



GROUNDTECH
CONSULTING

CARR LANE, PRESCOT

MINE SHAFT TRENCHING INVESTIGATION

PARTNER CONSTRUCTION LIMITED

FEBRUARY 2024

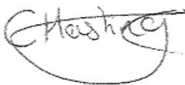
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PROJECT	CARR LANE, PRESCOT
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CLIENT	PARTNER CONSTRUCTION
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For and Behalf of Groundtech Consulting	
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Plans

<i>Plan Reference</i>	<i>Revision</i>	<i>Title</i>
GRO-22463-P01	-	Project Location Plan
GRO-22463-P17	-	Zone Of Influence Plan
GRO-22463-P21	-	Trial Trench Location Plan - Shaft 16
GRO-22463-P22	-	Trial Trench Location Plan - Shaft 15

1.0 INTRODUCTION

1.1 Project Objectives

Groundtech Consulting Limited have been instructed by Partner Construction to undertake a Supplementary trenching investigation for a site at Carr Lane in Prescot to attempt to locate two recorded mine shafts.

1.2 Proposed Development

The proposed development is residential end use comprising the construction of dwellings with associated hardsurfaced driveways, soft landscaped private gardens and areas of public open space.



1.3 Limitations

Other conditions may exist on the site that have not been taken into account in this assessment as they are outside the scope of works. Groundtech Consulting are not responsible for these circumstances that are not outlined in the report.

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2.0 SITE SETTING

2.1 Location

The site is located circa 0.9 miles southwest of Prescott Town Centre, as shown on the Project Location Plan GRO-22463-P01 and is approximately centred on National Grid Reference 346080, 392010.



Access to the site is gained off Prescott Park Way, to the northeast of the site.

2.2 Site Description

The site is irregular in shape and circa 3.48 hectares in area. The topography is very uneven with the most elevated point in the centre of the site.

Site Features

The site is currently formed by a vacant piece of land and covered by overgrown vegetation and semi-mature to mature trees. It is evident that areas of the site are self-seeded from the denser mature vegetation around the perimeter and through the centre of the site. Japanese Knotweed is present on the site, stands have predominantly been identified on the eastern area, the ecological survey has confirmed location and coverage.

A mine shaft indicator for Shaft 008 (concrete pyramid marker) enclosed by a chain link fence is present in the southwestern corner of the site. The concrete slab and marker about the southern boundary of the site with a footpath on the opposite side of the fence to the south.

The site is well trodden, and footpaths are noted throughout, indicative of frequent dog walking and pedestrian use. Locally trees have been cut down and evidence of localised fires were noted.

Site Boundaries and Surrounding Land Uses

The north and west site boundaries are formed by dense vegetation, a noise bund is along the eastern boundary and a metal fence is to the south.

The site is surrounded by the following land uses/features:

- *North* - *Prescot Park Way*
- *East* - *Residential land use*
- *West* - *Prescot Brook*
- *South* - *M57 motorway*

Photographs are presented in *Appendix 2*.

3.0 SCOPE OF INVESTIGATION AND RATIONALE

3.1 Project Objectives

The aim of the fieldwork was to:

Determine the stratification beneath the site
Locate mine shafts 0105 and 016 along the eastern boundary of the site

3.2 Scope of Works

The following scope of works was completed between the 29th of January and the 6th of February 2024:

- 11 No. Trial Trenches (TT101 to TT111) were excavated to depths of between 3.9m and 5.0m using a 14-tonne tracked excavator.

The exploratory hole locations are presented on Groundtech Plan GRO-22463-P21 and GRO-22463-P22 and the exploratory hole logs are in Appendix 3.

The exploratory holes were positioned to establish the stratification beneath the site and target any areas of concern as summarised in the table below:

Location	Target Rationale
TT101 to TT106	Locate Shaft 016
TT107 to TT111	Locate Shaft 015

The exploratory holes were logged by a suitably experienced geo-environmental engineer in general accordance with the following current guidance:

- BS 5930 'Code of Practice for Site Investigations' 2020
- BS EN 14688-1:2002 'Geotechnical Investigation and Testing – Identification and classification of soil'

4.0 GROUND MODEL

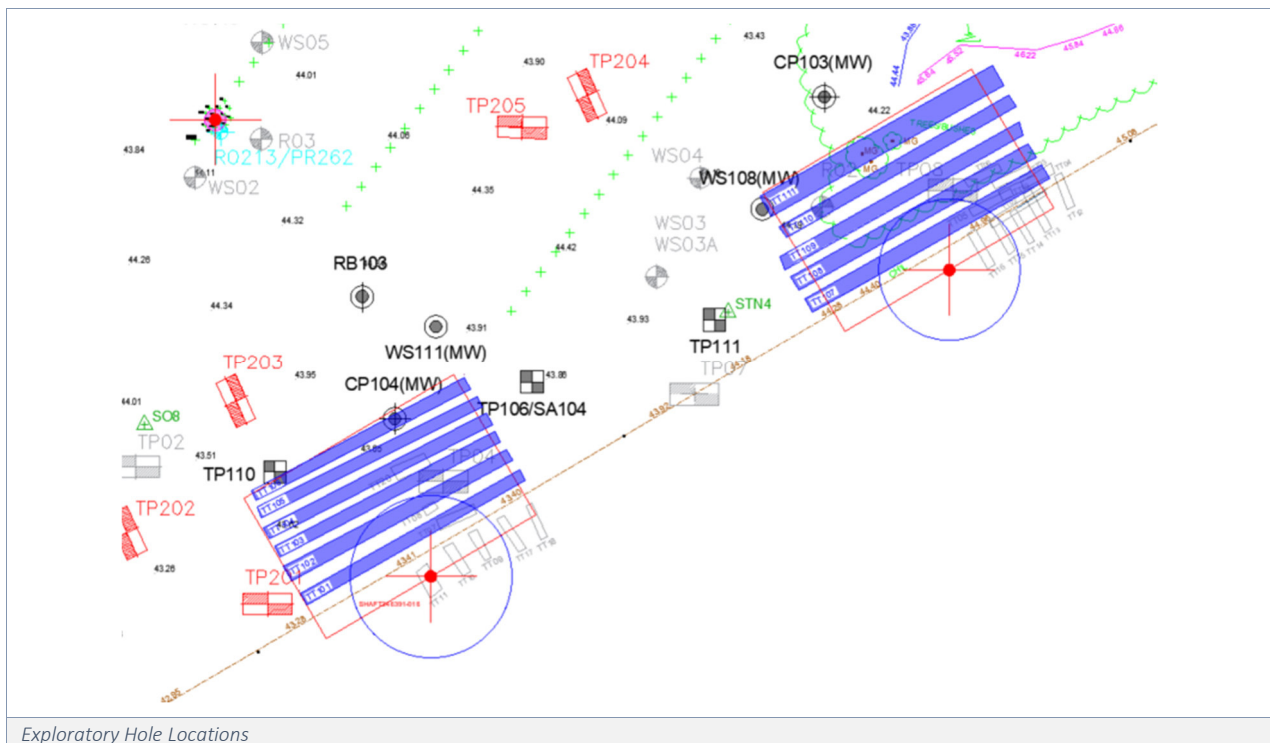
4.1 Made Ground

Made Ground was encountered at the site to a maximum depth of 2.9m bgl within TT111 but was generally encountered to a depth of 2.2m bgl.

Surfacing at the site within the areas of investigation primarily comprised a dark brown clayey gravelly sand, this material was encountered within all locations from ground level to a maximum depth of 1.9m bgl and is assumed to be turned over material from the vegetation clearance undertaken.

Two main Made Ground populations were encountered during the investigation and are described below:

1. *Soft to firm dark grey black sandy gravelly clay in all locations from 0.4m to a maximum depth of 2.2m bgl.*
 - *Within TT110 a moderate hydrocarbon odour was encountered between 0.6m and 1.6m bgl.*
 - *Within TT111 a strong hydrocarbon odour and free phase liquids were present between 0.6m and 1.5m bgl.*
2. *Orange, brown slightly clayey very sandy gravel in TT103 from 1.0m to a maximum depth of 1.5m bgl.*



4.2 Natural Ground

The natural strata encountered generally confirmed the published geological records. Two main natural stratification encountered during the investigation and are described below:

1. Firm orange, brown/grey slightly gravelly silty CLAY in all locations from 0.8m to a maximum depth of 4.2m bgl
2. Stiff brown gravelly silty CLAY in all locations from 3.4m to a maximum depth of 5.0m bgl
3. Brown gravelly fine to coarse SAND in TT101 from 4.0m to a maximum depth of 4.2m bgl

4.3 Bedrock

Bedrock was not encountered during this investigation.

4.4 Groundwater

Perched Groundwater within Made Ground was observed at the site and are described below:

Location	Depth (m)
TT102	1.55
	3.95
TT103	1.30
TT104	0.70
	1.10
	1.30
	1.45
TT106	1.20
	1.00
TT107	1.50
TT111	2.80

4.5 Watching Brief - Contamination

A watching brief was maintained during the Ground Investigation for visual and olfactory evidence of contamination.

Evidence of olfactory contamination was encountered within TT110 and TT111 in the form of a hydrocarbon odour between 0.6m and 1.6m bgl, free phase contamination was also encountered in TT111 in the Made Ground between 0.6m and 2.9m bgl.

4.6 Excavation Stability

Evidence of collapse was noted during excavation of all the trial trenches in the Made Ground at the site. Collapse was encountered from ground level to a maximum depth of 2.8m bgl.

4.7 Excavation Progress

Slow progress while excavating the trial pit was not experienced. From 3.4m bgl, excavation progress slowed due to the stiff clay deposits encountered.

5.0 MINE SHAFT INVESTIGATION

A series of Trial Trenches were conducted at the site, the areas of investigation covered twice the departure zone (9 to 10m) at both recorded mine shaft locations, the shaft references are SHAFT346391-015 and SHAFT346391-016 in the south eastern extent of the site.

The No Build Zones for these shafts were also determined to be 10m based on the depth to bedrock, the trial trenching investigation covered two 20m by 30m areas.

Shaft 015

Six Trial Trenches (TT101 to TT106) were excavated at Shaft 015 to determine the underlying stratification and identify any evidence relating to the recorded mine shaft in this area. These trenches were excavated to lengths of between 29.68m and 31.01m in length and were between 1.49m and 1.54m in width. The extent of the trenching is presented on Groundtech Plan *GRO-22463-P22*.

Made Ground was encountered to a maximum depth of 2.2m bgl within this area and was generally consistent in depth across the exclusion zone. Underlying the Made Ground was natural firm orange brown/light grey sandy gravelly CLAY to a maximum depth of 3.7m bgl. Finally stiff brown gravelly silty CLAY was encountered below to a maximum depth of 5.0m bgl.

No deep Made Ground was observed in the excavations and no evidence of the recorded mineshaft was noted this can be seen within the images located in *Appendix 2* and within Groundtech Plans *GRO-22463-P21* and *GRO-22463-P22*.

Shaft 016

Five Trial Trenches (TT107 to TT111) were excavated at Shaft 016 at the site to determine the underlying stratification and determine the presence of any evidence relating to the recorded mine shaft. These trenches were excavated to lengths of between 32.7m and 33.58m in length and were between 1.74m and 2.86m in width. The coverage of the trenching is presented on Groundtech Plan *GRO-22463-P21*.

Made Ground was encountered to a maximum depth of 2.8m bgl in this area and was generally present to a depth of 1.7m bgl. Underlying the Made Ground deposits natural firm orange brown/light grey sandy gravelly CLAY was encountered to a maximum depth of 4.2m bgl. Stiff brown gravelly silty CLAY was encountered below to a maximum depth of 5.0m bgl.

No evidence of the recorded mine shaft was noted in this area. Visual and olfactory evidence of contamination was encountered within TT110 and TT111 within the western proportion of these trenches and was encountered within deeper Made Ground, it is likely this material is former landfill material however is not associated with the recorded mineshaft in this area.

6.0 FINAL APPRAISAL

6.1 Mine Shaft Investigation Summary

From the investigation works undertaken at the recorded locations of Shafts 015 and 016, it is evident that they are not located on the site. A sufficient departure zone was investigated if the records are inaccurate.

It is proposed to construct residential dwellings in this area and so during construction a watching brief should be in place for evidence of the recorded mineshafts and if encountered Groundtech Consulting should be contacted.

The proposed dwellings are located outside the No Build Zone based on the depth to bedrock. In the event of the collapse of the shafts (if located off the site), proposed structures would not be affected.

6.2 Required Further Work

The following further work is considered necessary to discharge pre-commencement planning conditions.

Confirmation of recommendations made in this appraisal with the Coal Authority



7.0 RELEVANT INDUSTRY REFERENCES

British Standards Institution '*Code of Practice for Site Investigations*' BS 5930:2020

British Standards Institution "*Geotechnical investigation and testing – Identification and classification of soil*"
BS EN ISO 14688:2002.

CIRIA C758 '*Abandoned Mine Workings Manual*'



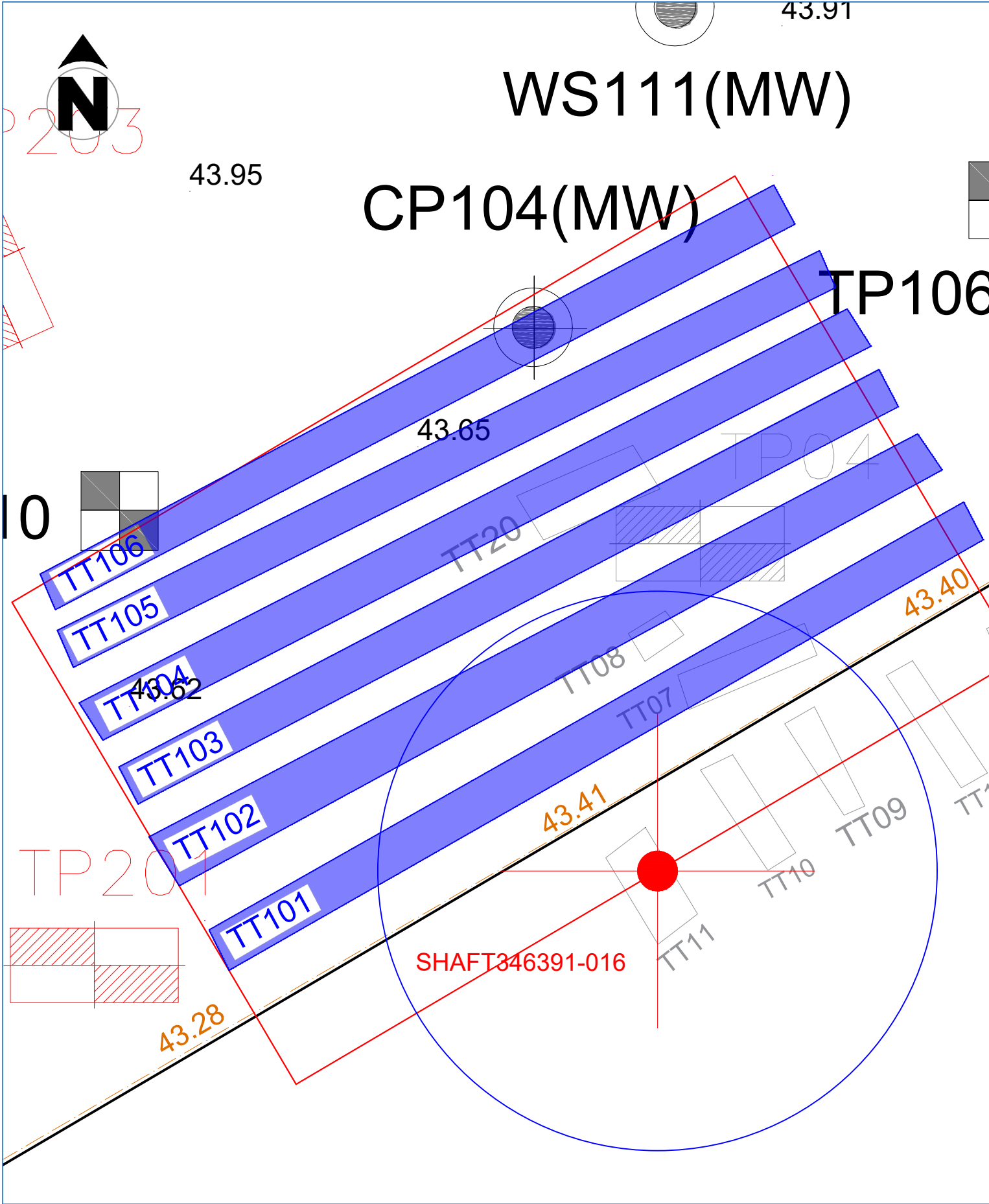
APPENDIX 1 - Plans



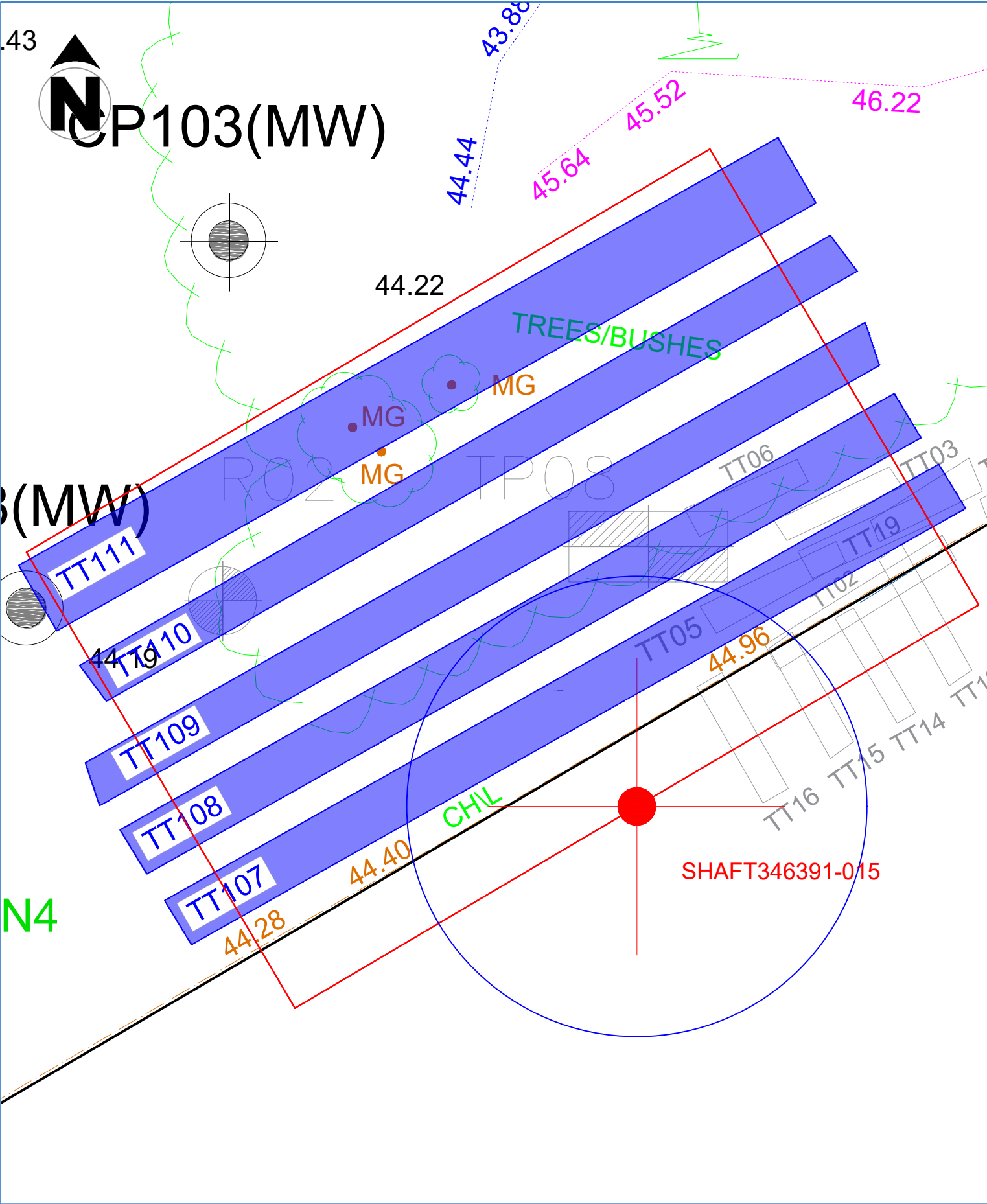
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	PARTNER CONSTRUCTION LTD	AUGUST 2023			Preliminary		
	PROJECT TITLE	SCALE			Draft		
	CARR LANE, PRESCOT	NTS			Issued		
	PLAN TITLE	PLAN NUMBER			For Comment		
	PROJECT LOCATION PLAN	GRO-22463-P01	Rev.	Details	Date	Approved	



GROUNDTECH CONSULTING	CLIENT	DATE				Status		Notes ZONE OF INFLUENCE - BASED ON BEDROCK AT 1V:1H ZONE OF INFLUENCE - BASED ON TREATMENT OF SHAFT (5.0m) MINE SHAFT LOCATIONS
	PARTNER CONSTRUCTION LIMITED	JANUARY 2024				Preliminary		
	PROJECT TITLE	SCALE				Draft		
	CARR LANE, PRESCOT	NTS	1.2	Change of layout - Rev K Layout	25 January 2024	Issued		
	PLAN TITLE	PLAN NUMBER	1.1	Change of layout - Rev J Layout	24 January 2024	For Comment		
	ZONE OF INFLUENCE PLAN	GRO-22463-P17	Rev.	Details	Date	Approved		



GROUNDTECH CONSULTING	CLIENT	DATE			Status		Notes TRIAL TRENCH LOCATION (SURVEYED) ZONE OF INFLUENCE - BASED ON BEDROCK AT 1V:1H
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GROUNDTECH CONSULTING	CLIENT	DATE			Status		Notes TRIAL TRENCH LOCATION (SURVEYED) ZONE OF INFLUENCE - BASED ON BEDROCK AT 1V:1H
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APPENDIX 2 - Site Photographs



Photograph 1 - TT101



Photograph 2 - TT102



Photograph 3 - TT103



Photograph 4 - TT104



Photograph 5 - TT105



Photograph 6 - TT106



Photograph 5 - TT107



Photograph 6 - TT108



Photograph 5 - TT109



Photograph 6 - TT110



Photograph 5 - TT111



Photograph 6 - Shaft-015



Photograph 6 - Shaft-016



APPENDIX 3 - Exploratory Hole Logs

Project Name:	CARR LANE
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Project No.
GRO-22463

Co-ords:	-
----------	---

Level:

Date _____

29/01/2024

Location: PRESCOTT

Dimensions
(m):

10.35

Depth
5.00

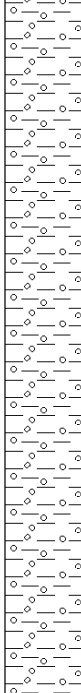
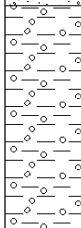
5

Scale

1:25

Logged
CJH

Client: PARTNER CONSTRUCTION LTD

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				1.30			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.	1
						1.50		
								2
							4.00	
			4.20			Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.		
			5.00			End of pit at 5.00 m		5

Remarks:	1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 5.0m bgl. 3. No Groundwater encountered. 4. Trial pit backfilled with arisings.
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Stability: unstable



Project Name: CARR LANE

Project No.
GRO-22463

Co-ords: -

Level:

Date _____

29/01/2024

Location: PRESCOT

Dimensions
(m):

10.35

Depth
5.00

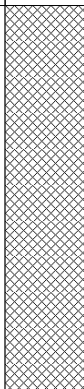
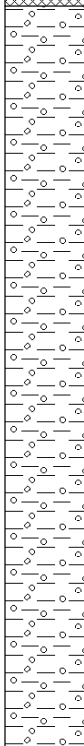
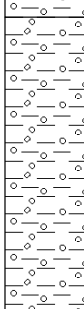
1.5

Scale

1:25

Logged
CJH

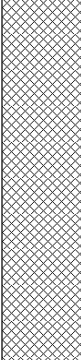
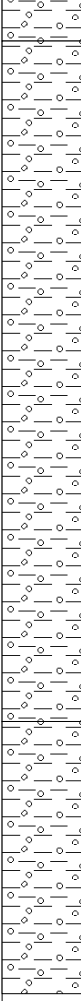
Client: PARTNER CONSTRUCTION LTD

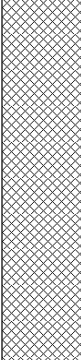
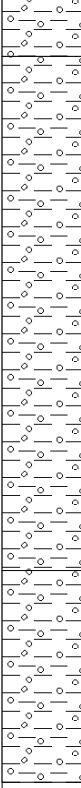
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				1.30			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.	1
							MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse.	
				1.50			Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.	2
				4.00			Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.	4
5.00			End of pit at 5.00 m	5				

Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 5.0m bgl. 3. No Groundwater encountered. 4. Trial pit backfilled with arisings.

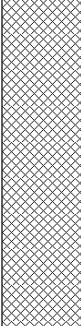
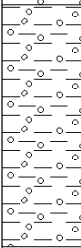
Stability: unstable



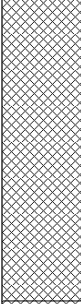
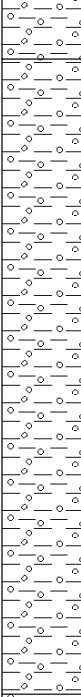
				Trial Pit Log			Trialpit No TT102A Sheet 1 of 1			
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 29/01/2024		
Location: PRESCOT				Dimensions (m):		10.3		Scale 1:25		
Client: PARTNER CONSTRUCTION LTD				Depth 5.00		1.55		Logged CJH		
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
				1.20			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.			1
				1.70			MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse.			
				1.85			Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.			2
							Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.			
				4.10			Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.			
5.00		End of pit at 5.00 m			5					
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 5.0m bgl. 3. Groundwater encountered at 1.55m bgl. 4. Trial pit backfilled with arisings.										
Stability: unstable										

				Trial Pit Log			Trialpit No TT102C Sheet 1 of 1		
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 29/01/2024	
Location: PRESCOT				Dimensions (m): Depth 4.00		10.3 1.55		Scale 1:25 Logged CJH	
Client: PARTNER CONSTRUCTION LTD									
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				1.20			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.		
				1.40			MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse.		
				1.60			Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.		
				3.30			Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.		
				4.00			Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.		
							End of pit at 4.00 m		
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 4.0m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings.									
Stability: unstable									



				Trial Pit Log			Trialpit No TT103A Sheet 1 of 1		
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 30/01/2024	
Location: PRESCOT				Dimensions (m): Depth 4.20		10.2 1.45		Scale 1:25 Logged CJH	
Client: PARTNER CONSTRUCTION LTD									
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				1.10			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.		
				1.20					
				1.50					
				1.70					
				2.00					
				3.40			Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.		
				4.20					
							End of pit at 4.20 m		
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 4.2m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings.									
Stability: unstable									



				Trial Pit Log			Trialpit No TT103B Sheet 1 of 1			
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 30/01/2024		
Location: PRESCOT				Dimensions (m): Depth 4.20		10.2 1.45		Scale 1:25 Logged CJH		
Client: PARTNER CONSTRUCTION LTD										
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
				1.00			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.			1
				1.30	MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse.					
				1.50		Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.			2	
				Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.						
				3.60		Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.				4
4.20	End of pit at 4.20 m			5						
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 4.2m bgl. 3. Groundwater encountered at 1.30m bgl. 4. Trial pit backfilled with arisings.										
Stability: unstable										



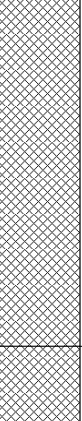
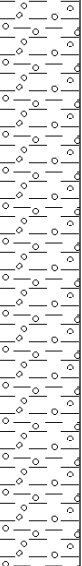
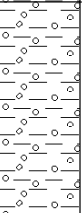


Trialpit No
TT103C
Sheet 1 of 1

Date
30/01/2024

Scale
1:25

Logged
CJH

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				1.15			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.
							MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse.
							Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.
							Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.
							Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.
				4.20		End of pit at 4.20 m	

Stability: unstable



Project Name: CARR LANE

Project No.
GRO-22463

Co-ords: -

Level:

Date _____

30/01/2024

Location: PRESCOT

Dimensions
(m):

10.25

Depth	4.10
-------	------

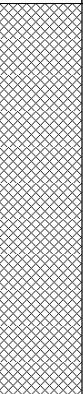
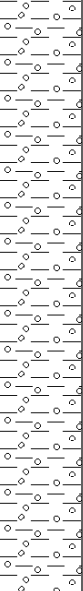
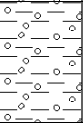
1.58

Scale

1:25

Logged
CJH

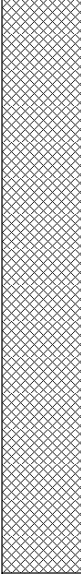
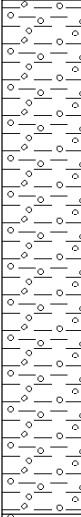
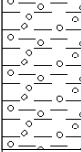
Client: PARTNER CONSTRUCTION LTD

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				1.30			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.
				1.50			MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse.
				1.70			Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.
							Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.
				3.70			Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.
				4.10			End of pit at 4.10 m

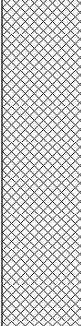
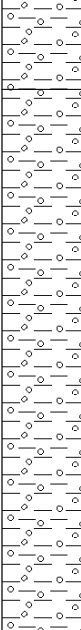
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 4.1m bgl. 3. Groundwater encountered at 1.45m bgl. 4. Trial pit backfilled with arisings.

Stability: unstable

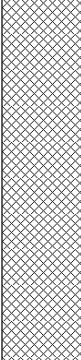
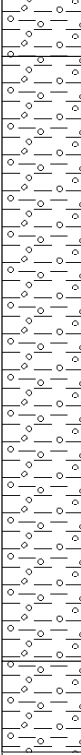


				Trial Pit Log			Trialpit No TT104B Sheet 1 of 1		
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 30/01/2024	
Location: PRESCOT				Dimensions (m): Depth 4.10		10.25 1.58		Scale 1:25 Logged CJH	
Client: PARTNER CONSTRUCTION LTD									
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				1.90			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.		
				3.60			Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.		
				4.10			Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.		
							End of pit at 4.10 m		
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 4.1m bgl. 3. Groundwater encountered at 0.7m and 1.1m bgl. 4. Trial pit backfilled with arisings.									
Stability: unstable									

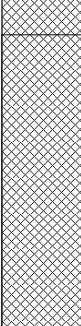


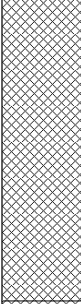
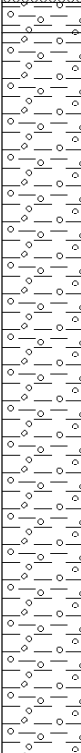
				Trial Pit Log			Trialpit No TT104C Sheet 1 of 1		
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 31/01/2024	
Location: PRESCOT				Dimensions (m): Depth 4.10		10.25 1.58		Scale 1:25 Logged CJH	
Client: PARTNER CONSTRUCTION LTD									
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				1.10			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.		1
				1.30			MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse. Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.		
				1.60			Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.		2
				3.40			Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.		
				4.10			End of pit at 4.10 m		4
5									
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 4.1m bgl. 3. Groundwater encountered at 1.30m bgl. 4. Trial pit backfilled with arisings.									
Stability: unstable									



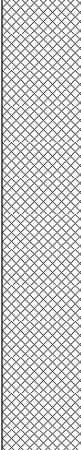
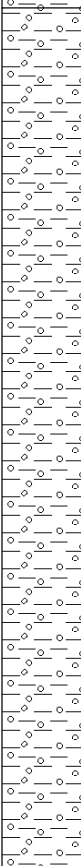
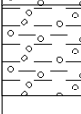
				Trial Pit Log			Trialpit No TT106A Sheet 1 of 1	
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 01/02/2024
Location: PRESCOT				Dimensions (m): Depth 3.90		10 1.59		Scale 1:25 Logged CJH
Client: PARTNER CONSTRUCTION LTD								
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				1.20			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.	
				1.40			MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse.	
				1.60			Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.	
							Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.	
				3.60			Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.	
			3.90			End of pit at 3.90 m		
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 3.9m bgl. 3. Groundwater encountered at 1.2m bgl. 4. Trial pit backfilled with arisings.								
Stability: unstable								

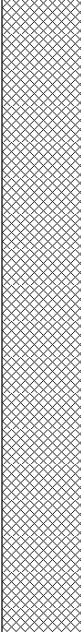
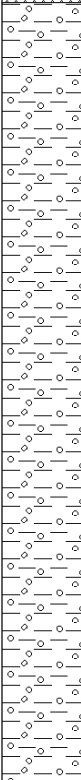


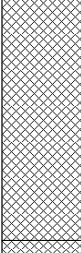
				Trial Pit Log			Trialpit No TT106B Sheet 1 of 1			
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 01/02/2024		
Location: PRESCOT				Dimensions (m):		10		Scale 1:25		
Client: PARTNER CONSTRUCTION LTD				Depth 3.90		1.59		Logged CJH		
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
				0.12			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.			1
				1.10			Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.			
				1.40			MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse. Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.			
				3.50			Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.			2
				3.90			End of pit at 3.90 m			
										4
										5
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 3.9m bgl. 3. Groundwater encountered at 1.0m bgl. 4. Trial pit backfilled with arisings.										
Stability: unstable										

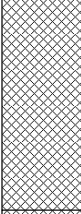
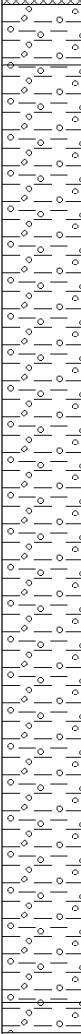
				Trial Pit Log			Trialpit No TT106C Sheet 1 of 1		
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 01/02/2024	
Location: PRESCOT				Dimensions (m): Depth 3.90		10 1.59		Scale 1:25 Logged CJH	
Client: PARTNER CONSTRUCTION LTD									
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				1.00			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.		
				1.20				MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse. Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse. Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.	
				1.30					
				3.70			Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.		
				3.90			End of pit at 3.90 m		
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 3.9m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings. Stability: unstable									

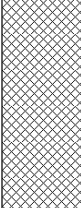


				Trial Pit Log			Trialpit No TT107A Sheet 1 of 1			
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 01/02/2024		
Location: PRESCOT				Dimensions (m): Depth 5.00		11.1 1.95		Scale 1:25 Logged CJH		
Client: PARTNER CONSTRUCTION LTD										
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
				1.50			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.			1
				1.70			MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse.			
				1.85			Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.			
							Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.			2
				4.70			Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.			4
				5.00			End of pit at 5.00 m			
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 5.0m bgl. 3. Groundwater encountered at 1.5m bgl. 4. Trial pit backfilled with arisings.										
Stability: unstable										

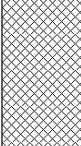
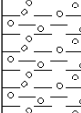
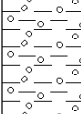
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Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 01/02/2024	
Location: PRESCOT				Dimensions (m): Depth 5.00		11.1 1.95		Scale 1:25 Logged CJH	
Client: PARTNER CONSTRUCTION LTD									
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				2.10			MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse.		
							Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.		
							Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.		
				5.00			End of pit at 5.00 m		
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 5.0m bgl. 3. Groundwater encountered at 1.5m bgl. 4. Trial pit backfilled with arisings.									
Stability: unstable									

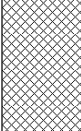
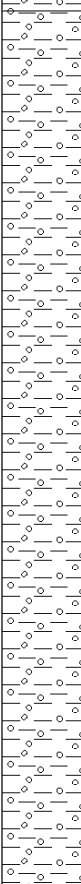
				Trial Pit Log			Trialpit No TT108A Sheet 1 of 1	
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 02/02/2024
Location: PRESCOT				Dimensions (m): Depth 4.20		11.1 2.3		Scale 1:25 Logged CJH
Client: PARTNER CONSTRUCTION LTD								
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.80 0.90 1.00			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.	
							MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse.	
							Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.	
							Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.	
				4.00 4.20			Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.	
							End of pit at 4.20 m	
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 4.2m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings.								
Stability: unstable								

				Trial Pit Log			Trialpit No TT108B Sheet 1 of 1	
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 02/02/2024
Location: PRESCOT				Dimensions (m): Depth 4.20		11.1 2.3		Scale 1:25 Logged CJH
Client: PARTNER CONSTRUCTION LTD								
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.70			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.	
				0.80			MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse.	
				1.00			Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.	
							Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.	
				4.10			Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.	
				4.20			End of pit at 4.20 m	
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 4.2m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings.								
Stability: unstable								

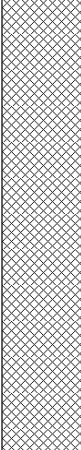
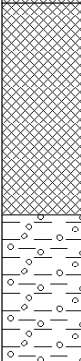
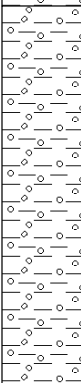
				Trial Pit Log			Trialpit No TT108C Sheet 1 of 1		
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 02/02/2024	
Location: PRESCOT				Dimensions (m): Depth 4.20		11.1 2.3		Scale 1:25 Logged CJH	
Client: PARTNER CONSTRUCTION LTD									
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				0.70			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.		
				0.90				MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse.	
				1.00					Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.
							Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.		
				4.00			Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.		
				4.20			End of pit at 4.20 m		
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 4.2m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings.									
Stability: unstable									



				Trial Pit Log			Trialpit No TT109A Sheet 1 of 1	
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 05/02/2024
Location: PRESCOT				Dimensions (m): Depth 4.50		11.2 1.7		Scale 1:25 Logged CJH
Client: PARTNER CONSTRUCTION LTD								
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.50			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.	
				0.80			MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse.	
				1.00			Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.	
							Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.	
								
				4.20			Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.	
				4.50			End of pit at 4.50 m	
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 4.5m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings.								
Stability: unstable								

				Trial Pit Log			Trialpit No TT109B Sheet 1 of 1	
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 05/02/2024
Location: PRESCOT				Dimensions (m): Depth 4.20		11.2 1.7		Scale 1:25 Logged CJH
Client: PARTNER CONSTRUCTION LTD								
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.45			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.	
				0.70			MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse.	
				1.00			Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.	
							Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.	
				3.90			Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.	
			4.20			End of pit at 4.20 m		
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 4.2m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings.								
Stability: unstable								

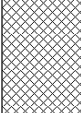
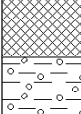
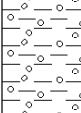


				Trial Pit Log			Trialpit No TT109C Sheet 1 of 1			
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 05/02/2024		
Location: PRESCOT				Dimensions (m): Depth 4.10		11.2 1.7		Scale 1:25 Logged CJH		
Client: PARTNER CONSTRUCTION LTD										
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
				1.50			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.			1
				2.20			MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse.			2
				2.70			Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.			3
				4.00 4.10			Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.			4
							Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone. End of pit at 4.10 m			5

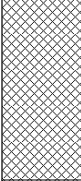
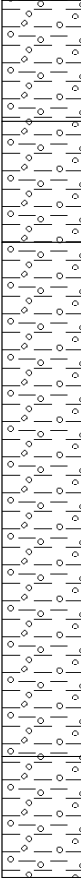
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 4.1m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings.

Stability: unstable

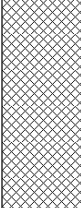
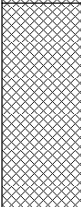
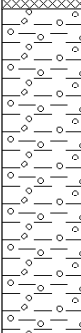
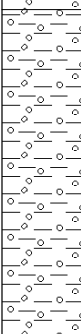
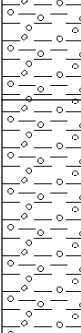


				Trial Pit Log			Trialpit No TT110B Sheet 1 of 1			
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 05/02/2024		
Location: PRESCOT				Dimensions (m): Depth 4.30		10.7 1.75		Scale 1:25 Logged CJH		
Client: PARTNER CONSTRUCTION LTD										
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
				0.40			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.			
				0.60				MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse.		
								Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.		
				1.10				Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.		
				3.90				Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.		
4.30		End of pit at 4.30 m								
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 4.3m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings.										
Stability: unstable										



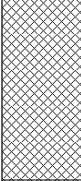
				Trial Pit Log			Trialpit No TT110C Sheet 1 of 1	
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 05/02/2024
Location: PRESCOT				Dimensions (m): Depth 4.50		10.7 1.75		Scale 1:25 Logged CJH
Client: PARTNER CONSTRUCTION LTD								
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
				0.60			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal. Faint hydrocarbon odour present.	
							MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse. Moderate hydrocarbon odour present.	
							Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.	
							Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.	
							Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.	
							Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.	
4.10								
4.50	End of pit at 4.50 m							
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 4.5m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings.								
Stability: unstable								



				Trial Pit Log				Trialpit No TT111A Sheet 1 of 1		
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 06/02/2024		
Location: PRESCOT				Dimensions (m):		10.9		Scale 1:25		
Client: PARTNER CONSTRUCTION LTD				Depth 4.70				Logged CJH		
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
				0.70			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.			1
				1.40			MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse.			
				2.50			Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.			2
				3.90			Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.			
				4.70			Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.			4
							End of pit at 4.70 m			5
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 4.7m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings.										
Stability: unstable										

				Trial Pit Log			Trialpit No TT111B Sheet 1 of 1		
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 06/02/2024	
Location: PRESCOT				Dimensions (m): Depth 4.60		10.9 2.8		Scale 1:25 Logged CJH	
Client: PARTNER CONSTRUCTION LTD									
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description		
	Depth	Type	Results						
				0.40	1.60	2.10	3.80	4.60	MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal.
									MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse.
									Firm light grey sandy slightly gravelly CLAY. Gravel is subrounded fine to coarse of chert. Sand is fine to coarse.
									Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.
									Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.
End of pit at 4.60 m									
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 4.6m bgl. 3. No groundwater encountered. 4. Trial pit backfilled with arisings.									
Stability: unstable									



				Trial Pit Log			Trialpit No TT111C Sheet 1 of 1			
Project Name: CARR LANE				Project No. GRO-22463		Co-ords: - Level:		Date 06/02/2024		
Location: PRESCOT				Dimensions (m): Depth 4.80		10.9 2.8		Scale 1:25 Logged CJH		
Client: PARTNER CONSTRUCTION LTD										
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description			
	Depth	Type	Results							
				0.60			MADE GROUND: Dark brown slightly clayey gravelly fine to coarse sand. Gravel is angular to subangular fine to coarse of mixed lithologies including concrete, plastic and metal. Faint hydrocarbon odour present.			1
							MADE GROUND: Firm dark grey black sandy gravelly clay. Gravel is subangular to subrounded fine to coarse of concrete and brick. Sand is fine to coarse. Strong hydrocarbon odour and free phase liquids present.			
							MADE GROUND: Firm black grey sandy slightly gravelly clay. Gravel is subrounded fine to coarse of plastic, metal and rubber. Sand is fine to coarse. Strong hydrocarbon odour and free phase liquids present.			2
							MADE GROUND: Firm black grey sandy slightly gravelly clay. Gravel is subrounded fine to coarse of plastic, metal and rubber. Sand is fine to coarse. Strong hydrocarbon odour and free phase liquids present.			
							Firm orange brown slightly gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.			
Stiff brown gravelly silty CLAY. Gravel is angular to subangular fine to coarse of mudstone.			4							
End of pit at 4.80 m				5						
Remarks: 1. Location cleared of services using hand held CAT scanner. 2. Trial pit excavated to 4.8m bgl. 3. Groundwater encountered at 2.8m bgl. 4. Trial pit backfilled with arisings.										
Stability: unstable										



APPENDIX 4 - Limitations

Limitations

This report (Report) forms part of the Services and if applicable Additional Services undertaken by Groundtech Consulting Ltd pursuant to a written contract (Agreement) which contains detailed provisions including express limitations of the liability of Groundtech Consulting Ltd.

This Report was prepared using reasonable skill and care as stated in the Agreement for the purpose including intended end use stated by the Client (Purpose) and the liability of Groundtech Consulting Ltd in respect of the form and content of this Report is no greater than its liability under the Agreement. All records, measurements notes, or any other data (Data) obtained by or for the benefit of the Consultant were obtained at a specific point in time and it may not be assumed by the Client or any person relying on this Report that the Data will remain unaffected by the passage of time, the seasons, weather conditions, changes in the water table or the carrying out and completion of works at the Site.

Unless otherwise agreed this Report has been prepared exclusively for the use and reliance of the Client and may not be relied upon, by any other party except as provided for in the Agreement. A third party who relies on this Report, does so at their own and sole risk and Groundtech Consulting Ltd has no liability to such parties.

Groundtech Consulting Ltd that this Report is to be used for the Purpose. The Purpose was instrumental in determining the scope and of the Services provided. If the Purpose should change, the Client may not be able to rely on the Report without the separate agreement of Groundtech Consulting Ltd.

Since the Report was written, later changes in legislation, statutory requirements and industry best practices have not been considered and this should be allowed for. Ground conditions can also change (see below) and should be investigated if there is any significant delay in acting on the findings of this Report. The period of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the Report inaccurate or unreliable. The information and conclusions in this Report should not be relied upon in the future without written confirmation from Groundtech Consulting Ltd that it is safe to do so.

The observations and conclusions outlined in this Report are based exclusively on the services that were provided as set out in the agreement between the client and Groundtech Consulting Ltd.

Groundtech Consulting Ltd is not liable for the existence of any condition, the discovery of which would require additional investigation outside the agreed scope of works or core competency. The Report is based upon Groundtech Consulting Ltd's observations of existing physical conditions at the Site gained from site reconnaissance together with interpretation of information including documentation, obtained from third parties and from the Client on the history and usage of the Site. The findings and recommendations contained in this Report are based in part upon information provided by third parties, and Groundtech Consulting Ltd have relied upon such information assuming it to be correct.

Groundtech Consulting Ltd accepts no responsibility for errors or inaccuracies in third party information presented in this Report. Groundtech Consulting Ltd was not authorised to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the Services or Additional Services. Groundtech Consulting Ltd is not liable for any inaccurate information, misrepresentation of data or conclusions, which may inform the scope of investigation undertaken by Groundtech Consulting Ltd and forms the contract with the client.



Where field investigations have been carried out these have been restricted to a level of detail required to achieve the stated objectives of the work. Ground conditions may also vary due to the ground's heterogeneous properties and because investigation exploratory locations only allow examination of the ground at discrete locations. The potential exists for ground conditions to be encountered which are different to those considered in this Report, particularly between exploratory holes. The extent of the limited area depends on the soil and groundwater conditions, together with other constraints such as the position of any existing structures and underground utilities. If so stipulated in the Agreement, geo-environmental testing was carried out for a limited number of parameters based on an understanding of the available operational and historical information, and it should not be inferred that other chemical species are not present.

Any groundwater conditions entered on the exploratory hole records are those observed at the time of investigation. The groundwater level often has not had time to reach equilibrium and a monitoring period is required. Furthermore, groundwater levels are subject to seasonal variation or changes in local drainage conditions and groundwater levels may occur at other times of the year which are higher than were recorded during this investigation.

Any site drawings provided in this Report are preliminary and used to present the general relative locations of features on, and surrounding, the Site.

