Abbeydale
Building Environment Consultants

DRILLING AND GROUTING VALIDATION REPORT

A635 BARNSLEY ROAD, GOLDTHORPE, BARNSLEY, SOUTH YORKSHIRE

Report: 151089-DGV

Date: July 2023

Client:
Barnsley Metropolitan Borough Council
Westgate Plaza 1
Barnsley
South Yorkshire
S70 9FA

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DRILLING AND GROUTING VALIDATION REPORT

New roundabout off A635 Barnsley Road, Goldthorpe

DOCUMENT VERIFICATION SHEET

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DRILLING AND GROUTING VALIDATION REPORT

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1. INTRODUCTION

On the instruction of Barnsley Metropolitan Borough Council (BMBC), Abbeydale BEC were commissioned to undertake validation of drilling and grouting works to stabilise shallow mine workings beneath a parcel of land off of the A635 Barnsley Road, near Goldthorpe, Barnsley, in South Yorkshire.

The site is situated on the west side of Goldthorpe, centred on National Grid Reference 444324, 404048, occupying an area of around 2.0 ha. See Figure 1.

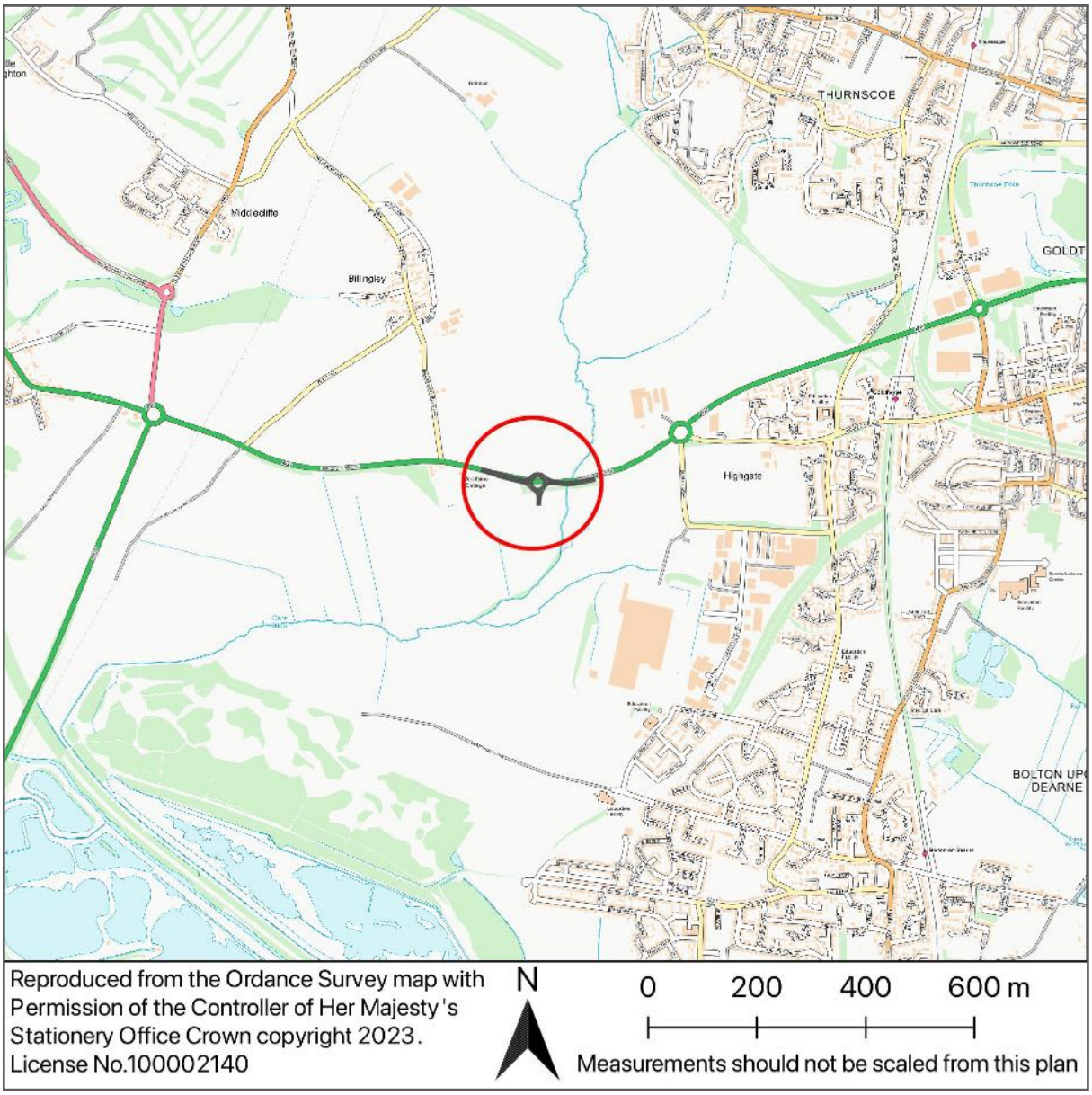


FIGURE 1 - LOCATION PLAN

This report was produced on behalf of our client, Barnsley Metropolitan Borough Council (BMBC), and their advisors and financiers; it should not be relied upon or transferred to any other parties without the express written authorisation of Abbeydale BEC and our client. If any other unauthorised third party comes into possession of this report they rely on it at their own risk and the authors owe them no duty of care or skill.

The comments and recommendations given in this report are based on the findings of a review of available information; ground conditions and grout takes encountered during the drilling and grouting works and previous investigation / assessment information included two previously prepared Abbeydale BEC reports for the site:

- Phase 2 Ground Investigation report, Ref: 151089GI, dated November 2021.
- Drilling & Grouting Specification report, Ref: 151089DG-2, dated October 2022.

When writing this report the proposed development was for a new a new roundabout along the existing A635 Barnsley Road highway, and supporting embankments, with ground level in the north of the site to be reduced into the hillside topography and levels to the south to be raised and supported by an embankment. If there are changes to these proposals then some modification to the comments and recommendations given may be required. The proposed site layout is shown on the site plan in Appendix A.

2. OBJECTIVES

This report has been undertaken to record the works undertaken in relation to the treatment of shallow mine workings workings beneath the proposed new roundabout, and confirm that the treatment works were in accordance with the previously agreed Drilling and Grouting specification report.

The drilling and grouting works were undertaken to consolidate any remaining voids in the underlying shallow mine workings, to negate the potential for future collapse that may otherwise propagate through the overlying bedrock sequence and cause settlement at the surface of the site.

Drilling and grouting works were undertaken by Soil Engineering Geoservices Ltd, appointed directly by the client, with Abbeydale BEC acting as Validation Engineers for the client and overseeing the drilling and grouting works.

3. THE SITE

The new roundabout is proposed along a section of the existing A635 Barnsley Road highway to the west of Carr Dike and Billingley Bridge, see Figure 2.

Undeveloped fields are present to the north and south of the existing highway and proposed new roundabout, both of which are currently being used to grow agricultural crops. The field on the north side of the A635 Barnsley Road is at a slightly higher

elevation than road level, with the generally topography of the area sloping gently from north-west to south-east.

At the time of the drilling and grouting a belt of semi-mature woodland had been removed to the south of the existing highway to create a compound area and as part of enabling works. With ground levels falling to the south-east the level of the resultant earthworks formation is estimated to be around 2.00m to 2.50m lower than road level.

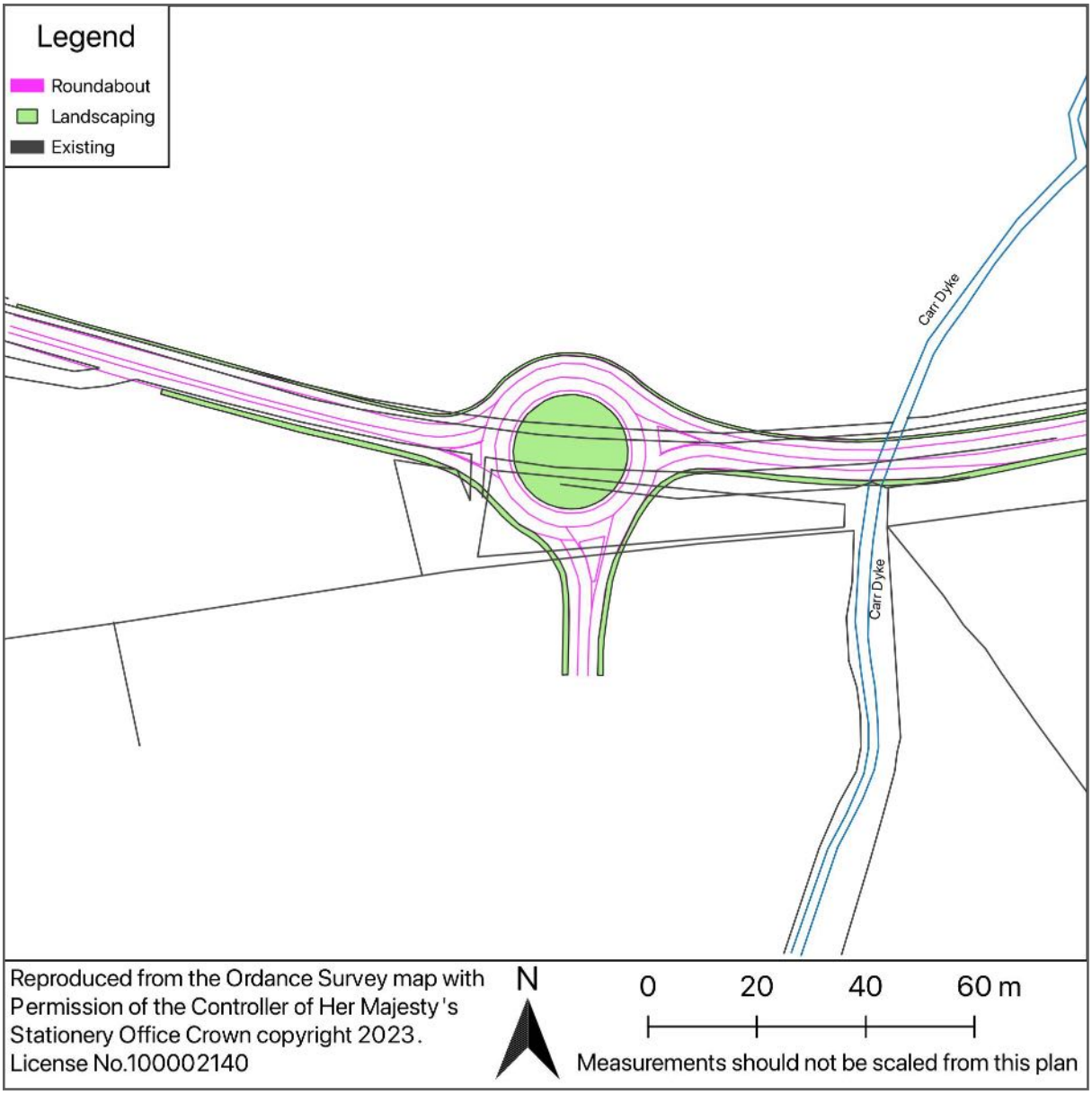


FIGURE 2 - SITE PLAN

Carr Dike runs roughly north to south on the eastern section of the site; flowing in a southerly direction, passing beneath A635 Barnsley Road in a culvert. As part of the construction of the new roundabout we understand that the alignment of the existing culvert may need to be adjusted. The proposed roundabout will tie in to the existing road alignment to the east and west, with 2.00m wide grassed verges proposed along the outer extent of most of the new roundabout, and a 3.00m wide cycleway

proposed along the northern side of the new roundabout. An access road will feed off the south of the new roundabout into the lower fields to the south of the existing A635 highway.

The footprint of the proposed roundabout had been cleared on the north side of the existing highway to enable the drilling and grouting works to be undertaken, with the excavation battered back at the northern extent to support higher ground levels as the topography rises gently to the north.

4. METHOD STATEMENT

The presence of shallow mine workings in the Shafton Coal was previously identified on the site during the ground investigation works at the site, which needed to be treated to reduce the potential for collapse of shallow workings adversely affecting the stability of the proposed roundabout.

Subsequently a Drilling and Grouting Specification report, Ref: 151089DG-2, dated October 2022 was produced to outline the approach to the drilling and grouting works, in accordance with CIRIA C758D:2019. Drilling. An initial 6m x 6m grid of primary grout holes was set out, which were to be infilled on a 3m x 3m secondary grouting grid where shallow mine workings were encountered or where within the vicinity of shallow mine workings, to substantially fill any remaining voids within the shallow mine workings identified; see Figure 3.

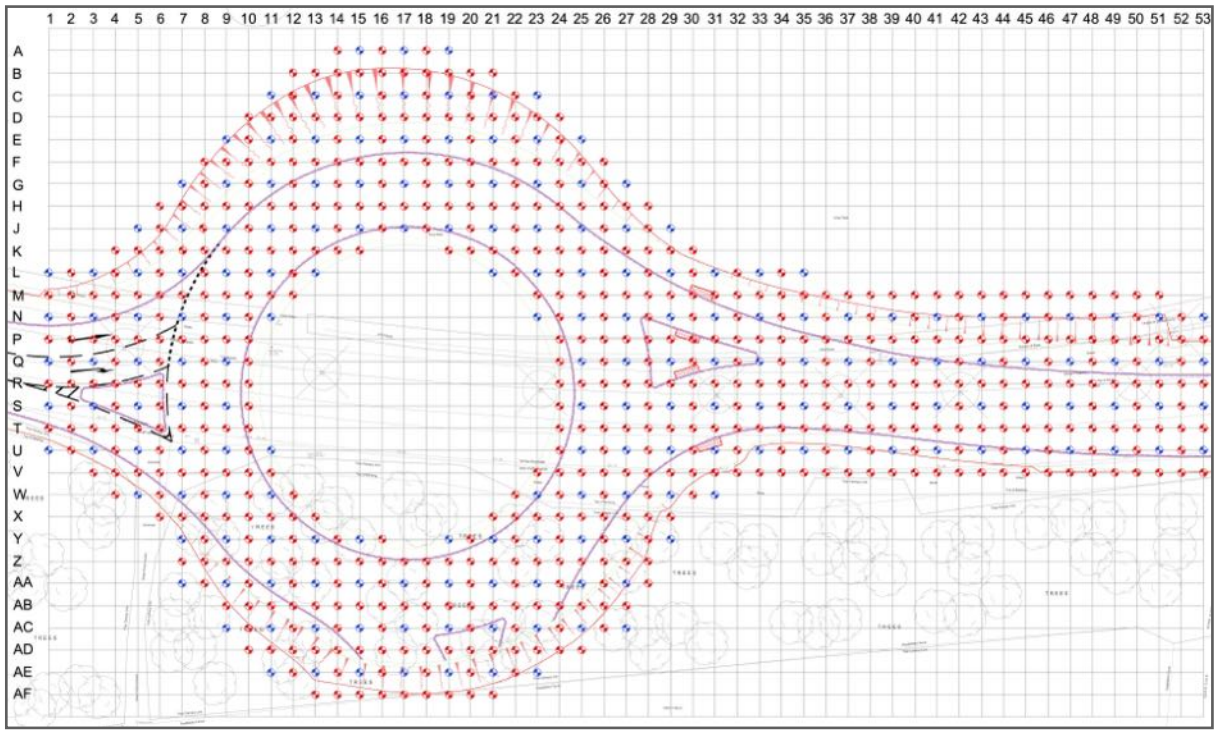


FIGURE 3 - PROPOSED DRILLING AND GROUT GRID

The grout mix was scheduled to be a 1:10 ratio of Ordinary Portland cement (OPC) to pulverised fuel ash (PFA), mixed using water in to produce a homogeneous mix.

In accordance with the permit to drill agreed with The Coal Authority, all of the holes were drilled using water flush. Holes were to be drilled to at least 1m below the coal seam or associated mine workings, and then grouted.

5. SITE WORK

5.1. Sequence of Drilling and Grouting

The drilling and grouting works were undertaken as part of the initial phase of construction works, following initial site clearance and preparatory works, prior to raising ground levels and placement of unbound foundation layers for the new roundabout.

The treatment works commenced on Tuesday 2 February 2023; due to the requirement to keep the existing highway open during the drilling and grouting operations, works initially commenced on the south side of the existing highway. This phase of works were completed by 23 March 2023 when the contractor demobilised from site until 11 April 2023 when the plant and equipment was remobilised to site to carry out treatment works on the north side of the highway.

Drilling and grouting on the north side of the highway was completed by 9 May 2023 when the contractor began demobilising from site following completion of the treatment works.

Eleven validation holes were drilled and grouted at locations specified by the Abbeydale BEC Geotechnical Engineer. The holes were drilled and pressure grouted on the same day; TH03 and TH04 were drilled and grouted on Thursday 16 March 2023, TH05 and TH06 on Friday 17 March 2023, TH01 and TH02 on Monday 20 March 2023 and latterly TH07 to TH11 on Tuesday 9 May 2023, after which the drilling and grouting plant was demobilised from site.

5.2. Site Supervision

An Abbeydale BEC Geotechnical Engineer attended site on a part-time basis throughout the course of the drilling and grouting operations, to ensure that the works were progressing in a satisfactory manner and complied with the technical requirements of the Drilling and Grouting Strategy.

As part of the Drilling and Grouting Strategy the drilling and grouting contractor, Soil Engineering Geoservices Ltd, were required to provide daily records throughout the drilling and grouting works, including daily and cumulative totals for the drilling meterage and quantities of grout injected. The daily drillers logs are included as Appendix B and daily grouting record are given in Appendix C.

5.3. Extent of Grouting Works

A total of 585 holes were drilled across the footprint of the proposed new roundabout, on either a 3m x 3m grid where workings were encountered, or a 6m x 6m spaced grid where no workings were encountered or in areas of former

opencast workings. In addition, eleven validation holes were undertaken, totalling 596 boreholes.

The extent of the grouting works was confined to the footprint of the proposed new roundabout and no drilling or grouting was undertaken in close proximity to the existing culvert at the eastern side of the scheme due to the potential for causing movement or instability of the existing structure.

5.4. Validation Holes

To confirm that the shallow mine workings beneath the proposed roundabout footprint had been substantially filled, eleven validation holes; labelled as 'test holes' by Soil Engineering (TH01 to TH11) were undertaken at locations specified by the ABEC Geotechnical Engineer.

The validation holes targeted areas were the highest grout takes were encountered, to provide a spread of validation holes where signs of shallow workings had been identified.

The validation holes were pressure grouted to 2 bars of pressure to ensure that voids in the shallow workings had been substantially filled. The validation holes were immediately grouted following drilling and confirmed to have remained open to the full depth of the validation holes.

5.5. Grout Mixing & Testing

As per the Drilling & Grouting Strategy the grout was a 1:10 ratio mix of Ordinary Portland Cement (OPC): pulverised fuel ash (PFA), the PFA being delivered in bulk loads of 20 tonnes per load, and was ordered as required throughout the drilling and grouting operations.

Mixes were produced using a paddle mixer, PFA was loaded into the mixer using a hopper and cement was loaded from bags. Water was used to mix the grout and produce a flowable grout for pumping into the drill holes.

To confirm that the grout achieved the minimum 0.7 N/mm^2 at 28 days, three cube tests were taken each day throughout the course of the grouting works. The grout cube testing certificates are provided in Appendix D.

6. FINDINGS OF DRILLING AND GROUTING WORKS

6.1. General

All drilling and grouting was recorded by Soil Engineering. Using the contractor's daily records the total drilling meterage for all of the holes, including validation holes, was 9,374.50m, with 391 tonnes of grout injected across all of the holes.

6.2. Distribution of Shallow Workings

From the findings of the drilling works a high proportion of the grid holes recorded intact coal, particularly in the north of the site from grid row H

northwards, and also along the eastern limb of the new roundabout. The footprint of the former opencast working was noted to extend up to the southern side of the new roundabout, with the majority of other holes recording either soft ground or broken ground indicative of shallow mine workings; see Figure 4.

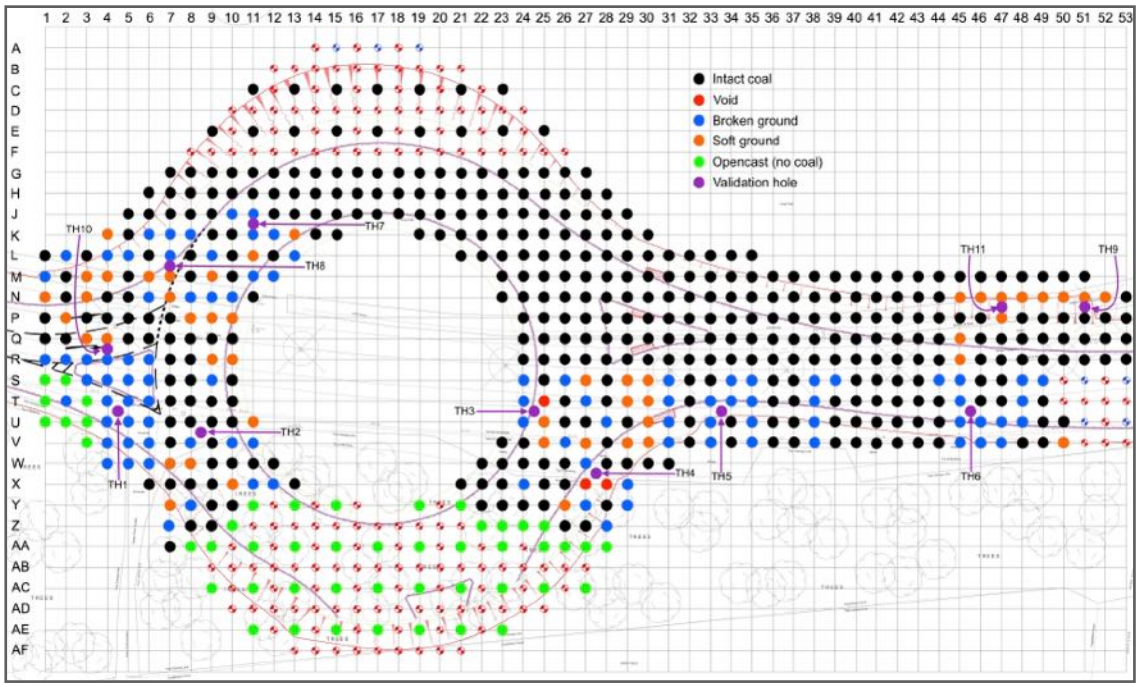


FIGURE 4 - DISTRIBUTION OF WORKINGS ENCOUNTERED

The largest cluster of shallow mine workings was recorded off the western limb of the roundabout where a large area of broken ground and soft ground was noted during the drilling works.

6.3. Grout Takes

The grout takes were generally very low, with the grid holes recording intact coal only taking minimal amounts of grout, and other holes generally taking less than 0.5 tonnes of grout, including in the area of the former opencast workings in the south of the site. Higher grout takes were noted in some of the grid holes where broken ground was recorded. For ease of reference the recorded grout takes are summarised on Figure 5.

Most of the grout takes covering the northern and eastern part of the proposed roundabout, where intact coal was recorded, only took 0.042 tonnes to fill up. Grout takes increased in the north-west where shallow mine workings were identified, particularly towards the west of the roundabout, with several of the grid holes recording grout takes of more than 7 tonnes, with a maximum grout take of 28.373 tonnes in K8, with large grout takes also recorded in adjacent grid holes K7 and K6.

The validation holes did not record any excessive grout takes to suggest that any additional drilling or grouting works were required in the vicinity of the validation

holes, with a maximum grout take of 0.38 tonnes across all of the validation holes undertaken.

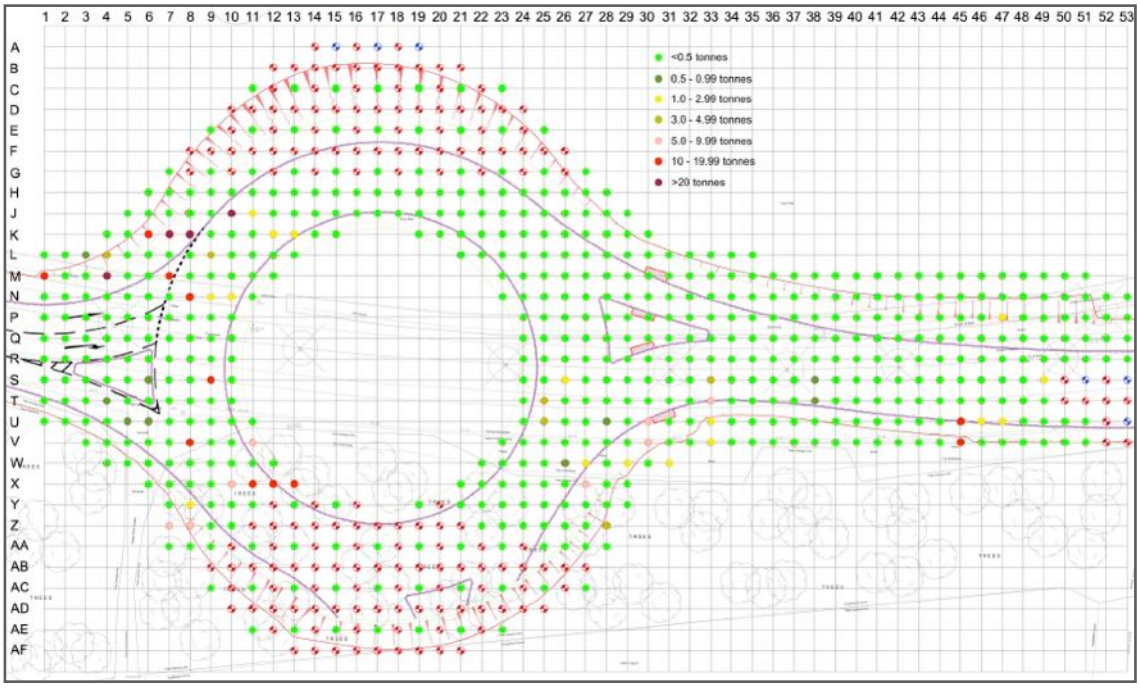


FIGURE 5 - RECORDED GROUT TAKES (TONNES)

7. CONCLUSION

We can therefore conclude that the drilling and grouting works undertaken have substantially filled any remaining voids in the underlying shallow mine workings beneath the proposed new roundabout and that the roundabout can be constructed as proposed.

APPENDIX A - PROPOSED LAYOUT DRAWINGS

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DO NOT SCALE

NOTES

GENERAL NOTES

a. THE TOPOGRAPHICAL SURVEY IS BASED ON INFORMATION PRODUCED BY HH SURVEYS, DRAWING NO. BAB/5211/SP, DATED 18 JUNE 2019. THE INFORMATION USED IN PREPARATION OF THIS AND ALL OTHER TOPOGRAPHICAL BASED DRAWINGS IS NOT WARRANTED TO BE CORRECT AND RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SURVEY INFORMATION PROVIDED AND REPORT ANY ANOMALIES TO FORE CONSULTING.

DESIGN NOTES

1. ALL DESIGN AND WORKS TO COMPLY WITH CURRENT VERSION OF THE FOLLOWING DOCUMENTS:
   - DESIGN MANUAL FOR ROADS AND BRIDGES (DMRB);
   - SPECIFICATION FOR HIGHWAY WORKS (SHW);
   - MANUAL FOR STREETS (MfS); AND
   - BARNSLEY METROPOLITAN BOROUGH COUNCIL (BMBC) DESIGN GUIDE AND SPECIFICATION.
2. ~~FOOTPATH GRADIENT AT TACTILE PAVING TO BE A MAXIMUM OF 1:12.~~
3. EXISTING FENCES, VERGES/SHUBBERY, FOOTWAY, AND OTHER PHYSICAL FEATURES TO BE REMOVED WITHIN THE AREA OF WORKS.
4. ALL KERBS TO BE HB2, EXCEPT DROPPED KERBS AT PEDESTRIAN CROSSING.
5. ALL IRONWORK WITHIN EXTENT OF WORKS TO BE LOWERED / RAISED AS REQUIRED.
6. ALL PROPOSED ROAD MARKINGS TO BE IN ACCORDANCE WITH THE FOLLOWING:
   - TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS (TSRGD);AND
   - TRAFFIC SIGNS MANUALS CHAPTER 5 - ROAD MARKINGS.
7. A635 DESIGN SPEED: 60mph
   PROPOSED ROAD ACCESS: 30mph
8. EARTHWORKS SLOPES TO BE MAXIMUM 1:3.
9. CHANNEL BLOCKS TO BE INSTALLED ALONG ALL THE NEW KERBS.

KEY

- CARRIAGEWAY
- FOOT/CYCLEWAY
- BLOCK PAVING
- GRASS VERGE

REV	DESCRIPTION	DATE	BY
B	CHANGES FOLLOWING COMMENTS	22.07.21	ML
A	CHANGES FOLLOWING COMMENTS	19.07.21	ML

Client:
HOYLAND DEVELOPMENTS LIMITED

Project
PROPOSED ROUNDABOUT A635
GOLDTHORPE

Drawing Title
GENERAL ARRANGEMENT

FOR COMMENT

Fore Consulting Limited
1st Floor, 15 St Paul's Street
Leeds
LS1 2JG
0113 2460204
enquiries@foreconsulting.co.uk
www.foreconsulting.co.uk

Drawn by	Checked by	Issue Date	Scale	Format
ML	PI	01.07.2021	1:500	A0

Job Number	Drawing Number	Revision
3465	100-SK-001	B

File name: E:\3465 Employment Site Goldthorpe\3465-100-SK-001-B GENERAL ARRANGEMENT.dwg Plot date: 22 July 2021 14:12:22

APPENDIX B - CONTRACTOR'S DRILLING RECORDS

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water	
Project No.	TD8510		Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd		Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council		Date	23/02/23	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (✓)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
AE 11		✓	GL	11	O/B		11	
			11	12	S/S			
			12	21	M/S	FWR		
AE 13		✓	GL	11	O/B		11	
			11	12	S/S			
			12	21	M/S	FWR		
AE 15		✓	GL	10.5	O/B		11	
			10.5	11.5	S/S			
			11.5	21	M/S	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. ANSON	Signature: Jason Anson	For Client:
Assistant: S. CORRIGAN		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	RSL
Employer	Barnsley Metropolitan Borough Council					Date	23/2/25
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
AA17		VERT	GL	19.00	OVERBURDEN	FULL	19.00	
			19.00	21.00	MUDSTONE/SANDSTONE			
AA27		VERT	GL	9.00	OVERBURDEN	FULL	9m	
			9.00	21.00	MUDSTONE/SANDSTONE			
AA25		VERT	GL	9.50	OVERBURDEN	FULL	9.50	
			9.50	21.00	MUDSTONE/SANDSTONE			

Breakdowns	Obstructions	Standing Time
/	/	/

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: AC HARRIS	Signature:	For Client:	WATER PUMP NOT KEEPING UP WITH RIG PUMP ON RIG TURNED DOWN STOPPING WAITING TO FILL UP
Assistant: S SINCLAIR			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	SOIL ENGINEERING Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley			**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	24/02/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
AE 17		✓	GL	10	o/B		10	
			10	11	s/s			
			11	21	m/s	FWR		
AE 19		✓	GL	10	o/B		10	
			10	11.5	s/s			
			11.5	21	m/s	FWR		
AE 21		✓	GL	10	o/B		10	
			10	11.5	s/s			
			11.5	21	m/s	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. ANSON Signature: Jason Anson For Client:

Assistant: S. CORRIGAN

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	24/02/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
AE 23		✓	GL	10	d/B		10	
			10	11.5	s/s			
			11.5	21	m/s	FWR		
AE 23		✓	GL	10	d/B		10	
			10	11.5	s/s			
			11.5	21	m/s	FWR		
AE 21		✓	GL	10	d/s		10	
			10	11.0	s/s			
			11.0	21	m/s	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:	
Assistant: ~~Jason Anson~~	S. Corkigan		
Form No. SEGES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					Flush Type	Water
Project No.	TD8510		**Rotary Percussive Log Sheet**			Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	24/02/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
AC 19		✓	GL	10	O/B		10	
			10	11	S/S			
			11	21	M/S	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:	
Assistant: S. Corrigan			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510			Rig Type	SM-14
Engineer	Abbeydale BEC Ltd			Rig Number	R81
Employer	Barnsley Metropolitan Borough Council			Date	27/02/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
AZ 17		✓	GL	10	O/B		10	
			10	11	S/S			
			11	21	M/S	FWR		
AZ 15		✓	GL	10	O/B		10	
			10	11	S/S			
			11	21	M/S	FWR		
AZ 13		✓	GL	10	O/B		10	
			10	11	S/S			
			11	21	M/S	FWR		

Breakdowns	Obstructions	Standing Time
/	✓	/

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
/	/	Length — Width Depth m

Driller: J. ANSON	Signature: Jason Anson	For Client:	
Assistant: J. SEEL			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	SOIL ENGINEERING Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 27/02/23

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Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
AC 11		✓	GL	11	o/b		11	
			11	12	s/s			
			12	21	m/s	FWR		
AC 9		✓	GL	11	o/s		11	
			11	12	s/s			
			12	21	m/s	FWR		
Y21		✓	GL	10.5	o/s		16	
			10.5	11.5	s/s			
			11.5	21	m/s	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Ansell
Assistant: J. Seel
Signature: Jason Ansell
For Client:

SOIL ENGINEERING
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Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
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Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
Y19		✓	GL	11	O/B		11	
			11	12	S/S			
			12	21	M/S	FWR		
Y15		✓	GL	11	O/B		11	
			11	12	S/S			
			12	21	M/S	FWR		
Y13		✓	GL	10.5	O/B		10	
			10.5	11	S/S			
			11	21	M/S	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson
Assistant: J. Seel
Signature: Jason Anson
For Client:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R84
Employer	Barnsley Metropolitan Borough Council		Date: 27/2/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
AA 23		VERT	GL	10.00	C/S	FWR	10.00	
			10.00	21.00	MUDSTONE/SANDSTONE			
AA 21		VERT	GL	10.00	C/S	FWR	10.00	
			10.00	21.00	MUDSTONE/SANDSTONE			
AA 19		VERT	GL	10.00	C/S	FWR	10.00	
			10.00	21.00	MUDSTONE/SANDSTONE			
AA 15		VERT	GL	10.50	C/S	FWR	10.00	
			10.50	21.00	MUDSTONE/SANDSTONE			
AA 13		VERT	GL	10.50	C/S	FWR	10.50	
			10.50	21.00	MUDSTONE/SANDSTONE			
AA 11		VERT	GL	11.00	C/S	FWR	11.00	
			11.00	21.00	MUDSTONE/SANDSTONE			

Breakdowns	Obstructions	Standing Time
RESET SWITCH TRIPPING RIG DOWN FROM 12.30 . 18.00	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: ACHARY Signature: Achary For Client:

Assistant: S SINCLAIR

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley				**Rotary Percussive Log Sheet**	Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	28/03/23.
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
AC 27	AC23	39°	GL	12	O/B		12	
			12	13	M/S, S/S			
			13	30	M/S	FWR		
AC 25	AC23	22°	GL	11	O/B		12	
			11	12	M/S, S/S			
			12	25	M/S	FWR		
Y 23		✓	GL	11	O/B		12	
			11	12	COAL			
			12	21	S/S M/S	FWR		
Y 25		✓	GL	11	O/B		12	
			11	12	COAL			
			12	21	S/S, M/S	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. ANSON	Signature: Jason Anson	For Client:
Assistant: J. SEEL.		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	RS4
Employer	Barnsley Metropolitan Borough Council					Date	28-2-23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
Y 11.		✓	GL	11.00	C/S	FWR	11.00	
			11.00	21.00	MUDSTONE / SANDSTONE			
AA9		✓	GL	10.50	C/S	FWR	11.00	
			10.50	21.00	MUDSTONE / SANDSTONE			
AA7	AA7/AA9	11°	GL	3m.	C/S	FWR	3m.	
			3m.	10.00	MUDSTONE / SANDSTONE			
			10.00	11.00	COAL			
			11.00	21.00	MUDSTONE			

Breakdowns	Obstructions	Standing Time
8AM - 10AM -	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: AC HAMZEY	Signature:	For Client:	
Assistant: S SINCLAIR			

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley				**Rotary Percussive Log Sheet**	Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R84
Employer	Barnsley Metropolitan Borough Council					Date	28/2/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
S9	W9	39°	Gk	2.50	c/s	L/F	3m	
			2.50	10.00	Mudstone/ Sandstone			
			10.00	13.50	Soft/ Broken/ Ground			
			13.50	30.00	Hard/ Strata			
U9	W9	22°	Gk	3m	c/s	Full	3m	
			3m	10.50	Mudstone/ Sandstone			
			10.50	12.50	Coal.			
			12.50	23.00	Mudstone			
W7		✓	Gk	3m	c/s	P/L/F	3m	
			3m	9m	Mudstone/ Sandstone			
			9m	11.00	Soft/ Ground			
			11.00	21.00	Hard			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller:	Richard	Signature:	For Client:
Assistant:	S Sinclair		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R 84
Employer	Barnsley Metropolitan Borough Council							Date	28/2/25
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
9		VERT	GL	3m	C/S	Full	3m	
			3m.	8.50	Mudstone/Siltstone			
			8.50	11.00	Coal			
			11.00	21.00	Mudstone			
7		VERT	GL	1m	C/S	Full	3m	
			1m.	8m	Mudstone/Siltstone			
			8m	11.00	Soft Coal			
			11.00	21.00	Mudstone			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	28/03/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
W 9		V	GL	9	O/B		9	
			9	10	COAL			
			10	21	S/S M/S	FWR		
W 11		V	GL	9	O/B		9	
			9	10	COAL			
			10	21	S/S, M/S	FWR		
U 11	W11	22°	GL	3	O/B			
			3	11	S/S, M/S		4	
			11	12	SOFT	PLW		
			12	25	M/S			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. ANSON	Signature: Jason Ginsen	For Client:
Assistant: J. SEEL		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	284
Employer	Barnsley Metropolitan Borough Council					Date	1/3/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination ∠	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
W23	W/X 23	2°	GL	3m	C/B	Full	3m	
			3m	10.00	Mudstone/Sandstone			
			10.00	11.00	Coal			
			11.00	21.00	Mudstone			
T25	W25	37°	GL	3m	C/B	L/F	3m	
			3m	12.00	Mudstone/Sandstone			
			12.00	14.00	Void			
			14.00	15.00	Hard / Strata			
U25	W25	27°	GL	3m	C/B		3m	
			3m	10.50	Mudstone/Sandstone	L/F		
			10.50	13.00	Soft Ground			
			13.00	15.00	Hard Strata			

Breakdowns	Obstructions	Standing Time
8am - 8:30 Fitter Diesel Pump -	using 2m Rods on BC Rings	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R84	
Employer	Barnsley Metropolitan Borough Council				Date	1/3/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
V25	W25	14	0	3.00	O/B	FWR	4	
			3.00	10.00	MUDSTONE/SANDSTONE			
			10.00	12.00	SOFT COAL			
			12.00	21.00	SANDSTONE			
W25		✓	0	3.00	O/B			
			3.00	10.00	MUDSTONE/SANDSTONE	FWR	4	
			10.00	11.00	COAL			
			11.00	21.00	SANDSTONE			
T24	W24	37	0	3.00	O/B			
			3.00	12.00	MUDSTONE/SANDSTONE	NWR	4	
			12.00	14.00	BROKEN GROUND			
			14.00	15.00	HARD STRATA			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley			**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R34
Employer	Barnsley Metropolitan Borough Council					Date	1/3/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
V24	W24	27	0	3.00	O/B	NWR	4	
			3.00	10.50	MUDSTONE/SANDSTONE			
			10.50	13.00	BROKEN GROUND			
			13.00	15.00	HARD STRATA			
V24	W24	14	0	3.00	O/B	FWR	4	
			3.00	10.00	MUDSTONE/SANDSTONE			
			10.00	12.00	COAL			
			12.00	21.00	SANDSTONE			
W24		V	0	3.00	O/B	FWR	4	
			3.00	10.00	MUDSTONE/SANDSTONE			
			10.00	11.50	COAL			
			11.50	15.00	SANDSTONE			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water	
Project No.	TD8510		Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd		Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council		Date	1/03/2023	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
V32	W32	27°	GL	3.5	O/B		4	
			3.5	10.5	M/S, S/S			
			10.5	11.5	COAL			
			11.5	14	M/S	FWR		
V32	W32	14°	GL	3	O/B			
			3	10	M/S, S/S		4	
			10	11.5	COAL			
			11.5	14	M/S	FWR		
S33	W33	45°	GL	4	O/B		4	
			4	11	M/S, S/S			
			11	12	COAL			
			12	14	M/S	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. ANSON	Signature: Jason Anson	For Client:
Assistant: J. SEEL		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	1/03/2023	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
S31	W31	45°	GL	4.5	O/B		5	
			4.5	11	m/s, s/s			
			11	12	s/B/G	L/F		
			12	15	m/s			
T31	W31	37°	GL	4	O/B		4	
			4	10	m/s			
			10	11	s/o/g	L/F		
			11	15	m/s			
U31	W31	27°	GL	3	O/B		4	
			3	10	m/s, s/s			
			10	11.5	s/B/G	L/F		
			11.5	14	m/s			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. ANSON	Signature: Jason Anson	For Client:	
Assistant: J. SEEL			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	1/03/2023	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
Y27		✓	GL	3	O/B		4	
			3	9.5	M/S, S/S			
			9.5	11.5	S/S/G	L/F		
			11.5	14	M/S			
Y29		✓	GL	3	O/B			
			3	9	M/S, S/S		4	
			9	11	S/S/G	L/F		
			11	14	M/S			
W31			GL	3	O/B		4	
		✓	3	11	M/S, S/S			
			11	12	COAL			
			12	15	M/S	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. ANSON	Signature: Jason Anson	For Client:
Assistant: J. SEEL		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 1/03/2023

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm) 63mm	Casing Diameter (mm) 88.9mm	Casing Type Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
V31	W31	14	GL	3.5	O/B			
			3.5	10	M/S, S/S			
			10	11	S/B/L		4	
			11	14	M/S	C/F		
S32	W32	45°	GL	4	O/B		4	
			4	11	M/S, S/S			
			11	12	COAL			
			12	14	M/S	F/R		
T32	W32	37°	GL	3.5	O/B		4	
			3.5	10.5	M/S, S/S			
			10.5	12	COAL			
			12	14	M/S	F/R		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:	SOIL ENGINEERING
Assistant: J. SEGL			Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	1/03/2023	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
T33	W33	37°	GL	3.5	O/B	NWR	4	
			3.5	10.5	m/s, s/s			
			10.5	11.5	s/c/a			
			11.5	14	m/s			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:	
Assistant: J. SEEL			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 2/03/2023

Start of shift	End of shift	Total hours	Hole Diameter (mm)	Casing Diameter (mm)	Casing Type
7:30	17:30	10:00	63mm	88.9mm	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
W36	W36	27°	GL	3	O/B			
			3	10	M/S, S/S			
			10	11	COAL			
			11	14	M/S			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:
Assistant: J. Steel		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	2/03/2023	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
V35	W35	14°	GL	3	O/B		10	
			3	9.5	MLS, SLS			
			9.5	11.5	STB/G	LF		
			11.5	14	MLS			
S36	W36	45°	GL	3.5	O/B		10	
			3.5	10.5	MLS, SLS			
			10.5	11.5	COAL			
			11.5	14	MLS	FWR		
T36	W36	37°	GL	3	O/B		10	
			3	10	MLS, SLS			
			10	11.5	COAL			
			11.5	14	MLS	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:	
Assistant: J Steer			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water	
Project No.	TD8510		Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd		Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council		Date	21/03/2023	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
S35	W35	45°	GL	4	O/B			
			4	11	m/s, s/s		10	
			11	12.5	G/O/G	L/F		
			12.5	14	m/s			
T35	W35	37°	GL	3.5	O/B		10	
			3.5	10.5	m/s, s/s			
			10.5	11.5	S/B/G	L/F		
			11.5	14	m/s			
U35	W35	27°	GL	3	O/B		10	
			3	9.5	m/s, s/s			
			9.5	12	S/B/G	L/F		
			12	14	m/s			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Ansen	Signature: Jaisen Ansen	For Client:
Assistant: J. SEEL		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	2/03/2023
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
T 34	W 34	37°	GL	3.5	O/B			
			3.5	10.5	M/S , S/S		10	
			10.5	12	S/S/G	CLF		
			12	14	M/S			
U 34	W 34	27°	GL	3	O/B		10	
			3	9.5	M/S , S/S			
			9.5	10.5	COAL			
			10.5	12	M/S	FWR		
V 34	W 34	14°	GL	3	O/B		10	
			3	9.5	M/S , S/S			
			9.5	10.5	COAL	FWR		
			10.5	12	M/S			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:
Assistant: J. SEEL		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R81
Employer	Barnsley Metropolitan Borough Council							Date	21/03/2023
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
U33	W33	27°	GL	3	O/B		10	
			3	11	M/S, S/S			
			11	12	S/B/G	L/F		
			12	14	M/S			
V33	W33	14°	GL	3	O/B		10	
			3	9.5	M/S, S/S			
			9.5	11.5	S/B/G	L/F		
			11.5	14	M/S			
S34	W34	45°	GL	4	O/B		10	
			4	10	M/S, S/S			
			10	12	S/B/G	L/F		
			12	14	M/S			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:
Assistant: J. SEEL		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R8?	
Employer	Barnsley Metropolitan Borough Council				Date	2-3-23	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
Y28			0	3.5	OB		5	
			3.5	8.5	Mudstone			
			8.5	11.5	Coal			
			11.5	14	Mudstone			Full
S24	W24	45	0	4.5	OB		6	
			4.5	13.5	Mudstone			
			13.5	15.5	BK			
			15.5	18	HARD			Lost flush

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forgie	Signature:	For Client:
Assistant: S Sinclair		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	2-3-23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
Y24			0	4	o/b		5	
			4	9	mudstone			
			9	11.5	coal			
			11.5	14	mudstone			Ewl
Y26			0	4	o/b		5	
			4	9.5	mudstone			
			9.5	11.5	soft			
			11.5	13	mudstone			Ewl

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forge	Signature:	For Client:
Assistant: S Sinclair		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley				**Rotary Percussive Log Sheet**		Flush Type	Water	
Project No.	TD8510						Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd						Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council						Date	2-3-23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
X23			0	4	o/b		4.5	
			4	8.5	mudstone			
			8.5	10.5	coal			
			10.5	12.5	SST			FWR
Y22			0	4	o/b		5	
			~~4~~	9.5	mudstone			
			9.5	12	coal			
			12	14	mudstone			FWR

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forsyth	Signature:	For Client:
Assistant: S Sinclair		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water
Project No.	TD8510		Rig Type	SM-14
Engineer	Abbeydale BEC Ltd		Rig Number	R81
Employer	Barnsley Metropolitan Borough Council		Date	2-3-23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
x28			0	3	o/b		4	
			3	8	Mudstone			
			8	11	void			
			11	13	hard			Lost flush
x22			0	3.5	o/b		4	
			3.5	8.5	mudstone			
			8.5	11	coal			
			11	13	Mudstone			FWR

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forgie	Signature:	For Client:
Assistant: S Sinclair		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	2-3-23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
X 26			0	3	O/B		4	
			3	9.5	mudstone			
			9.5	12.5	coal			
			12.5	15	mudstone	FWR		
X 27			0	3	O/B		4	
			3	8.5	Mudstone			
			8.5	11.5	void			
			11.5	14	HARD			Lost Flush

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forsil	Signature:	For Client:	
Assistant: S Sinclair			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	SOIL ENGINEERING Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 2-3-23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm) 63mm	Casing Diameter (mm) 88.9mm	Casing Type: Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
X24			0	3	d/B		5	
			3	9.5	Mudstone			
			9.5	11	Broken ground			
			11	13	HARD			Lost flush
X25			0	3	d/B		5	
			~~3~~	9	mudstone			
			12~~5~~9	12.5	coal			
			12.5	15	mudstone			f wr

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Foxgill Assistant: S Sinclair	Signature:	For Client:	SOIL ENGINEERING Part of the Bachy Soletanche Group
Form No SF GP T 008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Grouting Field Record**	Date
Project No.	TD8510		3/3/23
Engineer	Abbeydale BEC Ltd		
Employer	Barnsley Metropolitan Borough Council		

Shift	Start	End	Day / Night	Sheet	of

Location ID	Status	Length of treatment (Minutes)	Remarks
S9	S/T	30 MIN	
S24	COMP	15 SEC	
S25	COMP	20 SEC	
X23	COMP	20 SEC	
X24	COMP	20 SEC	
Y24	COMP	20 SEC	
X25	COMP	20 SEC	
Y26	COMP	20 SEC	
X26	COMP	20 SEC	
X27	S/T	2 HRS	
~~X27~~ Y28	COMP	2 MIN	
Y29	COMP	2 MIN	
Y27	COMP	20 SEC	
W24	COMP	20 SEC	
V24	COMP	20 SEC	
U24	COMP	20 SEC	
T24	COMP	15 SEC	
Y22	COMP	20 SEC	
Z22	COMP	20 SEC	
Z23	COMP	15 SEC	
Z24	COMP	20 SEC	
Z25	COMP	20 SEC	
Z26	COMP	20 SEC	

Recorded By: G MCLEOD	Checked By:	Approved By:	SOIL ENGINEERING
Date: 3/3/23	Date:	Date:	
Form No. SE-GES-F-020	IssueNo.RevisionNo 1.00	Issue Date 22/12/2015	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R51
Employer	Barnsley Metropolitan Borough Council		Date: 31/02/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
T38	W38	37°	GL	3.5	D/B		10	
			3.5	9.5	M/S, S/S			
			9.5	11.5	D/B/C	C/F		
			11.5	14	M/S			
U38	W38	21°	GL	3	D/B		10	
			3	10.5	M/S, S/S			
			10.5	12	S/B/C	C/F		
			12	14	M/S			
V38	W38	14°	GL	3	D/B		10	
			3	9.5	M/S, S/S			
			9.5	10.5	S/B/C	C/F		
			10.5	14	M/S			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. ANSON Signature: Jason Anson For Client:

Assistant: J. SEEL.

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	31/02/23	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
U37	W37	27°	GL	3	D/B		10	
			3	9	M/S, S/S			
			9	11	COAL			
			11	14	M/S	FWR		
V37	W37	14°	GL	3	D/B		10	
			3	9	M/S, S/S			
			9	10.5	COAL			
			10.5	14	M/S	FWR		
S38	W38	45°	GL	3.5	D/B		10	
			3.5	10.5	M/S S/S			
			10.5	12	S/S/C	L/F		
			12	14	M/S			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:
Assistant: J. STEEL		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 3/02/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
V36	W36	14°	GL	3	O/B		10	
			3	10.5	MLS, SLS			
			10.5	12	COAL			
			12	14	MLS	FWR		
S37	W37	45°	GL	3.5	O/B		10	
			3.5	9.5	MLS, SLS			
			9.5	12	COAL			
			12	14	MLS	FWR		
T37	W37	37°	GL	3.5	O/B		10	
			3.5	9.5	MLS, SLS			
			9.5	11.5	COAL			
			11.5	14	MLS	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:
Assistant: J. SEEL		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R 84
Employer	Barnsley Metropolitan Borough Council					Date	3/3/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (V)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
228		V	G/L	3.50	C/B	L/F	4m	
			3.50	8.50	MUDSTONE			
			8.50	11.50	BROKEN / GREY LIMS			
			11.50	13.00	HARD STRATA			
x 29		V	G/L	3.50	C/B	L/F	4m.	
			3.50	8.50	MUDSTONE			
			8.50	9.50	COAL			
			9.50	11.50	BROKEN/GREY LIMS			
			11.50	13.00	HARD STRATA			

Breakdowns	Obstructions	Standing Time
—	—	

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R84
Employer	Barnsley Metropolitan Borough Council					Date	3/3/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
225		✓	~~0.00~~	~~10.00~~				
			d/c	10.00	c/s	F-ret.	10.00	
			10.00	21.00	Mudstone			
226		✓	~~0.00~~	4m	c/s	Full	4m	
			4m	8.50	Mudstone			
			8.50	10.00	Coal			
			10.00	11.00	Mudstone			
227		✓	d/c	4m	c/s	Full	4m	
			4m	8.50	Mudstone			
			8.50	10.00	Coal			
			10.00	11.00	Mudstone			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: A Conway Signature: [signature] For Client:

Assistant: S Sinclair

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: 84
Employer	Barnsley Metropolitan Borough Council		Date: 3/3/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
S25		45°	G/L	4m	C/S	Full - 4m		
			4m	13.50	Mudstone			
			13.50	15.50	Coal			
			13.50	18.00	Mudstone			
Z 22		✓	G/L	10.00	C/S	Full	10.00	
			10.00	21.00	Mudstone			
Z23		✓	G/L	10.00	C/S	Full	10.00	
			10.00	21.00	Mudstone			
Z24		✓	G/L	10.00	C/S	Full	10.00	
			10.00	21.00	Mudstone			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: Acutamy	Signature:	For Client:
Assistant: S Sinclair		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R 84
Employer	Barnsley Metropolitan Borough Council					Date	6/3/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
W 26		3°	ork	2.50	d/s	Full - 3m		
			2.50	8m	Mudstone			
			8m	10.00	Coal			
			10.00	12.00	Mudstone			

Breakdowns	Obstructions	Standing Time
-	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller: AC HARVEY	Signature:	For Client:
Assistant: R THOMSON		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R84
Employer	Barnsley Metropolitan Borough Council							Date	6/3/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
V 26	W26	14°	G/L	2.50	C/S	L/F	3m	
			2.50	8.50	Mudstone			
			8.50	10.50	Broken/Ground			
			10.50	12.00	Hard Strata			
S 27	W27	45°	G/L	3m	C/S	Full	3m	
			3m	9.50	Mudstone			
			9.50	13.50	Coal/Soft			
			13.50	15.00	Mudstone			
T 27	W27	37°	G/L	3m	C/S	L/F	3m	
			3m.	9m	Mudstone			
			9m.	13.00	Soft Broken Ground			
			13.00	14.00	Hard Strata			

Breakdowns	Obstructions	Standing Time
		—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: ACHAM	Signature:	For Client:
Assistant: R THOMSON		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R84
Employer	Barnsley Metropolitan Borough Council							Date	6/3/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
S26	W26	45°	GL	3.50	C/Z	L/F	4m.	
			3.50	10.50	MUDSTONE			
			10.50	14.00	BROKEN GROUND			
			14.00	16.00	HARD STRATA			
U26	W26	27°	GL	3m	C/S	Full.	3m.	
			3m	10.50	MUDSTONE			
			10.50	11.50	COAL			
			11.50	12.50	MUDSTONE			
W27		4°	GL	2.50	C/S	L/F	3m	
			2.50	7.50	MUDSTONE			
			7.50	10.50	S/BROKEN GROUND			
			10.50	12.00	HARD STRATA			

Breakdowns	Obstructions	Standing Time
-	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller: A O'HARNEY Signature: [signature] For Client:

Assistant: S SINCLAIR

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R 84.	
Employer	Barnsley Metropolitan Borough Council				Date	6/3/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
H27	W27	27°	GL	3m	C/S	Full	3m	
			3m	10.00	Mudstone			
			10.00	11.50	Coal			
			11.50	12.50	Mudstone			
V27	W27	14°	GL	3m	C/S	L/F	3m	
			3m	8m	Mudstone			
			8m	11.00	Soft / Ground			
			11.00	12.00	Hard / Strata			
T26	W26	37°	GL	3m	C/S	Full	3m	
			3m	11.00	Mudstone			
			11.00	12.00	Coal			
			12.00	13.00	Mudstone			

Breakdowns	Obstructions	Standing Time
/	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: [signature] Signature: [signature] For Client:

Assistant: R Fletcher

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	6/03/2023	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
T41	W41	37°	GL	3.5	O/B			
			3.5	10	MLS, SLS		4	
			10	11.5	COAL			
			11.5	14	MLS	FWR		
U41	W41	27°	GL	3	O/B			
			3	9	MLS, SLS		4	
			9	11	COAL			
			11	14	MLS	FWR		
V41	W41	14°	GL	3	O/B		4	
			3	9	MLS, SLS			
			9	10.5	COAL			
			10.5	14	MLS	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:	
Assistant: F. Steel			
Form No. SE-GES-F-008	Issue No. Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	6/03/2023	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
U40	W40	27°	GL	3	O/B			
			3	10.5	M/S, S/S		4	
			10.5	11.5	COAL			
			11.5	14	M/S	FWR		
V40	W40	14°	GL	3	O/B			
			3	10	M/S, S/S		4	
			10	11.5	COAL			
			11.5	14	M/S	FWR	4	
S41	W41	45°	GL	3.5	O/B			
			3.5	10.5	M/S, S/S			
			10.5	12	COAL			
			12	14	M/S	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. ANSON	Signature: Jason Anson	For Client:	
Assistant: J. SEEL			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 6/03/2023

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
V 39	W 39	14°	GL	3	O/B			
			3	9	M/S , S/S		4	
			9	10.5	COAL			
			10.5	14	M/S	FWR	4	
S40	W40	45°	GL	3.5	O/B			
			3.5	9.5	M/S , S/S			
			9.5	12	COAL			
			12	14	M/S	FWR	4	
S40	W40	37°	GL	3.5	O/B			
			3.5	10	M/S , S/S			
			10	11.5	COAL			
			11.5	14	M/S	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:
Assistant: J. SEEL		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water	
Project No.	TD8510		Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd		Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council		Date	6/03/23	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
S 39	W 39	45°	GL	3.5	O/B			
			3.5	9.5	MLS, SLS		4	
			9.5	11.5	SLSLG	LIF		
			11.5	14	MLS			
T 39	W 39	37°	GL	3.5	O/B			
			3.5	9	MLS, SLS		4	
			9	11	COAL			
			11	14	MLS	FWR		
U 39	W 39	27°	GL	3	O/B			
			3	9	MLS, SLS		4	
			9	10.5	COAL			
			10.5	14	MLS	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: J. Anson	For Client:
Assistant: J. Steel		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	7/3/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
V44	W44	14°	GL	3	O/B			
			3	9	M/S, S/S		4	
			9	10.5	GA			
			10.5	14	M/S	FWR		
S45	W45	45°	GL	3.5	O/B			
			3.5	9.5	M/S, S/S		4	
			9.5	11	G/B/C	C/F		
			11	14	M/S			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J ANSON	Signature: Jason Olsen	For Client:	SOIL ENGINEERING
Assistant: J. SEEL.			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	RS1
Employer	Barnsley Metropolitan Borough Council					Date	7/03/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
S44	W44	45°	GL	3.5	O/B			
			3.5	9	MLs, SLs		4	
			9	10.5	SLSLG	L/F		
			10.5	14	MLs	Bkm		
T44	W44	37°	GL	3.5	O/B			
			3.5	10	MLs, SLs		4	
			10	11.5	COAL			
			11.5	14	MLs	FWR		
U44	W44	27°	GL	3	O/B			
			3	9.5	MLs, SLs		4	
			9.5	11	COAL			
			11	14	MLs	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. ANSON	Signature: Jason Anson	For Client:	
Assistant: J. SEEL.			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	SOIL ENGINEERING Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 7/03/2023

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
T43	W43	37°	GL	3.5	O/B			
			3.5	10	MLS, SLS		4	
			10	11.5	COAL			
			11.5	14	MLS	FLR		
U43	W43	27°	GL	3	O/B			
			3	9	MLS, SLS		4	
			9	11.5	COAL			
			11.5	14	MLS	FLR		
V43	W43	14°	GL	3	O/B			
			3	9	MLS, SLS		4	
			9	11	COAL			
			11	14	MLS	FLR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J ANSON	Signature: Jason Anson	For Client:
Assistant: J. SEEL		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	7/03/2023
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
VL2	WL2	14°	GL	3	d/s			
			3	9	mls, sls		4	
			9	10	COAL			
			10	14	mls	FWR		
SL3	WL3	45°	GL	3.5	d/s			
			3.5	10.5	mls, sls		4	
			10.5	12	COAL			
			12	14	mls	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. ANSON	Signature: J Anson	For Client:	
Assistant: J. SEEL			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	7/03/2023	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
S42 45°	W42	45	GL	3.5	O/B			
			3.5	10	mls, s/s		4	
			10	12	COAL			
			12	14	mls	FWR		
T42	W42	37°	GL	3.5	O/B			
			3.5	9.5	mls, s/s		4	
			9.5	11.5	COAL			
			11.5	14	mls	FWR		
V42	W42	27°	GL	3	O/B			
			3	9	mls, s/s		4	
			9	11	COAL			
			11	14	mls	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. ANSON	Signature: Jason Anson	For Client:	
Assistant: J. SEEL.			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R84	
Employer	Barnsley Metropolitan Borough Council				Date	7/3/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
W29		3°	GL	2.50	C/S	Full	3m.	
			2.50	8.50	Mudstone			
			8.50	10.50	Coal			
			10.50	12.00	Mudstone			
S30	W30	45°	GL	3m	C/S	Full	3m	
			3m.	10.00	Mudstone			
			10.00	13.50	Soft/Coal			
			13.50	15.00	Mudstone			
T30	W30	37°	GL.	3m	C/S	Full	3m	
			3m.	9.50	Mudstone			
			9.50	13.00	Soft/Coal			
			13.00	14.00	Mudstone			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller:	Signature:	For Client:
Assistant: R THOMSEN		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R.84.	
Employer	Barnsley Metropolitan Borough Council				Date	7/3/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
T29	W29	37°	Gl	3m	C/B	Full	3m	
			3m	10.00	Mudstone			
			10.00	13.00	Soft Coal			
			13.00	15.00	Mudstone			
U29	W29	27°	Gl	2.50	C/B	Full	3m	
			2.50	10.50	Mudstone			
			10.50	12.00	Coal			
			12.00	13.00	Mudstone			
V29	W29	14°	Gl	2.50	C/B	Full	3m	
			2.50	8.50	Mudstone			
			8.50	11.00	Soft			
			11.00	12.00	Mudstone			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: R Hamson	Signature:	For Client:	
Assistant: R Thomson			

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	RS4.	
Employer	Barnsley Metropolitan Borough Council				Date	7/3/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
V28	W28	14°	G/L	2.50	c/B	FWR	3m	
			2.50	10.00	MUDSTONE			
			10.00	11.50	COAL			
			11.50	12.50	MUDSTONE			
W28		3°	G/L	2.50	c/B	FWR	3m	
			2.50	10.00	MUDSTONE			
			10.00	11.00	COAL			
			11.00	12.00	MUDSTONE			
S29	W29	45°	G/L	3m.	c/B	FWR	3m	
			3m	10.50	MUDSTONE			
			10.50	13.50	SOFT COAL			
			13.50	15.00	MUDSTONE			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: A. HARDY	Signature:	For Client:	SOIL ENGINEERING
Assistant: R. THOMSON			Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R84.	
Employer	Barnsley Metropolitan Borough Council				Date	7/3/25	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
S28	W28	45°	GL	3m	C/B	FLR	3m	
			3m.	10.50	MUDSTONE			
			10.50	13.50	COAL			
			13.50	15.00	MUDSTONE			
T28	W28	37°	GL	3m	C/B	FLR	3m	
			3m.	9.50	MUDSTONE			
			9.50	13.00	COAL			
			13.00	14.00	MUDSTONE			
U28	W28	27°	GL	2.50	C/B	L/F	3m.	
			2.50	8.50	MUDSTONE			
			8.50	11.50	SOFT/BROKEN/GROUND			
			11.50	12.50				

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: RICHARDSON	Signature:	For Client:	SOIL ENGINEERING
Assistant: R THOMSON			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	8/03/23.
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
S46	W46	45°	GL	3.5	O/B		4	
			3.5	9	mls, sls			
			9	11.5	COAL			
			11.5	14	mls	FWR		
T46	W46	37°	GL	3.5	O/B		4	
			3.5	10	mls, sls			
			10	11.5	COAL			
			11.5	14	mls	FWR		
U46	W46	27°	GL	3	O/B		4	
			3	8	mls, sls			
			8	10.5	sls/c	L/F		
			10.5	14	mls			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. ANSON	Signature: Jason Anson	For Client:
Assistant: J. JEEL.		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	8/03/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
T45	W45	37°	GL	3.5	O/B		4	
			3.5	8	MLS, SLS			
			8	11.5	SLB/G	L/F		
			11.5	14	MLS			
U45	W45	27°	GL	3	O/B		4	
			3	8	MLS, SLS			
			8	11	SLB/G	L/F		
			11	14	MLS			
V45	W45	14	GL	3	O/B		4	
			3	8	MLS, SLS			
			8	10.5	SLB/G	L/F		
			10.5	14	MLS			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:	SOIL ENGINEERING
Assistant: J. SEEL			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley			**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	8/03/2023
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
V46	W46	14°	GL	3	O/B		4	
			3	7.5	MLS, SLS			
			7.5	10.5	O/B/G	L/F		
			10.5	14	MLS			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:
Assistant: J. SEEL		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: RS4.
Employer	Barnsley Metropolitan Borough Council		Date: 8/3/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
U 30	W30	27°	GL	2.50	C/B	L/F	3m.	
			2.50	9.50	MUDSTONE			
			9.50	11.00	SOFT/GROUND			
			11.00	12.00	HARD STRATA			
V 30	W30	14°	GL	2.50	C/B	L/F	3m	
			2.50	8.00	MUDSTONE			
			8.00	10.50	SOFT/GROUND			
			10.50	12.00	HARD/ STRATA			
W 30		9°	GL	2.50	C/B	F/R	3m	
			2.50	8.00	MUDSTONE			
			8.00	10.00	COAL			
			10.00	12.00	MUDSTONE			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R84	
Employer	Barnsley Metropolitan Borough Council				Date	8/3/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
W22		✓	ck	3m	ck	Full	3m.	
			3m	10.00	Mudstone			
			10.00	11.00	Coal			
			11.00	12.00	Mudstone			
V23		✓	ck	3m	ck	Full	3m.	
			3m.	10.00	Mudstone			
			10.00	11.00	Coal			
			11.00	12.00	Mudstone			

Breakdowns	Obstructions	Standing Time
	Pulling Casing Hereen	

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: Anthony Signature: Anthony For Client:

Assistant: R Thomas

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: RB1
Employer	Barnsley Metropolitan Borough Council		Date: 9/3/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
V47	W47	14	GL	3	O/B		4	
			3	9	M/S, S/S			
			9	11	S/B/G	L/F		
			11	14	M/S			
S45	W48	45°	GL	3.5	O/B		4	
			3.5	10	M/S, S/S			
			10	11.5	S/B/G	L/F		
			11.5	14	M/S			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:
Assistant: J. Steel.		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	9/03/2023	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
S47	W47	45°	GL	3.5	O/S		4	
			3.5	9.5	M/S, S/S			
			9.5	11.5	COAL			
			11.5	14	M/S	FWR		
T47	W47	37°	GL	3.5	O/B		4	
			3.5	9	M/S, S/S			
			9	11	COAL			
			11	14	M/S	FWR		
U47	W47	27°	GL	3	O/B		4	
			3	8	M/S, S/S			
			8	11	S/B/C	L/F		
			11	14	M/S			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:
Assistant: J. SEEL		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	RSL
Employer	Barnsley Metropolitan Borough Council							Date	9/3/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
x8		✓	ck	2.50	ck	Full	3m	
			2.50	10.50	Mudstone			
			10.50	12.00	Coal			
			12.00	13.00	Mudstone			
x9		✓	ck	2.50	ck	Full	3m	
			2.50	10.50	Mudstone			
			10.50	12.00	Coal			
			12.00	13.00	Mudstone			
x 10		✓	ck	3.00	ck	L/F	3m	
			3.00	10.50	Mudstone			
			10.50	12.00	Soft			
			12.00	13.00	Hard/ Strata			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: RICHARDS Signature: [signature] For Client:

Assistant: R THOMSON

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R84.	
Employer	Barnsley Metropolitan Borough Council				Date	9/3/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
W 10		✓	ck	3m	c/B	Full	3m	
			3m.	10.00	Mudstone			
			10.00	11.50	Coal			
			11.50	12.50	Mudstone			
W 8		✓	ck	3m	c/B	Full	3m	
			3m.	8.50	Mudstone			
			8.50	11.50	S/Coal			
			11.50	12.80	Mudstone			
x 7		✓	ck	2.50	c/B	Full	3m	
			2.50	10.00	Mudstone			
			10.00	11.50	Coal			
			11.50	12.50	Mudstone			

Breakdowns	Obstructions	Standing Time
/	/	/

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
/	/	Length Width Depth m

Driller: Richard Kenny Signature: Kenny For Client:

Assistant: R Tilleson

SOIL ENGINEERING

Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R84.
Employer	Barnsley Metropolitan Borough Council					Date	9/3/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
AA 26		V	GL	10.CC	c/s	FWR	10.CO	
			10.CC	21.CC	MUDSTONE			
AA 28		V	GL	9m	c/s	FWR	9.CO	
			9.CC	21.CC	MUDSTONE			
W12		V	GL	3m	c/s	FWR	3m	
			3m.	10.CC	MUDSTONE			
			10.CC	11.SC	COAL			
			11.SC	12.SC	MUDSTONE			

Breakdowns	Obstructions	Standing Time
-	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller: ACHARNLEY	Signature:	For Client:
Assistant: R THOMSON		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water	
Project No.	TD8510		Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd		Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council		Date	10/03/23	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
S49	W49	45°	GL	3.5	O/B		4	
			3.5	9.5	mls, sls			
			9.5	11.5	sls/s	LF		
			11.5	14	mls			
T49	W49	37°	GL	3.5	O/B		4	
			3.5	10	mls, sls			
			10	11.5	coal	FWR		
			11.5	14	mls			
U49	W49	27°	GL	3	O/B		4	
			3	8.5	mls, sls			
			8.5	11	coal			
			11	14	mls	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: O. Ansa	Signature: Jalon Ansa	For Client:
Assistant: J. Seel		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	10/03/23	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
T48	W48	37°	GL	3.5	O/B		4	
			3.5	8.5	mls, s/s			
			8.5	11	s/s/c	LIF		
			11	14	mls			
U48	W48	27°	GL	3	O/B		4	
			3	8	mls, s/s			
			8	11	s/s/c	LIF		
			11	14	mls			
V48	W48	14°	GL	3	O/B		4	
			3	8	mls, s/s			
			8	10.5	coal	FWR		
			10.5	14	mls			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J Anson	Signature: Jason Anson	For Client:
Assistant: J. STEEL		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

07/21

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510			Rig Type	SM-14
Engineer	Abbeydale BEC Ltd			Rig Number	R81
Employer	Barnsley Metropolitan Borough Council			Date	10/03/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
VH9	WH9	14°	GL	3	dB		4	
			3	6	MLs, SLs			
			6	10.5	COAL			
			10.5	14	MLs	FLR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:	SOIL ENGINEERING
Assistant: J. SEEL			Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water	
Project No.	TD8510		Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd		Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council		Date	13/03/23	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R2	U2	31°	GL	3.5	O/B		4	
			3.5	15	M/S, S/S			
			15	17.5	S/B/C	LIF		
			17.5	19	M/S			
S2	U2	22°	GL	3.5	O/B		4	
			3.5	21	M/S, S/S	FWR		
U51	W49	37°	GL	3	O/B		4	
			3	5	M/S S/S			
			8	11	SAND			
			11	14	M/S	PWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:	
Assistant: J. SEER.			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	13/03/23	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
V50	W49	14°	GL	3	O/B		4	
			3	8.5	MIS, SIS			
			8.5	10.5	SOFT	PWR		
			10.5	14	MIS			
U50	W49	27°	GL	3	O/B		4	
			3	8	MIS, SIS			
			8	10.5	COAL			
			10.5	14	MIS	FWR		
V51	W49	27°	GL	3	O/B		4	
			3	8	MIS, SIS			
			8	10.5	COAL			
			10.5	14	MIS	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. ANSON	Signature: Jaisen Anson	For Client:	
Assistant: J. SEEL.			

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 13/03/23.

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm) 63mm	Casing Diameter (mm) 88.9mm	Casing Type Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
U1		V	GL	3	O/B		4	
			3	21	MLS, SLS	FWR		
R1	U1	31°	GL	3.5	O/B		4	
			3.5	13	MLS, SLS			
			13	15	S/B/G	L/F		
			15	17	MLS			
S1	U1	22°	GL	3	O/B		4	
			3	21	MLS, SLS	FWR		
T1	U1	11°	GL	3	O/B		4	
			3	21	MLS, SLS	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:	SOIL ENGINEERING
Assistant: J. SEEL			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	RS4	
Employer	Barnsley Metropolitan Borough Council				Date	13/3/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
X 11		VERT	G/L	2.50	C/B	L/F	3m	
			2.50	8.50	MUDSTONE			
			8.50	11.50	BROKEN/GROUND			
			11.50	12.50	HARD STRATA			
X 12		VERT	G/L	2.50	C/B	L/F	3m	
			2.50	8.50	MUDSTONE			
			8.50	11.50	S/BROKEN/GROUND			
			11.50	12.50	HARD/STRATA			
X 13		VERT	G/L	2.50	C/B	FWK	3m	
			2.50	8.50	MUDSTONE			
			8.50	11.50	SOFT/COAL			
			11.50	12.50	MUDSTONE			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller:	Signature:	For Client:
Assistant: James		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R84
Employer	Barnsley Metropolitan Borough Council					Date	13/3/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
4 10		VERT	GL	6-00	C/S	FWR	6m.	
			6-00	10-00	MUDSTONE			
			10-00	11-50	COAL			
			11-50	12-50	MUDSTONE			
4 8		VERT	GL	2-50	C/S	L/F	3m	
			2-50	10-00	MUDSTONE			
			10-00	12-00	SOFT/BROKEN/GROUND			
			12-00	13-00	HARD STRATA			

Breakdowns	Obstructions	Standing Time
-	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller: [illegible]	Signature: [illegible]	For Client:	SOIL ENGINEERING
Assistant: James			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water
Project No.	TD8510		Rig Type	SM-14
Engineer	Abbeydale BEC Ltd		Rig Number	SM14 & 84
Employer	Barnsley Metropolitan Borough Council		Date	14/3/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
Z7		VERT	GL	2.50	C/B	L/F	3m.	
			2.50	10.00	MUDSTONE			
			10.00	11.50	BROKEN GROUND			
			11.50	12.50	HARD STRATA			
[redacted]		VERT	GL	2.50	C/B	FWR	3m	
X6			2.50	10.50	MUDSTONE			
			10.50	11.50	COAL			
			11.50	12.50	MUDSTONE			
AA8		VERT	GL	10.50	C/B	FWR	10.50	
			10.50	21.00	MUDSTONE			
			~~21.00~~					

Breakdowns	Obstructions	Standing Time
/	/	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: [signature]	Signature: [signature]	For Client:	SOIL ENGINEERING
Assistant: James			Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R84	
Employer	Barnsley Metropolitan Borough Council				Date	14/3/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/~~Steel~~				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
Z10		VERT	GL	12.00	C/B	FWR	12.00	
			12.00	21.00	MUDSTONE			
Z9		VERT	GL	6.00	C/B	FWR	6m	
			6.00	10.00	MUDSTONE			
			10.00	12.00	COAL			
			12.00	13.00	MUDSTONE			
Z8		VERT	GL	2.50	C/B	FWR	6m	
			2.50	10.00	MUDSTONE			
			10.00	12.00	COAL			
			12.00	13.00	MUDSTONE			

Breakdowns	Obstructions	Standing Time
–	–	–

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
–	–	Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	BSC4	
Employer	Barnsley Metropolitan Borough Council				Date	14/3/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
~~T 10~~	W10	37°	ctl	3m	c/s	FR	3m	
			3m	10.00	Mudstone			
			10.00	13.00	Sand/Coal Traces			
			13.00	14.00	Mudstone			
			~~Hard~~	~~Hole~~				
U 10	W10	27°	ctl	2.50	c/s	FR	3m	
			2.50	10.50	Mudstone			
			10.50	12.50	Sand Coal Traces			
			12.50	13.50	Mudstone			
V 10		4°	ctl	2.50	c/s	L/F	3m	
			2.50	9.00	Mudstone			
			9.00	11.50	Sand/Brecia/Ground			
			11.50	12.50				

Breakdowns	Obstructions	Standing Time
-	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R84	
Employer	Barnsley Metropolitan Borough Council				Date	14/3/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
T9	W9	37°	Gk	3m	C/B	~~FWR~~	3m	
			3m	10.00	Mudstone			
			10.00	14.00	Soft/Crbl Traces			
			1400	15.00	Mudstone			
V9		3°	Gk	2.50	C/B	FWR	3m	
			2.50	10.50	Mudstone			
			10.50	12.00	Soft/Crbl/Traces			
			12.00	13.00	Mudstone			
S10	W10	45°	Gk	3m	C/B	FWR	3m	
			3m	10.00	Mudstone			
			10.00	13.50	Soft/Crbl/Traces			
			13.50	14.50	Mudstone			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: Dc Harvey	Signature:	For Client:	SOIL ENGINEERING
Assistant: James			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R84.	
Employer	Barnsley Metropolitan Borough Council				Date	14/3/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
V11		VERT	0.0	2.50	C/S	L/F.	3m	
			2.50	9.00	MUDSTONE			
			9.00	12.00	SOFT/BOULDERY GROUND			
			12.00	13.00	HARD STRATA			

Breakdowns	Obstructions	Standing Time
-	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller: Mohammed	Signature:	For Client:	SOIL ENGINEERING
Assistant: James.			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	14/03/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
S3	U3	22°	GL	3.5	O/B		4	
			3.5	14.5	MLS, S/S			
			14.5	17	S/B/G	L/F		
			17	18	MLS			
T3	U3	11°	GL	3	O/B		4	
			3	21	MLS, S/S	FWR		
U3		V	GL	3	O/B		4	
			3	21	MLS, S/S	FWR		
R4	U4	31°	GL	3.5	O/B		4	
			3.5	15	MLS S/S			
			15	16.5	S/B/G	L/F		
			16.5	18	MLS			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. ANSON	Signature: Jason Anson	For Client:	SOIL ENGINEERING
Assistant: J. SEEL			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 14/03/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
T2	U2	11°	GL	3	C/B		4	
			3	14	MLS, S/S			
			14	15.5	S/B/G	L/F		
			15.5	17	MLS			
U2		V	GL	3	C/B		4	
			3	21	MLS, S/S	F/R		
R3	U3	31°	GL	3.5	C/B		4	
			3.5	15	MLS, S/S			
			15	17.5	S/B/G	L/F		
			17.5	19	MLS			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson
Assistant: J. Seel
Signature: Jason Anson
For Client:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	14/03/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
BH4	U4	22°	GL	3	O/B		4	
			3	14.5	MLS, SLS			
			14.5	16	SLBLG	LIF		
			16	18	MLS			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. ANSON	Signature: Jasen Anson	For Client:
Assistant: J. SEEL.		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water
Project No.	TD8510		Rig Type	SM-14
Engineer	Abbeydale BEC Ltd		Rig Number	R81
Employer	Barnsley Metropolitan Borough Council		Date	15/03/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
W4		6°	GL	3	O/B		4	
			3	11.5	M/S, S/S			
			11.5	13.5	S/S/G	CF		
			13.5	15	M/S			
R5	U5	31°	GL	3	O/B		4	
			3	14.5	M/S, S/S			
			14.5	16.5	S/S/G	LF		
			16.5	18	M/S			
S5	U5	22°	GL	3	O/B		4	
			3	14.5	M/S, S/S			
			14.5	16.5	S/S/G	L/F		
			16.5	18	M/S			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: O. Ansen	Signature: Jason Ansell	For Client:	
Assistant: J. SEEL			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	SOIL ENGINEERING Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	15/03/2023
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
T4	U4	11°	GL	3	O/B		4	
			3	13.5	mls, sls			
			13.5	15.5	sls/g	L/F		
			15.5	17	mls			
U4		✓	GL	3	O/B		4	
			3	12.5	mls, sls			
			12.5	14.5	sls/g	L/F		
			14.5	16	mls			
V4		✓	GL	3	O/B		4	
			3	11.5	mls, sls			
			11.5	13.5	sls/g	L/F		
			13.5	15	mls			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: O. Anson	Signature:	For Client:
Assistant: J. SEG		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	15/03/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
T5	U5	11°	GL	3	O/B		4	
			3	14	mls, sls			
			14	15.5	slb/c	LIF		
			15.5	17	mls			
U5		✓	GL	3	O/B		4	
			3	13.5	mls, sls			
			13.5	15.5	slb/c	LIF		
			15.5	17	mls			
V5		✓	GL	3	O/B		4	
			3	11.5	mls, sls			
			11.5	13	slb/c	LIF		
			13	15	mls			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. Ansell	Signature: Jack Ansell	For Client:	SOIL ENGINEERING
Assistant: J. Steel			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R84	
Employer	Barnsley Metropolitan Borough Council				Date	15/3/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
S8		45°	GL	3m	d/s	Full	3m	
			3m	11.50	Mudstone			
			11.50	13.50	Sand/Coal/Traces			
			13.50	14.50	Mudstone			
T8		37°	GL	3m	d/s	Full	3m	
			3m	11.00	Mudstone			
			11.00	13.00	Sand/Coal/Traces			
			13.00	14.00	Mudstone			
U8		27°	GL	3m	d/s	Full	3m	
			3m	16.50	Mudstone			
			16.50	13.00	Sand/Coal/Traces			
			13.00	14.00	Mudstone			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: Richard	Signature:	For Client:	
Assistant: James L			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	SOIL ENGINEERING Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R84
Employer	Barnsley Metropolitan Borough Council					Date	15/3/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
V8		14°	GL	3m.	d/s	L/F	3m.	
			3m.	6.50	Mudstone			
			6.50	12.00	Soft/Broken/Ground			
			12.00	13.00	Hard/Strata			
S7		45°	GL	3m	d/s			
			3m.	12.00	Mudstone	Full	3m	
			12.00	14.00	Coal			
			14.00	15.00	Mudstone.			
F7		37°	GL	3m	d/s			
			3m	11.50	Mudstone	Full	3m	
			11.50	13.50	Coal			
			13.50	14.50	Mudstone			

Breakdowns	Obstructions	Standing Time
-	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: Richardson	Signature:	For Client:
Assistant: James L		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R84
Employer	Barnsley Metropolitan Borough Council					Date	15/3/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
U7		27°	GL	2.50	C/B	Full	3m	
			2.50	11.00	MUDSTONE			
			11.00	12.50	COAL			
			12.50	13.50	MUDSTONE			
V7		14°	GL	2.50	C/B	Full	3m	
			2.50	10.50	MUDSTONE			
			10.50	12.00	COAL			
			12.00	13.00	MUDSTONE			
X21		VER	GL	4m	C/B	Full	4m	
			4m	10.00	MUDSTONE			
			10.00	12.00	COAL			
			12.00	13.00	MUDSTONE			

Breakdowns	Obstructions	Standing Time
-	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller: AC HARVEY	Signature:	For Client:	SOIL ENGINEERING
Assistant: JAMES L			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	16/03/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
TH 3	TU-24/25	29°	GL	3	C/B		4	
			3	9.5	MLS, SLS			
			9.5	12.5	SOFT	PLW		
			12.5	14	MLS			
TH 4	WX-27/28	V	GL	3	C/B		4	
			3	10	MLS, SLS			
			10	12	COAL			
			12	14	MLS	FLR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:	
Assistant: J. GEEL			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water
Project No.	TD8510		Rig Type	SM-14
Engineer	Abbeydale BEC Ltd		Rig Number	R81
Employer	Barnsley Metropolitan Borough Council		Date	18/03/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
W5		6°	GL	3	O/B		4	
			3	11	M/S S/S.			
			11	14	S/B/G	L/F		
			14	15	M/S			
V3		✓	GL	3	O/B		4	
			3	21	M/S, S/S	F/R		
R6	U6	31°	GL	3	O/B		4	
			3	13	M/S, S/S			
			13	15.5	S/B/G	L/F		
			15.5	17	M/S			

Breakdowns	Obstructions	Standing Time
✓	✓	✓

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
✓	✓	Length Width Depth m

Driller: J. ANSon	Signature: Jason Anson	For Client:	
Assistant: J. SEEL.			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	16/03/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
V6		V	GL	3	O/B		4	
			3	11.5	MLS, SLS			
			11.5	14.0	SLSLS	LF		
			14.0	15	MLS			
W6		6°	GL	3	O/B		4	
			3	11	MLS, SLS			
			11	13	SLSLS	L/F		
			13	15	MLS			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:	SOIL ENGINEERING
Assistant: J. SEEL.			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 16/03/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm) 63mm	Casing Diameter (mm) 88.9mm	Casing Type Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
S6	U6	22°	GL	3	O/B		4	
			3	13.5	MLS, S/S			
			13.5	15	O/B/C	L/F		
			15	16	MLS			
T6	U6	11°	GL	3	O/B		4	
			3	13	MLS, S/S			
			13	14.5	O/B/C	L/F		
			14.5	16	MLS			
U6		✓	GL	3	O/B		4	
			3	12	MLS, S/V			
			12	13.5	S/B/C	L/F		
			13.5	15	MLS			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. Anson	Signature: Jason Anson	For Client:	SOIL ENGINEERING
Assistant: J. SEEL.			Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R84	
Employer	Barnsley Metropolitan Borough Council				Date	17/3/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
TESTHOLE6	T/U - 45/46	27°	GL	2.50	C/S	Full	4m	
			2.50	8.00	MUDSTONE / SANDSTONE			
			8.00	10.50	GROUT.			
			10.50	11.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: ACHARRY	Signature: Acharry	For Client:
Assistant: JAMES L		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 17/03/2023

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
THS	TH4-33/34	27°	GL	3	O/B		4	
			3	9.5	MLS SLS			
			9.5	10.5	COAL			
			10.5	12	MLS	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: O. Ansell	Signature:	For Client:
Assistant: J. SEEL.		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	20/03/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
TH 1	U 4/5	7°	GL	3	OIB		4	
(T/U-4/5)			3	11	mls, sls			
			11	13	CROUT			
			13	15	mls	FWR		
TH 2	V 8/9	7°	GL	2.5	O/B		4	
(U/V-8/9)			2.5	10.5	mls, sls			
			10.5	12	COAL			
			12	14	mls	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: J. ANSON	Signature: Jason Anson	For Client:
Assistant: J. SEEL		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	17.04.23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N25		V	GL	2.50	O/B		4	
				13.50	MST / SST			
				14.50	COAL			
				16.00	MST / SST	FWR		
N26		V	GL	2.75	O/B		4	
				13.50	MST / SST			
				14.50	COAL			
				16.06	MST / SST	FWR		
N27		V	GL	2.75	O/B		4	
				13.00	MST / SST			
				14.00	COAL			
				16.06	MST / SST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. PARK
Assistant:
Signature:
For Client:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water	
Project No.	TD8510		Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd		Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council		Date	17.04.23	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N11		V	GL	2.50	O/B		4	
				14.00	MST/SST			
				15.50	COAL			
				25.00	MST/SST	FWR		
N23		V	GL	2.50	O/B		4	
				13.00	MST/SST			
				14.00	COAL			
				15.00	MST/SST	FWR		
N24		V	GL	2.50	O/B		4	
				13.50	MST/SST			
				14.50	COAL			
				16.00	MST/SST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. PRICE	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 17 04 23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N28		V	GL	3.00	O/B		4	
				13.50	MST/SST			
				14.50	COAL			
				16.00	MST/SST	FRE		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. PARK	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R.12
Employer	Barnsley Metropolitan Borough Council							Date	17/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
J 17		VERT	G/L	2-50	OVERBURDEN	Full	3m.	
			2-50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	25.00	SANDSTONE			

Breakdowns	Obstructions	Standing Time
FLUSH BOTTLE SEALS CHANGED 4:20 5pm.	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller: AC HARVEY	Signature:	For Client:
Assistant: H LAPPIN		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	18/04/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
M37		V	GL	2.50	O/B		4	
				10.50	MST/SST			
				11.00	COAL			
				15.00	MST/SST	FLR		
M36		V	GL	2.50	O/B		4	
				11.00	MST/SST			
				11.75	COAL			
				15.00	MST	FLR		
M35		V	GL	2.50	O/B		4	
				11.25	MST/SST			
				11.75	COAL			
				15.00	MST/SST	FLR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. Peck	Signature:	For Client:	
Assistant:			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	18/04/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N35		V	GL	2.75	O/B		4	
				11.75	MST/SST			
				12.75	COAL			
				15.00	MST/SST	FLR		
N36		V	GL	2.75	O/B		4	
				11.00	MST/SST			
				11.50	COAL			
				15.00	MST/SST	FLR		
N37		V	GL	2.75	O/B		4	
				10.50	MST/SST			
				11.00	COAL			
				15.00	MST/SST	FLR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. PARR	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	18/04/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N32		V	GL	3.00	O/B		4	
				12.00	MST/SST			
				13.50	COAL			
				15.00	MST/SST	FWR		
N33		V	GL	3.00	O/B		4	
				12.00	MST/SST			
				13.50	COAL			
				15.00	MST/SST	FWR		
N34		V	GL	2.75	O/B		4	
				11.75	MST/SST			
				12.75	COAL			
				15.00	MST/SST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. PACK	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	18/04/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N29		V	GL	2.75	O/B		4	
				12.50	MST/SST			
				14.00	COAL			
				15.00	MST/SST	FWE		
N30		V	GL	2.75	O/B		4	
				12.00	MST/SST			
				13.75	COAL			
				15.00	MST/SST	FWE		
N31		V	GL	2.75	O/B		4	
				12.00	MST/SST			
				13.75	COAL			
				15.00	MST/SST	FWE		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. PARL	Signature:	For Client:	
Assistant:			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	18/04/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
M34		V	CH	2.50	O/B		4	
				11.75	MST/SST			
				12.75	COAL			
				15.00	MST/SST	FWR		
M33		V	CH	2.75	O/B		4	
				12.00	MST/SST			
				13.50	COAL			
				15.00	MST/SST	FWR		
M32		V	CH	2.75	O/B		4	
				12.00	MST/SST			
				14.00	COAL			
				15.00	MST/SST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. PARK	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	272
Employer	Barnsley Metropolitan Borough Council					Date	18/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
J10		VERT	G/L	2.50	C/S	L/F	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	BROKEN GROUND			
			15.50	16.50	HARD STRATA			
J9		VERT	G/L	2.50	C/S	FULL	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.00	COAL			
			15.00	16.00	SANDSTONE			
J8		VERT	G/L	2.50	C/S			
			2.50	13.50	SANDSTONE	FULL	3m	
			13.50	15.00	COAL			
			15.00	16.00	SANDSTONE			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: R CHAMBERLAIN Signature: For Client:

Assistant: H LAPPIN

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R72
Employer	Barnsley Metropolitan Borough Council							Date	18/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
J7		VERT	c/l	2.50	c/s	Full	3m	
			2.50	13.50	Sandstone			
			13.50	15.00	Coal			
			15.00	16.00	Sandstone			
J6		VERT	c/l	2.50	c/s			
			2.50	13.50	Sandstone	Full	3m	
			13.50	15.00	Coal			
			15.00	16.00	Sandstone			
J5		VERT	c/l	3m	c/s	Full	3m	
			3m	13.50	Sandstone			
			13.50	15.00	Coal			
			15.00	16.00	Sandstone			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: [illegible] Signature: [illegible] For Client:

Assistant: [illegible]

SOIL ENGINEERING

Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R72
Employer	Barnsley Metropolitan Borough Council							Date	18/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
J 13		VERT	G/L	2.50	C/S	FWR	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
J 12		VERT	G/L	2.50	C/S	FWR	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
J 11		VERT	G/L	2.50	C/S	L/F	3m	
			2.50	13.00	SANDSTONE			
			13.00	15.50	BROKEN GROUND			
			15.50	16.50	HARD STRATA			

Breakdowns	Obstructions	Standing Time
/	/	/

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
/	/	Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	1272.
Employer	Barnsley Metropolitan Borough Council					Date	18/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
J16		VERT	GL	2.50	C/B	Full	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
J15		VERT	GL	2.50	C/B	Full	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
J14		VERT	GL	2.50	C/B	Full	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
-	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller: R Holmes	Signature:	For Client:	
Assistant: H Lapping			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	SOIL ENGINEERING Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R72
Employer	Barnsley Metropolitan Borough Council							Date	19/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
G17		V	G/L	2.50	C/B	Full	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
G16		V	G/L	2.50	C/B	Full	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
G15		VERT	G/L	2.50	C/B	Full	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDS			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: ACTIVITY	Signature:	For Client:	
Assistant: IT LAPPIN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	RT2
Employer	Barnsley Metropolitan Borough Council							Date	21/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
H 11		VERT	G/L	2.50	G/L	FULL	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
H12		VERT	G/L	2.50	G/L	FULL	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
H 13		VERT	G/L	2.50	G/L	FULL	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
-	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller: ACHAMPONG Signature: For Client:

Assistant: H LAPPIN

SOIL ENGINEERING

Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water	
Project No.	TD8510		Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd		Rig Number	R 72	
Employer	Barnsley Metropolitan Borough Council		Date	17/4/23	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
G-11		✓	c/t	2.50	c/t	Full	3m	
			2.50	14.00	SANDSTONE			
			14.00	15.50	COAL			
			15.50	16.50	SANDSTONE			
H 9		✓	c/t	2.50	c/t	FULL	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.00	COAL			
			15.00	16.00	SANDSTONE			
H 10		✓	c/t	2.50	c/t	Full	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: ACHAZENOV Signature: Achazenov For Client:

Assistant: H LAPPIN

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	19 04 23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
L24		V	CH	2.50	O/B		4	
				13.00	MST/SST			
				14.50	COAL			
				16.00	MST/SST	FAIR		
L25		V	CH	2.50	O/B		4	
				13.00	MST/SST			
				14.50	COAL			
				16.00	MST/SST	FAIR		
L26		V	CH	2.75	O/B		4	
				13.50	MST/SST			
				14.50	COAL			
				16.00	MST/SST	FAIR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. DALE	Signature:	For Client:	
Assistant:			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	19.04.23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
L21		V	GL	2.50	O/B		4	
				13.50	MST/SST			
				15.00	COAL			
				16.00	MST/SST	FWR		
L22		V	GL	2.50	O/B		4	
				13.50	MST/SST			
				15.00	COAL			
				16.00	MST/SST	FWR		
L23		V	GL	2.50	O/B		4	
				13.25	MST/SST			
				14.75	COAL			
				16.00	MST/SST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. PARE Signature: For Client:

Assistant:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: RB1
Employer	Barnsley Metropolitan Borough Council		Date: 14 04 23

Start of shift: 7:30	End of shift: 17:30	Total hours: 10:00	Hole Diameter (mm): 63mm	Casing Diameter (mm): 88.9mm	Casing Type: Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
M25		V	GL	2.50	O/B		4	
				13.00	MST/SST			
				14.50	CLAY			
				16.00	MST/SST	FWR		
M24		V	GL	2.50	O/B		4	
				13.00	MST/SST			
				14.50	CLAY			
				16.00	MST/SST	FWR		
M23		V	GL	2.50	O/B		4	
				13.00	MST/SST			
				14.50	CLAY			
				16.00	MST/SST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. PARK Signature: [signature] For Client:

Assistant:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	RS1
Employer	Barnsley Metropolitan Borough Council					Date	19.04.23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
M28		V	GL	2.50	O/B		4	
				12.50	MST/SST			
				14.00	COAL			
				15.00	MST/SST	FWR		
M27		V	GL	2.50	O/B		4	
				13.00	MST/SST			
				14.50	COAL			
				16.00	MST/SST	FWR		
M26		V	GL	2.50	O/B		4	
				13.00	MST/SST			
				14.50	COAL			
				16.00	MST/SST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. PARK Signature: For Client:

Assistant:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley			**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	19 04 23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
M31		V	GL	2.50	O/B		4	
				12.00	MST/SST			
				13.50	COAL			
				15.00	MST/SST	FWR		
M30		V	GL	2.50	O/B		4	
				12.00	MST/SST			
				13.50	COAL			
				15.00	MST/SST	FWR		
M29		V	GL	2.50	O/B		4	
				12.00	MST/SST			
				14.00	COAL			
				15.00	MST/SST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. PARK	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R72
Employer	Barnsley Metropolitan Borough Council					Date	19/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
G14		VERT	G/L	2.50	C/B	FWR	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
G13		V	G/L	2.50	C/B	FWR	3m.	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
G12		V	G/L	2.50	C/B	FWR	3m.	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: D Murray
Assistant: H Lapsin
Signature:
For Client:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	RS1
Employer	Barnsley Metropolitan Borough Council							Date	20 04 23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
L27		V	GL	2.75	O/B		4	
				13.00	MST/SST			
				14.50	COAL			
				16.00	MST	FWR		
L28		V	GL	2.75	O/B		4	
				13.00	MST/SST			
				14.50	COAL			
				16.00	MST/SST	FWR		
L29		V	GL	2.75	O/B		4	
				13.00	MST/SST			
				14.00	COAL			
				15.00	MST/SST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. PARR Signature: For Client:

Assistant:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water	
Project No.	TD8510		Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd		Rig Number	RB1	
Employer	Barnsley Metropolitan Borough Council		Date	20 04 23	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
L30		V	GL	2.75	O/B		4	
				13.00	MST/SST			
				14.00	CGSL			
				15.00	MST/SST	FWR		
L31		V	GL	2.75	O/B		4	
				12.00	MST/SST			
				13.50	CGSL			
				15.00	MST/SST	FWR		
L32		V	GL	2.75	O/B		4	
				12.50	MST/SST			
				13.50	CGSL			
				15.00	MST/SST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D - PARK Signature: For Client:

Assistant:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	20 04 23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
L33		V	GL	2.75	O/B		4	
				12.00	MST/SST			
				13.50	COAL			
				15.00	MST/SST	FWR		
L34		V	GL	2.75	O/B		4	
				12.00	MST/SST			
				13.50	COAL			
				15.00	MST/SST	FWR		
L35		V	GL	2.75	O/B		4	
				12.00	MST/SST			
				13.50	COAL			
				15.00	MST/SST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. PARK	Signature:	For Client:	
Assistant:			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	SOIL ENGINEERING Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R81
Employer	Barnsley Metropolitan Borough Council							Date	20 04 23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
K30		V	GL	2.75	O/B		4	
				13.00	MST/SST			
				14.50	COAL			
				16.00	MST/SST	FNR		
K29		V	GL	2.75	O/B		4	
				13.00	MST/SST			
				14.50	COAL			
				16.00	MST/SST	FNR		
K28		V	GL	2.75	O/B		4	
				13.00	MST/SST			
				14.50	COAL			
				16.00	MST/SST	FNR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. PARK Signature: For Client:

Assistant:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	20 4 23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
K27		V	GL	2.50	O/B		4	
				13.00	MST/SST			
				14.50	COAL			
				16.00	MST/SST	Fine		
K26		V	GL	2.50	O/B		4	
				13.00	MST/SST			
				14.50	COAL			
				16.00	MST/SST	Fine		
K25		V	GL	2.50	O/B		4	
				13.00	MST/SST			
				14.50	COAL			
				16.00	MST/SST	Fine		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. PAEL	Signature:	For Client:	
Assistant:			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL engineering
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R72
Employer	Barnsley Metropolitan Borough Council							Date	20/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
H 14		VERT	GL	2.50	C/B	Full	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
K 8		VERT	GL	2.50	C/B	L/F	3m	
			2.50	12.00	SANDSTONE			
			12.00	16.00	BROKEN/GROUND			
			16.00	17.00	HARD STRATA			
K 9		VERT	GL	2.50	C/B	Full	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
-	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller: ACHAMLEY	Signature:	For Client:	
Assistant: H LAPPIN			

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R72	
Employer	Barnsley Metropolitan Borough Council				Date	20/4/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
H17		VERT	GL	2.50	C/B	FWR	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
H16		VERT	GL	2.50	C/B	FWR	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
H15		VERT	GL	2.50	C/B	FWR	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
/	/	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
/		Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R12
Employer	Barnsley Metropolitan Borough Council		Date: 20/4/23

Start of shift	End of shift	Total hours	Hole Diameter (mm)	Casing Diameter (mm)	Casing Type
7:30	17:30	10:00	63mm	88.9mm	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
K10		VERT	GL	2.50	C/S	FULL	3m.	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
K11		VERT	GL	2.50	C/S	L/F	3m	
			2.50	9.00	SANDSTONE			
			9.0	15.50	BROKEN/GROUND			
			15.50	16.50	HARD/STRATA			
K12		VERT	GL	2.50	C/S	L/F	3m	
			2.50	12.00	SANDSTONE			
			12.00	15.50	BROKEN/GROUND			
			15.50	16.50	HARD/STRATA			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: ACHARRY
Assistant: H LARSEN
Signature:
For Client:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley				**Rotary Percussive Log Sheet**	Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R72
Employer	Barnsley Metropolitan Borough Council					Date	20/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
K13		VERT	GL	2.50	C/B	L/F	3m	
			2.50	13.00	SANDSTONE			
			13.00	15.00	SOFT/GROUND			
			15.00	16.00	HARD/STRATA			
K14		VERT	GL	2.50	C/B	F.WL	3m	
			2.50	13.00	SANDSTONE			
			13.00	15.00	COAL			
			15.00	16.00	SANDSTONE			
K15		VERT	GL	2.50	C/B	F.WL	3m	
			2.50	13.00	SANDSTONE			
			13.00	15.00	COAL			
			15.00	16.00	SANDSTONE			

Breakdowns	Obstructions	Standing Time
–	–	–

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
–	–	Length Width Depth m

Driller: Rc Mahony Signature: Mahony For Client:

Assistant: H Lappin

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	E81
Employer	Barnsley Metropolitan Borough Council							Date	21 04 23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
K19		V	GL	2.50	O/B		4	
				13.50	MST/SST			
				15.00	COAL			
				16.00	MST	FWR		
K20		V	GL	2.50	O/B		4	
				13.50	MST/SST			
				15.00	COAL			
				16.00	MST/SST	FWR		
K21		V	GL	2.50	O/B		4	
				13.50	MST/SST			
				15.00	COAL			
				16.00	MST/SST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. PARK Signature: For Client:

Assistant:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	21 04 23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
K22		V	GL	2.50	O/B		4	
				13.00	MST/SST			
				14.50	COAL			
				16.00	MST	FNA		
K23		V	GL	2.50	O/B		4	
				13.00	MST/SST			
				14.50	COAL			
				16.00	MST/SST	FNA		
K24		V	GL	2.50	O/B		4	
				13.00	MST/SST			
				14.50	COAL			
				16.00	MST/SST	FNA		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. Amec Signature: For Client:

Assistant:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	21 04 23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N38		V	GL	2.75	G/B		4	
				11 00	MST/SST			
				12 00	COAL			
				15 00	MST/SST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: D. PARR	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R72
Employer	Barnsley Metropolitan Borough Council					Date	21/12/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
L7		VERT	GL	2.50	C/S	UK	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.00	BROKEN/GROUND			
			15.00	16.00	HARD STRATA			
L6		VERT	GL	2.50	C/S	FULL	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.00	COAL			
			15.00	16.00	SANDSTONE			

Breakdowns	Obstructions	Standing Time
-	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller: AC Hanley	Signature:	For Client:	SOIL ENGINEERING
Assistant: H Langton			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R72.	
Employer	Barnsley Metropolitan Borough Council				Date	21/4/23	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
L16		VERT	0.0	2.50	C/B	Full	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.00	COAL			
			15.00	16.00	SANDSTONE			
L9		VERT	0.0	2.50	C/B	4/F	3m	
			2.50	11.00	SANDSTONE			
			11.00	15.00	BICKEN/GROUND			
			15.00	16.00	HARD/STRATA			
L8		VERT	0.0	2.50	C/B	Full	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.00	COAL			
			15.00	16.00	SANDSTONE			

Breakdowns	Obstructions	Standing Time
/	/	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	272
Employer	Barnsley Metropolitan Borough Council					Date	21/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
L 13		V	d/c	2.5C	d/s	L/F	3m	
			2.5C	13.CC	SANDSTONE			
			13 CC	15.00	BOULDERS/GRAVELS			
			15.CC	16.CC	HARD/STRATA			
L 12		VGH	d/c	2.5C	d/s			
			2.5C	13.5C	SANDSTONE	F/R	3m	
			13.5C	15.CC	COAL			
			15.CC	16.CC	SANDSTONE			
L 11		VGH	d/c	2.5C	d/s	L/F	3m	
			2.5C	13.5C	SANDSTONE			
			13.5C	15.CC	SOFT GROUND			
			15.CC	16.CC	HARD/STRATA			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R72.
Employer	Barnsley Metropolitan Borough Council							Date	24/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
L5		VERT	dc	0		L/F	3m	
			0	8.50	SOFT/BACKFILL			
			8.50	15.50	BROKEN GROUND			
			15.50	16.50	HARD/STRATA			
L4		VERT	dc	3m	C/B	L/F	3m	
			3m	14.00	SANDSTONE			
			14.00	15.50	BROKEN/GROUND			
			15.50	16.50	HARD/STRATA			
L3		VERT	dc	3m	C/B	FWR	3m	
			3m	14.00	SANDSTONE			
			14.00	15.50	COAL			
			15.50	16.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: ACHARNLEY	Signature:	For Client:	
Assistant: H LAPPIN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	SOIL ENGINEERING Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R72
Employer	Barnsley Metropolitan Borough Council							Date	24/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
L2		VERT	GL	3m	C/S	L/F	3m	
			3m	14.CC	SANDSTONE			
			14.CC	15.SC	BROKEN GROUND			
			15.SC	16.SC	HARD STRATA			
L1		VERT	GL	3m	C/S	FULL	3m.	
			3m	14.CC	SANDSTONE			
			14.CC	15.SC	COAL			
			15.SC	16.SC	SANDSTONE			
L7		VERT	GL	2.SC	C/S	L/F	3m	
			2.SC	11.CC	SANDSTONE			
			11.CC	15.SC	BROKEN GROUND			
			15.SC	16.SC	HARD STRATA			

Breakdowns	Obstructions	Standing Time
/	/	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller:	Signature:	For Client:
Assistant: H LAPPIN		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R 72
Employer	Barnsley Metropolitan Borough Council							Date	24/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
K6		VERT	GL	2.5C	C/S	C/F	3m	
			2.5C	14.CC	SANDSTONE			
			14.CC	15.5C	BROKEN/MADE GROUND			
			15.5C	16.5C	HARD STRATA			
K5		VERT	GL	2.5C	C/S	FWR	3m	
			2.5C	14.CC	SANDSTONE			
			14.CC	15.5C	COAL			
			15.5C	16.5C	SANDSTONE			
M3		VERT	GL	2.5C	C/S	C/F	3m	
			2.5C	14.CC	SANDSTONE			
			14.CC	15.5C	SOFT GROUND			
			15.5C	16.5C	HARD STRATA			

Breakdowns	Obstructions	Standing Time
13:30 – 15:CC FITTER CHANGING FLUSH BOTTLE + WELDING CLAMP PAD ON	–	–

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
–	–	Length Width Depth m

Driller: ADAMS	Signature:	For Client:
Assistant: H CHAPMAN		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley				**Rotary Percussive Log Sheet**	Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	24/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N39			0	2.75	Overburden	Rwr	3	
			2.75	11.0	Sandstone			
			11.0	12.0	Coal			
			12.0	18.0	Sandstone			
N40			0	2.75	Overburden	Rwr	3	
			2.75	11.0	Sandstone			
			11.0	12.0	Coal			
			12.0	15.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C STOREY Signature: For Client:

Assistant:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510								Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd								Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council								Date	24/4/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N41			0	3.0	Overburden	AIR	3	
			3.0	11.0	Sandstone			
			11.0	12.0	Coal			
			12.0	15.0	Sandstone			
N42			0	3.0	Overburden	AIR	3	
			3.0	11.0	Sandstone			
			11.0	12.0	Coal			
			12.0	15.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C STUART	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley			**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	24/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N43			0	3.0	Overburden	FLUR	3	
			3.0	11.0	Sandstone			
			11.0	12.0	Coal			
			12.0	15.0	Sandstone			
N44			0	3.0	Overburden	FLUR	3	
			3.0	11.0	Sandstone			
			11.0	12.0	Coal			
			12.0	15.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: P STERLA	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R72
Employer	Barnsley Metropolitan Borough Council		Date: 25/4/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
G22		VERT	0A	2.50	C/B	FWR	3m	
			2.50	14.00	SANDSTONE			
			14.00	15.50	COAL			
			15.50	16.50	SANDSTONE			
G21		VERT	0A	2.50	C/B	FWR	3m	
			2.50	14.00	SANDSTONE			
			14.00	15.50	COAL			
			15.50	16.50	SANDSTONE			
G20		VERT	0A	2.50	C/B	FWR	3m	
			2.50	14.00	SANDSTONE			
			14.00	15.50	COAL			
			15.50	16.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
-	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller: A C HARDY
Assistant: H CAPPIN
Signature:
For Client:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R72	
Employer	Barnsley Metropolitan Borough Council				Date	25/4/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
E21		VERT	G/L	2m	C/S	Full	3m	
			2m	14.00	SANDSTONE			
			14.00	15.50	COAL			
			15.50	16.50	SANDSTONE			
E23		VERT	G/L	2m	C/S	Full	3m	
			2m	14.00	SANDSTONE			
			14.00	15.50	COAL			
			15.50	16.50	SANDSTONE			
G23		VERT	G/L	2m	C/S	Full	3m	
			2m	14.00	SANDSTONE			
			14.00	15.50	COAL			
			15.50	16.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: ACHANNON	Signature:	For Client:	
Assistant: H LAPPIN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	SOIL ENGINEERING Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R72
Employer	Barnsley Metropolitan Borough Council					Date	25/4/25
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
E15		VERT	d/c	2.50	d/c	Full	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
E17		VERT	d/c	2.50	d/c	Full	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
E19		VERT	d/c	2.50	d/c	Full	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
/	/	/

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
/	/	Length Width Depth m

Driller:	Signature:	For Client:
Assistant: H LAMB		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	RT2	
Employer	Barnsley Metropolitan Borough Council				Date	25/4/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
M4		VERT	GL	2.50	C/S	C/F	3m	
			2.50	11.00	SANDSTONE			
			11.00	15.50	S/ BROKEN/ GROUND			
			15.50	16.50	HARD FLUSH			
E11		VERT	GL	2.50	C/S	FWR	3m	
			2.50	14.00	SANDSTONE			
			14.00	15.50	COAL			
			15.50	16.50	SANDSTONE			
E13			GL	2.50	C/S	FWR	3m	
			2.50	14.00	SANDSTONE			
			14.00	15.50	COAL			
			15.50	16.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: [illegible] Signature: [illegible] For Client:

Assistant: [illegible]

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R72	
Employer	Barnsley Metropolitan Borough Council				Date	25/4/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
G 19		VERT	GL	2.50	MADE GROUND	FULL	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
-	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller: ROTHERHAM	Signature:	For Client:	SOIL ENGINEERING
Assistant: H LAPPIN			Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 25/4/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm) 63mm	Casing Diameter (mm) 88.9mm	Casing Type: Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
WH8			0	3.5	Overburden	FWR	4	
			3.5	9.5	Sandstone			
			9.5	11.0	Coal			
			11.0	14.0	Sandstone			
WH7			0	3.0	Overburden	FWR	3	
			3.0	9.5	Sandstone			
			9.5	11.0	Coal			
			11.0	14.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C STUART	Signature:	For Client:	
Assistant: S LAPPIN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	25/4/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
M50			0	3.5	Overburden	PWR	4	
			3.5	9.0	Sandstone			
			9.0	10.5	Coal			
			10.5	14.0	Sandstone			
M49			0	3.5	Overburden	PWR	4	
			3.5	9.5	Sandstone			
			9.5	11.0	Coal			
			11.0	14.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C SKIRVA Signature: [signature] For Client:

Assistant: J LAWSON

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water
Project No.	TD8510		Rig Type	SM-14
Engineer	Abbeydale BEC Ltd		Rig Number	RB1
Employer	Barnsley Metropolitan Borough Council		Date	25/4/25

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N53			0	3.5	Overburden	Rtn	4	
			3.5	9.0	Sandstone			
			9.0	10.5	Coal			
			10.5	13.0	Sandstone			
N51			0	3.5	Overburden	Rtn	4	
			3.5	8.5	Sandstone			
			8.5	10.0	Coal			
			10.0	12.0	Hard			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C STOCKS	Signature:	For Client:
Assistant: J LAPPIN		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	1281
Employer	Barnsley Metropolitan Borough Council							Date	25/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm) 63mm	Casing Diameter (mm) 88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N51			0	3.5	Overburden	NWR	4	
			3.5	8.5	Sandstone			
			8.5	10.5	Soft			
			10.5	14.0	Hard			
N52			0	3.5	Overburden	NWR	4	
			3.5	8.5	Sandstone			
			8.5	10.5	Soft			
			10.5	14.0	Hard			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C Stuart Signature: For Client:

Assistant: T Lappin

SOIL ENGINEERING

Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	25/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N49			0	3.0	Overburden	NWR	3	
			3.0	8.5	Sandstone			
			8.5	11.5	Soft			
			11.5	15.0	Hard			
N50			0	3.0	Overburden	NWR	3	
			3.0	7.5	Sandstone			
			7.5	10.5	Soft			
			10.5	14.0	Hard			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C STANLEY	Signature:	For Client:	
Assistant: J LAPPIN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	RB1	
Employer	Barnsley Metropolitan Borough Council				Date	25/4/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N47			0	3.0	Overburden	NWR	3	
			3.0	9.0	Sandstone			
			9.0	12.0	Soft			
			12.0	15.0	Hard			
N48			0	3.0	Overburden	NWR	3	
			3.0	8.5	Sandstone			
			8.5	11.5	Soft			
			11.5	15.0	Hard			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C STUBBS	Signature:	For Client:	
Assistant: J LAPPIN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	1281	
Employer	Barnsley Metropolitan Borough Council				Date	25/4/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N45			0	3.0	Overburden	NWR	3	
			3.0	9.0	Sandstone			
			9.0	12.0	Soft			
			12.0	15.0	Hard			
N46			0	3.0	Overburden	NWR	3	
			3.0	9.0	Sandstone			
			9.0	12.0	Soft			
			12.0	15.0	Hard			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C STOCKS	Signature:	For Client:	
Assistant: J LAPPIN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	SOIL ENGINEERING Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R72
Employer	Barnsley Metropolitan Borough Council							Date	26/6/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
J21		✓	GL	2.50	C/M	FWR	3m	
			2.50	13.00	SANDSTONE			
			13.00	15.00	COAL			
			15.00	16.00	SANDSTONE			
J20		VERT	GL	2.50	C/M	FWR	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
J19		VERT	GL	2.50	C/M	FWR	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
✓	—	Length Width Depth m

Driller: DOHARTY	Signature:	For Client:
Assistant: LEWPIN		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water	
Project No.	TD8510		Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd		Rig Number	R72	
Employer	Barnsley Metropolitan Borough Council		Date	26/4/23	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination °	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
G 18		VERT	ch	2.50	ch	FWR	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.00	16.50	SANDSTONE			
J 23		VERT	ch	2.50	ch	FWR	3m	
			2.50	13.00	SANDSTONE			
			13.00	15.00	COAL			
			15.00	16.00	SANDSTONE			
J 22		VERT	ch	2.50	ch	FWR	3m	
			2.50	13.00	SANDSTONE			
			13.00	15.00	COAL			
			15.00	16.00	SANDSTONE			

Breakdowns	Obstructions	Standing Time
✓	✓	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
✓	✓	Length Width Depth m

Driller: D CHADWICK	Signature:	For Client:
Assistant: I LAPPIN		

Form No. SE-GES-F-008 Issue No.Revision No. 2.05 Issue Date 03/05/2019

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R72
Employer	Barnsley Metropolitan Borough Council		Date: 26/4/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination °	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
J 18		V	c/f	2.50	c/s	Flush	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
H23		V	c/f	2.50	c/s	Flush	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
H 22		V	c/f	2.50	c/s	Flush	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
✓	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: Anthony	Signature:	For Client:
Assistant: H Lappin		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510								Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd								Rig Number	R72	
Employer	Barnsley Metropolitan Borough Council								Date	26/4/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
H21		✓	GL	2.50	C/B	Full	3m	
			2.50	13.50	Sandstone			
			13.50	15.50	Coal			
			15.50	16.50	Sandstone			
H20		✓	GL	2.50	C/B	Full	3m	
			2.50	13.50	Sandstone			
			13.50	15.50	Coal			
			15.50	16.50	Sandstone			
H19		VERT	GL	2.50	C/B	Full	3m	
			2.50	13.50	Sandstone			
			13.50	15.50	Coal			
			15.50	16.50	Sandstone			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller:	Signature:	For Client:
Assistant: H Lappin		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510								Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd								Rig Number	R72	
Employer	Barnsley Metropolitan Borough Council								Date	26/4/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination ⊂	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
H18		✓	0	2.50	C/A	Full	3m	
			2.50	13.50	Sandstone			
			13.50	15.50	Coal			
			15.50	16.50	Sandstone			

Breakdowns	Obstructions	Standing Time
✓	✓	✓

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
✓	✓	Length Width Depth m

Driller: A CHARLTON	Signature:	For Client:	SOIL ENGINEERING
Assistant: H LAWTON			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 26/4/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
W38			0	3.0	Overburden	Air	3	
			3.0	11.5	Sandstone			
			11.5	13.0	Coal			
			13.0	15.0	Sandstone			
P24			0	3.5	Overburden	Air	4	
			3.5	12.5	Sandstone			
			12.5	14.0	Coal			
			14.0	15.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: CSIRIA	Signature:	For Client:
Assistant: J LAPIN		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	26/4/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
M40			0	3.0	Overburden	Air	3	
			3.0	11.5	Sandstone			
			11.5	13.0	Coal			
			13.0	15.0	Sandstone			
M39			0	3.0	Overburden	Air	3	
			3.0	11.5	Sandstone			
			11.5	13.0	Coal			
			13.0	15.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C Stirrup	Signature:	For Client:
Assistant: T Lappin		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	26/4/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
M42			0	3.0	Overburden	Air	3	
			3.0	11.0	Sandstone			
			11.0	12.5	Coal			
			12.5	15.0	Sandstone			
M41			0	3.0	Overburden	Air	3	
			3.0	11.5	Sandstone			
			11.5	13.0	Coal			
			13.0	15.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C STARK	Signature:	For Client:	
Assistant: T LOGAN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water
Project No.	TD8510		Rig Type	SM-14
Engineer	Abbeydale BEC Ltd		Rig Number	R81
Employer	Barnsley Metropolitan Borough Council		Date	26/4/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
M44			0	3.0	Overburden	Pur	3	
			3.0	11.0	Sandstone			
			11.0	12.5	Coal			
			12.5	15.0	Sandstone			
M43			0	3.0	Overburden	Pur	3	
			3.0	11.0	Sandstone			
			11.0	12.5	Coal			
			12.5	15.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: K STURCH	Signature:	For Client:
Assistant: J LAMB		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	26/4/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
M46			0	3.0	Overburden	Rtn	3	
			3.0	10.0	Sandstone			
			10.0	11.5	Coal			
			11.5	14.0	Sandstone			
M45			0	3.0	Overburden	Rtn	3	
			3.0	10.0	Sandstone			
			10.0	11.5	Coal			
			11.5	14.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C STUART	Signature: C Stuart	For Client:	
Assistant: T LAPPIN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	26/4/23	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R24	P24	25°	0	4.0	Overburden	Wtr	4	
			4.0	13.0	Sandstone			
			13.0	14.5	Coal			
			14.5	17.0	Sandstone			
R24	P24	13°	0	4.0	Overburden	Wtr	4	
			4.0	13.0	Sandstone			
			13.0	14.5	Coal			
			14.5	17.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: O SHAW	Signature:	For Client:	
Assistant: J LAPPIN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510								Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd								Rig Number	RT2	
Employer	Barnsley Metropolitan Borough Council								Date	27/4/22	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
G26		V	GL	2.50	C/B	Full	3m.	
			2.50	13.00	SANDSTONE			
			13.00	15.00	COAL			
			15.00	16.00	SANDSTONE			
H26		VERT	GL	2.50	C/B			
			2.50	13.00	SANDSTONE	Full	3m	
			13.00	15.00	COAL			
			15.00	16.00	SANDSTONE			
H25		VERT	GL	2.50	C/B	Full	3m.	
			2.50	13.00	SANDSTONE			
			13.00	15.00	COAL			
			15.00	16.00	SANDSTONE			

Breakdowns	Obstructions	Standing Time
/	/	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
/	/	Length Width Depth m

Driller: Anthony	Signature:	For Client:
Assistant: H Lappin		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510								Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd								Rig Number	RTZ	
Employer	Barnsley Metropolitan Borough Council								Date	27/4/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination ⊂	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
H28		✓	G/L	2.50	C/M	Full	3m	
			2.50	13.00	Sandstone			
			13.00	15.00	Coal			
			15.00	16.00	Sandstone			
H27		✓	G/L	2.50	C/M	Full	3m	
			2.50	13.00	Sandstone			
			13.00	15.00	Coal			
			15.00	16.00	Sandstone			
G27		✓	G/L	2.50	C/M	Full	3m	
			2.50	13.00	Sandstone			
			13.00	15.00	Coal			
			15.00	16.00	Sandstone			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: Acharney	Signature: Acharney	For Client:
Assistant: H Lapping		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R72
Employer	Barnsley Metropolitan Borough Council							Date	27/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
J27		✓	GL	2.50	C/S	Full	3m	
			2.50	13.00	Sandstone			
			13.00	15.00	Coal			
			15.00	16.00	Sandstone			
J28		✓	GL	2.50	C/S	Full	3m	
			2.50	13.00	Sandstone			
			13.00	15.00	Coal			
			15.00	16.00	Sandstone			
J29		✓	GL	2.50	C/S	Full	3m	
			2.50	13.00	Sandstone			
			13.00	15.00	Coal			
			15.00	16.00	Sandstone			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller:	Signature:	For Client:
Assistant: H Lappin		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R72
Employer	Barnsley Metropolitan Borough Council							Date	27/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination ⊂	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
J24		✓	dc	2.50	c/s	Fwk	3m	
			2.50	13.00	Sandstone			
			13.00	15.00	Coal			
			15.00	16.00	Sandstone			
J25		✓	dc	2.50	c/s	Fwk	3m	
			2.50	13.00	Sandstone			
			13.00	15.00	Coal			
			15.00	16.00	Sandstone			
J26		✓	dc	2.50	c/s	Fwk	3m	
			2.50	13.00	Sandstone			
			13.00	15.00	Coal			
			15.00	16.00	Sandstone			

Breakdowns	Obstructions	Standing Time
-	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller: ACHAIZMY	Signature:	For Client:	
Assistant: H LAFFIN			

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510								Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd								Rig Number	R72	
Employer	Barnsley Metropolitan Borough Council								Date	27/4/22	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
G25		V	G/L	2.50	G/S	Full	3m	
			2.50	13.00	SANDSTONE			
			13.00	15.00	COAL			
			15.00	16.00	SANDSTONE			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: AC HAWLEY	Signature:	For Client:	
Assistant: HLAPPLE			

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	27/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
Q28	P28	15°	0	4.0	Overburden	Part	4	
			4.0	12.5	Sandstone			
			12.5	14.0	Coal			
			14.0	15.0	Sandstone			
R28	P28	25°	0	4.0	Overburden	Part	4	
			4.0	13.0	Sandstone			
			13.0	14.5	Coal			
			14.5	17.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C SCOTT	Signature:	For Client:
Assistant: J LAPPIN		

SOIL engineering
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	27/4/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R27	P27	25°	0	4.0	Overburden	Air	4	
			4.0	13.0	Sandstone			
			13.0	14.5	Coal			
			14.5	17.0	Sandstone			
P28			0	3.5	Overburden	Air	4	
			3.5	12.0	Sandstone			
			12.0	13.5	Coal			
			13.5	15.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C STORIA	Signature:	For Client:	
Assistant: J LAPPIN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510								Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd								Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council								Date	27/4/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
P27			0	3.5	Overburden	Air	4	
			3.5	12.5	Sandstone			
			12.5	14.0	Coal			
			14.0	15.0	Sandstone			
Q27	P27	13°	0	4.0	Overburden	Air	4	
			4.0	12.5	Sandstone			
			12.5	14.0	Coal			
			14.0	15.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C STUBLEY Signature: For Client:

Assistant: S LAPPIN

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R81
Employer	Barnsley Metropolitan Borough Council							Date	27/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R26	P26	25°	0	4.0	Overburden	Rtn	4	
			4.0	13.0	Sandstone			
			13.0	14.5	Coal			
			14.5	17.0	Sandstone			
Q26	P26	13°	0	4.0	Overburden	Rtn	4	
			4.0	13.0	Sandstone			
			13.0	14.5	Coal			
			14.5	17.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: P STORR	Signature:	For Client:	
Assistant: T LAPPIN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510								Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd								Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council								Date	27/4/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R25	P25	25°	0	4·0	Overburden	Air	4	
			4·0	13·0	Sandstone			
			13·0	14·5	Coal			
			14·5	17·0	Sandstone			
P26			0	3·5	Overburden	Air	4	
			3·5	12·5	Sandstone			
			12·5	14·0	Coal			
			14·0	15·0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C STOTT	Signature:	For Client:	
Assistant: J LAPPIN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	27/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
P25			0	3.5	Overburden	Rtrn	4	
			3.5	12.5	Sandstone			
			12.5	14.0	Coal			
			14.0	15.0	Sandstone			
Q25	P25	13°	0	4.0	Overburden	Rtrn	4	
			4.0	13.0	Sandstone			
			13.0	14.5	Coal			
			14.5	17.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C STOCK	Signature:	For Client:	
Assistant: J LAPPIN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water
Project No.	TD8510		Rig Type	SM-14
Engineer	Abbeydale BEC Ltd		Rig Number	RT2
Employer	Barnsley Metropolitan Borough Council		Date	28/4/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
H24		VERT	ck	2.5C	C/S	Flush	3m	
			2.5C	13.CC	SANDSTONE			
			13.CC	15.CC	COAL			
			15.CC	16.CC	SANDSTONE			
G24		VERT	ck	2.5C	C/S	Flush	3m	
			2.5C	13.CC	SANDSTONE			
			13.CC	15.CC	COAL			
			15.CC	16.CC	SANDSTONE			
E25		VERT	ck	2.5C	C/S	Flush	3m	
			2.5C	13.CC	SANDSTONE			
			13.CC	15.CC	COAL			
			15.CC	16.CC	SANDSTONE			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: Anthony	Signature:	For Client:
Assistant: H Cappin		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R72
Employer	Barnsley Metropolitan Borough Council							Date	28/4/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
G10		VERT	GL	2.50	C/S	Full	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
G9		VERT	GL	2.50	C/S	Full	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE	Full	3m	
G8		VERT	GL	2.50	C/S			
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: A HARDY	Signature: A Hardy	For Client:	
Assistant: H CAPPIN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	SOIL ENGINEERING Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water
Project No.	TD8510		Rig Type	SM-14
Engineer	Abbeydale BEC Ltd		Rig Number	R 72
Employer	Barnsley Metropolitan Borough Council		Date	28/4/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
C7		VERT	GL	2.50	C/B	FWR	3m.	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
C9		VERT	GL	2.50	C/B	FWR	3m	
			2.50	14.00	SANDSTONE			
			14.00	15.50	COAL			
			15.50	16.50	SANDSTONE			
C11		VERT	GL	2.50	C/B	FWR	3m	
			2.50	14.00	SANDSTONE			
			14.00	15.50	COAL			
			15.50	16.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510								Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd								Rig Number	R72	
Employer	Barnsley Metropolitan Borough Council								Date	28/4/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
C13		VERT	GL	2.5C	C/S	Full	3m	
			2.5C	13.5C	Sandstone			
			13.5C	15.5C	Coal			
			15.5C	16.5C	Sandstone			

Breakdowns	Obstructions	Standing Time
/	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

Form No. SE-GES-F-008 Issue No.Revision No. 2.05 Issue Date 03/05/2019

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water
Project No.	TD8510		Rig Type	SM-14
Engineer	Abbeydale BEC Ltd		Rig Number	R81
Employer	Barnsley Metropolitan Borough Council		Date	28/4/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R31	P31	25°	0	3.5	Overburden	AIR	4	
			3.5	12.5	Sandstone			
			12.5	13.5	Coal			
			13.5	15.0	Sandstone			
P32			0	3.0	Overburden	AIR	3	
			3.0	11.5	Sandstone			
			11.5	12.5	Coal			
			12.5	15.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C STURLA	Signature:	For Client:	SOIL ENGINEERING
Assistant: J LAPPIN			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 28/4/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm) 63mm	Casing Diameter (mm) 88.9mm	Casing Type: Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
P29			0	3.0	Overburden	Rtn	3	
			3.0	12.0	Sandstone			
			12.0	13.5	Coal			
			13.5	15.0	Sandstone			
Q29	P29	13°	0	3.5	Overburden	Rtn	4	
			3.5	12.5	Sandstone			
			12.5	13.5	Coal			
			13.5	15.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C STOCKS	Signature: C Stocks	For Client:
Assistant: J LAPPIN		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: 1781
Employer	Barnsley Metropolitan Borough Council		Date: 28/4/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm) 63mm	Casing Diameter (mm) 88.9mm	Casing Type Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R29	P29	25°	0	3.5	Overburden	PWR	4	
			3.5	12.5	Sandstone			
			12.5	13.5	Coal			
			13.5	15.0	Sandstone			
P30			0	3.0	Overburden	PWR	3	
			3.0	12.0	Sandstone			
			12.0	13.0	Coal			
			13.0	15.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C STOCCA	Signature:	For Client:	SOIL ENGINEERING
Assistant: J LAPPIN			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 28/4/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
Q30	P30	13°	0	3.5	Overburden	PWR	4	
			3.5	12.5	Sandstone			
			12.5	13.5	Coal			
			13.5	15.0	Sandstone			
R30	P30	25°	0	3.5	Overburden	PWR	4	
			3.5	12.5	Sandstone			
			12.5	13.5	Coal			
			13.5	15.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: P STURLA	Signature:	For Client:
Assistant: J LAPPIN		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	28/4/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination °	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
P31			0	3.0	Overburden	PWR	3	
			3.0	12.0	Sandstone			
			12.0	13.0	Coal			
			13.0	15.0	Sandstone			
Q31	P31	13°	0	3.0	Overburden	PWR	3	
			3.0	12.0	Sandstone			
			12.0	13.0	Coal			
			13.0	15.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: P SHAW	Signature:	For Client:	
Assistant: J LAPPIN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	28/4/23	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination °	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R32	P32	25°	0	3.5	Overburden	Air	4	
			3.5	12.0	Sandstone			
			12.0	13.0	Coal			
			13.0	15.0	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: C Smith	Signature:	For Client:	SOIL ENGINEERING
Assistant: J Capan			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R72
Employer	Barnsley Metropolitan Borough Council					Date	2/5/25
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
M6		VERT	GL	2.50	C/S	L/F	3m	
			2.50	13.00	SANDSTONE			
			13.00	15.50	SOFT GROUND			
			15.50	16.50	HARD STRATA			
M5		VERT	GL	2.50	C/S	FWR	3m	
			2.50	14.00	SANDSTONE			
			14.00	15.50	COAL			
			15.50	16.50	SANDSTONE			
M2		VERT	GL	2.50	C/S	FWR	3m	
			2.50	14.00	SANDSTONE			
			14.00	15.50	COAL			
			15.50	16.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: ACADEMY	Signature: Academy	For Client:	SOIL ENGINEERING
Assistant: H CAPPIN			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510								Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd								Rig Number	1272	
Employer	Barnsley Metropolitan Borough Council								Date	2/5/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
C15		VERT	GL	2.50	C/B	FWR	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
C17		VERT	GL	2.50	C/B	FWR	3m.	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
C19		VERT	GL	2.50	C/B	FWR	3m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL.			
			15.50	16.80	SANDSTONE			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: AC HARDWICK	Signature:	For Client: —
Assistant: H LAPPIN		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R72
Employer	Barnsley Metropolitan Borough Council							Date	C21.
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
C21		VERT	G/L	2.50	C/B	F/R	~~3m~~	
			2.50	13.50	SANDSTONE			
			13.50	15.50	COAL			
			15.50	16.50	SANDSTONE			
C23		VERT	G/L	2.50	C/B	F/R	3m	
			2.50	13.00	SANDSTONE			
			13.00	15.00	COAL			
			15.00	16.00	SANDSTONE			
M7		VERT	G/L	2.50	C/B	F/R	3m	
			2.50	13.00	SANDSTONE			
			13.00	15.50	SILT/BROKEN GROUND			
			15.50	16.50	HARD/STRATA			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: ACHAKANY Signature: Assistant: A LAPPIN For Client:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley						**Rotary Percussive Log Sheet**		Flush Type	Water	
Project No.	TD8510								Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd								Rig Number	R72	
Employer	Barnsley Metropolitan Borough Council								Date	2/5/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
M1		VERT	GL	3m	C/S	F/F	3m	
			3m.	14.CC	SANDSTONE.			
			14 CC	15 SC	BROKEN/ GROUND			
			15 SC	16 SC	HARD STRATA			
Q1		31°	GL	3.SC	C/S	FULL	½m	
			3 SC	15 SC	SANDSTONE			
			15 CC	17.CC	COAL			
			17.CC	18 CC	SANDSTONE			
P1		32°	GL	3.SC	C/S	FULL	½m	
			3 SC	15 CC	SANDSTONE			
			15 CC	16.SC	COAL			
			16 CC	17.SC	SANDSTONE			

Breakdowns	Obstructions	Standing Time
-	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510								Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd								Rig Number	RT2	
Employer	Barnsley Metropolitan Borough Council								Date	2/5/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N1		11°	dc	3.50	c/s	L/F	4m	
			3.50	14.50	SANDSTONE			
			14.50	16.00	SCAT / GROUND			
			16.00	17.00	HAILES / STRATH			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	02-5-23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R36	P36	27°	GL	3.5	OVERBURDEN		4m	
			3.5	12	MDST			
			12	14	COAL			
			14	15	MDST	FWR		
P37		✓	GL	3	OVERBURDEN		4m	
			3	11.5	MDST			
			11.5	13	COAL			
			13	14	MDST	FWR		
Q37	P37	14	GL	3.5	OVERBURDED		4.	
			3.5	11.5	MDSTONE			
			11.5	13	COAL			
			13	14	MDSTONE	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: P. FORGAS	Signature:	For Client:	
Assistant: J. LAPPIN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	02-5-23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination ∠	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R34	P34	27°	GL	3.5	OVERBURDEN		4.	
			3.5	13	MDST			
			13	14.5	COAL			
			14.5	16	MDST	FWR		
P35		✓	GL	3.5	OVERBURDEN		4	
			3.5	11	MDST			
			11	12.5	COAL			
			12.5	14	MDST	FWR		
Q35	P35	14°	GL	3.5	OVERBURDEN		4.	
			3.5	11	MDST			
			11	13	COAL			
			13	14	MDST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: P. FORGIE	Signature:	For Client:	
Assistant: R. OATES			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R81	
Employer	Barnsley Metropolitan Borough Council				Date	02-5-23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R33	P33	27°	GL	3.5	OVERBURDEN		4	
			3.5	12.5	MUDSTONE			
			12.5	14	COAL			
			14	15	MUDSTONE	FWR		
P34		V	GL	3.5	OVERBURDEN		4	
			3.5	12.5	MDST			
			12.5	14	COAL			
			14	15	MDST	FWR		
Q34	P34	14°	GL	3.5	OVERBURDEN		4	
			3.5	12.5	MDST			
			12.5	14	COAL			
			14	15	MDST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: P. [illegible]	Signature:	For Client:	
Assistant:			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley				**Rotary Percussive Log Sheet**	Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	02-5-23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
Q32	P32	14°	ol	3.5	OVERBURDEN		4m	
			3.5	12	MST			
			12	13.5	COAL			
			13.5	15	MST	FWR		
P33		✓	ol	3	OVERBURDEN		3m	
			3	12	MST			
			12	13.5	COAL			
			13.5	15	MST	FWR		
Q33	P33	14°	ol	3	OVERBURDEN		3m	
			3	12.5	MST			
			12.5	14	COAL			
			14	15	MST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: Paul Forgie Signature: Paul Forgie For Client:

Assistant: J. LAPPIN

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley				**Rotary Percussive Log Sheet**	Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	02-5-23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R35	P35	27°	GL	3.8	OVERBURDEN		4m	
			3.8	11	MDST			
			11	13	COAL			
			13	14	MDST	FWR		
P36		V	GL	3.5	OVERBURDEN		4.	
			3.5	11	MDST			
			11	12.5	COAL			
			12.5	14	MDST	FWR		
Q36	P36	14°	GL	3.5	OVERBURDEN		4	
			3.5	11.5	MDST			
			11.5	13	COAL			
			13	14	MDST	FWR		

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: P. FORGIE	Signature:	For Client:	
Assistant: J LAPPIN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R81
Employer	Barnsley Metropolitan Borough Council							Date	02-5-23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R37	P37	27°	GL	3.5	OVERBURDEN		4	
			3.5	11.5	MUDSTONE			
			11.5	13.5	COAL			
			13.5	15	MUDSTONE	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: P. FORBIE	Signature:	For Client:	SOIL ENGINEERING
Assistant: SLAPPIN.			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley						**Rotary Percussive Log Sheet**		Flush Type	Water	
Project No.	TD8510								Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd								Rig Number	R72	
Employer	Barnsley Metropolitan Borough Council								Date	3/5/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm) 63mm		Casing Diameter (mm) 88.9mm		Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination °	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N4		11°	G/L	3.50	C/M	Full	4m	
			3.50	14.50	Sandstone			
			14.50	16.00	Coal			
			16.00	17.00	Sandstone			
Q5		3°	G/L	3.50	C/M	Full	4m	
			3.50	15.50	Sandstone			
			15.50	17.00	Coal			
			17.00	18.00	Sandstone			
P5		22°	G/L	3.50	C/M	Full	4m	
			3.50	15.00	Sandstone			
			15.00	16.50	Coal			
			16.50	17.50	Sandstone			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: Matthew Signature: Matthew For Client:

Assistant: H Lappin

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R72
Employer	Barnsley Metropolitan Borough Council							Date	3/5/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination ∠	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
K4		VERT	GL	3m	C/S	L/F	3m	
			3m	13.00	SANDSTONE			
			13.00	15.50	SOFT/GRAVELS			
			15.50	16.50	HARD/STRATA			
Q2		31°	GL	3.50	C/S	FULL	4m	
			3.50	15.50	SANDSTONE			
			15.50	17.00	COAL			
			17.00	18.00	SANDSTONE			
P2		22°	GL	3.50	C/S	FULL	4m	
			3.50	15.00	SANDSTONE			
			15.00	16.50	SOFT/TARMAC/GRAVEL			
			16.50	17.50	SANDSTONE			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: ACHAIZMY	Signature:	For Client:	
Assistant: H LAPPIN			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	SOIL ENGINEERING Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R72	
Employer	Barnsley Metropolitan Borough Council				Date	3/5/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination °	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N3		11°	GL	3.50	C/S	Full	4m	
			3.50	14.50	Sandstone			
			14.50	16.00	Soft/Grout/Traces			
			16.00	17.00	Sandstone			
Q4		31°	GL	3.50	C/S	Full	4m	
			3.50	15.50	Sandstone			
			15.50	17.00	Soft/Grout/Traces			
			17.00	18.00	Sandstone			
P4		22°	GL	3.50	C/S	Full	4m	
			3.50	15.00	Sandstone			
			15.00	16.50	Coal			
			16.50	17.50	Sandstone			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: Matthew	Signature:	For Client:
Assistant: Hewson		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water
Project No.	TD8510		Rig Type	SM-14
Engineer	Abbeydale BEC Ltd		Rig Number	R72
Employer	Barnsley Metropolitan Borough Council		Date	3/5/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N2		11°	GL	3.50	c/s	Full	4m.	
			3.50	14.50	Sandstone			
			14.50	16.00	Coal			
			16.00	17.00	Sandstone			
Q3		31°	GL	3.50	c/s	Full	4m	
			3.50	15.50	Sandstone			
			15.50	17.00	Soft/Ground Treated			
			17.00	18.00	Sandstone			
P3		22°	GL	3.50	c/s	Full	4m	
			3.50	15.00	Sandstone			
			15.00	16.50	Coal			
			16.50	17.50	Sandstone			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	RT2
Employer	Barnsley Metropolitan Borough Council					Date	3/5/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
NS		11°	GL	3.50	Clay	Full	Lost	
			3.50	14.50	Sandstone			
			14.50	16.00	Coal			
			16.00	17.00	Sandstone			
Q6		31°	GL	3.50	Clay	Full	4m	
			3.50	15.50	Sandstone			
			15.50	17.00	Coal			
			17.00	18.00	Sandstone			
P6		22°	GL	3.50	Clay	Full	4m	
			3.50	15.00	Sandstone			
			15.00	16.50	Coal			
			16.50	17.50	Sandstone			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	3-5-23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
Q41	P41	14	0	3	O/B		4	
			3	11.5	M/ST			
			11.5	13	Coal			
			13	15	MST			Fwd
P41			0	3	O/B		4	
			3	11	MST			
			11	12.5	Coal			
			12.5	14	MST			Fwd

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forgit	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	3-5-23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
Q39	P39	14	0	3	O/B		4	
			3	11.5	M/ST			
			11.5	13	Coal			
			13	14	M/ST			FWR
			0	3	O/B		4	
P39			3	11.5	M/ST			
			11.5	12.5	Coal			
			12.5	14	M/ST			FWR

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forgie	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 35-23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R40	P40	28	0	3	O/B		4	
			3	11.5	M/St			
			11.5	13	Coal			
			13	14	M/St			Fwr
Q40	P40	14	0	3	O/B		4	
			3	11.5	M/St			
			11.5	13	Coal			
			13	14	M/St			Fwr

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forgue	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 3-5-23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm) 63mm	Casing Diameter (mm) 88.9mm	Casing Type: Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R40			0	3	O/B		4	
			3	11	M/ST			
			11	12.5	Coal			
			12.5	13.5	M/ST			FWR
R41	P41	28	0	3	O/B		4	
			3	11.5	M/ST			
			11.5	12.5	Coal			
			12.5	14	M/ST			FWR

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forgie	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 3-5-23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm) 63mm	Casing Diameter (mm) 88.9mm	Casing Type Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R42	P42	28	0	3	O/B		4	
			3	11.5	MST			
			11.5	13	Coal			
			13	14	MST			FWR
Q42	P42	14	0	3	O/B		4	
			3	11.5	MST			
			11.5	13	Coal			
			13	14	MST			FWR

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forgie	Signature:	For Client:	
Assistant:			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	SOIL ENGINEERING Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R81
Employer	Barnsley Metropolitan Borough Council							Date	3.5.23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
P38			0	3	O/B		4	
			3	11	M/ST			
			11	12.5	Coal			
			12.5	13.5	M/ST			FWR
Q38	P38	14°	0	3	O/B		4	
			3	11.5	M/ST			
			11.5	13	Coal			
			13	14	M/ST			FWR

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forgie	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water	
Project No.	TD8510		Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd		Rig Number		
Employer	Barnsley Metropolitan Borough Council		Date	3-5-23	

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
B38	P38	28°	0	3	d/B		4	
			3	11.5	M/ST			
			11.5	13	Coal			
			13	14	M/ST			FWR
B39	P39	28	0	3	d/B		4	
			3	11.5	M/ST			
			11.5	13	Coal			
			13	14	M/ST			FWR

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forgie	Signature:	For Client:	
Assistant:			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	SOIL ENGINEERING Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 3-5-23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm) 63mm	Casing Diameter (mm) 88.9mm	Casing Type: Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
P42			0	3	O/B		4	
			3	11	MST			
			11	12.5	Coal			
			12.5	13.5	MST			EOH

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forgett
Assistant:
Signature:
For Client:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: RT2
Employer	Barnsley Metropolitan Borough Council		Date: 4/5/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N7		VERT	GL	3m	C/S	L/F	3m	
			3m.	13.CC	SANDSTONE			
			13.CC	15.CC	SOFT			
			15.CC	16.00	HARD			
N8		VERT	GL	3m	C/S	L/F	3m.	
			3m.	13.CC	SANDSTONE			
			13.CC	15.CC	S/BOULDER/ GROUND			
			15.CC	16.CC	HARD			
N9		VERT	GL	3m	C/S	L/F	3m	
			3m.	13.CC	SANDSTONE			
			13.CC	15.CC	S/BOULDER/ GROUND			
			15.CC	16.CC	HARD			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: [illegible]	Signature: [illegible]	For Client:	
Assistant: [illegible]			

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water
Project No.	TD8510		Rig Type	SM-14
Engineer	Abbeydale BEC Ltd		Rig Number	R72
Employer	Barnsley Metropolitan Borough Council		Date	4/8/23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N6		11°	GL	3.50	C/S	L/F	4m	
			3.50	11.00	SANDSTONE			
			11.00	15.00	BROKEN/GRAVELS			
			15.00	16.00	HARD			
M12		VERT	GL	3m.	C/S	L/F	4m	
			3m	12.50	SANDSTONE			
			12.50	15.00	BROKEN/GRAVELS			
			15.00	16.00	HARD			
M11		VERT	GL	3m	C/S	L/F	4m	
			3m	11.50	SANDSTONE			
			11.50	15.00	BROKEN/GRAVELS			
			15.00	16.00	HARD			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: [illegible]	Signature: [illegible]	For Client:	
Assistant: H Chapman			

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R72.
Employer	Barnsley Metropolitan Borough Council							Date	4/5/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
M10		VERT	Ck	3m	c/s	Full.	4m	
			3m.	13.CC	SANDSTONE			
			13.CC	15.CC	COAL			
			15 CC	16 CC	SANDSTONE			
M 9		VERT	ck	3m.	c/s	Full.	4m	
			3m	13 CC	SANDSTONE			
			13.CC	15.CC	CREEG.			
			15 CC	16 CC	SANDSTONE			
M 8		VERT	CK	3m	c/s	Full	4m	
			3m	13 SC	SANDSTONE			
			13.SC	15 CC	COAL			
			15 CC	16.CC	SANDSTONE			

Breakdowns	Obstructions	Standing Time
-	-	-

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
-	-	Length Width Depth m

Driller:	Signature:	For Client:
Assistant: H Cowgill		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R72.
Employer	Barnsley Metropolitan Borough Council							Date	4/5/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
N10		VER	dc	3m	c/s	L/F	3m	
			3m.	12.CC	SANDSTONE			
			12.CC	15.CC	BROKEN/CRACKED			
			15CC	16CC	HARD			
R7	N7	31°	dc	3.5	c/s	FWR	4m	
			3.5C	15.5C	SANDSTONE			
			15SC	17CC	CLAY			
			17.CC	18.CC	SANDSTONE			
Q7	N7	22°	dc	3.5C	c/s	FWR	4m	
			3SC	15.CC	SANDSTONE			
			15CC	16 SC	CLAY			
			16.SC	17.5C	SANDSTONE			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: —	Signature:	For Client:	
Assistant: ACAPHIN			SOIL ENGINEERING
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water	
Project No.	TD8510							Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd							Rig Number	R72	
Employer	Barnsley Metropolitan Borough Council							Date	4/5/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type Plastic/Steel

Hole ID	Launch Position	Inclination	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
P7	N7	11° [redacted]	GL	3.50	C/B	FLR	[illegible]	
			3.50	14.50	SANDSTONE			
			14.50	16.00	COAL			
			16.00	17.00	SANDSTONE			
L5A		VER	GL	8.50	FILL.	L/F	4m.	Re-drill
			8.50	15.50	SEAM.			
			15.50	16.50	HARD			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: [redacted]	Signature: [redacted]	For Client:
Assistant: H Lumpkin		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 4-5-23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm) 63mm	Casing Diameter (mm) 88.9mm	Casing Type Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R47	NP47	35	0	2.5	O/S		3	
			2.5	10.5	M/ST			
			10.5	11.5	Coal			
			11.5	13	M/ST	Fwr		
Q47	NP47	21	0	2.5	O/B		3	
			2.5	10	M/ST			
			10	11.5	Coal			
			11.5	13	M/ST	Fwr		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forsyth	Signature:	For Client:	SOIL ENGINEERING
Assistant: J Lappin			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	R81
Employer	Barnsley Metropolitan Borough Council							Date	4-5-23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination °	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
Q48	N/P 48	21	0	2.5	O/B		3	
			2.5	10	M/St			
			10	11	Coal			
			11	13	M/St	FWR		
P48	N/P 48	7	0	2.5	O/B		3	
			2.5	9.5	M/St			
			9.5	10.5	Coal			
			10.5	12	M/St	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forgal	Signature:	For Client:	
Assistant: J Kaiz			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	SOIL ENGINEERING Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 4-5-23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm) 63mm	Casing Diameter (mm) 88.9mm	Casing Type Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
P47	N/P47	7°	0	2.5	O/B		3	
			2.5	9.5	M/ST			
			9.5	11	Soft			grout trace
			11	13	hard	Pwr		
R48	N/P48	35	0	2.5	O/B		3	
			2.5	10	M/ST			
			10	11	coal			
			11	13	M/ST	Fwr		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forzil	Signature:	For Client:	SOIL ENGINEERING
Assistant: J Lappin			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 4-5-23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm) 63mm	Casing Diameter (mm) 88.9mm	Casing Type: Plastic/Steel

Hole ID	Launch Position	Inclination °	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
Q46	P46	14	0	2.5	o/B		3	
			2.5	10	M/St			
			10	11	Coal			
			11	13	M/St	Fwr		
P46			0	2.5	o/B		3	
			2.5	9.5	MSt			
			9.5	11	Coal			
			11	13	M/St	Fwr		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forgil	Signature:	For Client:	SOIL ENGINEERING
Assistant: J Lappin			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type	Water
Project No.	TD8510		Rig Type	SM-14
Engineer	Abbeydale BEC Ltd		Rig Number	R81
Employer	Barnsley Metropolitan Borough Council		Date	4-5-23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
P45		V	0	2.5	O/B		3	
			2.5	9.5	M/ST			
			9.5	11.5	Coal			
			11.5	13	M/ST	FWR		
R46	P46	28	0	2.5	O/B		3	
			2.5	10.5	M/ST			
			10.5	12	Coal			
			12	13	M/ST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forsil	Signature:	For Client:
Assistant: J LAPLUM		

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 4-5-23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R45	P45	28	0	2.5	OB		3	
			2.5	10	M/ST			
			10	12	grout			
			12	14	M/ST	FWR		
Q45	P45	14	0	2.5	O/B		3	
			2.5	9.5	M/ST			
			9.5	11	grout			
			11	13	M/ST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forgie	Signature:	For Client:
Assistant: J Lappin		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	4-5-23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
QH4	P43	14	0	2.5	O/B		3	
			2.5	10	M/ST			
			10	11.5	Coal			
			11.5	13	M/ST	FWR		
PH4		V	0	2.5	O/B		3	
			2.5	10	M/ST			
			10	11	Coal			
			11	13	M/ST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forgie	Signature:	For Client:	SOIL ENGINEERING
Assistant: J Lappin			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: R81
Employer	Barnsley Metropolitan Borough Council		Date: 4-5-23

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R43	P43	28	0	3	o/b		3	
			3	11	m/st			
			11	12	coal			
			12	14	m/st	FwR		
Q43	P43	14	0	3	o/b		3	
			3	10.5	m/st			
			10.5	12	coal			
			12	13	m/st	FwR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forgie	Signature:	For Client:	
Assistant: J Lappin			
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	SOIL ENGINEERING Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R81
Employer	Barnsley Metropolitan Borough Council					Date	4-5-23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
P43		V	0	3	O/B		3	
			3	10.5	M/ST			
			10.5	11.5	Coal			
			11.5	13	M/ST	FWR		
R44	P44	28	0	2.5	O/B		3	
			2.5	10.5	M/ST			
			10.5	11.5	Coal			
			11.5	13	M/ST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: S Forgie	Signature:	For Client:	SOIL ENGINEERING
Assistant: J Lappin			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Rotary Percussive Log Sheet

Project Name: E510 Roundabout, Barnsley
Project No.: TO 8510
Engineer: Abbeydale BEC Ltd
Employer: Barnsley Metropolitan Borough Council

Flush Type: Water
Rig Type: SM 14
Rig Number: R81
Date: 5/5/23

Start of shift: 7:30 | End of shift: 15:30 | Total hours: 8 | Hole Diameter (mm): 63 | Casing Diameter (mm): 38.9 | Casing Type: Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
P48	N/P48	21	0	2.5	d/b		3	
			2.5	10	MST			
			10	11	Coal			
			11	13	MST	FWR		
P48		V	0	2.5	d/b		3	
			2.5	9.5	MST			
			9.5	10.5	Coal			
			10.5	12	MST	FWR		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: R OAKES | Signature: | For Client:
Assistant:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type: Water
Project No.	TD8510		Rig Type: SM-14
Engineer	Abbeydale BEC Ltd		Rig Number: ~~[illegible]~~ KR
Employer	Barnsley Metropolitan Borough Council		Date: 5/5/22

Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm) 63mm	Casing Diameter (mm) 88.9mm	Casing Type Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R8		31°	GL	3.5C	C/S	Full	9m	
			3.5C	15.5C	SANDSTONE			
			15.5C	17.CC	COAL			
			17.CC	18CC	SANDSTONE			
Q8		22°	GL	3.5C	C/S	Full.	3.5m	
			3.5C	15 CC	SANDSTONE			
			15CC	18.5C	COAL			
			18.5C	17.8C	SANDSTONE			
P8		11°	GL	3.5C	C/S	L/F	3.5m	
			3.5C	13.CC	SANDSTONE			
			13.CC	15.5C	SOFT			
			15.5C	16.5C	HARD			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: Mc Horizon	Signature: [signature]	For Client:	
Assistant: H Lamond			

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510								Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd								Rig Number	R7R	
Employer	Barnsley Metropolitan Borough Council								Date	5/5/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R·10		31°	dc	3·80	c/s	Full	4m	
			3·80	15·80	Sandstone			
			15·80	17·00	Soft Coal			
			17·00	18·00	Sandstone			
Q·10		22°	G/L	3·50	c/s	Full	6m	
			3·50	15·00	Sandstone			
			15·00	16·50	Coal			
			16·50	17·50	Sandstone			
P·10		17°	dc	3·50	c/s	Full	4m	
			3·50	13·00	Sandstone			
			13·00	15·50	Soft Coal			
			15·50	16·50	Sandstone			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller:	Signature:	For Client:
Assistant: H Chapman		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	1272	
Employer	Barnsley Metropolitan Borough Council				Date	5/5/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R9		31°	GL	3.50	c/s	FWR	4m	
			3.50	15.50	Sandstone			
			15.50	17.00	Soft/Coal			
			17.00	18.00	Sandstone			
Q9		22°	GL	3.50	c/s	FWR	4m	
			3.50	15.00	Sandstone			
			15.00	16.50	Coal			
			16.50	17.50	Sandstone			
P9		11°	GL	3.50	c/s	FWR	4m	
			3.50	13.00	Sandstone			
			13.00	15.50	Soft Ground.			
			15.50	16.50	Sandstone			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: AC Training	Signature: AC Training	For Client:	SOIL ENGINEERING
Assistant: H Larkin			Part of the Bachy Soletanche Group
Form No. SE-GES-F-008	Issue No.Revision No. 2.05	Issue Date 03/05/2019	

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**				Flush Type	Water
Project No.	TD8510					Rig Type	SM-14
Engineer	Abbeydale BEC Ltd					Rig Number	R72
Employer	Barnsley Metropolitan Borough Council					Date	5/5/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
H6			dc	2.50	c/s	Full	3m	
			2.5c	13.50	Sandstone			
			13.5c	15.5c	Coal			
			15.5c	16.5c	Sandstone			
H7			dc	2.5c	c/s			
			2.5c	13cc	Sandstone	Full	3m	
			13cc	13.cc	Coal			
			15cc	16.cc	Sandstone			
H8			dc	2.5c	c/s	Full	3m	
			2.5c	12.5c	Sandstone			
			13.5c	15.5c	Coal			
			15.5c	16.5c	Sandstone			

Breakdowns	Obstructions	Standing Time
	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller: Adam Army Signature: Adam For Client:

Assistant: H Chaffin

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name: GSID Roundabout, Barnsley
Project No.: TD8510
Engineer: Abbeydale BEC Ltd
Employer: Barnsley Metropolitan Borough Council

Rotary Percussive Log Sheet

Flush Type: WATER
Rig Type: SM14
Rig Number: R281
Date: 5/5/23

Start of shift: 7:30 | End of shift: 15:30 | Total hours: 8 | Hole Diameter (mm): 63 | Casing Diameter (mm): 88.9 | Casing Type: Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
Q50	N/P50	21	0	2.5	O/B		3	
			2.5	11	MST			
			11	13	Coal			
			13	14	MST	Fwr		
P50	N/P50	6	0	2.5	O/B		3	
		7	2.5	10.5	MST			
			10.5	11.5	Coal			
			11.5	12.5	MST	Fwc		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: R OAKES | Signature: | For Client:
Assistant:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**	Flush Type WATER
Project No.	TD8510		Rig Type SM14
Engineer	Abbeydale BEC Ltd.		Rig Number R81
Employer	Barnsley Metropolitan Borough Council		Date 5/5/23

Start of shift 7:30	End of shift 15:30	Total hours 8	Hole Diameter (mm) 63	Casing Diameter (mm) 88.9	Casing Type Plastic/Steel

Hole ID	Launch Position	Inclination °	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
Q52	N/P52	21	0	2.5	O/B		3	
			2.5	11	MST			
			11	13	Coal			
			13	14	MST	FW2		
P52	N/P52	~~5~~ 7	0	2.5	O/B		3	
			2.5	10.5	MST			
			10.5	11.5	Coal			
			11.5	12.5	MST	FW2		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: SR OAKES	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name: ES10 Roundabout Barnsley
Project No.: TD8510
Engineer: Abbeydale REC Ltd
Employer: Barnsley Metropolitan Borough Council

Rotary Percussive Log Sheet

Flush Type: water
Rig Type: SM14
Rig Number: R31
Date: 5/5/23

Start of shift: 7:30 | End of shift: 15:30 | Total hours: 8 | Hole Diameter (mm): 63 | Casing Diameter (mm): 88.9 | Casing Type: Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R51	MP51	35	0	2.5	O/B		3	
			2.5	11	MST			
			11	13	Coal			
			13	14	MST	Full		
Q51	MP51	21	0	2.5	O/B		3	
			2.5	11	MST			
			11	13	Coal			
			13	14	MST	Full		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: B Bates
Assistant:
Signature:
For Client:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name ES10 Roundabout, Barnsley

Project No. TD8510

Engineer Abbeydale BEC Ltd

Employer Barnsley Metropolitan Borough Council

Rotary Percussive Log Sheet

Flush Type water

Rig Type SM14

Rig Number R81

Date 5/5/23

Start of shift	End of shift	Total hours	Hole Diameter (mm)	Casing Diameter (mm)	Casing Type
7:30	15:30	8	63	88.9	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
P51	N/P51	~~90~~	0	2.5	O/B	FWR	3	
		7	2.5	10.5	MST			
			10.5	11.5	Coal			
			11.5	12.5	MST			
R52	N/P52	35	0	2.5	O/B	FWR	3	
			2.5	11	MST			
			11	13	Coal			
			13	14	MST			

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: R OAKES

Assistant:

Signature:

For Client:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name E510 Roundabout, Barnsley

Project No. TJ8510

Engineer Abbeydale BEC Ltd

Employer Barnsley Metropolitan Borough Council

Rotary Percussive Log Sheet

Flush Type water

Rig Type SM14

Rig Number R81

Date 5/5/23

Start of shift	End of shift	Total hours	Hole Diameter (mm)	Casing Diameter (mm)	Casing Type Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R49	N/P49	35	0	2.5	O/B		3	
			2.5	11	MST			
			11	13	Coal			
			13	14	MST	FwL		
Q48	N/P49	21	0	2.5	O/B		3	
			2.5	11	MST			
			11	13	Coal			
			13	14	MST	FwL		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: L OAKES

Assistant:

Signature:

For Client:

SOIL ENGINEERING

Part of the Bachy Soletanche Group

Project Name ES10 Roundabout, Barnsley

Project No. TO8510

Engineer Abbeydale BEC Ltd

Employer Barnsley Metropolitan Borough Council

Rotary Percussive Log Sheet

Flush Type Water

Rig Type SM14

Rig Number R81

Date 5/5/23

Start of shift 7:30 | End of shift 15:30 | Total hours 8 | Hole Diameter (mm) 63 | Casing Diameter (mm) 88.9 | Casing Type Plastic/Steel

Hole ID	Launch Position	Inclination °	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
R53	MP53	35	0	2.5	OB		3	
			2.5	11	MST			
			11	13	Coal			
			13	14	MST	Flr		
Q53	MP53	21	0	2.5	OB		3	
			2.5	11	MST			
			11	13	Coal			
			13	14	MST	Flr		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: R OAKES | Signature: | For Client:

Assistant:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name ES10 Roundabout, Barnsley

Project No. TD8510

Engineer Abbeydale BEC Ltd

Employer Barnsley Metropolitan Borough Council

Rotary Percussive Log Sheet

Flush Type WATER

Rig Type SM14

Rig Number R81

Date 5/5/23

Start of shift	End of shift	Total hours	Hole Diameter (mm)	Casing Diameter (mm)	Casing Type
7:30	15:30	8	63	88.9	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
DH9	N/P49	~~5~~	0	2.5	o/b		3	
		7	2.5	10.5	MST			
			10.5	11.5	coal			
			11.5	12.5	MST	Full		
R50	N/P50	35	0	2.5	o/b		3	
			2.5	11	MST			
			11	13	coal			
			13	14	MST	Full		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: R OAKES

Assistant:

Signature:

For Client:

SOIL ENGINEERING

Part of the Bachy Soletanche Group

Project Name: E310 Roundabout, Barnsley
Project No.: TD8510
Engineer: Abbeydale BEC Ltd.
Employer: Barnsley Metropolitan Borough Council

Rotary Percussive Log Sheet

Flush Type: water
Rig Type: SM14
Rig Number: R81
Date: 5/5/23

Start of shift: 7:30 | End of shift: 15:30 | Total hours: 8 | Hole Diameter (mm): 63 | Casing Diameter (mm): 88.9 | Casing Type: Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
P53	NIP53	~~7~~	0	2.5	O/B		3	
		7	2.5	10.5	MST			
			10.5	11.5	Coal			
			11.5	12.5	MST	Flush		

Breakdowns	Obstructions	Standing Time

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
		Length Width Depth m

Driller: R OAKES
Assistant:
Signature:
For Client:

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley					**Rotary Percussive Log Sheet**		Flush Type	Water
Project No.	TD8510							Rig Type	SM-14
Engineer	Abbeydale BEC Ltd							Rig Number	~~[illegible]~~ ~~02-5-23~~ RTZ
Employer	Barnsley Metropolitan Borough Council							Date	9/5/23
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm	Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
TESTHOLE TH7	J/K 11.		GL	2.50	C/S	Full	4m	
			2.50	9.50	SANDSTONE			
			9.50	15.50	SOFT GROUT			
			15.50	~~16.50~~	SANDSTONE			
TESTHOLE TH8	L/M 7		GL	2.50	C/S	Full	4m	
			2.50	13.50	SANDSTONE			
			13.50	15.50	GROUT			
			15.50	16.50	SANDSTONE			
TESTHOLE TH9	N/P 51.		GL	2.50	C/S	Full	4m	
			2.50	9.50	SANDSTONE			
			9.50	11.00	SOFT			
			11.00	12.00	SANDSTONE			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Rotary Percussive Log Sheet**			Flush Type	Water	
Project No.	TD8510				Rig Type	SM-14	
Engineer	Abbeydale BEC Ltd				Rig Number	R72	
Employer	Barnsley Metropolitan Borough Council				Date	9/5/23	
Start of shift	7:30	End of shift	17:30	Total hours	10:00	Hole Diameter (mm)	63mm
Casing Diameter (mm)	88.9mm	Casing Type	Plastic/Steel				

Hole ID	Launch Position	Inclination (°)	Top (m)	Base (m)	Strata	Flush Return	Casing Depth (m)	Remarks
TESTHOLE Q/R 4 TH10			dc	3.50	d/s	Full	4m	
			3.50	15.50	Sandstone			
			15.50	17.00	Soft-Ground			
			17.00	18.00	Sandstone			
TESTHOLE N/P 47 TH11			dc	2.50	d/s	Full	4m	
			2.50	9.50	Sandstone			
			9.50	11.00	Soft/Ground/Flinty			
			11.00	12.00	Sandstone			

Breakdowns	Obstructions	Standing Time
—	—	—

Underground Utilities	Gas Emissions	Inspection Pit Dimensions
—	—	Length Width Depth m

Driller:	Signature:	For Client:
Assistant:		

SOIL ENGINEERING
Part of the Bachy Soletanche Group

APPENDIX C - DAILY GROUTING RECORDS

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**	Date 01/03/2023
Project No.	TD8510		Report No. 1
Engineer	Abbeydale BEC Ltd		Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:** **Infill**	Southern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
W9			0.004	0.033	0.000	0.037			Yes
U9			0.003	0.025	0.000	0.028			Yes
S9			1.200	10.800	0.000	12.000			No
Y9			0.003	0.025	0.000	0.028			Yes
AA9			0.003	0.025	0.000	0.028			Yes
AC9			0.004	0.033	0.000	0.037			Yes
AE11			0.004	0.033	0.000	0.037			Yes
AC11			0.004	0.033	0.000	0.037			Yes
AA11			0.004	0.033	0.000	0.037			Yes
Y11			0.004	0.033	0.000	0.037			Yes
W11			0.004	0.033	0.000	0.037			Yes
U11			0.004	0.033	0.000	0.037			Yes
Y13			0.004	0.033	0.000	0.037			Yes
AA13			0.004	0.033	0.000	0.037			Yes
AC13			0.004	0.033	0.000	0.037			Yes
AE13			0.003	0.025	0.000	0.028			Yes
AE15			0.004	0.033	0.000	0.037			Yes
AC15			0.004	0.033	0.000	0.037			Yes
AA15			0.004	0.033	0.000	0.037			Yes
Y15			0.004	0.033	0.000	0.037			Yes
AA17			0.004	0.033	0.000	0.037			Yes
AC17			0.004	0.033	0.000	0.037			Yes
AE17			0.004	0.033	0.000	0.037			Yes
AA19			0.004	0.033	0.000	0.037			Yes
AC19			0.004	0.033	0.000	0.037			Yes
AE19			0.003	0.025	0.000	0.028			Yes
Y21			0.004	0.033	0.000	0.037			Yes
AA21			0.004	0.033	0.000	0.037			Yes
AC21			0.004	0.033	0.000	0.037			Yes
AE21			0.003	0.025	0.000	0.028			Yes
AE23			0.004	0.033	0.000	0.037			Yes
AC23			0.004	0.033	0.000	0.037			Yes
AA23			0.004	0.033	0.000	0.037			Yes
		Sub Totals	1.313	11.817	0.000	13.130			

Signed	Checked	For Client
C. Riddell	C. Riddell	

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**		Date 01/03/2023
Project No.	TD8510			Report No. 1
Engineer	Abbeydale BEC Ltd			Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:**	**Infill**	Southern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
W23			0.004	0.033	0.000	0.037			Yes
Y23			0.004	0.033	0.000	0.037			Yes
Y25			0.004	0.033	0.000	0.037			Yes
AC25			0.004	0.033	0.000	0.037			Yes
AC27			0.004	0.033	0.000	0.037			Yes
W7			0.004	0.033	0.000	0.037			Yes
Y7			0.004	0.033	0.000	0.037			Yes
AA7			0.004	0.033	0.000	0.037			Yes
T25			0.450	4.050	0.000	4.500			Yes
U25			0.300	2.700	0.000	3.000			Yes
V25			0.004	0.033	0.000	0.037			Yes
W25			0.004	0.033	0.000	0.037			Yes
		Totals	2.100	18.900	0.000	21.000			

Signed	Checked	For Client
C. Riddell	C. Riddell	

SOIL ENGINEERING
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Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**		Date	03/03/2023
Project No.	TD8510			Report No.	2
Engineer	Abbeydale BEC Ltd			Seam/Location	
Client	Barnsley Metropolitan Borough Council	**Type:**	**Infill**		Southern Area

Start of Shift	07:30	End of Shift	15:30	Hours	08:00

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
S24			0.001	0.011	0.000	0.012			Yes
S25			0.001	0.013	0.000	0.014			Yes
S9			0.141	1.269	0.000	1.410			No
T24			0.001	0.011	0.000	0.012			Yes
U24			0.001	0.013	0.000	0.014			Yes
V24			0.001	0.013	0.000	0.014			Yes
W24			0.001	0.013	0.000	0.014			Yes
X23			0.001	0.013	0.000	0.014			Yes
X24			0.001	0.013	0.000	0.014			Yes
X25			0.001	0.013	0.000	0.014			Yes
X26			0.001	0.013	0.000	0.014			Yes
X27			0.564	5.077	0.000	5.641			No
X28			0.009	0.085	0.000	0.094			Yes
X29			0.009	0.085	0.000	0.094			Yes
Y22			0.001	0.013	0.000	0.014			Yes
Y24			0.001	0.013	0.000	0.014			Yes
Y26			0.001	0.013	0.000	0.014			Yes
Y27			0.001	0.013	0.000	0.014			Yes
Z22			0.001	0.013	0.000	0.014			Yes
Z23			0.001	0.011	0.000	0.012			Yes
Z24			0.001	0.013	0.000	0.014			Yes
Z25			0.001	0.013	0.000	0.014			Yes
Z26			0.001	0.013	0.000	0.014			Yes
		Totals	0.750	6.750	0.000	7.500			

Signed	Checked	For Client	
C. Riddell	C. Riddell		SOIL ENGINEERING

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**		Date 06/03/2023
Project No.	TD8510			Report No. 3
Engineer	Abbeydale BEC Ltd			Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:**	**Infill**	Southern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
W27			0.177	1.596	0.000	1.774			Yes
Y28			0.003	0.027	0.000	0.030			Yes
Z28			0.414	3.725	0.000	4.139			Yes
Z27			0.002	0.018	0.000	0.020			Yes
W31			0.239	2.147	0.000	2.385			No
S31			0.003	0.027	0.000	0.030			Yes
T31			0.003	0.027	0.000	0.030			Yes
U31			0.003	0.027	0.000	0.030			Yes
V31			0.002	0.018	0.000	0.020			Yes
AA27			0.002	0.018	0.000	0.020			Yes
T26			0.002	0.018	0.000	0.020			Yes
S32			0.002	0.018	0.000	0.020			Yes
T32			0.003	0.027	0.000	0.030			Yes
U32			0.002	0.018	0.000	0.020			Yes
V32			0.002	0.018	0.000	0.020			Yes
S33			0.355	3.193	0.000	3.548			No
T33			0.532	4.789	0.000	5.321			No
U33			0.177	1.596	0.000	1.774			Yes
V33			0.177	1.596	0.000	1.774			Yes
		Totals	2.100	18.900	0.000	21.000			

Signed	Checked	For Client
C. Riddell	C. Riddell	

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Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**		Date 07/03/2023
Project No.	TD8510			Report No. 4
Engineer	Abbeydale BEC Ltd			Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:**	**Infill**	Southern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
T33			0.001	0.008	0.000	0.008			Yes
S33			0.001	0.005	0.000	0.006			Yes
W29			0.118	1.060	0.000	1.178			Yes
W31			0.008	0.076	0.000	0.084			Yes
S28			0.001	0.008	0.000	0.008			Yes
T28			0.017	0.151	0.000	0.168			Yes
S26			0.101	0.908	0.000	1.009			Yes
U26			0.001	0.008	0.000	0.008			Yes
V26			0.202	1.817	0.000	2.019			Yes
W26			0.076	0.681	0.000	0.757			Yes
S27			0.001	0.008	0.000	0.008			Yes
T27			0.025	0.227	0.000	0.252			Yes
U27			0.017	0.151	0.000	0.168			Yes
V27			0.034	0.303	0.000	0.336			No
S34			0.001	0.008	0.000	0.008			Yes
T34			0.001	0.008	0.000	0.008			Yes
U34			0.001	0.008	0.000	0.008			Yes
V34			0.001	0.008	0.000	0.008			Yes
S35			0.008	0.076	0.000	0.084			Yes
T35			0.025	0.227	0.000	0.252			Yes
U35			0.017	0.151	0.000	0.168			Yes
V35			0.017	0.151	0.000	0.168			Yes
S29			0.001	0.008	0.000	0.008			Yes
T29			0.001	0.008	0.000	0.008			Yes
U28			0.067	0.606	0.000	0.673			No
V28			0.008	0.076	0.000	0.084			Yes
W28			0.001	0.008	0.000	0.008			Yes
		Totals	0.750	6.750	0.000	7.500			

Signed	Checked	For Client	
C. Riddell	C. Riddell		SOIL ENGINEERING

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**	Date 13/03/2023
Project No.	TD8510		Report No. 5
Engineer	Abbeydale BEC Ltd		Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:** **Infill**	Southern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
U29			0.003	0.030	0.000	0.033			Yes
V29			0.003	0.030	0.000	0.033			Yes
U28			0.002	0.020	0.000	0.022			Yes
V27			0.003	0.030	0.000	0.033			Yes
S30			0.003	0.030	0.000	0.033			Yes
T30			0.003	0.030	0.000	0.033			Yes
U30			0.791	7.116	0.000	7.907			Yes
V30			0.791	7.116	0.000	7.907			Yes
		Totals	1.600	14.400	0.000	16.000			

Signed	Checked	For Client
C. Riddell	C. Riddell	

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Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**	Date 14/03/2023
Project No.	TD8510		Report No. 6
Engineer	Abbeydale BEC Ltd		Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:** **Infill**	Southern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
U51			0.004	0.040	0.000	0.044			Yes
V51			0.004	0.040	0.000	0.044			Yes
U50			0.004	0.040	0.000	0.044			Yes
V50			0.004	0.040	0.000	0.044			Yes
S49			0.178	1.598	0.000	1.775			Yes
T49			0.004	0.040	0.000	0.044			Yes
U49			0.004	0.040	0.000	0.044			Yes
V49			0.004	0.040	0.000	0.044			Yes
S48			0.089	0.798	0.000	0.887			Yes
T48			0.004	0.040	0.000	0.044			Yes
U48			0.004	0.040	0.000	0.044			Yes
V48			0.004	0.040	0.000	0.044			Yes
S47			0.004	0.040	0.000	0.044			Yes
T47			0.004	0.040	0.000	0.044			Yes
U47			0.266	2.395	0.000	2.661			Yes
V47			0.004	0.040	0.000	0.044			Yes
S46			0.004	0.040	0.000	0.044			Yes
T46			0.004	0.040	0.000	0.044			Yes
U46			0.266	2.395	0.000	2.661			Yes
V46			0.004	0.040	0.000	0.044			Yes
S45			0.004	0.040	0.000	0.044			Yes
T45			0.004	0.040	0.000	0.044			Yes
U45			1.597	14.371	0.000	15.968			Yes
V45			1.597	14.371	0.000	15.968			No
S44			0.004	0.040	0.000	0.044			Yes
T44			0.004	0.040	0.000	0.044			Yes
U44			0.004	0.040	0.000	0.044			Yes
V44			0.004	0.040	0.000	0.044			Yes
S43			0.004	0.040	0.000	0.044			Yes
T43			0.004	0.040	0.000	0.044			Yes
U43			0.004	0.040	0.000	0.044			Yes
V43			0.004	0.040	0.000	0.044			Yes
S42			0.004	0.040	0.000	0.044			Yes
		Sub Totals	4.112	37.006	0.000	41.117			

Signed	Checked	For Client	
C. Riddell	C. Riddell		SOIL ENGINEERING

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**	Date 14/03/2023
Project No.	TD8510		Report No. 6
Engineer	Abbeydale BEC Ltd		Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:** **Infill**	Southern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
T42			0.004	0.040	0.000	0.044			Yes
U42			0.004	0.040	0.000	0.044			Yes
V42			0.004	0.040	0.000	0.044			Yes
S41			0.004	0.040	0.000	0.044			Yes
T41			0.004	0.040	0.000	0.044			Yes
U41			0.004	0.040	0.000	0.044			Yes
V41			0.004	0.040	0.000	0.044			Yes
S40			0.004	0.040	0.000	0.044			Yes
T40			0.004	0.040	0.000	0.044			Yes
U40			0.004	0.040	0.000	0.044			Yes
V40			0.004	0.040	0.000	0.044			Yes
S39			0.004	0.040	0.000	0.044			Yes
T39			0.004	0.040	0.000	0.044			Yes
U39			0.004	0.040	0.000	0.044			Yes
V39			0.004	0.040	0.000	0.044			Yes
S38			0.089	0.798	0.000	0.887			Yes
T38			0.089	0.798	0.000	0.887			Yes
U38			0.004	0.040	0.000	0.044			Yes
V38			0.004	0.040	0.000	0.044			Yes
S37			0.004	0.040	0.000	0.044			Yes
T37			0.004	0.040	0.000	0.044			Yes
U37			0.004	0.040	0.000	0.044			Yes
V37			0.004	0.040	0.000	0.044			Yes
S36			0.004	0.040	0.000	0.044			Yes
T36			0.004	0.040	0.000	0.044			Yes
U36			0.004	0.040	0.000	0.044			Yes
V36			0.004	0.040	0.000	0.044			Yes
		Totals	4.400	39.600	0.000	44.000			

Signed	Checked	For Client
C. Riddell	C. Riddell	

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**		Date 15/03/2023
Project No.	TD8510			Report No. 7
Engineer	Abbeydale BEC Ltd			Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:**	**Infill**	Southern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
S10			0.009	0.085	0.000	0.094			Yes
S9			0.282	2.538	0.000	2.821			No
T10			0.009	0.085	0.000	0.094			Yes
U10			0.009	0.085	0.000	0.094			Yes
V10			0.009	0.085	0.000	0.094			Yes
V11			0.752	6.769	0.000	7.521			Yes
V45			0.188	1.692	0.000	1.880			Yes
W10			0.009	0.085	0.000	0.094			Yes
W12			0.009	0.085	0.000	0.094			Yes
X10			0.846	7.615	0.000	8.462			Yes
X11			1.128	10.154	0.000	11.282			Yes
X12			1.128	10.154	0.000	11.282			Yes
X13			0.009	0.085	0.000	0.094			Yes
Y10			0.009	0.085	0.000	0.094			Yes
		Totals	4.400	39.600	0.000	44.000			

Signed	Checked	For Client	
C. Riddell	C. Riddell		SOIL ENGINEERING

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**	Date 16/03/2023
Project No.	TD8510		Report No. 8
Engineer	Abbeydale BEC Ltd		Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:** **Infill**	Southern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
S7			0.005	0.048	0.000	0.053			Yes
S8			0.005	0.048	0.000	0.053			Yes
S9			0.319	2.868	0.000	3.187			Yes
T7			0.005	0.048	0.000	0.053			Yes
T8			0.005	0.048	0.000	0.053			Yes
T9			0.005	0.048	0.000	0.053			Yes
U7			0.005	0.048	0.000	0.053			Yes
U8			0.005	0.048	0.000	0.053			Yes
V7			0.005	0.048	0.000	0.053			Yes
V8			1.912	17.211	0.000	19.124			Yes
V9			0.005	0.048	0.000	0.053			Yes
X6			0.005	0.048	0.000	0.053			Yes
X7			0.005	0.048	0.000	0.053			Yes
X9			0.005	0.048	0.000	0.053			Yes
Y8			0.106	0.956	0.000	1.062			Yes
Z7			0.956	8.606	0.000	9.562			Yes
Z8			0.637	5.737	0.000	6.375			Yes
Z9			0.005	0.048	0.000	0.053			Yes
		Totals	4.000	36.000	0.000	40.000			

Signed	Checked	For Client	
C. Riddell	C. Riddell		SOIL ENGINEERING

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**		Date 17/03/2023
Project No.	TD8510			Report No. 9
Engineer	Abbeydale BEC Ltd			Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:**	**Infill**	Southern Area

Start of Shift	07:30	End of Shift	15:30	Hours	08:00

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
R1			0.021	0.185	0.000	0.205			Yes
R2			0.021	0.185	0.000	0.205			Yes
R3			0.021	0.185	0.000	0.205			Yes
R4			0.042	0.376	0.000	0.418			Yes
R5			0.042	0.376	0.000	0.418			Yes
R6			0.042	0.376	0.000	0.418			Yes
S1			0.002	0.018	0.000	0.020			Yes
S2			0.002	0.018	0.000	0.020			Yes
S3			0.021	0.185	0.000	0.205			Yes
S4			0.042	0.376	0.000	0.418			Yes
S5			0.042	0.376	0.000	0.418			Yes
S6			0.058	0.525	0.000	0.583			Yes
T1			0.002	0.018	0.000	0.020			Yes
T2			0.021	0.185	0.000	0.205			Yes
T3			0.002	0.018	0.000	0.020			Yes
T4			0.058	0.525	0.000	0.583			Yes
T5			0.042	0.376	0.000	0.418			Yes
T6			0.042	0.376	0.000	0.418			Yes
U1			0.002	0.018	0.000	0.020			Yes
U2			0.002	0.018	0.000	0.020			Yes
U3			0.002	0.018	0.000	0.020			Yes
U4			0.042	0.376	0.000	0.418			Yes
U5			0.058	0.525	0.000	0.583			Yes
U6			0.058	0.525	0.000	0.583			Yes
V3			0.002	0.018	0.000	0.020			Yes
V4			0.058	0.525	0.000	0.583			Yes
V5			0.058	0.525	0.000	0.583			Yes
V6			0.058	0.525	0.000	0.583			Yes
V23			0.002	0.018	0.000	0.020			Yes
W4			0.021	0.185	0.000	0.205			Yes
W5			0.042	0.376	0.000	0.418			Yes
W6			0.042	0.376	0.000	0.418			Yes
W8			0.002	0.018	0.000	0.020			Yes
		Sub Totals	0.969	8.720	0.000	9.689			

Signed	Checked	For Client	
C. Riddell	C. Riddell		SOIL ENGINEERING

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**	Date 17/03/2023
Project No.	TD8510		Report No. 9
Engineer	Abbeydale BEC Ltd		Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:** **Infill**	Southern Area

Start of Shift	07:30	End of Shift	15:30	Hours	08:00

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
W22			0.002	0.018	0.000	0.020			Yes
W30			0.002	0.018	0.000	0.020			Yes
X8			0.002	0.018	0.000	0.020			Yes
X21			0.002	0.018	0.000	0.020			Yes
X22			0.002	0.018	0.000	0.020			Yes
X27			0.065	0.588	0.000	0.653			Yes
Y19			0.021	0.185	0.000	0.205			Yes
Y29			0.042	0.376	0.000	0.418			Yes
Z10			0.042	0.376	0.000	0.418			Yes
AA8			0.002	0.018	0.000	0.020			Yes
AA25			0.002	0.018	0.000	0.020			Yes
AA26			0.002	0.018	0.000	0.020			Yes
AA28			0.002	0.018	0.000	0.020			Yes
		Totals	1.156	10.406	0.000	11.563			

Signed	Checked	For Client
C. Riddell	C. Riddell	

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**	Date 17/03/2023
Project No.	TD8510		Report No. 10
Engineer	Abbeydale BEC Ltd		Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:** **Test Hole**	Southern Area

Start of Shift	07:30	End of Shift	15:30	Hours	08:00

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
TH03		2.00	0.038	0.342	0.000	0.380			Yes
TH04		2.00	0.006	0.051	0.000	0.057			Yes

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**	Date 20/03/2023
Project No.	TD8510		Report No. 11
Engineer	Abbeydale BEC Ltd		Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:** **Test Hole**	Southern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
TH01		2.00	0.035	0.315	0.000	0.350			Yes
TH02		2.00	0.008	0.072	0.000	0.080			Yes
TH05		2.00	0.008	0.072	0.000	0.080			Yes
TH06		2.00	0.035	0.315	0.000	0.350			Yes
			0.114	1.026	0.000	1.140		Other boreholes topped	
								up with grout	
		Totals	0.200	1.800	0.000	2.000			

Signed	Checked	For Client
C. Riddell	C. Riddell	

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**	Date 24/04/2023
Project No.	TD8510		Report No. 1
Engineer	Abbeydale BEC Ltd		Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:** **Infill**	Northern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
G17			0.005	0.043	0.000	0.048			Yes
H17			0.002	0.022	0.000	0.024			Yes
J17			0.002	0.022	0.000	0.024			Yes
G16			0.002	0.022	0.000	0.024			Yes
H16			0.002	0.022	0.000	0.024			Yes
J16			0.002	0.022	0.000	0.024			Yes
G15			0.002	0.022	0.000	0.024			Yes
H15			0.002	0.022	0.000	0.024			Yes
J15			0.002	0.022	0.000	0.024			Yes
K15			0.002	0.022	0.000	0.024			Yes
G14			0.002	0.022	0.000	0.024			Yes
H14			0.002	0.022	0.000	0.024			Yes
J14			0.002	0.022	0.000	0.024			Yes
K14			0.002	0.022	0.000	0.024			Yes
G13			0.002	0.022	0.000	0.024			Yes
H13			0.002	0.022	0.000	0.024			Yes
J13			0.002	0.022	0.000	0.024			Yes
K13			0.288	2.595	0.000	2.883			No
L13			0.048	0.433	0.000	0.481			Yes
G12			0.002	0.022	0.000	0.024			Yes
H12			0.002	0.022	0.000	0.024			Yes
J12			0.002	0.022	0.000	0.024			Yes
K12			0.144	1.297	0.000	1.441			Yes
L12			0.002	0.022	0.000	0.024			Yes
G11			0.002	0.022	0.000	0.024			Yes
H11			0.002	0.022	0.000	0.024			Yes
J11			0.144	1.297	0.000	1.441			Yes
K11			0.024	0.216	0.000	0.240			Yes
L11			0.002	0.022	0.000	0.024			Yes
H10			0.002	0.022	0.000	0.024			Yes
J10			0.288	2.595	0.000	2.883			No
K10			0.002	0.022	0.000	0.024			Yes
L10			0.002	0.022	0.000	0.024			Yes
		Sub Totals	1.004	9.038	0.000	10.042			

Signed	Checked	For Client	
C. Riddell	C. Riddell		SOIL ENGINEERING

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**		Date 24/04/2023
Project No.	TD8510			Report No. 1
Engineer	Abbeydale BEC Ltd			Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:**	**Infill**	Northern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
H9			0.002	0.022	0.000	0.024			Yes
J9			0.002	0.022	0.000	0.024			Yes
K9			0.002	0.022	0.000	0.024			Yes
L9			0.288	2.595	0.000	2.883			No
J8			0.002	0.022	0.000	0.024			Yes
J7			0.002	0.022	0.000	0.024			Yes
J6			0.002	0.022	0.000	0.024			Yes
J5			0.002	0.022	0.000	0.024			Yes
K8			0.288	2.595	0.000	2.883			No
L8			0.002	0.022	0.000	0.024			Yes

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**		Date 25/04/2023
Project No.	TD8510			Report No. 2
Engineer	Abbeydale BEC Ltd			Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:**	**Infill**	Northern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
J10			0.729	6.564	0.000	7.293			No
K6			0.729	6.564	0.000	7.293			No
K7			0.972	8.751	0.000	9.724			No
K8			0.729	6.564	0.000	7.293			No
L2			0.006	0.055	0.000	0.061			Yes
L3			0.061	0.547	0.000	0.608			Yes
L4			0.365	3.282	0.000	3.646			Yes
L6			0.006	0.055	0.000	0.061			Yes
L7			0.006	0.055	0.000	0.061			Yes
L9			0.061	0.547	0.000	0.608			Yes
M3			0.006	0.055	0.000	0.061			Yes
M4			0.729	6.564	0.000	7.293			No
		Totals	4.400	39.600	0.000	44.000			

Signed	Checked	For Client	
C. Riddell	C. Riddell		SOIL ENGINEERING

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**	Date 26/04/2023
Project No.	TD8510		Report No. 3
Engineer	Abbeydale BEC Ltd		Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:** **Infill**	Northern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
J10			1.130	10.172	0.000	11.302			No
K19			0.009	0.085	0.000	0.094			Yes
K20			0.009	0.085	0.000	0.094			Yes
K21			0.009	0.085	0.000	0.094			Yes
K22			0.009	0.085	0.000	0.094			Yes
K23			0.009	0.085	0.000	0.094			Yes
K24			0.009	0.085	0.000	0.094			Yes
K25			0.009	0.085	0.000	0.094			Yes
K26			0.009	0.085	0.000	0.094			Yes
K27			0.009	0.085	0.000	0.094			Yes
K28			0.009	0.085	0.000	0.094			Yes
K29			0.009	0.085	0.000	0.094			Yes
K30			0.009	0.085	0.000	0.094			Yes
K6			1.130	10.172	0.000	11.302			No
K7			0.585	5.263	0.000	5.848			No
K8			1.130	10.172	0.000	11.302			No
L23			0.009	0.085	0.000	0.094			Yes
L24			0.009	0.085	0.000	0.094			Yes
L25			0.009	0.085	0.000	0.094			Yes
L26			0.009	0.085	0.000	0.094			Yes
L27			0.009	0.085	0.000	0.094			Yes
L28			0.009	0.085	0.000	0.094			Yes
L29			0.009	0.085	0.000	0.094			Yes
L30			0.009	0.085	0.000	0.094			Yes
L31			0.009	0.085	0.000	0.094			Yes
L32			0.009	0.085	0.000	0.094			Yes
L33			0.009	0.085	0.000	0.094			Yes
L34			0.009	0.085	0.000	0.094			Yes
L35			0.009	0.085	0.000	0.094			Yes
M23			0.009	0.085	0.000	0.094			Yes
M24			0.009	0.085	0.000	0.094			Yes
M25			0.009	0.085	0.000	0.094			Yes
M26			0.009	0.085	0.000	0.094			Yes
		Sub Totals	4.248	38.235	0.000	42.483			

Signed	Checked	For Client
C. Riddell	C. Riddell	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**	Date 26/04/2023
Project No.	TD8510		Report No. 3
Engineer	Abbeydale BEC Ltd		Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:** **Infill**	Northern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
M27			0.009	0.085	0.000	0.094			Yes
M28			0.009	0.085	0.000	0.094			Yes
M29			0.009	0.085	0.000	0.094			Yes
M30			0.009	0.085	0.000	0.094			Yes
M31			0.009	0.085	0.000	0.094			Yes
M32			0.009	0.085	0.000	0.094			Yes
M33			0.009	0.085	0.000	0.094			Yes
M34			0.009	0.085	0.000	0.094			Yes
M35			0.009	0.085	0.000	0.094			Yes
M36			0.009	0.085	0.000	0.094			Yes
M37			0.009	0.085	0.000	0.094			Yes
M4			1.507	13.563	0.000	15.070			Yes
N23			0.009	0.085	0.000	0.094			Yes
N24			0.009	0.085	0.000	0.094			Yes
N25			0.009	0.085	0.000	0.094			Yes
N26			0.009	0.085	0.000	0.094			Yes
N27			0.009	0.085	0.000	0.094			Yes
N28			0.009	0.085	0.000	0.094			Yes
N29			0.009	0.085	0.000	0.094			Yes
N30			0.009	0.085	0.000	0.094			Yes
N31			0.009	0.085	0.000	0.094			Yes
N32			0.009	0.085	0.000	0.094			Yes
N33			0.009	0.085	0.000	0.094			Yes
N34			0.009	0.085	0.000	0.094			Yes
N35			0.009	0.085	0.000	0.094			Yes
N36			0.009	0.085	0.000	0.094			Yes
N37			0.009	0.085	0.000	0.094			Yes
		Totals	6.000	54.000	0.000	60.000			

Signed	Checked	For Client
C. Riddell	C. Riddell	

Project Name	ES10 Roundabout, Barnsley	**Daily Site Record**	Date 28/04/2023
Project No.	TD8510		Report No. 014
Engineer	Abbeydale BEC Ltd		Seam/Location
Client	Barnsley Metropolitan Borough Council		Northern Area

Infill

	Drilling			Grouting		
	Cased (m)	Drilled (m)	Number of Holes	Tonnes	Number of Holes	Completed Holes
Today	69.00	328.50	21			
Previous	669.00	3114.00	196	130.00	119	104
To Date	738.00	3442.50	217	130.00	119	104

Test Hole

	Drilling			Grouting		
	Cased (m)	Drilled (m)	Number of Holes	Tonnes	Number of Holes	Completed Holes
Today						
Previous						
To Date						

Materials Delivered (Tonnes)

Cement		PFA		Sand		Gravel	
Ticket No	Tonnage	Ticket No	Tonnage	Ticket No	Tonnage	Ticket No	Tonnage
Today		Today		Today		Today	
Previous	50.60	Previous	398.32	Previous		Previous	
To Date	50.60	To Date	398.32	To Date		To Date	

Remarks Site personnel: 1xSite Manager, 1xForeman, 2xLead Drillers, 4xGeneral Operatives.

07:30-15:15: Both rigs drilling in northern area.
15:15-15:30: Fencing around rigs.

Signed: Chris Riddell For SEGL

Signed: For Client

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**	Date 27/04/2023
Project No.	TD8510		Report No. 4
Engineer	Abbeydale BEC Ltd		Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:** **Infill**	Northern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
K6			0.038	0.346	0.000	0.385			Yes
K7			0.462	4.154	0.000	4.615			No
J10			0.038	0.346	0.000	0.385			Yes
K8			0.462	4.154	0.000	4.615			No
		Totals	1.000	9.000	0.000	10.000			

Signed	Checked	For Client	
C. Riddell	C. Riddell		SOIL ENGINEERING

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**		Date 03/05/2023
Project No.	TD8510			Report No. 5
Engineer	Abbeydale BEC Ltd			Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:**	**Infill**	Northern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
C11			0.004	0.038	0.000	0.042			Yes
C13			0.004	0.038	0.000	0.042			Yes
C15			0.004	0.038	0.000	0.042			Yes
C17			0.004	0.038	0.000	0.042			Yes
C19			0.004	0.038	0.000	0.042			Yes
C21			0.004	0.038	0.000	0.042			Yes
E11			0.004	0.038	0.000	0.042			Yes
E13			0.004	0.038	0.000	0.042			Yes
E15			0.004	0.038	0.000	0.042			Yes
E17			0.004	0.038	0.000	0.042			Yes
E19			0.004	0.038	0.000	0.042			Yes
E21			0.004	0.038	0.000	0.042			Yes
E9			0.004	0.038	0.000	0.042			Yes
G20			0.004	0.038	0.000	0.042			Yes
G21			0.004	0.038	0.000	0.042			Yes
G22			0.004	0.038	0.000	0.042			Yes
G23			0.004	0.038	0.000	0.042			Yes
G24			0.004	0.038	0.000	0.042			Yes
G25			0.004	0.038	0.000	0.042			Yes
G26			0.004	0.038	0.000	0.042			Yes
G27			0.004	0.038	0.000	0.042			Yes
H20			0.004	0.038	0.000	0.042			Yes
H21			0.004	0.038	0.000	0.042			Yes
H22			0.004	0.038	0.000	0.042			Yes
H23			0.004	0.038	0.000	0.042			Yes
H24			0.004	0.038	0.000	0.042			Yes
H25			0.004	0.038	0.000	0.042			Yes
H26			0.004	0.038	0.000	0.042			Yes
H27			0.004	0.038	0.000	0.042			Yes
H28			0.004	0.038	0.000	0.042			Yes
J22			0.004	0.038	0.000	0.042			Yes
J23			0.004	0.038	0.000	0.042			Yes
J24			0.004	0.038	0.000	0.042			Yes
		Sub Totals	0.140	1.259	0.000	1.399			

Signed	Checked	For Client	
C. Riddell	C. Riddell		SOIL ENGINEERING

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**		Date 03/05/2023
Project No.	TD8510			Report No. 5
Engineer	Abbeydale BEC Ltd			Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:**	**Infill**	Northern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
J25			0.004	0.038	0.000	0.042			Yes
J26			0.004	0.038	0.000	0.042			Yes
J27			0.004	0.038	0.000	0.042			Yes
J28			0.004	0.038	0.000	0.042			Yes
J29			0.004	0.038	0.000	0.042			Yes
K4			0.004	0.038	0.000	0.042			Yes
K7			0.127	1.145	0.000	1.273			Yes
L1			0.004	0.038	0.000	0.042			Yes
M1			0.763	6.867	0.000	7.630			No
M2			0.004	0.038	0.000	0.042			Yes
M6			0.004	0.038	0.000	0.042			Yes
M38			0.004	0.038	0.000	0.042			Yes
M39			0.004	0.038	0.000	0.042			Yes
M40			0.004	0.038	0.000	0.042			Yes
M41			0.004	0.038	0.000	0.042			Yes
M42			0.004	0.038	0.000	0.042			Yes
M43			0.004	0.038	0.000	0.042			Yes
M44			0.004	0.038	0.000	0.042			Yes
M45			0.004	0.038	0.000	0.042			Yes
M46			0.004	0.038	0.000	0.042			Yes
M47			0.004	0.038	0.000	0.042			Yes
M48			0.004	0.038	0.000	0.042			Yes
M49			0.004	0.038	0.000	0.042			Yes
M5			0.004	0.038	0.000	0.042			Yes
M50			0.004	0.038	0.000	0.042			Yes
M51			0.004	0.038	0.000	0.042			Yes
M7			0.763	6.867	0.000	7.630			No
N1			0.004	0.038	0.000	0.042			Yes
N2			0.004	0.038	0.000	0.042			Yes
N3			0.004	0.038	0.000	0.042			Yes
N38			0.004	0.038	0.000	0.042			Yes
N39			0.004	0.038	0.000	0.042			Yes
N4			0.004	0.038	0.000	0.042			Yes
		Sub Totals	1.780	16.024	0.000	17.804			

Signed	Checked	For Client
C. Riddell	C. Riddell	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**	Date 03/05/2023
Project No.	TD8510		Report No. 5
Engineer	Abbeydale BEC Ltd		Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:** **Infill**	Northern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
N40			0.004	0.038	0.000	0.042			Yes
N41			0.004	0.038	0.000	0.042			Yes
N42			0.004	0.038	0.000	0.042			Yes
N43			0.004	0.038	0.000	0.042			Yes
N44			0.004	0.038	0.000	0.042			Yes
N45			0.004	0.038	0.000	0.042			Yes
N46			0.004	0.038	0.000	0.042			Yes
N47			0.004	0.038	0.000	0.042			Yes
N48			0.004	0.038	0.000	0.042			Yes
N49			0.004	0.038	0.000	0.042			Yes
N5			0.004	0.038	0.000	0.042			Yes
N50			0.004	0.038	0.000	0.042			Yes
N51			0.004	0.038	0.000	0.042			Yes
N52			0.004	0.038	0.000	0.042			Yes
N53			0.004	0.038	0.000	0.042			Yes
P1			0.004	0.038	0.000	0.042			Yes
P2			0.004	0.038	0.000	0.042			Yes
P26			0.004	0.038	0.000	0.042			Yes
P27			0.004	0.038	0.000	0.042			Yes
P28			0.004	0.038	0.000	0.042			Yes
P29			0.004	0.038	0.000	0.042			Yes
P3			0.004	0.038	0.000	0.042			Yes
P30			0.004	0.038	0.000	0.042			Yes
P31			0.004	0.038	0.000	0.042			Yes
P32			0.004	0.038	0.000	0.042			Yes
P33			0.004	0.038	0.000	0.042			Yes
P34			0.004	0.038	0.000	0.042			Yes
P35			0.004	0.038	0.000	0.042			Yes
P36			0.004	0.038	0.000	0.042			Yes
P37			0.004	0.038	0.000	0.042			Yes
P38			0.004	0.038	0.000	0.042			Yes
P39			0.004	0.038	0.000	0.042			Yes
P4			0.004	0.038	0.000	0.042			Yes
		Sub Totals	0.140	1.259	0.000	1.399			

Signed	Checked	For Client
C. Riddell	C. Riddell	

SOIL ENGINEERING
Part of the Bachy Soletanche Group

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**		Date 03/05/2023
Project No.	TD8510			Report No. 5
Engineer	Abbeydale BEC Ltd			Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:**	**Infill**	Northern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
P5			0.004	0.038	0.000	0.042			Yes
Q1			0.004	0.038	0.000	0.042			Yes
Q2			0.004	0.038	0.000	0.042			Yes
Q26			0.004	0.038	0.000	0.042			Yes
Q27			0.004	0.038	0.000	0.042			Yes
Q28			0.004	0.038	0.000	0.042			Yes
Q29			0.004	0.038	0.000	0.042			Yes
Q3			0.004	0.038	0.000	0.042			Yes
Q30			0.004	0.038	0.000	0.042			Yes
Q31			0.004	0.038	0.000	0.042			Yes
Q32			0.004	0.038	0.000	0.042			Yes
Q33			0.004	0.038	0.000	0.042			Yes
Q34			0.004	0.038	0.000	0.042			Yes
Q35			0.004	0.038	0.000	0.042			Yes
Q36			0.004	0.038	0.000	0.042			Yes
Q37			0.004	0.038	0.000	0.042			Yes
Q38			0.004	0.038	0.000	0.042			Yes
Q39			0.004	0.038	0.000	0.042			Yes
Q4			0.004	0.038	0.000	0.042			Yes
R26			0.004	0.038	0.000	0.042			Yes
R27			0.004	0.038	0.000	0.042			Yes
R28			0.004	0.038	0.000	0.042			Yes
R29			0.004	0.038	0.000	0.042			Yes
R30			0.004	0.038	0.000	0.042			Yes
R31			0.004	0.038	0.000	0.042			Yes
R32			0.004	0.038	0.000	0.042			Yes
R33			0.004	0.038	0.000	0.042			Yes
R34			0.004	0.038	0.000	0.042			Yes
R35			0.004	0.038	0.000	0.042			Yes
R36			0.004	0.038	0.000	0.042			Yes
R37			0.004	0.038	0.000	0.042			Yes
R38			0.004	0.038	0.000	0.042			Yes
R39			0.004	0.038	0.000	0.042			Yes
		Totals	2.200	19.800	0.000	22.000			

Signed	Checked	For Client
C. Riddell	C. Riddell	

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**	Date	05/05/2023
Project No.	TD8510		Report No.	6
Engineer	Abbeydale BEC Ltd		Seam/Location	
Client	Barnsley Metropolitan Borough Council	**Type:** **Infill**		Northern Area

Start of Shift	07:30	End of Shift	15:30	Hours	08:00

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
C23			0.004	0.036	0.000	0.040			Yes
E23			0.004	0.036	0.000	0.040			Yes
E25			0.004	0.036	0.000	0.040			Yes
G7			0.004	0.036	0.000	0.040			Yes
G8			0.004	0.036	0.000	0.040			Yes
G9			0.004	0.036	0.000	0.040			Yes
G10			0.004	0.036	0.000	0.040			Yes
G18			0.004	0.036	0.000	0.040			Yes
G19			0.004	0.036	0.000	0.040			Yes
H6			0.004	0.036	0.000	0.040			Yes
H7			0.004	0.036	0.000	0.040			Yes
H8			0.004	0.036	0.000	0.040			Yes
H18			0.004	0.036	0.000	0.040			Yes
H19			0.004	0.036	0.000	0.040			Yes
J18			0.004	0.036	0.000	0.040			Yes
J19			0.004	0.036	0.000	0.040			Yes
J20			0.004	0.036	0.000	0.040			Yes
J21			0.004	0.036	0.000	0.040			Yes
K5			0.004	0.036	0.000	0.040			Yes
K8			0.228	2.052	0.000	2.280			Yes
K13			0.012	0.108	0.000	0.120			Yes
L5			0.004	0.036	0.000	0.040			Yes
L5A			0.048	0.432	0.000	0.480			Yes
L21			0.004	0.036	0.000	0.040			Yes
L22			0.048	0.432	0.000	0.480			Yes
M1			0.456	4.104	0.000	4.560			Yes
M7			0.228	2.052	0.000	2.280			Yes
M8			0.004	0.036	0.000	0.040			Yes
M9			0.004	0.036	0.000	0.040			Yes
M10			0.004	0.036	0.000	0.040			Yes
M11			0.004	0.036	0.000	0.040			Yes
M12			0.004	0.036	0.000	0.040			Yes
N6			0.012	0.108	0.000	0.120			Yes
		Sub Totals	1.136	10.224	0.000	11.360			

Signed	Checked	For Client	
C. Riddell	C. Riddell		SOIL ENGINEERING

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**		Date 05/05/2023
Project No.	TD8510			Report No. 6
Engineer	Abbeydale BEC Ltd			Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:**	**Infill**	Northern Area

Start of Shift	07:30	End of Shift	15:30	Hours	08:00

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
N7			0.004	0.036	0.000	0.040			Yes
N8			0.124	1.116	0.000	1.240			Yes
N9			0.228	2.052	0.000	2.280			Yes
N10			0.228	2.052	0.000	2.280			Yes
N11			0.004	0.036	0.000	0.040			Yes
P6			0.004	0.036	0.000	0.040			Yes
P7			0.004	0.036	0.000	0.040			Yes
P8			0.004	0.036	0.000	0.040			Yes
P9			0.004	0.036	0.000	0.040			Yes
P10			0.004	0.036	0.000	0.040			Yes
P24			0.004	0.036	0.000	0.040			Yes
P25			0.004	0.036	0.000	0.040			Yes
P40			0.004	0.036	0.000	0.040			Yes
P41			0.004	0.036	0.000	0.040			Yes
P42			0.004	0.036	0.000	0.040			Yes
P43			0.004	0.036	0.000	0.040			Yes
P44			0.004	0.036	0.000	0.040			Yes
P45			0.004	0.036	0.000	0.040			Yes
P46			0.004	0.036	0.000	0.040			Yes
P47			0.228	2.052	0.000	2.280			Yes
P48			0.004	0.036	0.000	0.040			Yes
P49			0.004	0.036	0.000	0.040			Yes
P50			0.004	0.036	0.000	0.040			Yes
P51			0.004	0.036	0.000	0.040			Yes
P52			0.004	0.036	0.000	0.040			Yes
P53			0.004	0.036	0.000	0.040			Yes
Q5			0.004	0.036	0.000	0.040			Yes
Q6			0.004	0.036	0.000	0.040			Yes
Q7			0.004	0.036	0.000	0.040			Yes
Q8			0.004	0.036	0.000	0.040			Yes
Q9			0.004	0.036	0.000	0.040			Yes
Q10			0.004	0.036	0.000	0.040			Yes
Q24			0.004	0.036	0.000	0.040			Yes
		Sub Totals	0.924	8.316	0.000	9.240			

Signed	Checked	For Client	
C. Riddell	C. Riddell		SOIL ENGINEERING

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**		Date 05/05/2023
Project No.	TD8510			Report No. 6
Engineer	Abbeydale BEC Ltd			Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:**	**Infill**	Northern Area

Start of Shift	07:30	End of Shift	15:30	Hours	08:00

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
Q25			0.004	0.036	0.000	0.040			Yes
Q40			0.004	0.036	0.000	0.040			Yes
Q41			0.004	0.036	0.000	0.040			Yes
Q42			0.004	0.036	0.000	0.040			Yes
Q43			0.004	0.036	0.000	0.040			Yes
Q44			0.004	0.036	0.000	0.040			Yes
Q45			0.004	0.036	0.000	0.040			Yes
Q46			0.004	0.036	0.000	0.040			Yes
Q47			0.004	0.036	0.000	0.040			Yes
Q48			0.004	0.036	0.000	0.040			Yes
Q49			0.004	0.036	0.000	0.040			Yes
Q50			0.004	0.036	0.000	0.040			Yes
Q51			0.004	0.036	0.000	0.040			Yes
Q52			0.004	0.036	0.000	0.040			Yes
Q53			0.004	0.036	0.000	0.040			Yes
R7			0.004	0.036	0.000	0.040			Yes
R8			0.004	0.036	0.000	0.040			Yes
R9			0.004	0.036	0.000	0.040			Yes
R10			0.004	0.036	0.000	0.040			Yes
R24			0.004	0.036	0.000	0.040			Yes
R25			0.004	0.036	0.000	0.040			Yes
R40			0.004	0.036	0.000	0.040			Yes
R41			0.004	0.036	0.000	0.040			Yes
R42			0.004	0.036	0.000	0.040			Yes
R43			0.004	0.036	0.000	0.040			Yes
R44			0.004	0.036	0.000	0.040			Yes
R45			0.004	0.036	0.000	0.040			Yes
R46			0.004	0.036	0.000	0.040			Yes
R47			0.004	0.036	0.000	0.040			Yes
R48			0.004	0.036	0.000	0.040			Yes
R49			0.004	0.036	0.000	0.040			Yes
R50			0.004	0.036	0.000	0.040			Yes
R51			0.004	0.036	0.000	0.040			Yes
		Sub Totals	0.132	1.188	0.000	1.320			

Signed	Checked	For Client	
C. Riddell	C. Riddell		SOIL ENGINEERING

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**	Date 05/05/2023
Project No.	TD8510		Report No. 6
Engineer	Abbeydale BEC Ltd		Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:** **Infill**	Northern Area

Start of Shift	07:30	End of Shift	15:30	Hours	08:00

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
R52			0.004	0.036	0.000	0.040			Yes
R53			0.004	0.036	0.000	0.040			Yes

Project Name	ES10 Roundabout, Barnsley	**Daily Grouting Record**		Date 09/05/2023
Project No.	TD8510			Report No. 7
Engineer	Abbeydale BEC Ltd			Seam/Location
Client	Barnsley Metropolitan Borough Council	**Type:**	**Infill**	Northern Area

Start of Shift	07:30	End of Shift	18:00	Hours	10:30

Hole ID	Depth (m)	Pressure (Bar)	Material (Tonne)				Gravel (Tonne)	Remarks	Complete
			Cement	PFA	Sand	Total			
TH07		2.00	0.010	0.090	0.000	0.100		J/K 11	Yes
TH08		2.00	0.010	0.090	0.000	0.100		L/M 7	Yes
TH09		2.00	0.008	0.072	0.000	0.080		N/P 51	Yes
TH10		2.00	0.010	0.090	0.000	0.100		Q/R 4	Yes
TH11		2.00	0.008	0.072	0.000	0.080		N/P 47	Yes
			0.154	1.386	0.000	1.540		Other holes topped up	
								with remaining grout	

APPENDIX D - GROUT CUBE TESTING CERTIFICATES

MATtest Limited
materials testing & consultancy

10 Queenslie Point
Queenslie Industrial Estate
120 Stepps Road
Glasgow
G33 3NQ

Tel: 0141 774 4032
Website: www.mattest.org

Soil Engineering, Vinci Construction
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

Certificate Number 2000 2212

Determination of Compressive Strength and Density of Concrete Cube Specimens Tested in accordance with BS EN 12390 - 3 : 2019 and BS EN 12390 - 7 : 2019

Customer:	Soil Engineering, Vinci Construction	**Date Received:**	27/03/2023
Site Name:	ES10 Roundabout, Barnsley	**Concrete Supplier:**	Not Supplied
Mix Type:	9:1	**Ticket No:**	Not Supplied
Slump:	-	**Slump mm:**	
Location:	-		

Lab Reference	295830	295831	295832
Site Reference	1	2	3
Date Cast	01/03/2023	01/03/2023	01/03/2023
Test Date	29/03/2023	29/03/2023	29/03/2023
Age at Test (Days)	28	28	28
Nominal Size (mm)	100	100	100
Condition at Test	Saturated	Saturated	Saturated
Dimensional Tolerance Met?	No	No	No
Mass in Air (g)	1329.7	1514.0	1370.0
Density (kg/m3)	**1320**	**1500**	**1390**
Load at Failure (kN)	29.8	27.5	28.2
Compressive Strength (N/mm2)	**3.0**	**2.8**	**2.8**
Mode of Failure	Satisfactory	Satisfactory	Satisfactory
Remarks	3 10 4	3 10 4	3 10 4

Remark Codes:

1. Sampled by MATtest Limited in accordance with BS EN 12350-1
2. Sampled by MATtest Site Services in accordance with BS EN 12350-1
3. Sampled by other, no guarantee can be made on the curing history prior to receipt.
4. Cube out of dimensional tolerances, tested to Annex B Tolerances
5. Damaged/missing corners
6. Exposed Aggregate
7. Poor Compaction
8. Tested in an 'as received' condition
9. Cube honeycombed
10. Cube air cured
11. Surface Air Voids
12. Site Cured

Curing at 20 +/- 2oC, compressive strength and density carried out in accordance with BS EN 12390 unless otherwise stated
Density determined by water displacement in accordance with BS EN 12390-7 : 2019 + AC 2020
All cubes are checked for compliance to BS EN 12390 - 1 : 2021 prior to test.
Where fins are found they are removed using a carborundum stone.
The results contained in this test certificate relate to the sample(s) as received
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This test certificate should not be reproduced without the written approval of the laboratory

Approved for Issue

Date: 18/05/2023

M Timoney (Laboratory Manager)

UKAS TESTING
2643

MATtest Limited
materials testing & consultancy

10 Queenslie Point
Queenslie Industrial Estate
120 Stepps Road
Glasgow
G33 3NQ

Tel: 0141 774 4032
Website: www.mattest.org

Soil Engineering, Vinci Construction
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

Certificate Number 2000 2213

Determination of Compressive Strength and Density of Concrete Cube Specimens Tested in accordance with BS EN 12390 - 3 : 2019 and BS EN 12390 - 7 : 2019

Customer:	Soil Engineering, Vinci Construction	**Date Received:**	27/03/2023
Site Name:	ES10 Roundabout, Barnsley	**Concrete Supplier:**	Not Supplied
Mix Type:	9:1	**Ticket No:**	Not Supplied
Slump:	-	**Slump mm:**	
Location:	-		

Lab Reference	295833	295834	295835
Site Reference	4	5	6
Date Cast	03/03/2023	03/03/2023	03/03/2023
Test Date	31/03/2023	31/03/2023	31/03/2023
Age at Test (Days)	28	28	28
Nominal Size (mm)	100	100	100
Condition at Test	Saturated	Saturated	Saturated
Dimensional Tolerance Met?	No	No	No
Mass in Air (g)	1508.6	1338.4	1437.8
Density (kg/m3)	**1500**	**1330**	**1430**
Load at Failure (kN)	28.4	32.9	36.0
Compressive Strength (N/mm2)	**2.8**	**3.3**	**3.6**
Mode of Failure	Satisfactory	Satisfactory	Satisfactory
Remarks	3 10 4	3 10 4	3 10 4

Remark Codes:

1. Sampled by MATtest Limited in accordance with BS EN 12350-1
2. Sampled by MATtest Site Services in accordance with BS EN 12350-1
3. Sampled by other, no guarantee can be made on the curing history prior to receipt.
4. Cube out of dimensional tolerances, tested to Annex B Tolerances
5. Damaged/missing corners
6. Exposed Aggregate
7. Poor Compaction
8. Tested in an 'as received' condition
9. Cube honeycombed
10. Cube air cured
11. Surface Air Voids
12. Site Cured

Curing at 20 +/- 2oC, compressive strength and density carried out in accordance with BS EN 12390 unless otherwise stated
Density determined by water displacement in accordance with BS EN 12390-7 : 2019 + AC 2020
All cubes are checked for compliance to BS EN 12390 - 1 : 2021 prior to test.
Where fins are found they are removed using a carborundum stone.
The results contained in this test certificate relate to the sample(s) as received
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This test certificate should not be reproduced without the written approval of the laboratory

Approved for Issue

Date: 23/05/2023

M Timoney (Laboratory Manager)

UKAS TESTING
2643

MATtest Limited
materials testing & consultancy

10 Queenslie Point
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120 Stepps Road
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Soil Engineering, Vinci Construction
Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

Certificate Number 2000 2214

Determination of Compressive Strength and Density of Concrete Cube Specimens Tested in accordance with BS EN 12390 - 3 : 2019 and BS EN 12390 - 7 : 2019

Customer:	Soil Engineering, Vinci Construction	**Date Received:**	27/03/2023
Site Name:	ES10 Roundabout, Barnsley	**Concrete Supplier:**	Not Supplied
Mix Type:	9:1	**Ticket No:**	Not Supplied
Slump:	-	**Slump mm:**	
Location:	-		

Lab Reference	295836	295837	295838
Site Reference	7	8	9
Date Cast	06/03/2023	06/03/2023	06/03/2023
Test Date	03/04/2023	03/04/2023	03/04/2023
Age at Test (Days)	28	28	28
Nominal Size (mm)	99	98	99
Condition at Test	Saturated	Saturated	Saturated
Dimensional Tolerance Met?	No	No	No
Mass in Air (g)	1436.0	1501.4	1428.8
Density (kg/m3)	**1490**	**1560**	**1480**
Load at Failure (kN)	6.9	6.9	6.8
Compressive Strength (N/mm2)	**0.7**	**0.7**	**0.7**
Mode of Failure	Satisfactory	Satisfactory	Satisfactory
Remarks	3 10 4	3 10 4	3 10 4

Remark Codes:

1. Sampled by MATtest Limited in accordance with BS EN 12350-1
2. Sampled by MATtest Site Services in accordance with BS EN 12350-1
3. Sampled by other, no guarantee can be made on the curing history prior to receipt.
4. Cube out of dimensional tolerances, tested to Annex B Tolerances
5. Damaged/missing corners
6. Exposed Aggregate
7. Poor Compaction
8. Tested in an 'as received' condition
9. Cube honeycombed
10. Cube air cured
11. Surface Air Voids
12. Site Cured

Curing at 20 +/- 2oC, compressive strength and density carried out in accordance with BS EN 12390 unless otherwise stated
Density determined by water displacement in accordance with BS EN 12390-7 : 2019 + AC 2020
All cubes are checked for compliance to BS EN 12390 - 1 : 2021 prior to test.
Where fins are found they are removed using a carborundum stone.
The results contained in this test certificate relate to the sample(s) as received
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This test certificate should not be reproduced without the written approval of the laboratory

Approved for Issue

Date: 18/05/2023

M Timoney (Laboratory Manager)

UKAS TESTING
2643

MATtest Limited
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10 Queenslie Point
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120 Stepps Road
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Tel: 0141 774 4032
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Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

Certificate Number 2000 2215

Determination of Compressive Strength and Density of Concrete Cube Specimens Tested in accordance with BS EN 12390 - 3 : 2019 and BS EN 12390 - 7 : 2019

Customer: Soil Engineering, Vinci Construction
Site Name: ES10 Roundabout, Barnsley
Mix Type: 9:1
Slump: -
Location: -

Date Received: 27/03/2023
Concrete Supplier: Not Supplied
Ticket No: Not Supplied
Slump mm:

Lab Reference	295839	295840	295841
Site Reference	10	11	12
Date Cast	07/03/2023	07/03/2023	07/03/2023
Test Date	04/04/2023	04/04/2023	04/04/2023
Age at Test (Days)	28	28	28
Nominal Size (mm)	98	98	98
Condition at Test	Saturated	Saturated	Saturated
Dimensional Tolerance Met?	No	No	No
Mass in Air (g)	1491.6	1402.7	1503.6
Density (kg/m3)	**1570**	**1460**	**1570**
Load at Failure (kN)	10.3	10.4	10.4
Compressive Strength (N/mm2)	**1.1**	**1.1**	**1.1**
Mode of Failure	Satisfactory	Satisfactory	Satisfactory
Remarks	3 10 4	3 10 4	3 10 4

Remark Codes:

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2. Sampled by MATtest Site Services in accordance with BS EN 12350-1
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5. Damaged/missing corners
6. Exposed Aggregate
7. Poor Compaction
8. Tested in an 'as received' condition
9. Cube honeycombed
10. Cube air cured
11. Surface Air Voids
12. Site Cured

Curing at 20 +/- 2oC, compressive strength and density carried out in accordance with BS EN 12390 unless otherwise stated
Density determined by water displacement in accordance with BS EN 12390-7 : 2019 + AC 2020
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Approved for Issue

Date: 18/05/2023

M Timoney (Laboratory Manager)

UKAS TESTING
2643

MATtest Limited
materials testing & consultancy

10 Queenslie Point
Queenslie Industrial Estate
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Soil Engineering, Vinci Construction
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LS11 5SX

Certificate Number 2000 2216

Determination of Compressive Strength and Density of Concrete Cube Specimens Tested in accordance with BS EN 12390 - 3 : 2019 and BS EN 12390 - 7 : 2019

Customer: Soil Engineering, Vinci Construction
Site Name: ES10 Roundabout, Barnsley
Mix Type: 9:1
Slump: -
Location: -

Date Received: 27/03/2023
Concrete Supplier: Not Supplied
Ticket No: Not Supplied
Slump mm:

Lab Reference	295842	295843	295844
Site Reference	13	14	15
Date Cast	13/03/2023	13/03/2023	13/03/2023
Test Date	10/04/2023	10/04/2023	10/04/2023
Age at Test (Days)	28	28	28
Nominal Size (mm)	98	100	99
Condition at Test	Saturated	Saturated	Saturated
Dimensional Tolerance Met?	No	No	No
Mass in Air (g)	1361.5	1411.0	1515.0
Density (kg/m3)	**1400**	**1420**	**1590**
Load at Failure (kN)	12.1	14.6	11.5
Compressive Strength (N/mm2)	**1.3**	**1.5**	**1.2**
Mode of Failure	Satisfactory	Satisfactory	Satisfactory
Remarks	3 10 4	3 10 4	3 10 4

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7. Poor Compaction
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11. Surface Air Voids
12. Site Cured

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Certificate Number 2000 2217

Determination of Compressive Strength and Density of Concrete Cube Specimens Tested in accordance with BS EN 12390 - 3 : 2019 and BS EN 12390 - 7 : 2019

Customer:	Soil Engineering, Vinci Construction	**Date Received:**	27/03/2023
Site Name:	ES10 Roundabout, Barnsley	**Concrete Supplier:**	Not Supplied
Mix Type:	9:1	**Ticket No:**	Not Supplied
Slump:	-	**Slump mm:**	
Location:	-		

Lab Reference	295845	295846	295847
Site Reference	16	17	18
Date Cast	14/03/2023	14/03/2023	14/03/2023
Test Date	11/04/2023	11/04/2023	11/04/2023
Age at Test (Days)	28	28	28
Nominal Size (mm)	100	99	100
Condition at Test	Saturated	Saturated	Saturated
Dimensional Tolerance Met?	No	No	No
Mass in Air (g)	1521.0	1335.3	1536.1
Density (kg/m3)	**1540**	**1360**	**1530**
Load at Failure (kN)	11.5	12.8	13.3
Compressive Strength (N/mm2)	**1.1**	**1.3**	**1.3**
Mode of Failure	Satisfactory	Satisfactory	Satisfactory
Remarks	3 10 4	3 10 4	3 10 4

Remark Codes:

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5. Damaged/missing corners
6. Exposed Aggregate
7. Poor Compaction
8. Tested in an 'as received' condition
9. Cube honeycombed
10. Cube air cured
11. Surface Air Voids
12. Site Cured

Curing at 20 +/- 2oC, compressive strength and density carried out in accordance with BS EN 12390 unless otherwise stated
Density determined by water displacement in accordance with BS EN 12390-7 : 2019 + AC 2020
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Certificate Number 2000 2218

Determination of Compressive Strength and Density of Concrete Cube Specimens Tested in accordance with BS EN 12390 - 3 : 2019 and BS EN 12390 - 7 : 2019

Customer:	Soil Engineering, Vinci Construction	**Date Received:**	27/03/2023
Site Name:	ES10 Roundabout, Barnsley	**Concrete Supplier:**	Not Supplied
Mix Type:	9:1	**Ticket No:**	Not Supplied
Slump:	-	**Slump mm:**	
Location:	-		

Lab Reference	295848	295849	295850
Site Reference	19	20	21
Date Cast	15/03/2023	15/03/2023	15/03/2023
Test Date	12/04/2023	12/04/2023	12/04/2023
Age at Test (Days)	28	28	28
Nominal Size (mm)	99	99	98
Condition at Test	Saturated	Saturated	Saturated
Dimensional Tolerance Met?	No	No	No
Mass in Air (g)	1452.8	1575.2	1446.1
Density (kg/m3)	**1480**	**1590**	**1500**
Load at Failure (kN)	43.0	44.6	46.0
Compressive Strength (N/mm2)	**4.4**	**4.5**	**4.8**
Mode of Failure	Satisfactory	Satisfactory	Satisfactory
Remarks	3 10 4	3 10 4	3 10 4

Remark Codes:

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2. Sampled by MATtest Site Services in accordance with BS EN 12350-1
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4. Cube out of dimensional tolerances, tested to Annex B Tolerances
5. Damaged/missing corners
6. Exposed Aggregate
7. Poor Compaction
8. Tested in an 'as received' condition
9. Cube honeycombed
10. Cube air cured
11. Surface Air Voids
12. Site Cured

Curing at 20 +/- 2oC, compressive strength and density carried out in accordance with BS EN 12390 unless otherwise stated
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Certificate Number 2000 2219

Determination of Compressive Strength and Density of Concrete Cube Specimens Tested in accordance with BS EN 12390 - 3 : 2019 and BS EN 12390 - 7 : 2019

Customer: Soil Engineering, Vinci Construction
Site Name: ES10 Roundabout, Barnsley
Mix Type: 9:1
Slump: -
Location: -

Date Received: 27/03/2023
Concrete Supplier: Not Supplied
Ticket No: Not Supplied
Slump mm:

Lab Reference	295851	295852	295853
Site Reference	22	23	24
Date Cast	16/03/2023	16/03/2023	16/03/2023
Test Date	13/04/2023	13/04/2023	13/04/2023
Age at Test (Days)	28	28	28
Nominal Size (mm)	100	100	100
Condition at Test	Saturated	Saturated	Saturated
Dimensional Tolerance Met?	No	No	No
Mass in Air (g)	1547.9	1422.4	1537.0
Density (kg/m3)	**1560**	**1400**	**1520**
Load at Failure (kN)	38.8	38.6	28.8
Compressive Strength (N/mm2)	**3.9**	**3.8**	**2.9**
Mode of Failure	Satisfactory	Satisfactory	Satisfactory
Remarks	3 10 4	3 10 4	3 10 4

Remark Codes:

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6. Exposed Aggregate
7. Poor Compaction
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10. Cube air cured
11. Surface Air Voids
12. Site Cured

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Certificate Number 2000 2220

Determination of Compressive Strength and Density of Concrete Cube Specimens Tested in accordance with BS EN 12390 - 3 : 2019 and BS EN 12390 - 7 : 2019

Customer:	Soil Engineering, Vinci Construction	**Date Received:**	27/03/2023
Site Name:	ES10 Roundabout, Barnsley	**Concrete Supplier:**	Not Supplied
Mix Type:	9:1	**Ticket No:**	Not Supplied
Slump:	-	**Slump mm:**	
Location:	-		

Lab Reference	295854	295855	295856
Site Reference	25	26	27
Date Cast	17/03/2023	17/03/2023	17/03/2023
Test Date	14/04/2023	14/04/2023	14/04/2023
Age at Test (Days)	28	28	28
Nominal Size (mm)	98	101	98
Condition at Test	Saturated	Saturated	Saturated
Dimensional Tolerance Met?	No	No	No
Mass in Air (g)	1332.9	1569.1	1372.1
Density (kg/m3)	**1370**	**1550**	**1420**
Load at Failure (kN)	13.1	15.1	13.2
Compressive Strength (N/mm2)	**1.4**	**1.5**	**1.4**
Mode of Failure	Satisfactory	Satisfactory	Satisfactory
Remarks	3 10 4	3 10 4	3 10 4

Remark Codes:

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6. Exposed Aggregate
7. Poor Compaction
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10. Cube air cured
11. Surface Air Voids
12. Site Cured

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Certificate Number 2000 2221

Determination of Compressive Strength and Density of Concrete Cube Specimens Tested in accordance with BS EN 12390 - 3 : 2019 and BS EN 12390 - 7 : 2019

Customer:	Soil Engineering, Vinci Construction	**Date Received:**	27/03/2023
Site Name:	ES10 Roundabout, Barnsley	**Concrete Supplier:**	Not Supplied
Mix Type:	9:1	**Ticket No:**	Not Supplied
Slump:	-	**Slump mm:**	
Location:	-		

Lab Reference	295857	295858	295859
Site Reference	28	29	30
Date Cast	20/03/2023	20/03/2023	20/03/2023
Test Date	17/04/2023	17/04/2023	17/04/2023
Age at Test (Days)	28	28	28
Nominal Size (mm)	100	100	100
Condition at Test	Saturated	Saturated	Saturated
Dimensional Tolerance Met?	No	No	No
Mass in Air (g)	1441.9	1273.3	1598.3
Density (kg/m3)	**1560**	**1270**	**1580**
Load at Failure (kN)	31.5	37.0	48.5
Compressive Strength (N/mm2)	**3.1**	**3.7**	**4.8**
Mode of Failure	Satisfactory	Satisfactory	Satisfactory
Remarks	3 10 4	3 10 4	3 10 4

Remark Codes:

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3. Sampled by other, no guarantee can be made on the curing history prior to receipt.
4. Cube out of dimensional tolerances, tested to Annex B Tolerances
5. Damaged/missing corners
6. Exposed Aggregate
7. Poor Compaction
8. Tested in an 'as received' condition
9. Cube honeycombed
10. Cube air cured
11. Surface Air Voids
12. Site Cured

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Certificate Number 2000 3650

Determination of Compressive Strength and Density of Concrete Cube Specimens Tested in accordance with BS EN 12390 - 3 : 2019 and BS EN 12390 - 7 : 2019

Customer:	Soil Engineering, Vinci Construction	**Date Received:**	21/06/2023
Site Name:	ES10 Roundabout, Barnsley	**Concrete Supplier:**	Not Supplied
Mix Type:	9:1	**Ticket No:**	Not Supplied
Slump:	-	**Slump mm:**	
Location:	-		

Lab Reference	301498	301499	301500
Site Reference	31	32	33
Date Cast	24/04/2023	24/04/2023	24/04/2023
Test Date	22/06/2023	22/06/2023	22/06/2023
Age at Test (Days)	59	59	59
Nominal Size (mm)	96	96	94
Condition at Test	Saturated	Saturated	Saturated
Dimensional Tolerance Met?	No	No	No
Mass in Air (g)	1254.3	1385.4	1373.2
Density (kg/m3)	**1430**	**1560**	**1670**
Load at Failure (kN)	54.7	49.3	49.6
Compressive Strength (N/mm2)	**5.9**	**5.3**	**5.7**
Mode of Failure	Satisfactory	Satisfactory	Satisfactory
Remarks	3 10 4	3 10 4	3 10 4

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Certificate Number 2000 3651

Determination of Compressive Strength and Density of Concrete Cube Specimens Tested in accordance with BS EN 12390 - 3 : 2019 and BS EN 12390 - 7 : 2019

Customer: Soil Engineering, Vinci Construction
Site Name: ES10 Roundabout, Barnsley
Mix Type: 9:1
Slump: -
Location: -

Date Received: 21/06/2023
Concrete Supplier: Not Supplied
Ticket No: Not Supplied
Slump mm:

Lab Reference	301501	301502	301503
Site Reference	34	35	36
Date Cast	25/04/2023	25/04/2023	25/04/2023
Test Date	22/06/2023	22/06/2023	22/06/2023
Age at Test (Days)	58	58	58
Nominal Size (mm)	99	100	98
Condition at Test	Saturated	Saturated	Saturated
Dimensional Tolerance Met?	No	No	No
Mass in Air (g)	1487.1	1488.7	1502.1
Density (kg/m3)	**1520**	**1580**	**1570**
Load at Failure (kN)	102.2	100.4	109.6
Compressive Strength (N/mm2)	**10.4**	**10.0**	**11.4**
Mode of Failure	Satisfactory	Satisfactory	Satisfactory
Remarks	3 10 4	3 10 4	3 10 4

Remark Codes:

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6. Exposed Aggregate
7. Poor Compaction
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Certificate Number 2000 3652

Determination of Compressive Strength and Density of Concrete Cube Specimens Tested in accordance with BS EN 12390 - 3 : 2019 and BS EN 12390 - 7 : 2019

Customer:	Soil Engineering, Vinci Construction	**Date Received:**	21/06/2023
Site Name:	ES10 Roundabout, Barnsley	**Concrete Supplier:**	Not Supplied
Mix Type:	9:1	**Ticket No:**	Not Supplied
Slump:	-	**Slump mm:**	
Location:	-		

Lab Reference	301504	301505	301506
Site Reference	37	38	39
Date Cast	26/04/2023	26/04/2023	26/04/2023
Test Date	22/06/2023	22/06/2023	22/06/2023
Age at Test (Days)	57	57	57
Nominal Size (mm)	98	98	97
Condition at Test	Saturated	Saturated	Saturated
Dimensional Tolerance Met?	No	No	No
Mass in Air (g)	1514.0	1431.8	1444.3
Density (kg/m3)	**1620**	**1550**	**1580**
Load at Failure (kN)	109.6	122.8	109.7
Compressive Strength (N/mm2)	**11.4**	**12.9**	**11.7**
Mode of Failure	Satisfactory	Satisfactory	Satisfactory
Remarks	3 10 4	3 10 4	3 10 4

Remark Codes:

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2. Sampled by MATtest Site Services in accordance with BS EN 12350-1
3. Sampled by other, no guarantee can be made on the curing history prior to receipt.
4. Cube out of dimensional tolerances, tested to Annex B Tolerances
5. Damaged/missing corners
6. Exposed Aggregate
7. Poor Compaction
8. Tested in an 'as received' condition
9. Cube honeycombed
10. Cube air cured
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12. Site Cured

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Certificate Number 2000 3653

Determination of Compressive Strength and Density of Concrete Cube Specimens Tested in accordance with BS EN 12390 - 3 : 2019 and BS EN 12390 - 7 : 2019

Customer: Soil Engineering, Vinci Construction
Site Name: ES10 Roundabout, Barnsley
Mix Type: 9:1
Slump: -
Location: -

Date Received: 21/06/2023
Concrete Supplier: Not Supplied
Ticket No: Not Supplied
Slump mm:

Lab Reference	301507	301508	301509
Site Reference	40	41	42
Date Cast	27/04/2023	27/04/2023	27/04/2023
Test Date	22/06/2023	22/06/2023	22/06/2023
Age at Test (Days)	56	56	56
Nominal Size (mm)	99	101	100
Condition at Test	Saturated	Saturated	Saturated
Dimensional Tolerance Met?	No	No	No
Mass in Air (g)	1554.4	1640.2	1567.1
Density (kg/m3)	**1570**	**1580**	**1570**
Load at Failure (kN)	122.4	118.0	126.9
Compressive Strength (N/mm2)	**12.4**	**11.5**	**12.6**
Mode of Failure	Satisfactory	Satisfactory	Satisfactory
Remarks	3 10 4	3 10 4	3 10 4

Remark Codes:

1. Sampled by MATtest Limited in accordance with BS EN 12350-1
2. Sampled by MATtest Site Services in accordance with BS EN 12350-1
3. Sampled by other, no guarantee can be made on the curing history prior to receipt.
4. Cube out of dimensional tolerances, tested to Annex B Tolerances
5. Damaged/missing corners
6. Exposed Aggregate
7. Poor Compaction
8. Tested in an 'as received' condition
9. Cube honeycombed
10. Cube air cured
11. Surface Air Voids
12. Site Cured

Curing at 20 +/- 2oC, compressive strength and density carried out in accordance with BS EN 12390 unless otherwise stated
Density determined by water displacement in accordance with BS EN 12390-7 : 2019 + AC 2020
All cubes are checked for compliance to BS EN 12390 - 1 : 2021 prior to test.
Where fins are found they are removed using a carborundum stone.
The results contained in this test certificate relate to the sample(s) as received
Opinions and interpretations expressed herein are outside the scope of UKAS accreditation
This test certificate should not be reproduced without the written approval of the laboratory

Approved for Issue

Date: 23/06/2023

M Timoney (Laboratory Manager)

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2643

MATtest Limited
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Parkside Lane
Dewsbury Road
Leeds
LS11 5SX

Certificate Number 2000 3654

Determination of Compressive Strength and Density of Concrete Cube Specimens Tested in accordance with BS EN 12390 - 3 : 2019 and BS EN 12390 - 7 : 2019

Customer: Soil Engineering, Vinci Construction
Site Name: ES10 Roundabout, Barnsley
Mix Type: 9:1
Slump: -
Location: -

Date Received: 21/06/2023
Concrete Supplier: Not Supplied
Ticket No: Not Supplied
Slump mm:

Lab Reference	301510	301511	301512
Site Reference	43	44	45
Date Cast	03/05/2023	03/05/2023	03/05/2023
Test Date	22/06/2023	22/06/2023	22/06/2023
Age at Test (Days)	50	50	50
Nominal Size (mm)	99	100	99
Condition at Test	Saturated	Saturated	Saturated
Dimensional Tolerance Met?	No	No	No
Mass in Air (g)	1421.8	1442.2	1352.3
Density (kg/m3)	**1450**	**1450**	**1370**
Load at Failure (kN)	48.8	49.7	47.1
Compressive Strength (N/mm2)	**5.0**	**5.0**	**4.8**
Mode of Failure	Satisfactory	Satisfactory	Satisfactory
Remarks	3 10 4	3 10 4	3 10 4

Remark Codes:

1. Sampled by MATtest Limited in accordance with BS EN 12350-1
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