain by superficial deposits of Devensian-Diamicton Till.

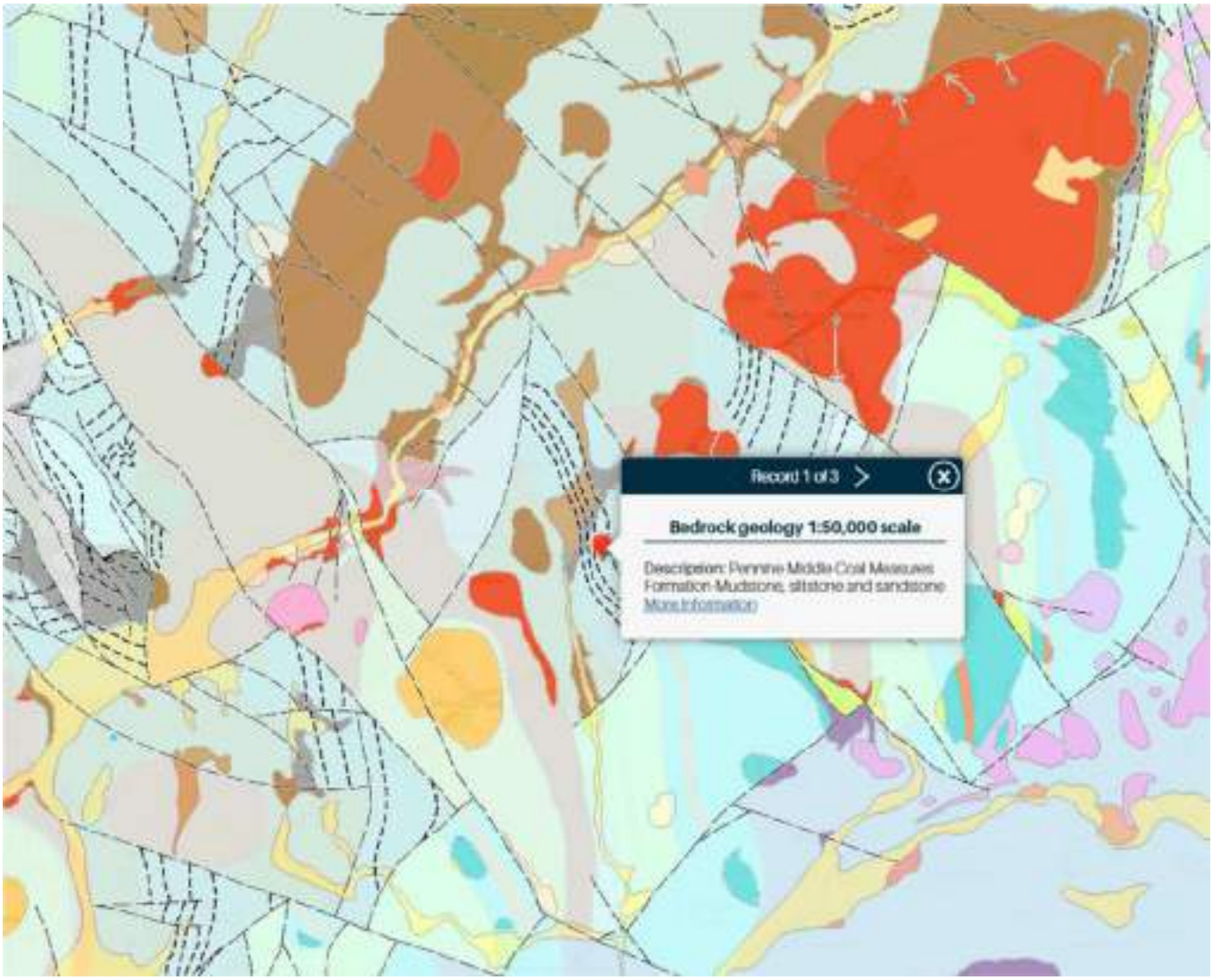


Figure 3: Geological Background

A further check of the Mining Remediation Authority Interactive viewer also revealed that the site is within a former coal mining area. It was therefore recommended that this area be investigated and if found to be showing evidence of workings to be consolidated by drilling and grouting. It can also be seen that the initially perceived position of the suspected mineshaft to be treated is outside of the site boundary. As previously mentioned, this suspected shaft must be further investigated and treated by a suitable scheme of pressure grouting as part of the works. A screenshot is shown below as Figure 4.

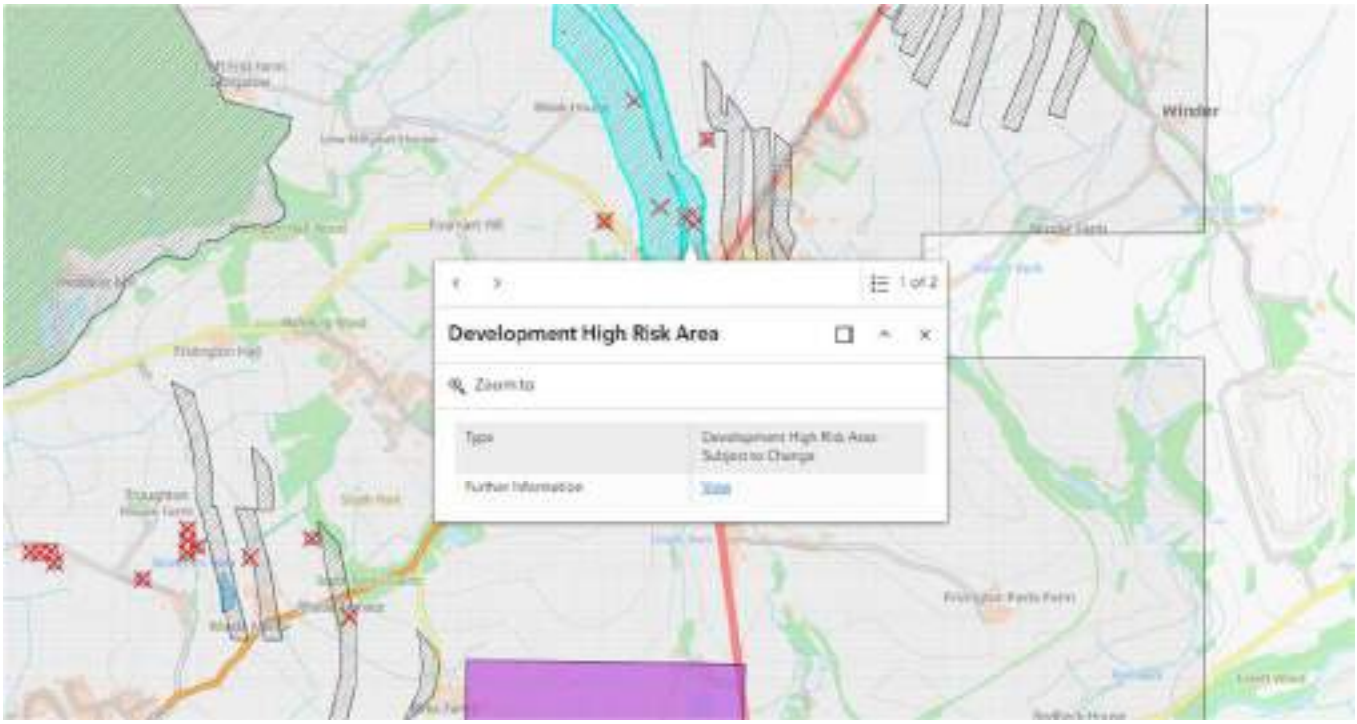


Figure 4: Showing former coal mining area and previously suspected locations of mineshafts.

1.3 Purpose of the Works

Treatment of coal seams / workings is required where less than ten times seam thickness of rock cover exists between the top of the worked seam and the base of the proposed piles/rock head.
This 10T rule is an industry adopted common practice based on information and guidance given within Section 13.5.4 of CIRIA Publication C758D.

1.4 Permissions

1.4.1 Mining Remediation Authority
A permit to treat workings and probe/treat the suspected mineshaft will be obtained from the Mining Remediation Authority. A copy of the permit shall be kept on site by the foreman.

1.4.2 Environment Agency
Any permits required by the EA must be obtained by the Client / Principal Contractor unless otherwise agreed.

1.5 Services
All services must be identified on site and shown to the Foreman and drill crew. All protection, diversion, and reinstatement of any service under CDM fall under the responsibility of the Principal Contractor and permits to work must be issued. Foreman should be briefed by the PC and have regard for the following documents.

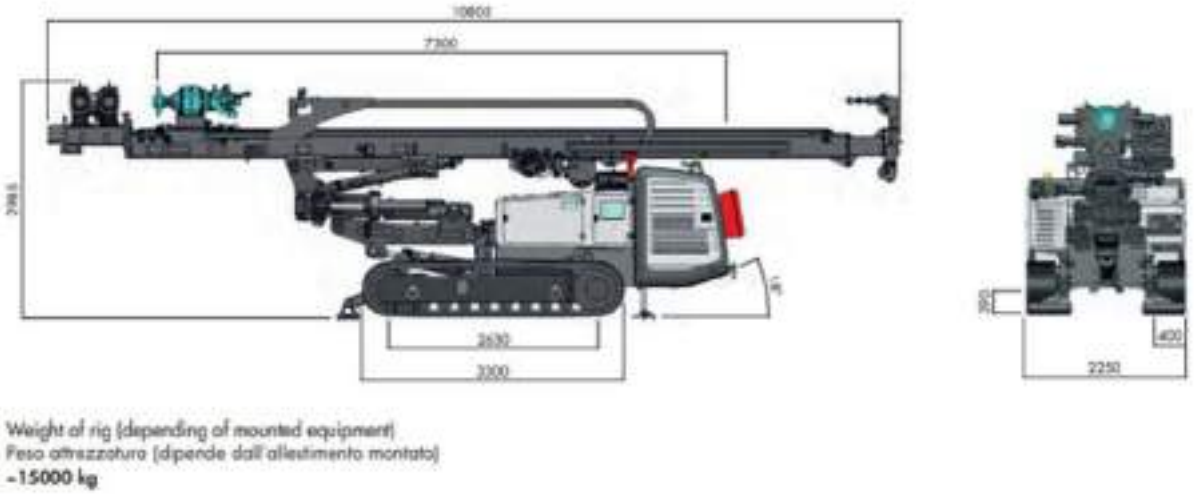
2.0 Specification – Drill and Grouting of former mine workings

2.1 Design

A 6m grid with centre bore (effective 4.25m) has been superimposed on the footprints of the proposed properties, with a 6m spacing on the roads to treat the required area. Treatment boreholes will be drilled to an average depth of 25m bgl or 1m below the Bannock Coal seam. If any primary hole accepts more than 5 tons of grout, then secondary holes will be drilled and treated at 3m spacing.

The BHs will be drilled using a Casagrande C6 XP2 or Soilmec SM15 rotary percussive drilling rig (typical dimensions are shown below in Figure 5) utilising water as the flushing medium. Dust will be controlled using a "dust biscuit".

Casagrande C6 XP Rig



Weight of rig (depending of mounted equipment)
Peso attrezzatura (dipende dall'allestimento montato)
~15000 kg

Soilmec SM15 Rig

Figure 5: Rig Dimensions

The main purpose of the works is to stabilise and treat the underlying workings to prevent void migration to surface. Any fractured rock / voids above the coal seam / workings will benefit from grout infiltration; however, this will not count as ground improvement and is merely a by product of the grouting process.

2.2 Supervision

A full-time supervisor will be on site during the project, who will be responsible for ensuring the works comply with the specification. They will liaise with VE contract management staff daily, along with the client/engineer. The supervisor will be supported by visiting Contracts Supervisors/Managers, with further IT and Engineering support provided from back in the office and if required on site.

2.3 Drilling

Drilling will be carried out using hydraulic driven rotary percussive drill rig using water as the flushing medium. The methodology is described below:

- A segmental 101mm/72mm drill system will be utilised for drilling and this will be advanced to c.25m below ground level using water as the flushing medium.

Figure 6: 101mm steel casing with cutting shoe

- All Operatives will wear 6-point PPE including HI-VIS clothing, Helmet with ear defenders, Boots, Gloves and Glasses (as shown below in figure 7)

Figure 7: PPE to be worn.

- The drill crew will set up the drill rig at the drilling location and install the initial length of casing/drill string onto the mast, checking that the mast is at the correct orientation.

Figure 8: Checking mast is at the correct orientation.

- Once set up, the driller will commence drilling and will install the first length of casing/drill string into the ground. The driller will ensure that the drill mast is angled at the correct inclination before drilling commences.

- With the initial length installed, the driller will split off the drill head from the casing/drill string and will raise the drill head to a position where it is ready to accept the next length of casing/drill string.

- The driller will open the safety gates, and the 2nd man will place the next 2.0m section of casing/drill string into position on the mast. Once the casing/drill rod is secured on the drill head, the 2nd man will vacate the area, and the driller will close the gates and continue drilling.

- The newly installed casing/drill rod will then be advanced accordingly, and this process will then repeat itself until the required depth is reached. Where the ground conditions permit, casing will be driven to and socketed into rock to create a tight seal. The inner drill rods will then be advanced on their own to achieve the required depth of borehole.

- On completion of drilling, the drill string will be removed, and the hole will be ready for grouting. If required, a plastic pipe will be installed through the overburden material to prevent collapse following the removal of the casing.

- The crew will then move to the next position, and the drilling process will be repeated. A series of holes will be drilled across the grid prior to the grouting works commencing to reduce grout wastage.

The sequencing of all drilling and grouting works will be in accordance with the works specification. Where necessary, the use of angled drill holes may be permitted to allow the crew to treat awkward grid positions from a safe location.

2.3.1 Primary Grid

A primary grid of 6m with centre bore (effective 4.25m) will be drilled with boreholes extending to average depth of 25m bgl or 1m below the seam, starting at the seam's deepest point if practical.

2.3.2 Secondary and Tertiary Grids
Should grout takes exceed 5T in any borehole, a secondary grid will be drilled around that area of 3m spacing. Should any secondary bore take more than 3 tonnes then a 1.5m grid will be drilled in the area surrounding the secondary borehole. Any voids encountered will also be flagged for potential secondary / tertiary boreholes.

2.3.3 Perimeter
Due to the suspected dip in the workings, the need for a perimeter curtain wall of grouting will be monitored during the works.

2.3.4 Records
Full records shall be maintained during the works, showing job name and location, date, plant in use and crew members, hole reference numbers, depths and inclinations of boreholes, depth to each major change in stratum, description noting where stratum is broken, details of any voids or suspected workings, any loss of flush, daily and cumulative numbers and depths drilled/cased.

2.3.5 Probe Drilling and Drilling for Mineshaft Treatment
As previously mentioned, prior to any treatment of the suspected mine shaft, prob drilling shall be carried out in a 1m grid to 10m depth in order to first confirm that the shaft is present and secondly to ascertain its extents. The methodology for such probe drilling will be the same as that outlined in 2.3.

Once the probing has been completed and the extents of the shaft are known, treatment will be carried out as follows:

- Prior to mobilisation the Main Contractor needs to clear and level an area of approximately 16m x 20m
- Shaft frame to be installed (12m long) across the mineshaft
- Working Platform Boards to be added to the shaft frame to make a working platform
- Operatives to wear full body harnesses secured to a point outside the working area
- Rig to be tracked onto the shaft frame spanning the mineshaft
- A segmental 101mm/72mm drill system will be utilised for drilling and this will be advanced to 5m beyond the base of the shaft using water flush.
- The drill crew will setup the drill rig at the drilling location with the initial lengths of casing installed on the mast.
- Once setup, the driller will commence drilling and will install the first lengths casing into the shaft. The driller will ensure that the drill mast is angled at the correct inclination before drilling commences.
- The shaft will then be drilled down to the base plus 5m (to ensure rockhead and not staging) Casing will be advanced in 2m sections as the drilling advances
- On completion of drilling, the drill string will be removed, and the hole will be ready for grouting.
- The grout mix will be 10 parts PFA to 1 part OPC.
- The Grouting will be carried out under pressure (2 bar) through the casing down into the shaft
- Once the pressure gauge atop of the casing records 2 bar of pressure and is held for 2 minutes, grouting will cease.
- The casing will then be pulled up 2m and the process repeated up to surface
- Once the shaft has been fully grouted up to surface a period of 12 hours must be allowed to pass to allow the grout to start to cure
- After the 12-hour period, a second treatment hole will be drilled using the same method as above
- Once the second treatment hole has been completed, a further 12 hours will need to pass
- A final test hole will then be drilled to validate the works
- The rig can then be removed, and the shaft frame dismantled.

Figure 9: Example of Drill Rig on Shaft Safety Frame

2.3.6 Unknown Mineshafts

Should unknown mineshafts be encountered it will be necessary to probe drill the shaft to ascertain its diameter. The PC should then record the position via GPS and VE will inform the Mining Remediation Authority as the permit holder. The MRA will amend the permit to allow treatment. The methodology followed will be the same as stated in 2.3.5 for the planned mineshaft probing/treatment.

2.3.7 Mining Anomalies

During the works VE may encounter anomalies related to past mining activities. These could include mineshafts (see above), mining adits (tunnels from surface into mine workings), crown holes (depressions at surface caused by shallow workings collapse), bell pits (small shallow primitive pit), wash out features (coal seams removed by erosion from water) and former opencast excavations. Should VE encounter an anomaly, they will carry out exploratory drilling to ascertain the size, shape and depth of the anomaly.
Once this information is at hand, consultation shall take place with the Supervising Engineer, and if required the Mining Remediation Authority, and a treatment strategy drawn up.

2.4 Grouting

Once several boreholes have been drilled, cased, and cleaned out they will be ready to receive grout through the steel casing installed. The following methodology should be used:

- Grouting works will commence once there are enough holes drilled out within the treatment area that is likely to permit and accommodate the batching of a full grout mix with minimal wastage. The number of holes required for this will be vary accordingly with the conditions identified on site.

- The grouting works will be undertaken utilising a 3/6T Electric Grout mixer together with an electric MAT Pump. Grout will be pumped to the grouting location through a series of 3” and 2” Grout lines.

Figure 10: Grout mixer being loading by telehandler.

- The standard grout mix to be utilised for the works is 12:1 PFA:OPC (10:1 PFA:OPC for shaft treatment). PFA will be delivered to site in bulk loads and the cement will be delivered bagged and in pallets. Where grout takes are high, the grout mix / drill grid may be altered by the Contracts Team in line with the conditions encountered.

- The PFA will be introduced to the mixer utilising a Telehandler with a 1-ton capacity bucket, and the OPC will be lifted on to the stand using the fork attachment to minimise the manual handling requirements. Should any further materials such as pea gravel or sand be required, these will be delivered in bulk loads/bags as required and unloaded as above.

- The grout plant operator will ensure that the correct grout mix is adhered to throughout.

- Once mixed, grout will be pumped to the drilling location via the grout line. Grout will be placed via tremie to the base of the boreholes and pumping will continue until the hole is full.

- Care should be taken when grouting boreholes along the perimeter of the site due to surrounding structures. Surface runoff must be tightly controlled and kept to an absolute minimum. The PC will provide control measures as required.

- When carrying out the grouting works, set of Cubes are to be taken from separate batches of grout, and tested at 7 and 28 days. On site testing such as bleed and flow testing will also be carried out.

- This above process will be monitored by the contracts team who will review the works and instruct any changes to the grout mix or drill pattern as necessary. Any variation to the planned works must be directed to VE Contracts Team for approval prior to commencement.

2.4.1 Materials & Mix

Grout materials shall consist of Pulverised Fuel Ash and Ordinary Portland Cement, mixed at a ratio of 12:1 PFA:OPC for the drilling and grouting scheme and 10:1 PFA:OPC for the mine shaft treatment with a water solids ratio of no more than 40%. No thixotropic or thickening agents will be added during agitation. All materials shall comply with relevant British Standards.
If open voids are encountered the introduction of pea gravel shall be used within the grout mix as per CIRIA 758D guidance document.

2.4.2 Equipment
Grout will be batched on site using a 3/6T Electric Grout mixer together with an electric MAT Pump. All plant shall be certified safe and maintained properly throughout the operation.

2.4.3 Water
A source of water will be provided to Van Elle from a hydrant with a standpipe.

2.4.5 Grout Testing
4 Grout cubes shall be taken each week of grouting, unless grout takes exceed those outlined in Table 1 and then as per the values stated. These will then be tested 7- and 28-day intervals to achieve a minimum strength of 1N/mm2 after 28 days.

The foreman shall ensure that mixes are tested regularly for flow and bleed using a Colcrete type flowmeter and graduated beaker respectively. Flows should be with the range of 300-600mm and bleed should be no more than 2% by volume after 2 hours.

Table 1: Grout cube frequency thresholds

Average Grout Take (Tonnes) Daily	No. of cubes	Flow and Bleed Testing
6-24 (4 mixes)	1 set per week	Once a day
24-48 (8 mixes)	1 set every other day	Twice a day
48-60 plus (12+ mixes)	1 set per day	Three times a day

2.5 Validation and Testing of Grouting Works

2.5.1 Test holes
Test holes will be drilled at the site to validate the works. The position of the test holes will be chosen to correspond with the areas of the site where the highest grout takes are recorded. The position of the test holes will be indicated on the borehole layout plan. All test holes will be pressurised to correspond with the amount of overburden (i.e., 10kN/m of overburden) for 2 minutes. The test shall be considered a pass where not more than 1t can be injected, and the pressure drops by no more than 10% for 2 minutes. Drilling and grouting records of test holes will be produced.

2.5.2 Gas testing
A gas monitor shall be used throughout the consolidation program to monitor for the presence of four harmful gases, carbon monoxide (CO), carbon dioxide (CO_2), hydrogen sulphide (H_2S) and Methane (CH_4). Levels of airborne Oxygen (O_2) will also be monitored. The gas alarms have audio and visual alarms should concentrations of any of these gases reach pre-determined trigger levels (see Section 4.4). Records of the gas monitoring shall be kept.

2.5.3 Validation Report

A validation report will be produced post works with as built drill and grout drawings to satisfy the Mining Remediation Authority, the closure form will also be filled in as part of this report.

4.0 Method of Work and Control Measures

4.1 Prior to work commencing

The Main Contractor / Client will be responsible for

- Carrying out site-specific inductions to Van Elle employees

- In accordance with HSE guidance HSG47, the location, identification and marking of underground services within the working area and taking the necessary precautions to protect and avoid them. (e.g., isolation, diversion, shrouding etc.).
- Providing a suitably maintained working area.
- Advising on known or likely ground contamination.
- Signing the Permit to Work to confirm the above has been completed.
- Obtaining appropriate permissions/licenses from the local water authority to extract water using a standpipe.
- Ensuring site security is suitable to protect all plant and equipment.

Member of the VE Contracts team shall ensure:

- A visit to site is carried out prior to work commencing & a copy of visit report to be provided to site.
  - Site specific hazards are identified, and suitable control measures identified.
  - Presence of cracks on any structure within 10m shall be recorded on site visit report.
  - Working Area requirements are communicated to the client/main contractor.
- That crew deployed to site have necessary competencies.

Foreman	SMSTS or SSSTS; NVQ Drilling Operations
Banksman	CSCS / NPORS
Tele handler Driver	CPCS / NPORS Telescopic handler
Grouting operative	In-house competence and CSCS as a minimum

The Foreman shall:

- Walk the work area & confirm that all hazards are adequately controlled prior to work commencing.
- Ensure that client/main contractor has provided a suitable working area that is adequately maintained to provide a stable base for the rig.
- Check that the client / main contractor has carried out checks / protection for underground services.
- Ensure that sufficient PPE provisions are available & that it is worn in accordance with Van Elle & Main Contractor requirements. Mandatory PPE is safety helmet, safety footwear, light eye protection and & hi-viz clothing. Other PPE such as hearing protection and FFP3 dust masks, in accordance with risk assessment. ALL PPE MUST BE CLEAN AND REFLECTIVE BANDS FREE OF DIRT. Should PPE be deemed unsuitable replacements will be ordered immediately.
- Check that the drilling rig, lifting accessories and other plant have in-date certification before use.
- Ensure that daily inspections are carried out on all plant and equipment & a record of inspection completed. Any problems/defects must be reported to the Contracts Manager immediately. All machinery shall only be operated by trained & competent persons.
- Ensure that the Permit to Work is signed prior to work commencing, and thereafter on a WEEKLY basis.
- Brief all operatives on the contents of the method statement and risk assessment and sign to confirm briefing attendance.

4.2 Mobilisation

All vehicles will be supervised by a Banksman and enter site as per the designated route agreed at pre-start meeting.

The foreman shall

- Assess the area designated for unloading, taking into consideration surrounding buildings, other contractors, pedestrians, traffic routes etc. Safety barriers may need to be used to segregate our work from other activities and/or pedestrians.
- Make sure that all loads are checked for security before unloading commences. In the event of a load having moved or become unstable in some way during transport, unloading will not continue until a safe means of unloading has been determined. Unstable loads should not be allowed to tip or fall to the ground unless there are no other safe options & only after advice has been sought from the Line Manager
- Agree a sequence of unloading with the delivery driver. The Banksman will take control of the unloading process & directing the HIAB operator.

Where access is required onto the back of the trailer to sling loads, A secured ladder or step system must be used. edge protection shall be fitted to trailers to prevent injury by falls from height. This must consist of two restraints – a top rail at approx. 950mm and a mid rail. Clear walkways must be present to ensure that a person can access and move around the trailer bed safely whilst slinging the load.

On the trailer bed, LOOK where you're going - DO NOT walk backwards! DO NOT RUSH! DO NOT USE A MOBILE PHONE!

Avoid unloading rigs on inclines. The Banksman will position himself forward of the loading process so that all rig movements and the rig operator are clearly visible. NO ONE must be allowed to stand at the side or behind the vehicle being unloaded. All instructions to the rig operator must come from a single Banksman.

4.3 Site set up

The crew shall always maintain good housekeeping to reduce slip/trip hazards.

- All cracks on any structures within 10 m of the working area must be marked. Cracks must be monitored for movement a minimum of twice per day. Should any movement be recorded, stop work and telephone your manager for instructions.
- The foreman will set up an exclusion zone to prevent third parties entering our work area.
- Ply sheeting and visqueen will be used where necessary to protect property and surfaces.
- Avoid running water hoses through public areas. If this is unavoidable, i.e., when the supply is in the road or footpath, use hose ramps to reduce the risk of slips/trips. Signs, cones/barriers must also be in place.
- Compressed air, water, and grout hoses, will be kept tidy and positioned away from walkways etc.
- Drips trays will be placed beneath plant as required.
- The grout station shall be set up on firm level ground. Use visqueen sheeting and sandbags to provide bunding where necessary. In windy conditions, ash should be protected or dampened to prevent dust clouds.

4.4 Hazardous Gas

The following control measures are required for reducing risk from hazardous gas:

- Air flush used in all positions.
- Operatives to wear personal gas monitors.
- Recording of daily gas readings to be carried out and assessed.

The following records will be taken & recorded.

Gas monitor type	Position	Frequency of test
CO, CO_2, CH_4, H_2S, O2, Combined	Rig / Personal	Constant

The use of water as the flushing medium within the site boundary will result in the risk of mine gas being LOW (as shown on Table 5.5.2.1 of the Mining Remediation Authority Guidance document), as there is no history of gases or any occupied (at any time) properties within the risk area.

All work will stop if gas concentrations approach or exceed the concentrations listed below:

Gas	Trigger Level	Action Level
Methane	≥0.1% v/v	≥1% v/v (20% LEL)
Carbon Dioxide	≥0.5% v/v (LTEL)	≥1.5% v/v (STEL)
Oxygen	≤19% v/v	≤18% v/v
Carbon Monoxide	≥30 ppm (LTEL)	≥100ppm (50% STEL)
Hydrogen Sulphide	≥1ppm (20% LTEL)	≥5ppm (50%STEL)

4.5 Drilling operations

- Specific PPE for drilling is hearing protection within 5 metres of rig, gloves, & FFP3 respiratory protection where airborne dust is present, and the user should be face fit tested.
- Rigs will be set up, operated & moved around site in accordance with manufacturer's instructions by competent operatives.
- Two persons must attend all times when operating or moving the rig.
- Interlock guards fitted to rigs must remain in place throughout the drilling process**. Where drilling cannot be completed with guarding in place, the Foreman will stop work and seek further instruction from the Contracts Manager. Any instructions must be recorded & briefed to the crew.**
- Compressors shall be set on firm level ground with the handbrake applied / wheels chocked. Whipchecks must be used on all compressed air connections. Compressors must be set up to deliver a maximum pressure required for the task before use). This pressure is not to be exceeded unless a higher pressure is recommended by a tool/equipment manufacturer. If due to the length of air lines a pressure drop is anticipated, larger capacity compressors should be used rather than increasing operating pressures.
- Store all drill rods and tools in a safe place close to the front of the rig to minimise the carrying distance. Keep the area around the rig will be kept clear of excess arisings to reduce trip hazards.
- Position hands away from the bottom of the rods when lifting into position to prevent trapping of hands.
- Isolate the compressed air, water, or grout flow before adding / removing drill rods.
- Dust suppression to be used. (Shrouding of guard with hessian, water spray etc.) **FFP3** Dust masks will be worn by operatives where airborne dust is present and the operative must be face fit tested.
- Care should be taken when clearing lines of water to prevent freezing.
- Where drilling with water or grout, PC must ensure that measures such as digging channels, sumps, straw bunding or Siltbuster® are used to protect watercourses. **All works must stop if silty water is entering the watercourse.**

4.6 Grouting

- Mixer operator will be responsible for the mixing and pumping of grout to the correct ratio & consistency.
- Specific PPE for grouting is goggles, hearing protection, long-sleeve overalls, gauntlets & respiratory protection with minimum FFP3 protection.
- Do not stack cement pallets more than 2 full pallets high. Protect cement from rain using polythene (visqueen) sheets secured so that the wind cannot dislodge sheeting. Safe access for the telehandler must be taken into consideration.
- Stack cement so that the mixer operator does not have to bend or stretch to lift cement bags. Bags should ideally be between waist and chest height.
- Empty cement bags must be disposed of following specific site instructions.

- PF Ash will be added by a Telehandler with a bucket. The driver will ensure that the area is clear of obstructions & that his visibility is not impaired. The Telehandler should be a safe distance from mixer when mixer operator is adding cement.
- PF Ash dust will be controlled by dampening down and heras fencing with demolition netting attached if required. Should it be noted that dampening down is being ineffective then plastic sheeting shall be applied at the end of the day. To keep dust down stockpiles of ash will be kept at a minimum and ordering will be on a daily basis.
- When a borehole is full, pumping must be stopped and hose moved to next borehole, grout hose must be moved using safe handling techniques.
- When washing out, ensure all grout in mixer has been discharged down a borehole or to a specified place on site. If using compressed air, keep pressure to a minimum and secure the end of the hose to prevent it whipping.
- **If a blockage occurs, it** must be carefully dealt with due to the build-up of back pressure. Th**e pump operator must stop pumping immediately.** Instruct personnel to move to a safe position (minimum 10 metres) before opening any joints.
- The pipeline must be treated as being always being pressurized**.** Goggles must be worn by operatives dealing with blockages.
- To release the back pressure a pressure release valve should be fitted between the pump and first grout hose, allowing back pressure to be released before disconnecting any hoses.

When access is needed inside the grout mixer, for example, to clear blockages,

- Lone working is not permissible; Pump as much grout out as possible until the obstruction is visible.
- Isolate the air supply to the mixer by disconnecting the airline from the compressor.
- Remove the guard. Use a secured ladder/steps to gain access.
- Once the obstruction is removed, replace & lock off the guard before reconnecting the air supply to the mixer.

4.7 Telehandlers

- These will be driven by competent operators (e.g., CPCS, AITT, NPORS, LANTRA).
- A banksman will be used in accordance with site rules, when reversing or when visibility is restricted.
- The operator will know the dimensions of the machine in operating & travel mode – relative to constraints of site, making sure you there is good all-round visibility.
- The machine will be operated in accordance with Manufacturers safety instructions regarding its safe working limits. The operator will always wear the seat belt.
- Make sure forks are correctly positioned / adjusted to compensate for the size/shape of the load.
- All movements of mobile plant to be made in a smooth controlled manner. Make sure the load is always stable and remains under control.
- The immediate area around the machine operations shall be kept clear of personnel. Operatives on the ground working with the telehandler must always stand in a position of safety clear of the load and machine in case the load becomes unstable.

4.8 Security

Foreman will make sure that adequate measures are taken to prevent the theft or unauthorised use of equipment/materials. This will include locking away all tools in the van or lock up, removing keys from plant & equipment where fitted, when not in use and left unattended & using cab guards if fitted.

4.9 Leaving site

- The work area shall be left in a clean & tidy manner.
- The Foreman will make sure that the rig is configured for transport in accordance with the manufacturer's instructions, making sure all securing bolts & pins are correctly fitted and that the rig is safe to transport.
- All excessive spoil must be cleaned off the rig and associated plant.

- The Foreman shall make sure his Foreman's Completion Form is signed off by the main contractor before leaving site.

5.0 Communication and liaison

(Other contractors, Local Authority, Highways Authority, Statutory Bodies)

- Van Elle site operations will be under the full-time supervision of a competent and experienced Foreman who has completed Supervisor Training (NVQ3 / SMSTS / SSSTS). The Site Foreman for this project will be identified in due course upon specific request.
- The Foreman will be responsible for daily routine operation; preparation and submission of all daily records; receiving and acting upon formal site instructions; and reporting site conditions which may require variations to this method statement.
- The Foreman will report directly to the Contracts Manager / Director on a regular routine basis or on specific instances when necessary.
- The Divisional Director responsible for this project is Dave Warner
- Site safety tours are carried out at regular intervals by our Safety Dept and Contract Management personnel.

Emergency plans

(Contact phone number, fire plans, accident/injury plan, defect/sub-standard condition reporting.

- Main contractor will induct all site operatives into the site-specific emergency arrangements.
- Van Elle crews are equipped with several 2kg dry powder extinguishers and first aid provisions to complement the main contractor's arrangements.
- Emergency First Aid & Fire Awareness training has been completed by the crew.
- Spill kits will be provided, and our crews instructed in their use.
- All accidents & near misses must be reported directly to the Van Elle HSQE Dept. on 01773 304065 and the Main contractor's site manager.

SERVICE STRIKES

Electric - Switch machine off & evacuate all personnel. Do not attempt to disengage the cable from the casing/rods. Do not touch exposed cables.

Gas - Switch all machinery off & evacuate all personnel to safe distance. Extinguish all naked flames. No smoking. Gas emergency number is 0800 111 999.

SPILLS

Eliminate sources of ignition. Contain spillage in booms or sand or absorbents. All contaminated items & oil must be returned to your office/depot & be disposed of at an authorised disposal facility.

Mechanical / structural failure that puts persons at risk.

In the event of a failure, stop all operations and if possible, bring the machine to a safe condition. Isolate the machine (e.g., key out) and if possible, set up an exclusion zone.

Hazardous Gas

All work will stop if the gas alarms sound. All equipment will be switched off and the immediate area evacuated. Smoking will not be permitted. Allow area to ventilate before rechecking gas readings. Backfill borehole when safe to do so.

Appendix 2:
Drillers Logs

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet: 1 of	
Rig / Method: CB	Crew: J Mitchinson, D Simpson		Date: 19/5/26
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description
H2	0.00 - 3.50	Overburden
	3.50 - 3.80	Coal
	3.80 - 5.70	Overburden
	5.70 - 15.00	Mudstone
	15.00 - 16.00	Coal
	16.00 - 25.00	Mudstone / Sandstone
	4m Cored	
H4	0.00 - 3.50	Overburden
	3.50 - 3.80	Coal
	3.80 - 5.30	Overburden
	5.30 - 15.00	Mudstone
	15.00 - 16.00	Coal
	16.00 - 25.00	Mudstone / Sandstone
	4m Cored	
H6	0.00 - 3.60	Overburden
	3.60 - 3.90	Coal
	3.90 - 5.30	~~Mudstone~~ Overburden
	5.30 - 15.20	Mudstone
	15.20 - 16.20	Coal
	16.20 - 25.00	Mudstone / Sandstone
	4m Cored	

BH	Depth (m)	Strata Description
G3	0.00 - 2.40	Overburden
	2.40 - 2.60	Coal
	2.60 - 5.40	Overburden
	5.40 - 15.00	Mudstone
	15.00 - 16.00	Coal
	16.00 - 25.00	Mudstone / Sandstone
	5m Cored	
I7	0.00 - 6.00	Overburden
	6.00 - 15.30	Mudstone / Sandstone
	15.30 - 16.30	Coal
	16.30 - 25.00	Mudstone / Sandstone
	6m Cored	
I5	0.00 - 3.90	Overburden
	3.90 - 5.40	Broken Ground
	5.40 - 25.00	Solid N/R
	4m Cored	

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	6	150.00	79.00	
Previous	/	/	/	Gas Detected: Yes / (No)
To Date	6	150.00	79.00	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D Brown
Signed:
Date: 19/5/26

Clients Name: S. WESTON
Clients Position:
Signature:
Date:

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet: 2 of 2	
Rig / Method: CG	Crew: I Mitchinson, D. Simpson		Date: 19/5/22
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
I3	0m - 4m	Overburden			
	4m - 4.3m	Coal			
	4.3m - 6m	Overburden			
	6m - 15m	Mudstone			
	15m - 16m	Coal			
	16m - 25m	Mudstone/Sandstone			
	6m Cased				
G5	0m - 3.6m	Overburden			
	3.6m - 5.4m	Broken Ground			
	5.4m - 25.0m	Solid N/R			
	4m Cased				
G7	0m - 3.6m	Overburden			
	3.6m - 5.4m	Broken Ground			
	5.4m - 25m	Solid N/R			
	3m Cased				

Totals	BH	Drill (m)	Case (m)	Gas Monitored: Yes / No
Today	3	75m	12m	
Previous	6	150m	29m	Gas Detected: Yes / No
To Date	9	225.0m	42m	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D Brooker
Signed:
Date: 19/5/22

Clients Name: S. NESTON
Clients Position:
Signature:
Date:

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet: 1	of 2
Rig / Method: CG	Crew: J. Mitchinson, D. Simpson		Date: 20/5/26
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
F2	Conc. 5.00	Overburden	F5	Conc. 2.20	Overburden
	5.00 - 14.00	Mudstone/Sandstone		2.20 - 3.20	Coal
	14.00 - 15.00	Coal		3.20 - 14.00	Mudstone/Sandstone
	15.00 - 25.00	Mudstone/Sandstone		14.00 - 15.00	Coal
	5m Core			15.00 - 25.00	Mudstone/Sandstone
F3	Conc. 4.80	Overburden		3m Core	
	4.80 - 13.80	Mudstone/Sandstone	J2	Conc. - 3.20	Overburden
	13.80 - 15.00	Coal		3.20 - 4.20	Coal
	15.00 - 25.00	Mudstone/Sandstone		4.20 - 14.80	Mudstone/Sandstone
	5m Core			14.80 - 15.80	Coal
F4	Conc. 2.20	Overburden		15.80 - 17.10	Mudstone
	2.20 - 2.40	Coal		17.10 - 18.60	Coal
	2.40 - 3.00	Overburden		18.60 - 25.00	Mudstone/Sandstone
	3.00 - 12.00	Mudstone/Sandstone		4m Core	
	12.00 - 13.00	Coal			
	13.00 - 25.00	Mudstone/Sandstone			
	3m Core				

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	5	125.00	20.00	
Previous	9	225.00	42.00	Gas Detected: Yes (No)
To Date	14	350.00	62.00	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Blackett
Signed:
Date: 20/5/26

Clients Name: S. Weston
Clients Position:
Signature:
Date:

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Grid 2 Close		Sheet: 2 of 2	
Rig / Method: C6	Crew: I Mathison D. Simpson		Date: 20/5/26
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description
J4	0m 3m	Overburden
	3m 4m	Coal
	4m 14m	Mudstone/Sandstone
	14m 15m	Coal
	15m – 17m	Mudstone
	17m 17.50	Coal
	17.50 25m	Mudstone/Sandstone
	3m Cored	
J6	0m 3m	Overburden
	3m 4m	Coal
	4m 15.10	Mudstone/Sandstone
	15.10 16.10	Coal
	16.10 17m	Mudstone
	17.00 17.50	Coal
	17.50 25m	Mudstone/Sandstone
	3m Cored	

BH	Depth (m)	Strata Description
B13	0m 6.00	Overburden
	6m 8m	Mudstone
	8m 9.00	Coal
	9m 17.80	Mudstone/Sandstone
	17.80 18.40	Coal
	18.80 25m	Mudstone/Sandstone
	6m Cored	
B15	0m 6m	Overburden
	6m 8m	Mudstone
	8m 9m	Coal
	9m 18m	Mudstone/Sandstone
	18m 19.60	Coal
	19.6 25m	Mudst
	6m Cored	

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	4	100.00	18.00	
Previous	14	350.00	62.00	Gas Detected: Yes (No)
To Date	18	450.00	80.00	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D Brannigan
Signed:
Date: 20/5/26

Clients Name: S. Weston
Clients Position:
Signature:
Date:

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet: 1 of 2	
Rig / Method: C6	Crew: T. Mikulionis, D. Simpson		Date: 20/5/26
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
B17	0.00 - 6.00	Overburden	A16	0.00 - 6.00	Overburden
	6.00 - 8.00	Mudstone		6.00 - 8.20	Mudstone
	8.00 - 9.00	Coal		8.20 - 9.20	Coal
	9.00 - 18.00	Mudstone/Sandstone		9.20 - 18.20	Mudstone/Sandstone
	18.00 - 19.10	Coal		18.20 - 19.20	Coal
	19.10 - 25.00	Mudstone		19.20 - 25.00	Mudstone
	6m Core			6m Core	
A12	0.00 - 6.00	Overburden	C12	0.00 - 6.00	Overburden
	6.00 - 8.00	Mudstone		6.00 - 7.00	Mudstone
	8.00 - 9.00	Coal		7.00 - 8.00	Coal
	9.00 - 18.10	Mudstone/Sandst		8.00 - 16.00	Mudstone
	18.10 - 19.10	Coal		16.00 - 17.00	Coal
	19.10 - 25.00	Mudstone		17.00 - 19.00	Mudstone
	6m Core			19.00 - 19.50	Coal
A14	0.00 - 6.00	Overburden		19.50 - 25.00	Mudstone
	6.00 - 8.10	Mudstone		6m	Core
	8.10 - 9.10	Coal			
	9.10 - 18.10	Mudstone/Sandstone			
	18.10 - 19.10	Coal			
	19.10 - 25.00	Mudstone			
	6m Core				

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	5	125.00	30.00	
Previous	18	450.00	80.00	Gas Detected: Yes / (No)
To Date	23	575.00	110.00	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Brookes
Signed:
Date: 21/5/26

Clients Name: S. Weston
Clients Position: S.M
Signature:
Date: 22/05/26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet:	of
Rig / Method: C6	Crew: I Mitchinson, D. Simpson	Date: 21/5/26	
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
C14	0m - 6.0m	OVERBURDEN	E11	0m - 6.5m	OVERBURDEN
	6.0m - 6.5m	MUDSTONE		6.5m - 7.0m	MUDSTONE
	6.5m - 7.5m	COAL		7m - 8m	COAL
	7.5m - 16m	MUDSTONE		8m - 17m	MUDSTONE
	16m - 17m	COAL		17m - 18m	COAL
	17m - 19m	MUDSTONE		18m - 20m	MUDSTONE
	19m - 19.5m	COAL		20m - 20.5m	COAL
	19.5m - 25m	MUDSTONE		20.5m - 25m	MUDSTONE
	6m CASED			7m CASED	
C16	0m - 6.0m	OVERBURDEN	E13	0m - 7m	OVERBURDEN
	6m - 6.5m	MUDSTONE		7m - 7.5m	MUDSTONE
	6.5m - 7.5m	COAL		7.5m - 8.5m	COAL
	7.5m - 16m	MUDSTONE		8.5m - 17m	MUDSTONE
	16m - 17m	COAL		17m - 18m	COAL
	17m - 19.5m	MUDSTONE		18m - 20m	MUDSTONE
	19.5m - 20m	COAL		20m - 20.5m	COAL
	20m - 25m	MUDSTONE		20.5m - 25m	MUDSTONE
	6m CASED			7m CASED	

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	4	100.0m	26m	
Previous	23	575.0m	110.00	Gas Detected: Yes / (No)
To Date	27	675.0m		

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Blaskos

Signed:

Date: 21/5/26

Clients Name: S. WESTON

Clients Position: S.M

Signature:

Date: 22-05-26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet:	of
Rig / Method: CG	Crew: T. Mukabisi, D. Simpson		Date: 22/5/26
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description
E15	0.00 - 6.50	Overburden
	6.50 - 7.00	Mudstone
	7.00 - 8.00	Coal
	8.00 - 19.00	Mudstone / Sandstone
	19.00 - 20.00	Coal
	20.00 - 25.00	Mudstone
	7m Cased	
E17	0.00 - 6.00	Overburden
	6.00 - 9.00	Mudstone
	9.00 - 10.00	Coal
	10.00 - 19.00	Mudstone / Sandstone
	19.00 - 20.00	Coal
	20.00 - 25.00	Mudstone
	6m Cased	
F12	0.00 - 6.00	Overburden
	6.00 - 7.00	Mudstone
	7.00 - 8.00	Coal
	8.00 - 19.00	Mudstone
	19.00 - 20.00	Coal
	20.00 - 25.00	Mudstone
	6m Cased	
F14	0.00 - 6.00	Overburden
	6.00 - 7.00	Mudstone
	7.00 - 8.00	Coal
	8.00 - 16.50	Mudstone
	16.50 - 17.00	Coal
	17.00 - 19.00	Mudstone
	19.00 - 20.00	Coal
	20.00 - 25.00	Mudstone
	6m Cased	
F16	0.00 - 6.50	Overburden
	6.50 - 9.50	Mudstone
	9.50 - 10.50	Coal
	10.50 - 19.50	Mudstone / Sandstone
	19.50 - 20.50	Coal
	20.50 - 25.00	Mudstone
	7m Cased	

Totals	BH	Drill (m)	Case (m)	Gas Monitored: Yes / No
Today	5	125.00	32.00	
Previous	27	675.00	136.00	Gas Detected: Yes / No
To Date	32	800.00	168.00	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Simpson
Signed:
Date: 22/5/26

Clients Name: S. WESTON
Clients Position: SITE MANAGER
Signature:
Date: 22/05/26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet:	of
Rig / Method: C6	Crew: I Mitchell, D. Simpson		Date: 22/5/26
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
G11	0.00 - 7.00	Overburden	G15	0.00 - 6.00	Overburden
Rotary	7.00 - 16.50	Mudstone/Sandstone		6.00 - 8.00	Mudstone
Hole	16.50 - 17.50	Coal		8.00 - 9.00	Coal
	17.50 - 19.00	Mudstone		9.00 - 19.00	Mudstone/Sandstone
	19.00 - 20.00	Coal		19.00 - 20.00	Coal
	20.00 - 25.00	Mudstone		20.00 - 25.00	Mudstone
	7m Core			6m Core	
G13	0.00 - 7.00	Overburden	F6	0.00 - 2.20	Overburden
	7.00 - 9.00	Mudstone		2.20 - 3.20	Coal
	9.00 - 10.00	Soft Coal		3.20 - 13.00	Mudstone/Sandstone
	10.00 - 19.00	Mudstone		13.00 - 14.00	Coal
	19.00 - 20.00	Coal		14.00 - 25.00	Mudstone/Sandstone
	20.00 - 25.00	Mudstone		3m Core	
	7m Core				

Totals	BH	Drill (m)	Case (m)	Gas Monitored: Yes / No
Today	4	100.00	23.00	
Previous	32	800.00	168.00	Gas Detected: Yes / No
To Date	36	900.00	191.00	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Brooks
Signed:
Date: 22/5/26

Clients Name: S. WESTON
Clients Position: SITE MANAGER
Signature:
Date: 28/05/26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close			Sheet:		of
Rig / Method: CB		Crew: I Mitchelson, D. Simpson			Date: 26/5/26
BH / Casing Diameter:			Flushing Method:		

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
G17	0 - 6.50	Overburden	H16	0 - 7.00	Overburden
	6.50 - 7.50	Mudstone		7.00 - 8.00	Mudstone
	7.50 - 8.50	Coal		8.00 - 9.00	Coal
	8.50 - 19.50	Mudstone		9.00 - 20.00	Mudstone/Sandstone
	19.50 - 20.50	Coal		20.00 - 21.00	Coal
	20.50 - 25.00	Mudstone		21.00 - 25.00	Mudstone
	7m Core			7m Core	
H12	0 - 6.50	Overburden	I11	0 - 6.00	Overburden
	6.50 - 7.50	Mudstone	Rock	6.00 - 7.00	Mudstone
	7.50 - 8.50	Coal	Hole	7.00 - 8.00	Coal
	8.50 - 19.00	Mudstone/Sandstone		8.00 - 18.00	Mudstone/Sandstone
	19.00 - 20.00	Coal		18.00 - 19.00	Coal
	20.00 - 25.00	Mudstone		19.00 - 25.00	Mudstone
	7m Core			6m Core	
H14	0 - 6.00	Overburden			
	6.00 - 7.00	Mudstone			
	7.00 - 8.00	Coal			
	8.00 - 19.50	Mudstone/Sandstone			
	19.50 - 20.50	Coal			
	20.50 - 25.00	Mudstone			
	6m Core				

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	5	125.00	33.00	
Previous	36	900.00	191.00	Gas Detected: Yes / (No)
To Date	41	1,025.00	224.00	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Brookes
Signed:
Date: 26/5/26

Clients Name: S. WESTON
Clients Position: SITE MANAGER
Signature:
Date: 26-5-26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet: 2 of 2
Rig / Method: CO	Crew: I Mitchison, T Lights	Date: 26/5/26
BH / Casing Diameter:		Flushing Method:

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
~~IT~~ 13	0.00 - 6.50	Overburden			
~~Reject~~	6.50 - 7.50	Mudstone			
Hole	7.50 - 9.00	Broken Ground			
	9.00 - 25.00	Solid			
	7m	Casing			
I15	0.00 - 6.50	Overburden			
	6.50 - 7.50	Mudstone			
	7.50 - 9.00	Broken Ground			
	9.00 - 25.00	Solid			
	7m	Cased			
I17	0.00 - 6.50	Overburden			
	6.50 - 15.00	Mudstone/Sandstone			
	15.00 - 16.00	Coal			
	16.00 - 25.00	Mudstone/Sandstone			
	7m	Cased			

Totals	BH	Drill (m)	Case (m)	Gas Monitored: Yes / No
Today	3	75.00	21.00	
Previous	41	1,025.00	224.00	Gas Detected: Yes / No
To Date	44	1,100.00	245.00	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Brookes
Signed:
Date: 26/5/26

Clients Name: S. WESTON
Clients Position: SITE MANAGER
Signature:
Date: 26-05-26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet:	of	
Rig / Method: C6	Crew: T Mitchinson, T Light		Date: 27/5/26	
BH / Casing Diameter:		Flushing Method:		

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
J12	0m - 6.50	Overburden			
	6.50 - 7.50	Mudstone			
	7.50 - 11.50	Soft			
	11.50 - 25m	Mudstone/Sandstone			
	7m Core				
J14	0m - 6m	Overburden			
	6m - 10m	Mudstone			
	10m - 11.50	Soft			
	11.50 - 19.50	Mudstone/Sandstone			
	19.50 - 20.50	Core			
	20.50 - 25m	Mudstone			
	6m Core				

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	2	50.00	13m	
Previous	44	1,100.00m	245m	Gas Detected: Yes / (No)
To Date	46	1,150.00m	258m	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D Shawcross
Signed:
Date: 27/5/26

Clients Name: S Weston
Clients Position: Site Manager
Signature:
Date: 27-5-26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet: 1 of 2	
Rig / Method: C6	Crew: I. Mitchinson, D. Simpson		Date: 28/5/26
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
J16	0m - 6.50	Overburden		22m - 25m	Mudstone
	6.50 - 10.00	Mudstone		6m Cased	
	10m - 11.50	Coal Soft	K15	0m - 6m	Overburden
	11.50 - 20m	Mudstone/Sandstone		6m - 12.00	Mudstone/Sandstone
	20m - 21m	Coal		12m - 13m	Coal
	21m - 25m	Mudstone		13m - 21.50	Mudstone/Sandstone
	7m Cased			21.50 - 22.50	Coal
K11	0m - 6m	Overburden		22.50 - 25m	Mudstone
	6m - 8m	Mudstone		6m Cased	
	8m - 9.50	Coal			
	9.50 - 20m	Mudstone/Sandstone	K17	0m - 6m	Overburden
	20m - 21m	Coal		6m - 12m	Mudstone/Sandstone
	21m - 25m	Mudstone		12m - 13m	Coal
	6m Cased			13m - 20.50	Mudstone/Sandstone
K13	0m - 6m	Overburden		20.50 - 21.50	Coal
	6m - 10m	Soft		21.50 - 25m	Mudstone
	10m - 13m	Mudstone		6m Cased	
	13m - 14m	Coal			
	14m - 21m	Mudstone			
	21m - 22m	Coal			

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	5	125m	31.00	
Previous	46	1,150.00	258m	Gas Detected: Yes / (No)
To Date	51	1,275m	289m	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Brooks
Signed:
Date: 28/5/26

Clients Name: S. Weston
Clients Position: Foc
Signature:
Date: 28/5/26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet: 2 of 2			
Rig / Method: CC	Crew: I McKinnon, D Jones		Date: 28/5/26		
BH / Casing Diameter:		Flushing Method:			

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
L12	0.00 - 6.00	Overburden	L16	0.00 - 6.00	Overburden
	6.00 - 12.00	Mudstone		6.00 - 12.50	Mudstone/Sandstone
	12.00 - 13.00	Coal		12.50 - 14.00	Soft Coal
	13.00 - 20.50	Mudstone/Sandstone		14.00 - 21.50	Mudstone/Sandstone
	20.50 - 21.50	Coal		21.50 - 22.50	Coal
	21.50 - 25.00	Mudstone		22.50 - 25.00	Mudstone
	6m Core			6m Core	
L14	0.00 - 6.00	Overburden			
	6.00 - 12.50	Mudstone/Sandstone			
	12.50 - 13.50	Coal			
	13.50 - 21.00	Mudstone/Sandstone			
	21.00 - 22.00	Coal			
	22.00 - 25.00	Mudstone			
	6m Core				

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	3	75.00	18.00	
Previous	51	1,275.00	289.00	Gas Detected: Yes / (No)
To Date	54	1,350.00	307.00	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D Bennett
Signed:
Date: 28/5/26

Clients Name: S. Weston
Clients Position:
Signature: S.W
Date: 28/05/26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close			Sheet: 1 of 2		
Rig / Method: C6		Crew: I Mitchinson, D. Simpson			Date: 29/5/26
BH / Casing Diameter:			Flushing Method:		
BH	**Depth (m)**	**Strata Description**	**BH**	**Depth (m)**	**Strata Description**
M11	0m - 6m	Overburden	M17	0m - 6m	Overburden
	6m - 11m	Mudstone		6m - 12m	Mudstone
	11m - 12m	Coal		12m - 13m	Coal
	12m - 20.5m	Mudstone/Sandstone		13m - 22m	Mudstone/Sandstone
	20.5m - 21.5m	Coal		22m - 23m	Coal
	21.5m - 25m	Mudstone		23m - 25m	Mudstone
	6m Core			6m Core	
M13	0m - 6m	Overburden	N16	0m - 6m	Overburden
	6m - 12m	Mudstone		6m - 14m	Mudstone/Sandstone
	12m - 13m	Coal		14m - 16m	Coal
	13m - 21m	Mudstone/Sandstone		16m - 24m	Mudstone/Sandstone
	21m - 22m	Coal		24m - 25m	Coal
	22m - 25m	Mudstone		25m - 26m	Mudstone
	6m Core			6m Core	
M15	0m - 6m	Overburden	O15	0m - 6.5m	Overburden
	6m - 12m	Mudstone/Sandstone		6.5m - 13m	Mudstone
	12m - 13.5m	Soft Coal		13m - 14.5m	Coal
	13.5m - 21.5m	Mudstone/Sandstone		14.5m - 23m	Mudstone/Sandstone
	21.5m - 22.5m	Coal		23m - 24m	Coal
	22.5m - 25m	Mudstone		24m - 25m	Mudstone
	6m Core			25m Core	

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	6	151.00	36.00	
Previous	54	1,350.00	307.00	Gas Detected: Yes / (No)
To Date	60	1,501.00	343.00	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Brookes
Signed:
Date: 29/5/26

Clients Name: S. Wesson
Clients Position: Site Manager
Signature:
Date: 29/05/26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site:	Gaffin Close	Sheet:	2 of 2
Rig / Method:	C6	Crew: I Mitchinson, D. Simpson	Date: 29/5/26
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
N14	0 - 6 m	Overburden			
	6 - 13.50	Mudstone			
	13.50 - 14.50	Coal			
	14.50 - 23 m	Mudstone / Sandstone			
	23 - 24 m	Coal			
	24 - 25 m	Mudstone			
	6m cores				
N12	0 - 6 m	Overburden			
	6 - 12.50	Mudstone			
	12.5 - 13.50	Coal			
	13.50 - 20.50	Mudstone / Sandstone			
	20.50 - 21.50	Coal			
	21.5 - 25 m	Mudstone			
	6m core				

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	2	50.00	12 m	
Previous	60	1,501 m	343 m	Gas Detected: Yes / (No)
To Date	62	1,551 m	355 m	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Simpson
Signed:
Date: 29/5/26

Clients Name: S. Wescott (TAE)
Clients Position: SM
Signature:
Date: 29/05/26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close			Sheet:	of	
Rig / Method: C6		Crew: I McKinnon D. Simpson			Date: 3/6/26
BH / Casing Diameter:			Flushing Method:		

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
013	ow 6.50	Overburden			
	6.50 13m	Mudstone			
	13m 14.50	Coal			
	14.50 - 21.50	Mudstone/Sandstone			
	21.50 22.50	Coal			
	22.50 25m	Mudstone			
	7m Core				
011	ow 6.50	Overburden			
Road	6.50 11.50	Mudstone			
Hole	11.50 12.50	Coal			
	12.50 21.50	Mudstone/Sandstone			
	21.50 22.50	Coal			
	22.50 25m	Mudstone			
	7m Core				

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	2	50.00	14m	
Previous	62	1,551	355	Gas Detected: Yes / (No)
To Date	64	1,601	369	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Brown
Signed:
Date: 3/6/26

Clients Name: S. WESTON
Clients Position: SM
Signature:
Date: 3-6-26

Comments

Think Safe Act Safe

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet:	of	
Rig / Method: C6	Crew: T. Mitchinson, D. Simpson			Date: 4/6/26
BH / Casing Diameter:		Flushing Method:		

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
M9	0 - 6m	overburden		20m - 21m	Coal
Road	6m - 9m	Mudstone		21m - 25m	Mudstone
Hole	9m - 10m	Coal		6m Core	
	10m - 19m	Mudstone/Sandstone	M3	0m - 6m	overburden
	19m - 20m	Coal	Road Hole	6m - 7.50	Mudstone
	20m - 25m	Mudstone		7.50 - 8.50	Coal
M7		bore open		8.50 - 17.50	Mudstone/Sandstone
Road	0m - 5.50	overburden		17.50 - 17.50	Coal
Hole	5.50 - 7m	Mudstone		17.50 - 20.50	Mudstone
	7m - 8m	Coal		20.50 - 21.50	Coal
	8m - 21m	Mudstone/Sandstone		21.50 - 25m	Mudstone
	21m - 22m	Coal		6m core	
	22m - 25m	Mudstone	NB	0m - 6m	overburden
	6m			6m - 10m	Mudstone
M5	0m - 5.50	overburden		10m - 11m	Coal
Road	5.50 - 7m	Coal Mudstone		11m - 20m	Mudstone
Hole	7.0m - 8m	Coal		20m - 21m	Coal
	8m - 17m	Mudstone/Sandstone		21m - 25m	Mudstone
	17m - 17.50	Coal		6m Core	
	17.50 - 20m	Mudstone			

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	5	125m	30m	
Previous	64	1,601	369m	Gas Detected: Yes / (No)
To Date	69	1,726	399m	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Brooks
Signed:
Date: 4/6/26

Clients Name: S. Wesson
Clients Position: Site Manager
Signature:
Date: 4-6-26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet:	of
Rig / Method: CB	Crew: I. Mitchison / D. Simpson		Date: 4/6/26
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
P8	ca. 5.50	Overburden	Q7	ca. 5m	Overburden
	5.50 – 11.50	Mudstone/Sandstone		5m – 12m	Mudstone
	11.50 – 12.50	Coal		12m – 13m	Soft
	12.5 – 21m	Mudstone/Sandstone		13m – 25m	Solid w/b
	21m – 22m	Coal		5m Core	
	22m – 25m	Mudstone			
	6m Core				
R8	ca. 5m	Overburden			
	5m – 13m	Mudstone/Sandstone			
	13m – 14m	Coal			
	14m – 22.50	Mudstone/Sandstone			
	22.50 – 23.50	Coal			
	23.50 – 25m	Mudstone			
	5m Core				
Q7	ca. 5.50	Overburden			
	5.50 – 11.50	Mudstone/Sandstone			
	11.50 – 12.50	Coal			
	12.50 – 22.50	Mudstone/Sandstone			
	22.50 – 23.50	Coal			
	23.50 – 25m	Mudstone			
	6m Core				

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	4	100m	22m	
Previous	69	1,726	399m	Gas Detected: Yes / (No)
To Date	73	1,826	421m	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Barnes
Signed: [signature]
Date: 4/6/26

Clients Name: S. Nesta
Clients Position: Foreman
Signature: [signature]
Date: 4-6-26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet: 1 of 2 5	
Rig / Method: C6	Crew: I Mackie, D Simpson		Date: 5/6/26
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
S7	0m - 5m	overburden	R6	0m - 5m	overburden
	5m - 13m	Mudstone		5m - 12.50	Mudstone
	13m - 14m	Coal		12.50 - 13.50	Coal
	14m - 23m	Sandstone / Mudstone		13.50 - 22.50	Sandstone / Mudstone
	23m - 24m	Coal		22.50 - 23.50	Coal
	24m - 25m	Mudstone		23.50 - 25m	Mudstone
	5m Cuttings			5m Cuttings	
N6	0m - 5m	overburden	Q5	0m - 5m	overburden
	5m - 10m	Mudstone		5m - 10m	Sandstone / Mudstone
	10m - 11m	Coal		10m - 11.00	Soft
	11m - 20m	Sandstone / Mudstone		11m - 25m	Solid rock
	20m - 21m	Coal		5m Cuttings	
	21m - 25m	Mudstone	Q5	0m - 5m	overburden
	5m Cuttings			5m - 11.50	Sandstone / Mudstone
P6	0m - 5m	overburden		11.50 - 12.50	Soft
	5m - 12.50	Mudstone		12.50 - 25m	Solid rock
	12.50 - 21.50	Sandstone / Mudstone			5m Cuttings
	21.50 - 22.50	Coal			
	22.50 - 25.00	Mudstone			
	5m cuttings				

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	6	150.00	36.00	
Previous	73	1,826	421.00	Gas Detected: Yes (No)
To Date	79	1,976.00	451.00	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Simpson
Signed:
Date: 5/6/26

Clients Name: S. Weston
Clients Position: Site Manager
Signature:
Date: 5-6-26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet:	of
Rig / Method: C6	Crew: T. Mathison, D. Simpson		Date: 5/6/26
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
S5	0m - 5m	Overburden			
	5m - 12.5m	Sandstone/Mudstone			
	12.5m - 13.5m	Coal			
	13.5m - 22m	Sandstone/Mudstone			
	22m - 23m	Coal			
	23m - 25m	Mudstone			
	5m Core				
N4	0m - 5m	Overburden			
	5m - 11.5m	Sandstone/Mudstone			
	11m - 12.5m	Soft			
	12.5m - 25m	Solid NR			
	5m Core				
P4	0m - 5m	Overburden			
	5m - 11.5m	Sandstone/Mudstone			
	11.5m - 12.5m	Soft			
	12.5m - 25m	Solid NR			
	5m Core				

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	3	75.00	15m	
Previous	79	1,976m	451m	Gas Detected: Yes / (No)
To Date	83	2,051m	466m	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Simpson
Signed:
Date: 5/6/26

Clients Name: S. Weston
Clients Position: Manager
Signature:
Date: 5-6-26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close	Sheet:	of
Rig / Method: C6	Crew: T Mukwisa / D Simpson	Date: 8/6/26
BH / Casing Diameter:	Flushing Method:	

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
R4	ca. 5m	Overburden	T5	ca. 5m	Overburden
	5m 11.50	Mudstone		5m 13m	Sandstone/Mudstone
	11.50 - 12.50	Soft		13m 14.50	Coal
	12.50 - 25m	Solid N/R		14.50 - 25m	Sandstone/Mudstone
	5m Core			5m Core	
T7	ca. 5m	Overburden	V5	ca. 5m	Overburden
	5m 14m	Mudstone/Sandstone		5m 14m	Sandstone/Mudstone
	14m - 15.50	Coal		14m 15.50	Coal
	15.50 - 25m	Sandstone/Mudstone		15.50 - 25m	Sandstone/Mudstone
	5m Core			5m Core	
V7	ca. 4.50	Overburden	X5	ca. 5m	overburden
	4.50 16m	Mudstone/Sandstone		5m 15.50	Sandstone/Mudstone
	16m - 17.40	Coal		15.50 17m	Coal
	17.40 - 25m	Sandstone/Mudstone		17m 25m	Mudstone/Sandstone
	5m Core			5m Core	
X7	ca. 4m	Overburden	X1	ca. 5.50	Overburden
	4m 17.40	Mudstone/Sandstone		5.50 - 17.50	Sandstone/Mudstone
	17.40 - 19m	Coal		17.50 19m	Coal
	19m 25m	Sandstone/Mudstone		19m 25m	Sandstone/Mudstone
	6m Core			6m Core	

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	8	200m	46m	
Previous	83	2,051.00m	466m	Gas Detected: Yes / (No)
To Date	91	2,251.00m	506m	
Key:	C/T - Coal Traces	N/R - No Returns	P/R - Poor Returns	

Van Elle Operative Name: D. Bloomer
Signed:
Date: 8/6/26

Clients Name: S. Sketch
Clients Position: Engineer
Signature:
Date: 8-6-26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close			Sheet: 2 of		
Rig / Method: CG		Crew: T Mitchell, D Simpson		Date: 8/6/26	
BH / Casing Diameter:			Flushing Method:		
BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
V1	GL 5.5m	Overburden			
	5.5m 15.5m	Sandstone/Mudst			
	15.5m 17.00	Coal			
	17m 25m	Sandstone/Mudst			
	6m Core				
V2	GL 5m	Overburden			
	5m 15.5m	Sandstone/Mudst			
	15.5m 17m	Coal			
	17m 25m	Sandstone/Mudst			
	8m Core				
W2	GL 5.00	Overburden			
	5.00 - 14m	Sandstone/Mudst			
	14m 15.50	Coal			
	15.5m 25m	Sandstone/Mudst			
	8.5m Core				

Totals	BH	Drill (m)	Case (m)	Gas Monitored: Yes / No
Today	3	75m	16m	
Previous	91	2,251m	506m	Gas Detected: Yes / No
To Date	94	2,326m	522m	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D Brennan
Signed:
Date: 8/6/26

Clients Name: S Weston
Clients Position: SM
Signature:
Date: 8-6-26

Comments

Think Safe Act Safe

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close			Sheet:	of	
Rig / Method: C6		Crew: I Mitchinson D. Simpson		Date: 9/6/26	
BH / Casing Diameter:			Flushing Method:		

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
L12	0.00 - 5.00	Overburden	L14	0.00 - 5.00	Overburden
	5.00 - 13.00	Sandstone / Mudstone		5.00 - 15.00	Sandstone / Mudstone
	13.00 - 14.50	Coal		15.00 - 17.00	Coal
	14.50 - 25.00	Sandstone / Mudstone		17.00 - 25.00	Mudstone / Sandstone
	5m Core			5m Core	
X3	0.00 - 4.50	Overburden	L24	0.00 - 5.00	Overburden
	4.50 - 15.50	Sandstone / Mudstone		5.00 - 14.00	Sandstone / Mudstone
	15.50 - 17.00	Coal		14.00 - 15.50	Coal
	17.00 - 25.00	Sandstone / Mudstone		15.50 - 25.00	Sandstone / Mudstone
	5m Core			5m Core	
V3	0.00 - 5.00	Overburden	Y4	0.00 - 4.50	Overburden
	5.00 - 14.00	Sandstone / Mudstone		4.50 - 13.00	Sandstone / Mudstone
	14.00 - 15.50	Coal		13.00 - 14.50	Coal
	15.50 - 25.00	Sandstone / Mudstone		14.50 - 25.00	Sandstone / Mudstone
	5m Core			5m Core	
T3	0.00 - 4.50	Overburden	L16	0.00 - 4.50	Overburden
	4.50 - 13.00	Sandstone / Mudstone		4.50 - 14.00	Sandstone / Mudstone
	13.00 - 14.50	Coal		14.00 - 15.50	Coal
	14.50 - 23.00	Sandstone / Mudstone		15.50 - 25.00	Mudstone
	5m Core			5m Core	

Totals	BH	Drill (m)	Case (m)	Gas Monitored: Yes / No
Today	8	200.00	40.00	
Previous	94	2,326.00	522.00	Gas Detected: Yes / No
To Date	102	2,526.00	562.00	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Mitchinson
Signed:
Date: 9/6/26

Clients Name: S. Weston
Clients Position:
Signature:
Date: 9-6-2

Comments

Think Safe Act Safe

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet:	of	
Rig / Method: C6	Crew: I Mitchinson, D. Simpson			Date: 9/6/26
BH / Casing Diameter:		Flushing Method:		

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
W6	0m - 4.50	Overburden	U8	0m - 4.50	Overburden
	4.50 - 18.50	Sandstone / Mudstone		4.50 - 14.50	Sandstone / Mudstone
	18.50 - 20m	Coal		14.50 - 16m	Coal
	20m - 25m	Sandstone / Mudstone		16m - 25m	Sandstone / Mudstone
	5m Cored			5m Cored	
Y6	0m - 4.50	Overburden	T9	0m - 4m	Overburden
Y	4.50 - 19m	Sandstone / Mudstone		4m - 18.50	Sandstone / Mudstone
	19m - 20.50	Coal		18.50 - 20m	Coal
	20.50m - 25m	Mudstone / Sandstone		20m - 25m	Sandstone / Mudstone
	5m Cored			4m Cored	
Y8	0m - 4.50	Overburden			
	4.50 - 19.50	Sandstone / Mudstone			
	19.50 - 21m	Coal			
	21m - 25m	Sandstone / Mudstone			
	5m Cored				
W8	0m - 4.50	Overburden			
	4.50 - 20m	Sandstone / Mudstone			
	20m - 21.50	Coal			
	21.50 - 25m	Mudstone			
	5m Cored				

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	6	150m	25m	
Previous	102	2,526.50m	562m	Gas Detected: Yes / (No)
To Date	108	2,576m	591m	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Brown
Signed:
Date: 9/6/26

Clients Name: S. Norton
Clients Position:
Signature:
Date: 9.6.26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet:	of
Rig / Method: C6	Crew: I Mitchell D. Simpson	Date: 10/6/26	
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
V9	0m - 4m	Overburden	T12	0m - 4m	Overburden
	4m - 20.50	Sandstone/Mudstone		4m - 21.50	Sandstone/Mudstone
	20.50 - 22m	Soft		21.50 - 23m	Soft
	22m - 25m	Solid P/R		23m - 25m	Solid P/R
	4m Case			4m Case	
X9	0m - 4m	Overburden	S14	0m - 4m	Overburden
	4m - 21.50	Sandstone/Mudstone	Road	4m - 20m	Sandstone/Mudstone
	21.50 - 23m	Soft	Hole	20m - 21.50	Soft
	23m - 25m	Solid P/R		21.50 - 25m	Solid P/R
	4m Case			4m	Cased
Y10	0m - 5m	Overburden	R13	0m - 4m	Overburden
	5m - 5.30	Coal	Road	4m - 19.50	Sandstone/Mudstone
	5.30 - 21.50	Sandstone/Mudstone	Hole	19.50 - 21m	Soft
	21.50 - 23m	Soft		21m - 25m	Solid P/R
	23m - 25m	Solid P/R		4m	Cased
	5m Case		V13	0m - 5m	Overburden
T11	0m - 4.50	Overburden		5m - 5.50	Coal
	4.50 - 19.80	Sandstone/Mudstone		5.50 - 22m	Sandstone/Mudstone
	19.50 - 21m	Soft		22m - 23.50	Soft
	21.00 - 25m	Solid P/R		23.50 - 25m	Solid P/R
	5m Case			5m Case	

Totals	BH	Drill (m)	Case (m)	Gas Monitored: Yes / No
Today	8	200m	35m	
Previous	108	2,576m	591m	Gas Detected: Yes / No
To Date	116	2776m	626m	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Brown
Signed:
Date: 10/6/26

Clients Name: S. Weston
Clients Position:
Signature:
Date: 10.6.26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet:	of
Rig / Method: C6	Crew: T Matthews, D. Simpson		Date: 10/6/26
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description
U10	GL – 5m	Overburden
	5m – 5.3m	Coal
	5.3m – 22m	Sandstone/Mudst
	22m – 23.5m	Soft
	23.5m – 25m	Solid P/R
	5m Cased	
U12	GL – 5.5m	Overburden
	5.5m – 5.8m	Coal
	5.8m – 23m	Sandstone/Mudst
	23m – 24m	Soft
	24m – 25m	Solid P/R
	6m Cased	
U14	GL – 5.5m	Overburden
Rotary	5.5m – 5.8m	Coal
Hole	5.8m – 23.5m	Mudstone/Sandstone
	23.5m – 24m	Soft
	24m – 25m	Solid P/R
	6m Cased	

BH	Depth (m)	Strata Description
V11	GL – 4m	Overburden
	4m – 21m	Sandstone/Mudst
	21m – 22.5m	Coal
	22.5m – 25m	Mudstone
	4m Cased	
W10	GL – 5m	Overburden
	5m – 5.3m	Coal
	5.3m – 21.5m	Sandstone/Mudst
	21.5m – 23m	Coal
	23m – 25m	Mudstone
	5m Cased	
W12	GL – 5.5m	Overburden
	5.5m – 5.8m	Coal
	5.8m – 21.5m	Sandstone/Mudst
	21.5m – 23m	Coal
	23m – 25m	Mudstone
	6m Cased	

Totals	BH	Drill (m)	Case (m)	Gas Monitored: Yes / No
Today	6	150m	32m	
Previous	116	2,776m	526m	Gas Detected: Yes / No
To Date	122	2,926m	558m	

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Bamber
Signed:
Date: 10/6/26

Clients Name:
Clients Position:
Signature:
Date: 10.6.26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet: 1 of 2	
Rig / Method: CB	Crew: T Mathieson / D Simpson		Date: 11/6/26
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
W14	GL - 5.5m	Overburden	~~W~~ V14	GL - 5.5m	Overburden
	5m - 5.5m	Coal	Roadhdr	5.5m - 5.8m	Coal
	5.5m - 22.5m	Sandstone/Mudstone		5.8m - 22m	Sandstone/Mudstone
	22.5m - 24m	Coal		22m - 23.5m	Coal
	24m - 25m	Mudstone		23.5m - 25m	Mudst./Sandst.
	5m Cored			6m core	
Y12	GL - 5.5m	Overburden	X13	GL - 4.5m	Overburden
	5.5m - 5.8m	Coal		4.5m - 22m	Sandstone/Mudst
	5.8m - 21.5m	Sandstone/Mudst		22m - 23.5m	~~Coal~~ Soft
	21.5m - 23m	Soft		23.5m - 25m	~~BH~~ Solid P/R
	23m - 25m	Solid P/R		5m core	
	6m Core		Q12	GL - 4m	Overburden
X11	GL - 4.5m	Overburden		4m - 19m	Sandstone/Mudst
	4.5m - 22m	Sandstone/Mudst		19m - 21.5m	Soft
	22m - 23.5m	Soft		21.5m - 28m	Solid P/R
	23.5m - 25m	Solid P/R		4m	Core
	5m Core				

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	6	150m	31.5m	
Previous	122	2,926.5m	558.5m	Gas Detected: Yes / (No)
To Date	128	3,076.5m	589.5m	
Key:	C/T - Coal Traces	N/R - No Returns	P/R - Poor Returns	

Van Elle Operative Name: D Simpson
Signed:
Date: 11/6/26

Clients Name: S. Weston
Clients Position: SM
Signature:
Date: 11-6-26

Comments

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Kirkby Lane, Pinxton, Nottinghamshire NG16 6JA
Telephone: (01773) 580580 Fax: (01773) 862100
Website: www.van-elle.co.uk E-mail: info@van-elle.co.uk

Open Hole Drillers Log

No Gas Recorded

Site: Griffin Close Sheet: of

Rig: C6 Crew: I. Mitchinson, D. Simpson Date: 11/6/26

Hours on Site: Travelling Time:

BH	Depth	Strata Description	BH	Depth	Strata Description
AA14	0 - 5.5m	Overburden			
	5.5m - 5.8m	Coal			
	5.8m - 22m	Sandstone/Mudstone			
	22m - 23.5m	Gr. Soft			
	23.5m - 25m	Mudstone			
		6m Core			
FG	0m - 6m	Overburden			
	6m - 9.4m	Mudstone			
	9.4m - 10m	Coal			
	10m - 25m	Sandstone/Mudstone			
		6m Core			

Casing/Water Level Details

BH	Casing		Water			Totals	BH	Drill	Case	Install
	Dia	Depth	Strike	Rise	Sealed					
						Today	2	50m	12m	
						Previous	128	3,101m	595m	
						To Date	130	3,151m	607m	

I confirm this is a true record
Van Elle operative name D. Simpson

Drill hole Nos. checked Yes ☑ No ☐
Hole Depth checked Yes ☑ No ☐
SIGNED
Dated 11/6/26

Client's Name SIMPSON
Client's position
Signature
Dated 11-6-26

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Kirkby Lane, Pinxton, Nottinghamshire NG16 6JA
Telephone: (01773) 580580 Fax: (01773) 862100
Website: www.van-elle.co.uk E-mail: info@van-elle.co.uk

Open Hole Drillers Log Straft Holes

Site:		Sheet: of
Rig:	Crew: D. I Mitchinson	Date: 11/6/26
Hours on Site:		Travelling Time:

BH	Depth	Strata Description	BH	Depth	Strata Description
A	0m - 6m	Overburden			
	6m - 11m	Mudstone			
		6m			
B	0m - 6m	Overburden			
	6m - 11m	Mudstone			
		6m			

Casing/Water Level Details

BH	Casing		Water			Totals	BH	Drill	Case	Install
	Dia	Depth	Strike	Rise	Sealed	Today	2	22m	12m	
						Previous	130	3,151m	607m	
						To Date	132	3,173m	619m	

I confirm this is a true record.
Van Elle operative name D. Brunton

Drill hole Nos. checked Yes ☑ No ☐
Hole Depth checked Yes ☑ No ☐
SIGNED
Dated 11/6/26

Client's Name
Client's position SINESTON
Signature
Dated 11.6.26

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Kirkby Lane, Pinxton, Nottinghamshire NG16 6JA
Telephone: (01773) 580580 Fax: (01773) 862100
Website: www.van-elle.co.uk E-mail: info@van-elle.co.uk

Open Hole Drillers Log

Test Holes

Site: Griffe Close | Sheet: of

Rig: C6 | Crew: I Mitchinson, D. Simpson | Date: 11/6/26

Hours on Site: | Travelling Time:

BH	Depth	Strata Description	BH	Depth	Strata Description
TH1	c.m 3.6m	Overburden	TH4	c.a. 4m	Overburden
GS	3.6m-5.4m	Soft	V9	4m-21m	Medium Strength/Mudst
GT	5.4m-22m	Medium Strength/Mudst	V11	21m-22.5m	Soft
		4m Core		22.5m-25m	Solid P/L
					4m Core
TH2	c.m. 6.5m	overburden			
I13	6.5m-7.5m	Mudstone			
	7.5m-9m	Soft			
I15	9m-25m	Solid PL			
		7m Core			
TH3	4m-5m	Overburden			
P5	5m-12.5m	Mudstone			
P7	12.5m-13.6m	Coal			
	13.5m-21.5m	Sandstone/Mudst			
	21.5m-22.5m	Soft			
	22.5m-25m	Solid PL			
		5m Core			

Casing/Water Level Details

BH	Casing		Water			Totals	BH	Drill	Case	Install
	Dia	Depth	Strike	Rise	Sealed					
						Today	4	10m	19m	
						Previous	132	3,178m	619m	
						To Date	136	3,273m	638m	

I confirm this is a true record.
Van Elle operative name: D. Simpson
Drill hole Nos. checked Yes ☑ No ☐
Hole Depth checked Yes ☑ No ☐
SIGNED:
Dated: 11/6/26

Client's Name: SINESTON
Client's position:
Signature:
Dated: 11-6-26

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Probing for Mineshaft

Site: Griffin Close		Sheet: 1 of 3	
Rig / Method: CC	Crew: D. Brown, D. Simpson		Date: 1/6/26
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
BH1	GL - 6.2m	Overburden	BH17	GL 4.5m	Overburden
F6	6.2m - 8m	Mudstone	H7	4.5m 5.0m	Coal
BH2	GL - 6.2m	Overburden		5m 8m	Mudstone
G6	6.2m - 8m	Mudstone			
			BH18	GL - 4.5m	Overburden
BH3	GL 6.2m	Overburden	H6	4.5m - 5m	Coal
F7	6.2m - 8m	Mudstone		5m 8m	Mudstone
BH4	GL - 6.2m	Overburden	BH9	GL 6.2m	Overburden
F5	6.2m 8m	Mudstone	H5	6.2m 8m	Mudstone
				8	
BH5	GL - 5m	Overburden	BH10	GL 6.2m	Overburden
E6	5m 8m	Mudstone	H4	6.2m 8m	Mudstone
BH6	GL - 4.5m	Overburden	BH11	GL - 4.5m	Overburden
H8	4.5m - 4.8m	Coal	G8	4.5m 5m	Coal
	4.8m - 8m	Mudstone		5.0m - 8m	Mudstone

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	11	88m		
Previous	[illegible]	[illegible]	[illegible]	Gas Detected: Yes / (No)
To Date	11	88m		

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Brown
Signed:
Date: 1/6/26

Clients Name: S. WESTON
Clients Position: SITE MANAGER
Signature:
Date: 1-6-26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Probing For Mineshaft

Site: Griffin Close	Sheet: 3 of 3
Rig / Method: CG	Crew: D. Brown / D. Simpson
BH / Casing Diameter:	Flushing Method:

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
BH22	0.00 - 4.50	Overburden	BH29	0.00 - 4.50	Overburden
D7	4.50 - 8.00	Mudstone	F3	4.50 - 8.00	Mudstone C/T
BH23	0.00 - 4.50	Overburden	BH30	0.00 - 4.50	Overburden
D6	4.50 - 8.00	Mudstone	G3	4.50 - 8.00	Mudstone C/T
BH24	0.00 - 4.50	Overburden	BH31	0.00 - 4.50	Overburden
D5	4.50 - 8.00	Mudstone	H3	4.50 - 8.00	Mudstone C/T
BH25	0.00 - 4.50	Overburden	BH32	0.00 - 4.50	Overburden
D4	4.50 - 8.00	Mudstone	I3	4.50 - 8.00	Mudstone C/T
BH26	0.00 - 5.00	Overburden			
C3	5.00 - 8.00	Mudstone			
BH27	0.00 - 5.00	Overburden			
D3	5.00 - 8.00	Mudstone			
BH28	0.00 - 4.50	Overburden			
E3	4.50 - 8.00	Mudstone			

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	11	88.00		
Previous	21	166.00		Gas Detected: Yes / (No)
To Date	32	254.00		

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Brown
Signed:
Date: 11/6/24

Clients Name: S. Weston
Clients Position: Site Manager
Signature:
01-06-24

Comments

Think Safe Act Safe

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Piling For M.NESHAFT

Site: Griffin Close	Sheet: 1 of 3	
Rig / Method: C6	Crew: T. Mitchinson, D. Simpson	Date: 2/6/26
BH / Casing Diameter:	Flushing Method:	

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
BH33	0.00 - 4.00	Overburden	BH38	0.00 - 4.00	Overburden
I4	4.00 - 5.00	Coal	I9	4.00 - 5.00	Soft
	5.00 - 8.00	Mudstone		5.00 - 8.00	Solid
BH34	0.00 - 4.00	Overburden	BH39	0.00 - 4.00	Overburden
I5	4.00 - 5.00	Coal	I10	4.00 - 6.00	Soft
	5.00 - 8.00	Mudstone		6.00 - 8.00	Solid
BH35	0.00 - 4.00	Overburden	BH40	0.00 - 4.50	Overburden
I6	4.00 - 5.00	Coal	G9	4.50 - 6.50	Soft
	5.00 - 8.00	Mudstone		6.50 - 8.00	Solid
BH36	0.00 - 4.00	Overburden	BH41	0.00 - 4.50	Overburden
I7	4.00 - 5.00	Coal	F9	4.50 - 6.50	Soft
	5.00 - 8.00	Mudstone		6.50 - 8.00	Solid
BH37	0.00 - 4.00	Overburden	BH42	0.00 - 4.50	Overburden
I8	4.00 - 5.00	Coal	E9	4.50 - 6.00	Coal
	5.00 - 8.00	Mudstone		6.00 - 8.00	~~Solid~~ Mudstone

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	10	80.00		
Previous	32	254.00		Gas Detected: Yes / (No)
To Date	42	334.00		

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D Bloomfield
Signed:
Date: 2/6/26

Clients Name: S. Nesta
Clients Position: Site Manager
Signature:
Date: 2.6.26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL REHABILITATION SOLUTIONS

Site: Griffin Close			Sheet: 2 of 3		
Rig / Method: C6		Crew: T Mitchinson, D. Simpson		Date: 2/6/26	
BH / Casing Diameter:			Flushing Method:		
BH	**Depth (m)**	**Strata Description**	**BH**	**Depth (m)**	**Strata Description**
BH43	0.00 – 4.50	overburden	BH48	0.00 – 5.00	overburden
D9	4.50 – 6.00	Coal	C5	5.00 – 6.50	Coal
	6.00 – 8.00	Mudstone		6.50 – 8.00	Mudstone
BH44	0.00 – 5.50	overburden	BH49	0.00 – 4.50	overburden
C9	5.50 – 6.50	Coal	C4	4.50 – 6.00	Coal
	6.50 – 8.00	Mudstone		6.00 – 8.00	Mudstone
BH45	0.00 – 6.00	overburden	BH50	0.00 – 3.00	overburden
C8	6.00 – 7.00	Soft	J3	3.00 – 3.50	Coal
	7.00 – 8.00	Solid		3.50 – 4.50	overburden
				4.50 – 8.00	Mudstone
BH46	0.00 – 4.50	overburden		8.00	
C7	4.50 – 6.00	Coal	BH51	0.00 – 3.00	overburden
	6.00 – 8.00	Mudstone	J4	3.00 – 3.50	Coal
				3.50 – 4.50	overburden
BH47	0.00 – 5.00	overburden		4.50 – 8.00	Mudstone
C6	5.00 – 6.50	Coal			
	6.50 – 8.00	Mudstone			

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	9	72.00		
Previous	42	334.00		Gas Detected: Yes / (No)
To Date	51	406		
Key:	C/T - Coal Traces	N/R - No Returns	P/R - Poor Returns	

Van Elle Operative Name: D. Mudstone
Signed:
Date: 2/6/26

Clients Name: S. WERTON
Clients Position: S.M
Signature:
Date: 2.6.26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet: 3 of 3	
Rig / Method: C6	Crew: I Mitchison, D Simpson		Date: 2/6/26
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
BH52	0.00 4.00	Overburden	BH57	0.00 4.00	Overburden
J5	4.00 5.00	Coal	J10	4.00 5.00	Soft
	5.00 8.00	Mudstone		5.00 8.00	Solid
BH53	0.00 4.00	Overburden	BH58	0.00 4.00	Overburden
J6	4.00 5.00	Coal	K10	4.00 5.00	Soft
	5.00 8.00	Mudstone		5.00 8.00	Mudstone
BH54	0.00 4.50	Overburden	BH59	0.00 4.00	Overburden
J7	4.50 5.50	Coal	K9	4.00 5.00	Coal
	5.50 8.00	Mudstone		5.00 8.00	Mudstone
BH55	0.00 4.50	Overburden	BH60	0.00 4.00	Overburden
J8	4.50 5.50	Coal	K8	4.00 5.00	Coal
	5.50 8.00	Mudstone		5.00 8.00	Mudstone
			BH61	0.00 4.00	Overburden
BH56	0.00 4.00	Overburden	K7	4.00 5.00	Coal
J9	4.00 5.00	Coal		5.00 8.00	Mudstone
	5.00 8.00	Mudstone			

Totals	BH	Drill (m)	Case (m)	Gas Monitored: Yes / No
Today	10	80.00		
Previous	51	406.00		Gas Detected: Yes / No
To Date	61	486.00		

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D Brooks
Signed:
Date: 2/6/26

Clients Name: S. NESTON
Clients Position: S.M.
Signature:
Date: 2-6-26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet: 1 of	
Rig / Method: C6	Crew: T. Mitchell, D. Simpson		Date: 3/6/26
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
BH62	0m - 3m	Overburden	BH66	0m - 5m	Overburden
K6	3m - 3.5m	Coal	I10	5m - 6m	Soft
	3.5m - 5.5m	Overburden		6m - 8m	Solid
	5.5m - 8m	Mudstone			
			BH67	0m - 5m	Overburden
BH63	0m - 3m	Overburden	H10	5m - 6m	Coal
K5	3m - 3.5m	Coal		6m - 8m	Mudstone
	3.5m - 5.5m	Overburden			
	5.5m - 8m	Mudstone	BH68	0m - 5m	Overburden
			G10	5m - 6m	Coal
BH64	0m - 3m	Overburden		6m - 8m	Mudstone
K4	3m - 4m	Coal			
	4m - 8m	Mudstone	BH69	0m - 5m	Overburden
			F10	5m - 6m	Coal
BH65	0m - 5m	Overburden		6m - 8m	Mudstone
K3	5m - 6m	Soft			
	6m - 8m	Solid	BH70	0m - 6m	Overburden
			E10	6m - 8m	Solid

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	9	72m		
Previous	61	486m		Gas Detected: Yes / (No)
To Date	70	538m		

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Simpson
Signed:
Date: 3/6/26

Clients Name: S. WESTON
Clients Position: SM
Signature:
Date: 3-6-26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close		Sheet: 2 of	
Rig / Method: C6	Crew: T Mikkelsen, D Simpson		Date: 3/6/26
BH / Casing Diameter:		Flushing Method:	

BH	Depth (m)	Strata Description	BH	Depth (m)	Strata Description
BH71	0.00 - 5.00	Overburden	BH76	0.00 - 5.50	Overburden
D10	5.00 - 6.00	Soft	R8	5.50 - 6.50	Coal
	6.00 - 8.00	Solid		6.50 - 8.00	Mudstone
BH72	0.00 - 5.00	Overburden	BH77	0.00 - 5.50	Overburden
C10	5.00 - 6.00	Soft	B7	5.50 - 6.50	Coal
	6.00 - 8.00	Solid		6.50 - 8.00	Mudstone
BH73	0.00 - 5.00	Overburden	BH78	0.00 - 5.50	Overburden
A10	5.00 - 6.00	Coal	B6	5.50 - 6.50	Coal
	6.00 - 8.00	Mudstone		6.50 - 8.00	Mudstone
BH74	0.00 - 5.00	Overburden	BH79	0.00 - 5.50	Overburden
B10	5.00 - 6.00	Coal	B5	5.50 - 6.50	Coal
	6.00 - 8.00	Mudstone		6.50 - 8.00	Mudstone
BH75	0.00 - 5.00	Overburden	BH80	0.00 - 5.00	Overburden
B9	5.00 - 6.00	Coal	B4	5.00 - 6.50	Soft
	6.00 - 8.00	Mudstone		6.50 - 8.00	Solid

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	10	80.00		
Previous	70	538.00		Gas Detected: Yes / (No)
To Date	80	618.00		

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Brown
Signed:
Date: 3/6/26

Clients Name: S. WESTON
Clients Position: S.M
Signature:
Date: 3-6-26

Comments

Open Hole Drillers Log

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Site: Griffin Close			Sheet: 3 of		
Rig / Method: C6		Crew: I McMenisaay, D Simpsaad			Date: 3/6/26
BH / Casing Diameter:			Flushing Method:		
BH	**Depth (m)**	**Strata Description**	**BH**	**Depth (m)**	**Strata Description**
BH81	4.00 5.00	Overburden	BH86	5.00 6.00	Overburden
B3	5.00 6.00	Soft	A5	6.00 7.00	Coal
	6.00 8.00	Solid		7.00 9.00	Sandy Mudstone
BH82	4.00 5.00	Overburden	BH87	5.00 6.00	Overburden
A9	5.00 6.00	Soft	A4	6.00 7.00	Coal
	6.00 8.00	Solid		7.00 9.00	Mudstone
BH83	4.00 5.00	Overburden	BH88	5.00 6.00	Overburden
A8	5.00 6.00	Soft	A3	6.00 7.00	Coal
	6.00 8.00	Solid		7.00 9.00	Mudstone
BH84	4.00 6.00	Overburden			
A7	6.00 7.00	Soft			
	7.00 8.00	Solid			
BH85	4.00 6.00	Overburden			
A6	6.00 7.00	Soft			
	7.00 8.00	Solid			

Totals	BH	Drill (m)	Case (m)	Gas Monitored: (Yes) / No
Today	8	67		
Previous	80	618.00		Gas Detected: Yes / (No)
To Date	88	685.00		

Key: C/T - Coal Traces N/R - No Returns P/R - Poor Returns

Van Elle Operative Name: D. Brookes
Signed:
Date: 3/6/26

Clients Name: S. NESTON
Clients Position: SM
Signature:
Date: 3-6-26

Comments

Appendix 3:
Grout Logs

Daily & Accumulative Grouting Return

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Job No. 243358 | Site: Griffin Close | Date: 21/5/26 | Sheet of

HOLE REF.	DEPTH (m)	PRESSURE (BAR)	FULL / ST	BRIEF LOG OF HOLE	QUANT OF GROUT (T)	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
F2			Full	Coal	0.26	0.02	0.24		
H2			Full	Coal	0.26	0.02	0.24		
J2			Full	Coal	0.26	0.02	0.24		
E3			Full	Coal	0.26	0.02	0.24		
G3			Full	Coal	0.26	0.02	0.24		
I3			Full	Coal	0.26	0.02	0.24		
F4			Full	Coal	0.26	0.02	0.24		
H4			Full	Coal	0.26	0.02	0.24		
J4			Full	Coal	0.26	0.02	0.24		
E5			Full	Coal	0.26	0.02	0.24		
G5			Full	Broken Ground	2.60	0.20	2.40 ~~2.24~~		
I5			Full	Broken Ground	2.60	0.20	2.40		
J6			Full	Coal	0.26	0.02	0.24		
13	TOTAL HOLES GROUTED TODAY			TODAY'S TOTAL GROUT	8.06	0.62	7.44		
/	PREVIOUS TOTAL			PREVIOUS TOTAL	/	/	/		
13	TOTAL TODATE			TOTAL GROUTING	8.06	0.62	7.44		

	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
Today's Deliveries				
Previous Deliveries				
Total Deliveries	5.00	38.92		
Total Used				
Stock on Site				

CUBES TAKEN	
Today	4
Previous	/
Total to Date	4

FLOW & BLEED RESULTS / OTHER REMARKS

Flow 460 Bleed Test 1000/9%

12-1 Mix

GROUTING CREW / EQUIPMENT

D. Brooks AP Helps

I CONFIRM THIS IS A TRUE RECORD

VAN ELLE NAME: D. Brooks

VAN ELLE SIGNATURE:

CLIENT'S NAME: S. Weston

CLIENT'S SIGNATURE:

DATE: 21/5/26

Daily & Accumulative Grouting Return

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Job No. 243358 | Site: GRIFFIN Close | Date: 27/5/26 | Sheet 1 of

HOLE REF.	DEPTH (m)	PRESSURE (BAR)	FULL / ST	BRIEF LOG OF HOLE	QUANT OF GROUT (T)	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
F6			Full	Coal	0.26	0.02	0.24		
H6			Full	Coal	0.26	0.02	0.24		
G7			S/T	Broken Ground	1.30	0.10	1.20		
I7			Full	Coal	0.26	0.02	0.24		
E11			Full	Coal	0.26	0.02	0.24		
G11			Full	Coal	0.26	0.02	0.24		
I11			Full	Coal	0.26	0.02	0.24		
A12			Full	Coal	0.26	0.02	0.24		
C12			Full	Coal	0.26	0.02	0.24		
F12			Full	Coal	0.26	0.02	0.24		
H12			Full	Coal	0.26	0.02	0.24		
B13			Full	Coal	0.26	0.02	0.24		
E13			Full	Coal	0.26	0.02	0.24		
12	TOTAL HOLES GROUTED TODAY			TODAY'S TOTAL GROUT	4.42	0.34	4.08		
13	PREVIOUS TOTAL			PREVIOUS TOTAL	8.06	0.62	7.44		
25	TOTAL TODATE			TOTAL GROUTING	12.48	0.96	11.52		

	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
Today's Deliveries				
Previous Deliveries				
Total Deliveries	5.10	38.92		
Total Used				
Stock on Site				

CUBES TAKEN	
Today	4
Previous	4
Total to Date	8

FLOW & BLEED RESULTS / OTHER REMARKS

Flow 450 Bleed Test 100/946

GROUTING CREW / EQUIPMENT

Same

I CONFIRM THIS IS A TRUE RECORD

VAN ELLE NAME: D Brookes

VAN ELLE SIGNATURE:

CLIENT'S NAME: S Weston

CLIENT'S SIGNATURE:

DATE: 27/5/26

Think Safe Act Safe

Daily & Accumulative Grouting Return

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Job No. 243358				Site: Griffin Close			Date: 27/5/26				Sheet 2 of 2			
HOLE REF.	DEPTH (m)	PRESSURE (BAR)	FULL / ST	BRIEF LOG OF HOLE	QUANT OF GROUT (T)	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)		OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
G13			Full	Coal	0.26	0.02	0.24			Today's Deliveries				
I13			S/T	Broken Ground	1.30	0.10	1.20			Previous Deliveries				
A14			Full	Coal	0.26	0.02	0.24			Total Deliveries				
C14			"	Coal	0.26	0.02	0.24			Total Used				
F14			"	Coal	0.26	0.02	0.24			Stock on Site				
H14			"	Coal	0.26	0.02	0.24			CUBES TAKEN		FLOW & BLEED RESULTS / OTHER REMARKS		
B15			"	Coal	0.26	0.02	0.24			Today		Same		
E15			"	Coal	0.26	0.02	0.24			Previous	8			
G15			"	Coal	0.26	0.02	0.24			Total to Date				
A16			"	Coal	0.26	0.02	0.24			GROUTING CREW / EQUIPMENT				
C16			"	Coal	0.26	0.02	0.24			Same				
E16			"	Coal	0.26	0.02	0.24			I CONFIRM THIS IS A TRUE RECORD				
G16			"	Coal	0.26	0.02	0.24			VAN ELLE NAME: D Rhodes				
12	TOTAL HOLES GROUTED TODAY			TODAY'S TOTAL GROUT	4.42	0.34	4.08			VAN ELLE SIGNATURE:				
25	PREVIOUS TOTAL			PREVIOUS TOTAL	12.48	0.96	11.52			CLIENT'S NAME: Scott Heston				
37	TOTAL TODATE			TOTAL GROUTING	16.90	1.30	15.60			CLIENT'S SIGNATURE:				
										DATE: 27/5/26				

Think Safe Act Safe

Daily & Accumulative Grouting Return

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Job No. 243358 | Site: Griffin Close | Date: 29/5/26 | Sheet 1 of 2

HOLE REF.	DEPTH (m)	PRESSURE (BAR)	FULL / ST	BRIEF LOG OF HOLE	QUANT OF GROUT (T)	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
B17			Full	Coal	0.26	0.02	0.24		
E17			Full	Coal	0.26	0.02	0.24		
G17			Full	Coal	0.26	0.02	0.24		
I17			Full	Coal	0.26	0.02	0.24		
K17			Full	Coal	0.26	0.02	0.24		
M17			Full	Coal	0.26	0.02	0.24		
N12 ~~H16~~			Full	Coal	0.26	0.02	0.24		
J16			Full	Coal	0.26	0.02	0.24		
L16			Full	Coal	0.26	0.02	0.24		
N16			Full	Coal	0.26	0.02	0.24		
O15			Full	Coal	0.26	0.02	0.24		
M15			Full	Coal	0.26	0.02	0.24		
K15			Full	Coal	0.26	0.02	0.24		
13	TOTAL HOLES GROUTED TODAY			TODAY'S TOTAL GROUT	3.38	0.26	3.12		
37	PREVIOUS TOTAL			PREVIOUS TOTAL	16.90	1.30	15.60		
50	TOTAL TODATE			TOTAL GROUTING	20.28	1.56	18.72		

	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
Today's Deliveries				
Previous Deliveries				
Total Deliveries				
Total Used				
Stock on Site				

CUBES TAKEN	
Today	
Previous	8
Total to Date	

FLOW & BLEED RESULTS / OTHER REMARKS

Flow 460 Bleed Test 1430/1440

GROUTING CREW / EQUIPMENT

SAME

I CONFIRM THIS IS A TRUE RECORD

VAN ELLE NAME: D. Brazier

VAN ELLE SIGNATURE:

CLIENT'S NAME: S. WESTON

CLIENT'S SIGNATURE:

DATE: 29/5/26

Daily & Accumulative Grouting Return

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Job No. 243358				Site: Griffin Close			Date: 29/5/26				Sheet 2 of 2			
HOLE REF.	DEPTH (m)	PRESSURE (BAR)	FULL / ST	BRIEF LOG OF HOLE	QUANT OF GROUT (T)	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)		OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
N14			Full	Coal	0.26	0.02	0.24			Today's Deliveries				
~~N12~~				~~Coal~~						Previous Deliveries				
M13			Full	Coal	0.26	0.02	0.24			Total Deliveries				
M11			Full	Coal	0.26	0.02	0.24			Total Used				
L14			Full	Coal	0.26	0.02	0.24			Stock on Site				
L12			Full	Coal	0.26	0.02	0.24			CUBES TAKEN		FLOW & BLEED RESULTS / OTHER REMARKS		
K11			Full	Coal	0.26	0.02	0.24			Today		27/5/26 Sheet 2 of 2 E16 - F16 SAME G16 - H16 Changed		
K13			Full	Coal	0.26	0.02	0.24			Previous	8			
J14			Full	Coal	0.26	0.02	0.24			Total to Date				
J12			Full	Soft	0.26	0.02	0.24			GROUTING CREW / EQUIPMENT				
										SAME				
										I CONFIRM THIS IS A TRUE RECORD				
										VAN ELLE NAME:				
										VAN ELLE SIGNATURE:				
9	TOTAL HOLES GROUTED TODAY			TODAY'S TOTAL GROUT	2.34	0.18	2.16			CLIENT'S NAME:				
50	PREVIOUS TOTAL			PREVIOUS TOTAL	20.28	1.56	18.72			CLIENT'S SIGNATURE:				
59	TOTAL TODATE			TOTAL GROUTING	22.62	1.74	20.88			DATE: 29/5/26				

Daily & Accumulative Grouting Return

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Job No. 243358 | Site: Griffin Close | Date: 9/6/26 | Sheet 1 of 2

HOLE REF.	DEPTH (m)	PRESSURE (BAR)	FULL / ST	BRIEF LOG OF HOLE	QUANT OF GROUT (T)	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
M3			Full	Coal	0.26	0.02	0.24		
M5			Full	Coal	0.26	0.02	0.24		
M7			Full	Coal	0.26	0.02	0.24		
M9			Full	Coal	0.26	0.02	0.24		
N4			Full	Soft	2.60	0.20	2.40		
N6			Full	Coal	0.26	0.02	0.24		
N8			Full	Coal	0.26	0.02	0.24		
O5			Full	Soft	2.60	0.20	2.40		
O7			Full	Coal	0.26	0.02	0.24		
P4			Full	Soft	2.60	0.20	2.40		
P6			Full	Coal	0.26	0.02	0.24		
P8			Full	Coal	0.26	0.02	0.24		
Q5			Full	Soft	2.60	0.20	2.40		
13	TOTAL HOLES GROUTED TODAY			TODAY'S TOTAL GROUT	12.74	0.98	11.76		
59	PREVIOUS TOTAL			PREVIOUS TOTAL	22.62	1.74	20.88		
72	TOTAL TODATE			TOTAL GROUTING	35.36	2.72	32.64		

	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
Today's Deliveries	6 no	38 no		
Previous Deliveries	5 no	38 no		
Total Deliveries	11 no	76 no		
Total Used				
Stock on Site				

CUBES TAKEN	
Today	
Previous	8
Total to Date	

FLOW & BLEED RESULTS / OTHER REMARKS

Flow 460 Bleed two 10ml/946

GROUTING CREW / EQUIPMENT

Soft

I CONFIRM THIS IS A TRUE RECORD

VAN ELLE NAME: [signature]

VAN ELLE SIGNATURE: [signature]

CLIENT'S NAME: S. WESTON

CLIENT'S SIGNATURE: [signature]

DATE: 9/6/26

Daily & Accumulative Grouting Return

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Job No. 243358 | Site: Griffin Close | Date: 9/6/24 | Sheet of

HOLE REF.	DEPTH (m)	PRESSURE (BAR)	FULL / ST	BRIEF LOG OF HOLE	QUANT OF GROUT (T)	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
Q7			Full	Soft	3.90	0.30	3.60		
R6			Full	Cock	0.26	0.02	0.24		
R8			Full	Cock	0.26	0.02	0.24		
S5			Full	Cock	0.26	0.02	0.24		
S7			Full	Cock	0.26	0.02	0.24		
R4			Full	Soft	3.90	0.30	3.60		
V1			Full	Cock	0.26	0.02	0.24		
X1			Full	Cock	0.26	0.02	0.24		
U2			Full	Cock	0.26	0.02	0.24		
W2			Full	Cock	0.26	0.02	0.24		
Y2			Full	Cock	0.26	0.02	0.24		
T3			Full	Cock	0.26	0.02	0.24		
V3			Full	Cock	0.26	0.02	0.24		
13	TOTAL HOLES GROUTED TODAY			TODAY'S TOTAL GROUT	10.66	0.82	9.84		
72	PREVIOUS TOTAL			PREVIOUS TOTAL	35.36	2.72	32.64		
85	TOTAL TODATE			TOTAL GROUTING	46.02	3.54	42.48		

	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
Today's Deliveries				
Previous Deliveries				
Total Deliveries				
Total Used				
Stock on Site				

CUBES TAKEN		FLOW & BLEED RESULTS / OTHER REMARKS
Today		SAME
Previous		
Total to Date		

GROUTING CREW / EQUIPMENT

SAME

I CONFIRM THIS IS A TRUE RECORD

VAN ELLE NAME: D. Ryan

VAN ELLE SIGNATURE:

CLIENT'S NAME: S. Weston

CLIENT'S SIGNATURE:

DATE: 9/6/24

Daily & Accumulative Grouting Return

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Job No. 243358				Site: Griffin Close			Date: 9/6/26				Sheet 3 of			
HOLE REF.	DEPTH (m)	PRESSURE (BAR)	FULL / ST	BRIEF LOG OF HOLE	QUANT OF GROUT (T)	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)		OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
X3			Full	Cont	0.26	0.02	0.24			Today's Deliveries				
U4			"	Cont	0.26	0.02	0.24			Previous Deliveries				
W4			"	Cont	0.26	0.02	0.24			Total Deliveries				
Y4			"	Cont	0.26	0.02	0.24			Total Used				
T5			"	Cont	0.26	0.02	0.24			Stock on Site				
V5			"	Cont	0.26	0.02	0.24			CUBES TAKEN		FLOW & BLEED RESULTS / OTHER REMARKS		
X5			"	Cont	0.26	0.02	0.24			Today				
U6			"	Cont	0.26	0.02	0.24			Previous				
W6			"	Cont	0.26	0.02	0.24			Total to Date				
Y6			"	Cont	0.26	0.02	0.24			GROUTING CREW / EQUIPMENT				
T7			"	Cont	0.26	0.02	0.24							
V7			"	Cont	0.26	0.02	0.24			I CONFIRM THIS IS A TRUE RECORD				
*X7			"	Cont	0.26	0.02	0.24			VAN ELLE NAME: D. Black				
13	TOTAL HOLES GROUTED TODAY			TODAY'S TOTAL GROUT	3.38	0.26	3.12			VAN ELLE SIGNATURE:				
85	PREVIOUS TOTAL			PREVIOUS TOTAL	46.02	3.54	42.48			CLIENT'S NAME: S. Weston				
98	TOTAL TODATE			TOTAL GROUTING	49.40	3.80	45.60			CLIENT'S SIGNATURE:				
										DATE: 9/6/26				

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Job No. 243358 | Site: Griffin Close | Date: 10/6/24 | Sheet of

HOLE REF.	DEPTH (m)	PRESSURE (BAR)	FULL / ST	BRIEF LOG OF HOLE	QUANT OF GROUT (T)	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
* L18			Full	Coal	0.26	0.02	0.24		
* L08			Full	Coal	0.26	0.02	0.24		
* Y8			Full	Coal	0.26	0.02	0.24		
* T6			Full	Coal	0.26	0.02	0.24		
* V11			Full	Coal	0.26	0.02	0.24		
L10			Full	Coal	0.26	0.02	0.24		
L12			Full	Coal	0.26	0.02	0.24		
G7			Full	Broken Ground	1.30	0.10	1.20		
I13			Full	Broken Ground	1.30	0.10	1.20		
* I15			Full	Broken Ground	2.60	0.20	2.40		
V9			Full	Soft	1.30	0.10	1.20		
X9			Full	Soft	1.30	0.10	1.20		
U10			Full	Soft	1.30	0.10	1.20		
13	TOTAL HOLES GROUTED TODAY			TODAY'S TOTAL GROUT	10.92	0.84	10.08		
98	PREVIOUS TOTAL			PREVIOUS TOTAL	49.40	3.80	45.60		
111	TOTAL TODATE			TOTAL GROUTING	60.32	4.64	55.68		

	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
Today's Deliveries				
Previous Deliveries				
Total Deliveries				
Total Used				
Stock on Site				

CUBES TAKEN		FLOW & BLEED RESULTS / OTHER REMARKS
Today		Flow Bleed 1.50
Previous	8	460 1000 FSE
Total to Date		

GROUTING CREW / EQUIPMENT

Same

I CONFIRM THIS IS A TRUE RECORD

VAN ELLE NAME: D. Blow

VAN ELLE SIGNATURE:

CLIENT'S NAME: S. Weston

CLIENT'S SIGNATURE:

DATE: 10/6/24

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Job No. 243358				Site: Griffin Close			Date: 10/6/26				Sheet 2 of 2			
HOLE REF.	DEPTH (m)	PRESSURE (BAR)	FULL / ST	BRIEF LOG OF HOLE	QUANT OF GROUT (T)	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)		OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
Y10			Full	Soft	1.30	0.10	1.20			Today's Deliveries				
T11			Full	Soft	1.30	0.10	1.20			Previous Deliveries				
T13			Full	Soft	1.30	0.10	1.20			Total Deliveries				
U12			Full	Soft	1.30	0.10	1.20			Total Used				
U14			Full	Soft	1.30	0.10	1.20			Stock on Site				
V13			Full	Soft	1.30	0.10	1.20			CUBES TAKEN		FLOW & BLEED RESULTS / OTHER REMARKS		
S14			Full	Soft	1.20	0.10	1.20			Today		SAME		
R13			Full	Soft	1.30	0.10	1.20			Previous				
										Total to Date				
										GROUTING CREW / EQUIPMENT				
										SAME				
										I CONFIRM THIS IS A TRUE RECORD				
										VAN ELLE NAME: D. Brown				
										VAN ELLE SIGNATURE:				
8	TOTAL HOLES GROUTED TODAY			TODAY'S TOTAL GROUT	10.40	0.80	9.60			CLIENT'S NAME: S. Weston				
111	PREVIOUS TOTAL			PREVIOUS TOTAL	60.32	4.64	55.68			CLIENT'S SIGNATURE:				
119	TOTAL TODATE			TOTAL GROUTING	70.72	5.44	65.28			DATE: 10/6/26				

Think Safe Act Safe

Daily & Accumulative Grouting Return

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Job No. 243358 | Site: Griffin Close | Date: 11/6/26 | Sheet 1 of 2

HOLE REF.	DEPTH (m)	PRESSURE (BAR)	FULL / ST	BRIEF LOG OF HOLE	QUANT OF GROUT (T)	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
O12			Full	Coal	0.26	0.02	0.24		
O14			"	Coal	0.26	0.02	0.24		
Q12			"	Soft	1.30	0.10	1.20		
W14			"	Coal	0.26	0.02	0.24		
Y12			"	Soft	1.30	0.10	1.20		
Y14			"	Soft	1.30	0.10	1.20		
X13	X11		"	Soft	1.30	0.10	1.20		
AA14			"	Soft	1.30	0.10	1.20		
F9			"	Coal	0.26	0.02	0.24		
		SHAFT Holes							
A	11m	2 Bar			0.22	0.02	0.20		
B	11m	2 Bar			0.22	0.02	0.20		
	All	Pressured up to 2m Pulls from 6m							
12	TOTAL HOLES GROUTED TODAY			TODAY'S TOTAL GROUT	7.98	0.62	7.36		
119	PREVIOUS TOTAL			PREVIOUS TOTAL	70.72	5.44	65.28		
131	TOTAL TODATE			TOTAL GROUTING	78.70	6.08	72.64		

	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
Today's Deliveries				
Previous Deliveries				
Total Deliveries				
Total Used				
Stock on Site				

CUBES TAKEN	
Today	8
Previous	8
Total to Date	16

FLOW & BLEED RESULTS / OTHER REMARKS

Bleed 100% Flow 450

GROUTING CREW / EQUIPMENT

Shaft 10-1 Mix
Grid 12-1 Mix

I CONFIRM THIS IS A TRUE RECORD

VAN ELLE NAME: D. Brown

VAN ELLE SIGNATURE:

CLIENT'S NAME: S. Weston

CLIENT'S SIGNATURE:

DATE: 11/6/26

Daily & Accumulative Grouting Return

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Job No. 243358 | Site: Griffin Close | Date: 11/6/26 | Sheet 2 of 2

HOLE REF.	DEPTH (m)	PRESSURE (BAR)	FULL / ST	BRIEF LOG OF HOLE	QUANT OF GROUT (T)	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
TH1	25m	2 BAR	Full	Soft	0.26	0.02	0.24		
TH2	25m	2 BAR	Full	Soft	0.26	0.02	0.24		
TH3	25m	2 BAR		Soft	0.26	0.02	0.24		
TH4	25m	2 BAR		Soft	0.26	0.02	0.24		
4	TOTAL HOLES GROUTED TODAY			TODAY'S TOTAL GROUT	1.04	0.08	0.96		
132	PREVIOUS TOTAL			PREVIOUS TOTAL	78.70	6.08	72.64		
136	TOTAL TODATE			TOTAL GROUTING	79.74	6.16	73.54		

	OPC (T)	PFA (T)	SAND (T)	GRAVEL (T)
Today's Deliveries				
Previous Deliveries				
Total Deliveries				
Total Used				
Stock on Site				

CUBES TAKEN	
Today	
Previous	16
Total to Date	

FLOW & BLEED RESULTS / OTHER REMARKS

SAME

GROUTING CREW / EQUIPMENT

SAME

I CONFIRM THIS IS A TRUE RECORD

VAN ELLE NAME: D Bacon

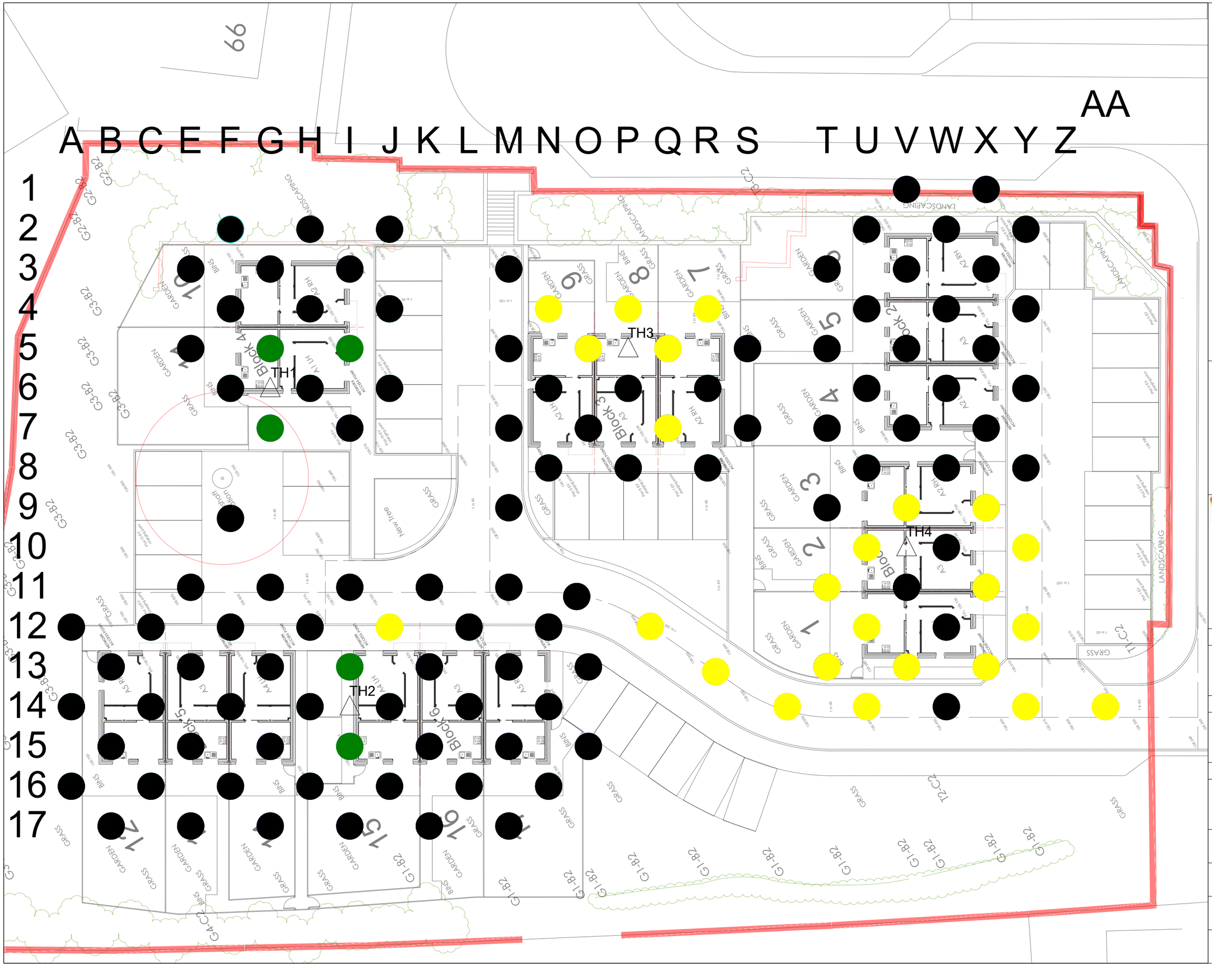
VAN ELLE SIGNATURE:

CLIENT'S NAME: S. Weston

CLIENT'S SIGNATURE:

DATE: 11/6/26

Appendix 4:
Drilling Summary



NOTES:

- Coal
- Soft
- Broken Ground
- Test Holes

REVISION NOTES:

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Van Elle Limited
Summit Close
Kirkby in Ashfield
Nottinghamshire
NG17 8GJ

Tel: 01773 580580

CLIENT:

Thomas Armstrong (Construction) Ltd

CONTRACT:

Griffin Close

DRAWING TITLE

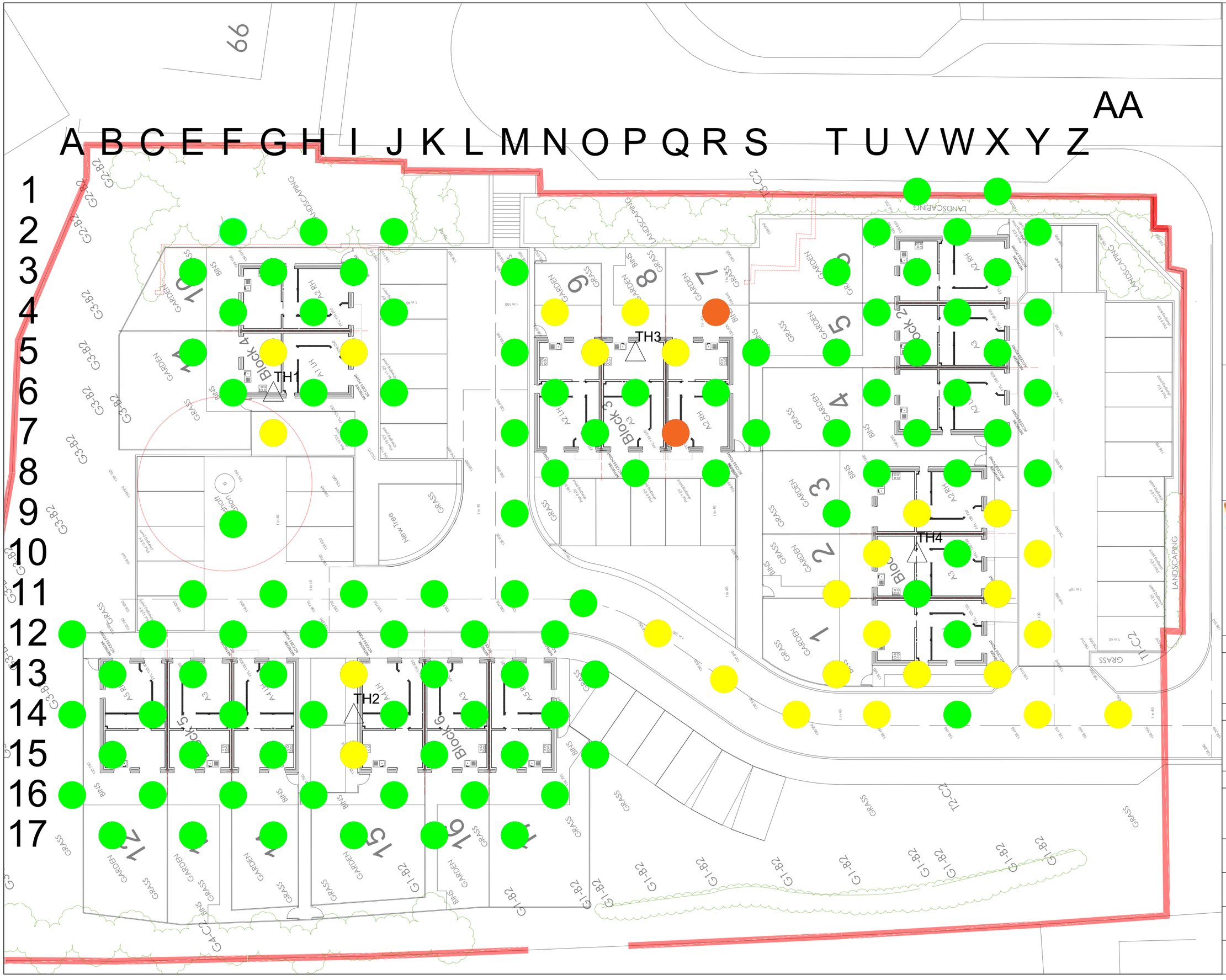
Drilling Summary

DATE: 17/07/2026

DRAWN BY: SP	CHECKED BY: PG
SCALE: NTS	SHEET SIZE: A3

DRAWING NO: 243358VEDS | REV: -

Appendix 5:
Grouting Summary



NOTES:

- Grout take < 1T
- 1T ≤ GT < 3T
- 3T ≤ GT < 5T
- GT ≥ 5T
- Test Hole

REVISION NOTES:

VAN ELLE
TOTAL FOUNDATION SOLUTIONS

Van Elle Limited
Summit Close
Kirkby in Ashfield
Nottinghamshire
NG17 8GJ

Tel: 01773 580580

CLIENT:

Thomas Armstrong (Construction) Ltd

CONTRACT:

Griffin Close

DRAWING TITLE

Grouting Summary

DATE: 17/07/2026

DRAWN BY: SP	CHECKED BY: PG
SCALE: NTS	SHEET SIZE: A3

DRAWING NO: 243358VEGS | REV: -

Appendix 6:

Coal Authority Permit & Closure Form

Permit to enter or disturb Mining Remediation Authority interests

Permit number: 31496

Site Location:

Griffin Close, Frizington, Cumbria, CA26 3SH

Name and Address of Permit Holder:

Home Group Limited, One Strawberry Lane, Newcastle Upon Tyne, , NE1 4BX

This certificate hereby grants the above named Permit Holder a Permit to carry out:
Treatment of shallow mine workings by drilling and grouting to 25m on 4.25m grid, probe drilling and treatment by grouting of one mine entry (303517-006)
within the Mining Remediation Authority's interests at the identified site location above as shown on the Granted Permit Boundary (overleaf) for the period of **12 months** from the granted date shown below. *The granting of this Permit does not constitute advice given by the Mining Remediation Authority in relation to the proposed operations. It is the Permit Holder's responsibility to obtain appropriate health, safety, environmental, technical and legal advice.*

Conditions:

- Manned entry (i.e., into mine entries/workings) is **strictly prohibited**.
- Water flush
- Gas Monitoring (i.e., CO, CH4, CO2, O2, H2S) at borehole and rig
- Operators undertaking the work must be in possession of this certificate and the Permit boundary plan at the time of works
- Appropriate borehole sealing without delay and to withstand site level changes

Pre-operational Conditions

Following your proposed works, you are required to provide the Authority with the results of your treatment together with the proposed specification for any capping, for comment and approval, prior to treatment works commencing.

Signed: Helen Day **Permit Granted Date:** *12 May 2026*

Permit Expiry Date: *12 May 2027*

For and on behalf of the Mining Remediation Authority
Nominated Representative: Helen Day Permitting Manager.
Mining Remediation Authority, Permitting Office, 200 Lichfield Lane, Mansfield, Notts, NG18 4RG. Tel: 01623 637450;
E-Mail: LicensingAndPermissions@MiningRemediation.gov.uk

Mining Remediation Authority

Granted Permit Boundary

Permit number: 31496

Permit boundary:

Mining Remediation Authority

Permit Closure Summary Form

Permit Ref.	31496	Project / Site Location	Griffin Close, Frizington, Cumbria, CA26 3SH

Please supply all relevant documents, including this completed form within 3 months of the permitted works being completed.

Where relevant the report should include; borehole logs and details of mine or mine entry treatment works carried out (incl. engineering drawings, grout takes etc.) and a scaled site layout plan (correlated to O.S N' Grid) showing all relevant mine entry positions, coal seams, voids and broken ground proved by the works.

Summary of works **Start date** 18.5.2026 **Finish date** 12.6.2026

Have any variations occurred? ☒ No ☐ Yes **If so was the Authority notified?** ☒ No ☐ Yes

Please describe;
No variations on site

Did if any of the following incidents occur?

☐ Spontaneous combustion ☐ Water emission ☐ Gas emission (elevated or above action levels)
☐ Geotechnical instability ☐ Legal issues incl. damage or potential claims ☒ **None**

If yes, please detail each item;

Were any of the following encountered? Please give a brief summary of the works undertaken.

☒ Intact coal only ☐ Broken ground ☐ Backfilled ground ☐ Voids

Description;

In total 130 treatment boreholes were drilled to an average depth of 25m beow ground level.

Shallow workings were identified as soft / broken ground in 28% of holes, 72% solid coal

80 probe holes drilled to find shaft 303517-006m - not found

All boreholes grouted with a cementitious grout - 80 tons in total

Will further works be necessary that require a Permit? ☒ No ☐ Yes

If yes, please describe, including any recommendations;

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Company: Van Elle Limited	Tel: [redacted]