



INVESTIGATE



REMEDiate



REGENERATE



GROUND INVESTIGATION REPORT

**FOR
LAND AT
BILLBERRY CLOSE
AND ALBERT ROAD,
WHITEFIELD,
GREATER MANCHESTER**

**PREPARED FOR
THOMPSON CONTRACTS
(BLACKPOOL) LIMITED**

**REPORT NO. 8130B
JUNE 2025**

SUB SURFACE NORTH WEST LIMITED
3 Peel Street
Preston
Lancashire
PR2 2QS

Tel: (01772) 561135 Fax: (01772) 204907

Email: preston@subsurface.co.uk

Website: www.subsurface.co.uk



CONTENTS

1. INTRODUCTION	1.1 Site Location and Description
	1.2 Proposed Development and Purpose of the Ground Investigation
2. INVESTIGATION	2.1 Investigation Details
	2.2 Sub Surface Detail
3. SAMPLING AND TESTING	3.1 Sampling
	3.2 Installations and Monitoring
	3.3 Laboratory Testing
4. APPRAISAL AND RECOMMENDATIONS	4.1 Comments on the Profile
	4.2 Contamination Considerations
	4.3 Ground Gas Considerations
	4.4 General
APPENDICES	In-situ Test Results
	Contamination Analysis Results
	Mini Borehole Record Sheets
	Hand Dug Trial Pit Record Sheets
	Figures

**GROUND INVESTIGATION FOR LAND AT BILLBERRY CLOSE AND ALBERT ROAD,
WHITEFIELD, GREATER MANCHESTER, M45 8BL**

CLIENT: THOMPSON CONTRACTS (BLACKPOOL) LIMITED

ENGINEER: KEYSTONE DESIGN ASSOCIATES LIMITED

1. INTRODUCTION

This report has been prepared in accordance with an email, dated 12th May 2025 from the Client.

The brief was set out in our estimate, ref. E7785 dated 6th May 2025, with amendments as the investigation proceeded and includes:

- 3 No. mini percussive boreholes.
- 6 No. hand dug trial pits.
- Contamination analysis.
- Provision of an interpretative report on the above.

It should be noted that we have previously issued a Phase I Desk Study Report for this site, ref. 8130 and dated March 2025, and a Phase II Ground Investigation Report, ref. 8130A and dated March 2025, which should be read in conjunction with this additional Phase II Ground Investigation Report.

1.1 Site Location and Description

The site is located at the junction of Billberry Close and Albert Road, Whitefield, Greater Manchester, M45 8BL, as indicated in Figure 1. The approximate National Grid Reference of the centre of the site is 381696, 405920.

As shown in Figure 2, the site comprises an irregular shaped plot of land of 0.3ha. At the time of the walkover carried out for the Phase I Report (27th November 2024), the site comprised a predominantly grassed area with overgrown areas in the north, east and west and a bituminous macadam surfaced footpath running from northwest to southeast. The site is bound by 8-16 and 38 Regal Close to the north, 31-35 Brook Drive to the northeast, 17-19 Billberry Close to the southeast, Billberry Close to the south, and Albert Road to the west.

1.2 Proposed Development and Purpose of the Ground Investigation

We understand that it is proposed to erect seven residential bungalows (three pairs of semi-detached and one detached), with driveways, gardens and landscaped areas, as shown in Figure 3.

The purpose of the investigation was to conduct further contamination analysis and assessment in order to determine necessary precautions and/or remedial measures required for the proposed development.

Ground gas monitoring and assessment was also required to determine necessary precautions and/or remedial measures.

2. INVESTIGATION

2.1 Investigation Details

Three mini boreholes were put down to a depth of 5.45m using a Dart Mini Sampling Rig fitted with windowless sample tubes of 87mm, 77mm, 67mm and 57mm diameter at the positions determined and set out by Sub Surface North West Ltd, as shown on Figure 2. The samples were subsequently logged in accordance with BS.5930:2015+A1:2020 and the resulting Mini Borehole Records are appended.

Six hand dug trial pits were taken out at the positions determined and set out by Sub Surface North West Ltd, as shown on Figure 2. The hand dug trial pits were excavated to a depth of 1.20m. Samples were taken for logging, in accordance with BS.5930:2015+A1:2020, and testing. The resulting Hand Dug Trial Pit Records are appended. On completion the hand dug trial pits were backfilled with arisings.

2.2 Sub Surface Detail

Details of the strata encountered in the ground investigation are given on the appended Borehole Records. The exploratory holes found Made Ground and granular and cohesive drift deposits. The depths of strata found were as follows:

TABLE 1 STRATA

Exploratory Hole Number	Depth of Made Ground (m)	Depth of Cohesive Drift Deposits (m)	Depth of Granular Drift Deposits (m)	Depth of Hole (m)
M6	1.20	1.20 – 2.20 3.70 – >5.45	2.20 – 3.70	5.45
M7	1.20	1.20 – 2.40 4.40 – >5.45	2.40 – 4.40	5.45
M8	1.50	1.50 – 2.50 4.30 – >5.45	2.50 – 4.30	5.45
HD2	>1.20	-	-	1.20
HD3	>1.20	-	-	1.20
HD4	>1.20	-	-	1.20
HD5	>1.20	-	-	1.20
HD6	>1.20	-	-	1.20
HD7	>1.20	-	-	1.20

M = Mini Borehole, HD = Hand Dug Trial Pit

A general summary of the strata found is as follows:

2.2.1 Made Ground

The initial Made Ground was found to be friable dark brown slightly gravelly sandy silty clays with many rootlets, the gravel sized fragments comprising stone, to depths of 0.40m in M6, M7 and HD2, 0.20m in M8 and HD3, 0.50m in HD4 and HD5, 0.30m in HD6, and 0.60m in HD7.

Underlying the above were soft to firm, friable in places, dark brown, brown and grey mottled slightly gravelly slightly sandy silty clays with occasional rootlets, the gravel sized fragments comprising stone and brick, to depths of 1.20m in M6 and M7, and 1.50m in M8, and to the base of the hand dug trial pits at a depth of 1.20m.

2.2.2 Drift Deposits

The initial cohesive drift deposits were found to be a firm brown and occasional orangish brown and grey mottled slightly gravelly slightly sandy silty clay, the gravel comprising sandstone, siltstone and quartz, to depths of 1.80m, 1.70m, and 1.90m in M6, M7, and M8 respectively. This was underlain by a soft thinly laminated dark brown slightly sandy silty clay with silt on laminae to depths of 2.20m, 2.40m, and 2.50m respectively.

The above was underlain by granular drift deposits, which were found to be dark brown silty to very silty fine to coarse sands, with a band of clay at 3.25m to 3.45m in M6, to depths of 3.70m, 4.40m, and 4.30m respectively.

This was underlain by firm to stiff dark brown slightly gravelly slightly sandy silty clays with occasional bands of sand, the gravel comprising sandstone, siltstone and quartz, to the base of the boreholes at a depth of 5.45m.

2.2.3 Groundwater

Groundwater inflows were encountered at depths of 2.60m in M6, 2.50m in M7, and 3.00m in M8.

No groundwater was encountered in the remainder of the exploratory holes although it should be noted that they were only left open for a short period of time and groundwater levels and rates of inflow may be subject to seasonal and/ or climatic variations.

Monitoring of standpipes installed in M6, M7 and M8 between 28th May 2025 and 11th June 2025 found groundwater to be at 3.03m to 3.14m, 3.01m to 3.10m, and 2.91m to 2.96m respectively.

3. **SAMPLING AND TESTING**

3.1 **Sampling**

Continuous core, small disturbed and bulk disturbed samples were obtained for the strata encountered and were subjected to careful examination.

The samples will be retained for a period of one month after the issue of this report, for reference purposes, and then disposed of unless otherwise instructed.

3.2 Installations and Monitoring

On completion of the mini boreholes, HDPE standpipes were installed to a depth of 4.00m. The standpipes are slotted from 1.00m depth, have an internal diameter of 50mm and have removable quick release gas valves to enable both ground gas and groundwater monitoring and sampling to be undertaken. Details of the installations are given on the Mini Borehole Records.

Monitoring of the standpipes for ground gas and groundwater has been undertaken on three of six scheduled occasions to date using portable equipment. A Gas Data GFM 435 was used for monitoring methane, carbon dioxide, oxygen, gas flows and atmospheric pressure. The results of the monitoring is given on the appended Ground Gas and Groundwater Monitoring Results sheet.

3.3 Laboratory Testing

Contamination analyses have been performed on twelve soil samples to determine concentrations of lead. In addition, the soil samples were subjected to an asbestos screen. Where asbestos was detected by the screen, asbestos type and quantification was undertaken for three soil samples.

4. APPRAISAL AND RECOMMENDATIONS

4.1 Comments on the Profile

At the outset it should be appreciated that only a small proportion of the area to be developed has been investigated and consequently the recommendations made and opinions expressed in this report can only be applied to such conditions as were encountered in the exploratory holes.

The exploratory holes indicate a nature and degree of similarity to the extent that we consider them likely to be representative of the natural ground conditions. However, no guarantee can be given.

Due to the site having been previously developed, and the nature of Made Ground, localised variations in thickness and composition should be anticipated and hence interpolation or extrapolation from the exploratory holes to adjoining areas should only be undertaken with caution.

Details of the findings of the investigation are given on the appended Mini Borehole Records and Hand Dug Trial Pit Records and a summary of the ground conditions is given in Section 2.2.

4.2 Contamination Considerations

We have previously undertaken a contamination risk assessment as part of the Phase II Ground Investigation Report, ref. 8130A and dated March 2025. This additional sampling, analysis and assessment has been carried out due to low levels of asbestos fibres found to be present in the near surface Made Ground in M3 and M4 and an elevated level of lead in the near surface Made Ground in M3.

4.2.1 Assessment (Soil)

In order to provide an assessment of the presence of contamination in report 8130A, eight soil samples have been analysed for a suite of determinants by a UKAS and MCERTS accredited laboratory and the results are appended.

In this report, 8130B, twelve soil samples have been analysed for lead and asbestos.

The concentrations of the determinants have been compared against published generic assessment criteria (GACs). The Department for Environment, Food and Rural Affairs (DEFRA) and the Environment Agency published soil guideline values (SGVs) for mercury, selenium, benzene, toluene, ethylbenzene and xylene on 31st March 2009, arsenic and nickel on 12th May 2009 and cadmium and phenols in June 2009. Contaminated Land: Applications in Real Environments (CL:AIRE) guideline values were also published in December 2009 to supplement the above. DEFRA published in March 2014 Category 4 Screening Levels (C4SLs) for arsenic, cadmium, lead, hexavalent chromium, benzo(a)pyrene and benzene. In November 2014 Suitable for Use Levels (S4ULs) were then published by LQM/ CIEH and updated S4ULs values for cadmium and phenols were published in July 2015 and for nickel in August 2015.

The assessment criteria (SGVs, S4ULs, CL:AIRE and C4SLs) vary dependent upon the land use; allotment and residential use being the most sensitive and commercial/ industrial use being the least sensitive.

For the purposes of assessment, as the proposed development is residential properties with gardens, contamination analyses have been compared with the guideline values for residential with plant uptake (with homegrown produce).

When compared with published guideline values for a standard land use of residential with plant uptake (with homegrown produce) the contamination analysis determined elevated levels of lead with varying distribution, as tabulated below:

TABLE 2 ASSESSMENT OF SOIL CONTAMINATION

Determinant	Expl. Hole No.	Depth (m)	Recorded Level (mg/kg)	Published Guideline Value (mg/kg)
Lead	M3	0.00 – 0.20	210	200

GACs used for the assessment can be supplied directly to the Regulator, if requested.

An asbestos screen was undertaken on the soil samples and asbestos was detected as tabulated below:

TABLE 3 ASBESTOS CONTAMINATION

Exploratory Hole Number	Depth (m)	Asbestos Type	Recorded Level (% of soil mass)
M3	0.00 – 0.20	White (chrysotile)	< 0.001
M4	0.20 – 1.20	White (chrysotile)	0.004
HD2	0.40 – 0.80	Brown (amosite)	< 0.001
HD3	0.50 – 1.20	Brown (amosite)	< 0.001
HD6	0.00 – 0.30	Brown (amosite)	< 0.001

In addition to the above, an assessment of risk to personnel who will come into contact with on-site materials throughout the site has been undertaken.

4.2.2 Conclusions and Recommendations

Section 78a(2) of the Environmental Protection Act: 1990 as amended by the Contaminated Land (England) (Amendment) regulations 2012, and Section 86 of the Water Act 2003, defines CONTAMINATED LAND for the purposes of Part IIA as:

“any land which appears to the LOCAL AUTHORITY in whose area it is situated to be in such a condition, by reason of substances in, on or under the land, that:

- (a) SIGNIFICANT HARM is being caused or there is a SIGNIFICANT POSSIBILITY of such harm being caused; or
- (b) SIGNIFICANT POLLUTION OF CONTROLLED WATERS is being, or is likely to be, caused”

Before a LOCAL AUTHORITY can make the judgement that land appears to be CONTAMINATED LAND on the basis that SIGNIFICANT HARM is being caused, or that there is a SIGNIFICANT POSSIBILITY of such harm being caused, the LOCAL AUTHORITY must identify a SIGNIFICANT POLLUTANT LINKAGE. This means that each of the following has to be identified:

- (a) a CONTAMINANT;
- (b) a relevant RECEPTOR (defined as living organisms, ecological systems, controlled waters or property); and
- (c) a PATHWAY by means of which either:
 - (i) the CONTAMINANT is causing SIGNIFICANT HARM to that RECEPTOR, or
 - (ii) there is a SIGNIFICANT POSSIBILITY of such harm being caused by that CONTAMINANT to that RECEPTOR

It should be noted that the words in capitals have a legal definition within the legislation.

Without a clear identification of all three elements of the pollutant linkage, land cannot be identified as contaminated under the regime.

The National Planning Policy Framework states that, “after remediation, as a minimum, land should not be capable of being determined as contaminated land under Part IIA of the Environmental Protection Act 1990”. Therefore, the general principles detailed above apply to this assessment.

Our assessment, based on twelve soil samples in this investigation and eight soil samples in the previous investigation, indicates a single elevated level of lead is present in the near surface Made Ground in M3. This level is only marginally above the GAC and the mean concentration of lead across the eight samples is 89mg/kg, well below the GAC of 200mg/kg.

Our assessment, based on twelve soil samples in this investigation and eight soil samples in the previous investigation, indicates that low levels of asbestos fibres are present in the near surface Made Ground in M3, M4, HD2, HD3 and HD6. The pathway from the source to site operatives during earthworks, the end users of the development and any proposed planting (receptors) will need to be removed by precautions and/ or remedial measures.

Where the contaminated materials are covered by buildings or a hard surface cover of concrete or bituminous macadam no clean cover will be required. However, in gardens and other open space areas the end users should be protected from the contaminated materials and plants should be provided with a medium in which they can safely grow.

We recommend a 600mm blanket of clean topsoil/ subsoil (equivalent to two spade depths) is provided in all back gardens as fruit and vegetables may be grown and a 450mm blanket of imported clean topsoil/ subsoil is provided in all front and side gardens and other open spaces. In addition, deeper rooted bushes and trees should be pit planted on and in clean topsoil. A geotextile membrane should also be placed at the base of the cover system to prevent any upward migration of asbestos fibres.

During any groundworks, careful observations should be maintained and if any significant pieces of asbestos are found work should be stopped and the advice of a specialist asbestos removal company sought.

Contaminated materials should, where possible, be retained on site. However, it should be appreciated that contaminated material left on site is the legal responsibility of the landowner, unless the person who created the contamination can be identified.

If waste materials are to be removed from the site, classification of the waste should be undertaken to determine the most appropriate tip to use and the associated costs. It should be noted that significant cost savings can sometimes be made on waste disposal by correct classification of the waste, a service that we can provide.

S4ULs, C4SLs and CL:AIRE assume long term contact with contamination and assess chronic health risk. The risk of short term acute exposure to site personnel is dealt with in the remit of the Health and Safety Executive under the Health and Safety at Work Act: 1974 and Regulations made under the Act, including the Control of Substances Hazardous to Health (COSHH) Regulations. The levels of contamination and risk to site personnel should be considered under the Construction Design and Management (CDM) Regulations at the planning stage and in the development of the designers and contractors Health and Safety Plans and Method Statements. The risk of contact with on-site soils should be minimised and the following precautions should be taken as a minimum requirement.

Site personnel involved in earthworks and excavations should wear gloves, overalls and boots, and smoking should be prohibited. Asbestos grade dust masks should be provided, as a precaution.

4.3 Ground Gas Considerations

Ground gas monitoring has been undertaken on three of six scheduled occasions to date and the results of the monitoring visits are appended.

The ground gases methane, carbon dioxide and oxygen, and flow rate have been monitored and the ranges of ground gases and flow rate during the monitoring period are as follows:

TABLE 4 GROUND GAS CONCENTRATIONS AND FLOW RATE

Methane (% vol. In air)	Carbon Dioxide (% vol. in air)	Oxygen (% vol. in air)	Gas Flow Rate (litres/ hour)
0.0 – 1.7	0.2 – 7.1	3.9 – 20.7	< 0.1

To date, it can be seen from the monitoring that elevated levels of methane and carbon dioxide and depleted levels of associated oxygen have been detected. However, no gas flows have been detected.

Methane gas when present between 5% volume in air (Lower Explosive Limit - L.E.L.) and 15% volume in air (Upper Explosive Limit - U.E.L.) is potentially explosive and inflammable whilst carbon dioxide in conjunction with depleted oxygen is an asphyxiant. Both methane and carbon dioxide are a by-product of the anaerobic and aerobic decomposition of biodegradable materials.

The levels of gas have been assessed in accordance with British Standard 8485, "Code of practice for the design of protective measures for methane and carbon dioxide gasses for new buildings", published in June 2015 and updated in January 2019 (BS.8485:2015+A1:2019).

The characteristic hazardous gas flow rate (Q_{hg}) is calculated by dividing the maximum gas (methane or carbon dioxide) concentration by 100 and multiplying by the maximum flow rate in litres per hour (minimum 0.1 l/hr for Sub Surface monitoring equipment). For this site $Q_{hg} = [7.1/ 100] \times 0.1 = 0.0071$ l/hr.

Based on the monitoring to date, BS.8485:2015+A1:2019, Table 2, indicates that the site falls into Characteristic Situation 1 (CS1).

However, as on this site methane levels have been detected that are >1% and carbon dioxide levels have been detected that are >5%, the CS1 is likely to be increased by one to CS2 on completion of the gas monitoring.

BS.8485:2015+A1:2019, Table 4, indicates that for a CS2 and the type of development proposed a score of 3.5 gives the level of protection and remedial measures required.

BS.8485:2015+A1:2019 Tables 5, 6 and 7 indicate that a combination of the following protection and remedial measures should be considered to achieve the required score:

Table 5.1	precast suspended segmental sub-floor slab (block and beam). (Score 0.0)
Table 5.3	reinforced cast in-situ suspended floor slab with minimal penetrations. (Score 1.0)
Table 5.4	additionally reinforced cast in-situ suspended floor slab with minimal penetrations – slab of minimum 150mm thickness with reinforcement at the bottom and the top (Score 1.5)
.....	
Table 6.1	pressure relief pathway (low fines gravel blanket/ thin geocomposite blanket/ strips terminating in gravel trench external to the building) (Score 0.5)
Table 6.2	passive sub floor ventilation/ dispersal layer (clear void/ polystyrene void former/ geocomposite void former/ no fines gravel layer with gas drains/ no fines gravel layer) of very good performance. (Score 2.5)
Table 6.3	passive sub floor ventilation/ dispersal layer (clear void/ polystyrene void former/ geocomposite void former/ no fines gravel layer with gas drains/ no fines gravel layer) of good performance. (Score 1.5)
.....	

Table 7	gas resistant membrane meeting the following criteria: • sufficiently impervious to gases with a methane gas transmission rate of <40.0 ml/day/m²/atm (average) for sheets and joints (tested in accordance with BS.ISO.15105-1 manometric method). • sufficiently durable to remain serviceable for the anticipated life of the building and duration of gas emissions. • sufficiently strong to withstand in-service stresses due to say settlement if placed below a floor slab. • sufficiently strong to withstand the installation process and following trades (penetration from steel fibres in fibre reinforced concrete/ penetration from reinforcement ties/ tearing due to working above it or dropped tools) until covered. • after installation being capable of providing a complete barrier to the entry of the relevant gas. • verified in accordance with CIRIA C735 [N1]. (Score 2.0)
---------	--

.....

In road, hardstanding and car park areas over-site concrete and/or bituminous macadam surfaces will prevent ground gas escaping naturally to the atmosphere. It would be advisable to provide vent pipes through which ground gases are able to escape. These vent pipes might be placed in adjoining landscaped areas or incorporated in lamp posts or other similar furniture.

All excavations of greater than 1.20m depth should be routinely checked for air quality prior to man entry and appropriate precautions taken.

Any manholes, inspection chambers or other void spaces formed beneath the sites ground surface are potential ground gas traps. Precautions, as per the excavations above, should be taken.

It should be noted that it is our intention to update this section of the report on completion of the ground gas monitoring.

4.4 General

It should be noted that when developing a “brownfield site” a phased investigation should be undertaken in order that each phase informs the next. A typical phased investigation comprises the following:

- Phase I: desk study report
- Phase II: ground investigation with report
- Phase III: remediation statement report
- Phase IV: validation with report.

In the preparation of this report no consideration has been given to flora and fauna as this was outside our brief.

We recommend that consultation should be undertaken with, and the written approval obtained from, the Local Authority Environmental Health Officer and the Local Authority Building Control Officer prior to commencing development.

We trust that this report fulfils your present requirements but if you have any queries or we can be of further assistance please contact the undersigned or Mr Ben Osborne at our Preston office.

SUB SURFACE CONSULTANTS LIMITED
REPORT No. 8130B
JUNE 2025

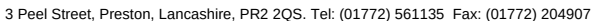


M. S. Banwell B.Sc.(Hons.)
Geotechnical Engineer
For and on behalf of
Sub Surface Consultants Limited



C. A. Marsden B.Sc.(Hons.), C.Eng., M.I.C.E.
Director
For and on behalf of
Sub Surface Consultants Limited.

INSITU TEST RESULTS



Sheet: 1 / 1

Site:	LAND AT BILLBERRY CLOSE & ALBERT ROAD, WHITEFIELD, GREATER MANCHESTER
Client:	THOMPSON CONTRACTS (BLACKPOOL) LIMITED
Engineer:	KEYSTONE DESIGN ASSOCIATES LIMITED

GROUND GAS AND GROUNDWATER MONITORING RESULTS SHEET

Remarks: Elevated levels of methane and carbon dioxide and depleted levels of oxygen are shown in ***bold/italics***.

CONTAMINATION ANALYSIS RESULTS

Certificate of Analysis

Certificate Number 25-12350

Issued: 12-Jun-25

Client Sub Surface Laboratories Ltd
3 Peel Street
Preston
Lancashire
PR2 2QS

Our Reference 25-12350

Client Reference ~ 8130B

Order No ~ (not supplied)

Contract Title ~ LAND AT ALBERT ROCK, WHITEFIELDS, MANCHESTER

Description 12 Soil samples.

Date Received 03-Jun-25

Date Started 03-Jun-25

Date Completed 12-Jun-25

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

A handwritten signature in black ink, appearing to read "Adam Geddes".

Adam Geddes
Laboratory Manager



Summary of Chemical Analysis

Soil Samples

Our Ref 25-12350

Client Ref ~ 8130B

Contract Title ~ LAND AT ALBERT ROCK, WHITEFIELDS, MANCHESTER

Lab No	2517587	2517588	2517589	2517590	2517591	2517592	2517593	2517594	2517595	2517596	2517597	2517598
Sample ID ~	HD2	HD2	HD3	HD3	HD4	HD4	HD5	HD5	HD6	HD6	HD7	HD7
Depth ~	0.00-0.40	0.40-0.80	0.00-0.20	0.50-1.20	0.00-0.50	0.50-1.20	0.00-0.50	0.50-1.20	0.00-0.30	0.30-0.70	0.00-0.60	0.60-1.20
Other ID ~	133	132	135	134	136	137	139	13	144	143	141	140
Sample Type ~	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampling Date ~	20/05/2025	20/05/2025	20/05/2025	20/05/2025	20/05/2025	20/05/2025	20/05/2025	20/05/2025	20/05/2025	20/05/2025	20/05/2025	20/05/2025
Sampling Time ~	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s	n/s

Test	Method	LOD	Units												
Metals															
Lead	DETSC 2301#	0.3	mg/kg	110	97	90	22	150	140	75	75	96	73	77	86

Summary of Asbestos Analysis Soil Samples

Our Ref 25-12350

Client Ref ~ 8130B

Contract Title ~ LAND AT ALBERT ROCK, WHITEFIELDS, MANCHESTER

Lab No	Sample ID	Material Type	Result	Comment*	Analyst
2517587	HD2 133 0.00-0.40	SOIL	NAD	none	Lucy Lindsley
2517588	HD2 132 0.40-0.80	SOIL	Amosite	bundle of amosite	Lucy Lindsley
2517589	HD3 135 0.00-0.20	SOIL	NAD	none	Lucy Lindsley
2517590	HD3 134 0.50-1.20	SOIL	Amosite	bundle of amosite	Lucy Lindsley
2517591	HD4 136 0.00-0.50	SOIL	NAD	none	Lucy Lindsley
2517592	HD4 137 0.50-1.20	SOIL	NAD	none	Lucy Lindsley
2517593	HD5 139 0.00-0.50	SOIL	NAD	none	Lucy Lindsley
2517594	HD5 13 0.50-1.20	SOIL	NAD	none	Lucy Lindsley
2517595	HD6 144 0.00-0.30	SOIL	Amosite	bundle of amosite	Lucy Lindsley
2517596	HD6 143 0.30-0.70	SOIL	NAD	none	Lucy Lindsley
2517597	HD7 141 0.00-0.60	SOIL	NAD	none	Lucy Lindsley
2517598	HD7 140 0.60-1.20	SOIL	NAD	none	Lucy Lindsley

Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.

Information in Support of the Analytical Results

Our Ref
Client Ref ~
Contract ~

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date		Containers Received	Holding time exceeded for tests	Incorrect container for tests	Headspace in container for tests
		Sampled ~					

Key:

~ Sample details are provided by the client and can affect the validity of the results

* -not accredited.

-MCERTS (accreditation only applies if report carries the MCERTS logo).

\$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

End of Report Ver 25.03.06

Certificate of Analysis

Certificate Number 25-13217

Issued: 17-Jun-25

Client Sub Surface Laboratories Ltd
3 Peel Street
Preston
Lancashire
PR2 2QS

Our Reference 25-13217

Client Reference ~ 8130B

Order No ~ (not supplied)

Contract Title ~ LAND AT ALBERT ROCK, WHITEFIELDS, MANCHESTER

Description 3 Soil samples.

Date Received 03-Jun-25

Date Started 12-Jun-25

Date Completed 17-Jun-25

Test Procedures Identified by prefix DETSn (details on request).

Notes Opinions and interpretations are outside the laboratory's scope of ISO 17025 accreditation. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved By

A handwritten signature in black ink, appearing to read "Adam Geddes".

Adam Geddes
Laboratory Manager



Summary of Asbestos Analysis Samples

Our Ref 25-13217

Client Ref ~ 8130B

Contract Title ~ LAND AT ALBERT ROCK, WHITEFIELDS, MANCHESTER

Lab No	Sample ID	Sample Location	Material Type	Result	Comment*	Analyst
Crocidolite = Blue Asbestos, Amosite = Brown Asbestos, Chrysotile = White Asbestos. Anthophyllite, Actinolite and Tremolite are other forms of Asbestos. Samples are analysed by DETSC 1101 using polarised light microscopy in accordance with HSG248 and documented in-house methods. NAD = No Asbestos Detected. Where a sample is NAD, the result is based on analysis of at least 2 sub-samples and should be taken to mean 'no asbestos detected in sample'. Key: * -not included in laboratory scope of accreditation.						

Summary of Asbestos Quantification Analysis Soil Samples

Our Ref 25-13217

Client Ref ~ 8130B

Contract Title ~ LAND AT ALBERT ROCK, WHITEFIELDS, MANCHESTER

Lab No	2522416	2522417	2522418
Sample ID ~	HD2	HD3	HD6
Depth ~	0.40-0.80	0.50-1.20	0.00-0.30
Other ID ~	132	134	144
Sample Type ~			
Sampling Date ~	20/05/2025	20/05/2025	20/05/2025
Sampling Time ~			

Test	Method	LOQ	Units			
Total Mass% Asbestos (a+b+c)	DETSC 1102	< 0.001	Mass %	< 0.001	< 0.001	< 0.001
Gravimetric Quantification (a)	DETSC 1102	< 0.001	Mass %	na	na	na
Detailed Gravimetric Quantification (b)	DETSC 1102	< 0.001	Mass %	<0.001	<0.001	<0.001
Quantification by PCOM (c)	DETSC 1102	< 0.001	Mass %	na	na	na
Potentially Respirable Fibres (d)	DETSC 1102	< 0.001	Fibres/g	na	na	na
Breakdown of Gravimetric Analysis (a)						
Mass of Sample			g	891.54	711.52	638.91
ACMs present*			type			
Mass of ACM in sample			g			
% ACM by mass			%			
% asbestos in ACM			%			
% asbestos in sample			%			
Breakdown of Detailed Gravimetric Analysis (b)						
% Amphibole bundles in sample			Mass %	<0.001	<0.001	<0.001
% Chrysotile bundles in sample			Mass %	na	na	na
Breakdown of PCOM Analysis (c)						
% Amphibole fibres in sample			Mass %	na	na	na
% Chrysotile fibres in sample			Mass %	na	na	na
Breakdown of Potentially Respirable Fibre Analysis (d)						
Amphibole fibres			Fibres/g	na	na	na
Chrysotile fibres			Fibres/g	na	na	na

* Denotes test or material description outside of UKAS accreditation.
 % asbestos in Asbestos Containing Materials (ACMs) is determined by
 by reference to HSG 264.
 Recommended sample size for quantification is approximately 1kg
 # denotes deviating sample
 The results are based on dry weight.

Information in Support of the Analytical Results

Our Ref 25-13217

Client Ref ~ 8130B

Contract ~ LAND AT ALBERT ROCK, WHITEFIELDS, MANCHESTER

Containers Received & Deviating Samples

Lab No	Sample ID ~	Date Sampled ~	Containers Received	Holding time exceeded for tests	Incorrect container for tests
2522416	HD2 0.40-0.80 SOIL	20/05/25	PT 1L		
2522417	HD3 0.50-1.20 SOIL	20/05/25	PT 1L		
2522418	HD6 0.00-0.30 SOIL	20/05/25	PT 1L		

Key: P-Plastic T-Tub

Normec DETS cannot be held responsible for the integrity of samples received whereby the laboratory did not undertake the sampling. In this instance samples received may be deviating. Deviating Sample criteria are based on British and International standards and laboratory trials in conjunction with the UKAS note 'Guidance on Deviating Samples'. All samples received are listed above. However, those samples that have additional comments in relation to hold time, inappropriate containers etc are deviating due to the reasons stated. This means that the analysis is accredited where applicable, but results may be compromised due to sample deviations. If no sampled date (soils) or date+time (waters) has been supplied then samples are deviating. However, if you are able to supply a sampled date (and time for waters) this will prevent samples being reported as deviating where specific hold times are not exceeded and where the container supplied is suitable.

Disposal

From the issue date of this test certificate, samples will be held for the following times prior to disposal :-
Soils - 1 month, Liquids - 2 weeks, Asbestos (test portion) - 6 months

Key:

~ Sample details are provided by the client and can affect the validity of the results

* -not accredited.

-MCERTS (accreditation only applies if report carries the MCERTS logo).

\$ -subcontracted.

n/s -not supplied.

I/S -insufficient sample.

U/S -unsuitable sample.

t/f -to follow.

nd -not detected.

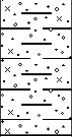
End of Report Ver 25.03.06

MINI BOREHOLE RECORD SHEETS

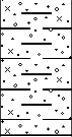
SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907							Site LAND AT BILLBERRY CLOSE AND ALBERT ROAD, WHITEFIELD, GREATER MANCHESTER		Borehole Number M6		
Boring Method MINI PERCUSSIVE		Casing Diameter 115mm cased to 3.00m			Ground Level (mOD)		Client THOMPSON CONTRACTS (BLACKPOOL) LIMITED			Job Number 8130B	
		Location AS PLAN			Dates 20/05/2025		Engineer KEYSTONE DESIGN ASSOCIATES LIMITED			Sheet 1/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr	
0.00-0.40	B					(0.40)	MADE GROUND: friable dark brown slightly gravelly sandy silty clay with many rootlets. Gravel sized fragments are fine to coarse stone. (Topsoil.)				
0.40-1.20	B					0.40 (0.80)	MADE GROUND: firm, friable in places, brown slightly gravelly slightly sandy silty clay. Gravel sized fragments are fine to coarse stone and brick.				
1.20-1.65 1.20-2.00	D C			1.20m to 2.00m - 100% Recovery		1.20 (0.60)	Firm brown and occasional orangish brown and grey mottled slightly gravelly slightly sandy silty CLAY. Gravel is subangular to subrounded fine to medium sandstone, siltstone and quartz.				
2.00-2.45 2.00-3.00	D C			2.00m to 3.00m - 80% Recovery		1.80 (0.40) 2.20	Soft thinly laminated dark brown slightly sandy silty CLAY with silt on laminae.				
3.00-3.45 3.00-4.00	D C			Water inflow(1) at 2.60m. 3.00m to 4.00m - 75% Recovery		(1.50) 3.70	Dark brown very silty fine to medium SAND with some bands of clay. ...at 3.25m to 3.45m : band of firm clay.		Σ1		
4.00-4.45 4.00-5.00	D C			4.00m to 5.00m - 75% Recovery		(1.75)	Firm becoming stiff dark brown slightly gravelly slightly sandy silty CLAY with occasional bands of sand. Gravel is subangular to subrounded fine to medium sandstone, siltstone and quartz.				
Remarks Hand dug inspection pit from GL to 1.20m to check for services - 1 hour. Core diameter: 87mm to 3.00m, 77mm to 4.00m, 57mm to 5.00m. On completion backfilled with arisings and installed a 50mm hdpe gas monitoring standpipe with a gas valve and gravel surround to 4.00m, a bentonite seal from 1.00m to 0.20m and a concreted in lockable metal cover from 0.20m to GL								Scale (approx)	Logged By		
								1:25	MSB/HB		
								Figure No. 8130B.M6			

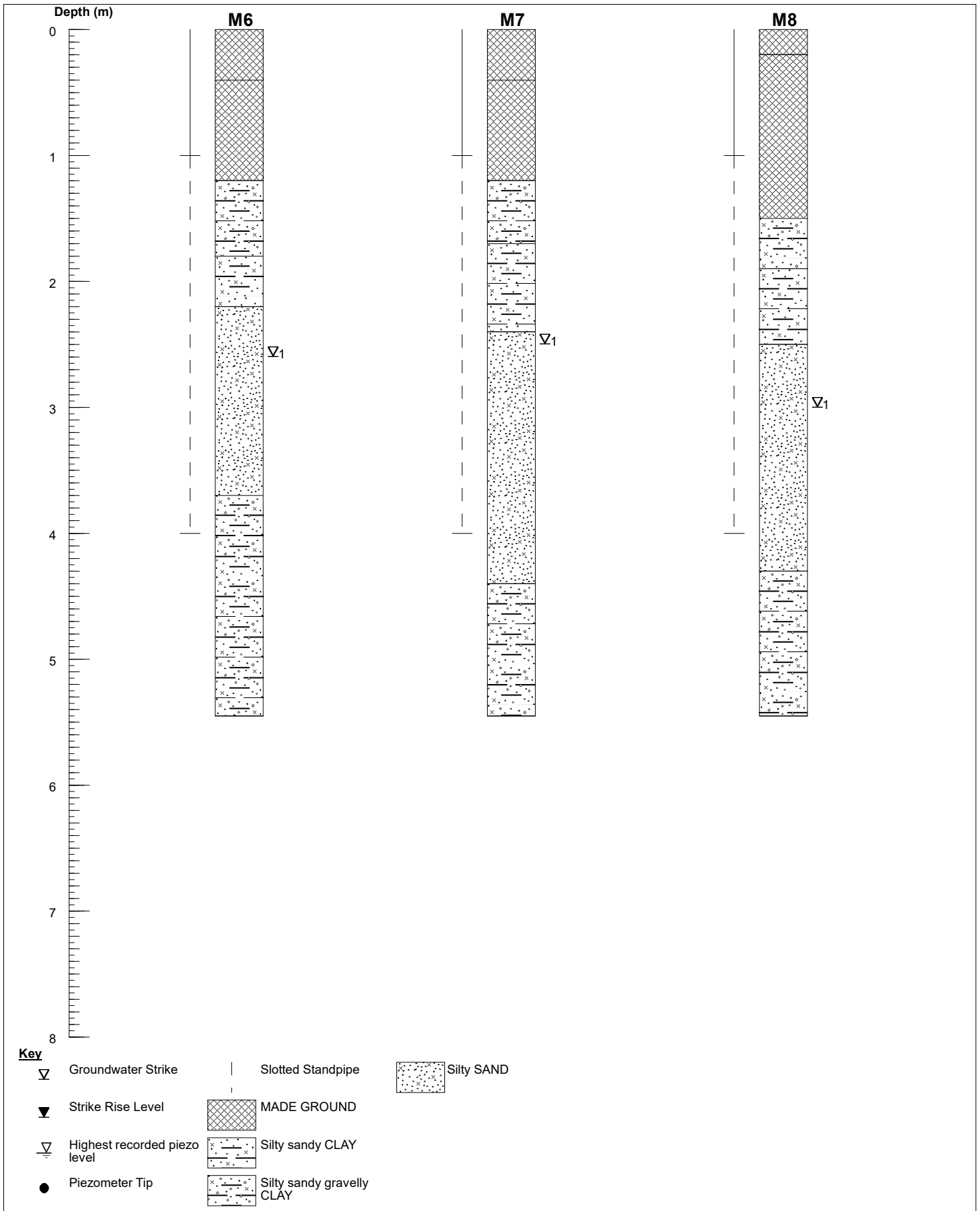
S S SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907							Site LAND AT BILLBERRY CLOSE AND ALBERT ROAD, WHITEFIELD, GREATER MANCHESTER			Borehole Number M6	
Boring Method MINI PERCUSSIVE		Casing Diameter 115mm cased to 3.00m		Ground Level (mOD)		Client THOMPSON CONTRACTS (BLACKPOOL) LIMITED		Job Number 8130B			
		Location AS PLAN		Dates 20/05/2025		Engineer KEYSTONE DESIGN ASSOCIATES LIMITED		Sheet 2/2			
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr	
5.00-5.45	D			20/05/2025:		5.45	Stiff dark brown slightly gravelly slightly sandy silty CLAY with occasional bands of sand. Gravel is subangular to subrounded fine to medium sandstone, siltstone and quartz.				
							Complete at 5.45m				
Remarks								Scale (approx)	Logged By		
								1:25	MSB/HB		
								Figure No. 8130B.M6			

S S SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907							Site LAND AT BILLBERRY CLOSE AND ALBERT ROAD, WHITEFIELD, GREATER MANCHESTER			Borehole Number M7	
Boring Method MINI PERCUSSIVE		Casing Diameter 115mm cased to 2.00m			Ground Level (mOD)		Client THOMPSON CONTRACTS (BLACKPOOL) LIMITED			Job Number 8130B	
		Location AS PLAN			Dates 20/05/2025		Engineer KEYSTONE DESIGN ASSOCIATES LIMITED			Sheet 1/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr	
0.00-0.40	B					(0.40)	MADE GROUND: friable dark brown slightly gravelly sandy silty clay with many rootlets. Gravel sized fragments are fine to coarse stone. (Topsoil.)				
0.40-1.20	B					0.40 (0.80)	MADE GROUND: firm to stiff dark brown, brown and grey mottled slightly gravelly slightly sandy silty clay. Gravel sized fragments are fine to coarse stone and brick.				
1.20-1.65 1.20-2.00	D C			1.20m to 2.00m - 100% Recovery		1.20 (0.50)	Firm brown and occasional orangish brown and grey mottled slightly gravelly slightly sandy silty CLAY. Gravel is subangular to subrounded fine to medium sandstone, siltstone and quartz.				
2.00-2.45 2.00-3.00	D C			2.00m to 3.00m - 70% Recovery		1.70 (0.70)	Soft thinly laminated dark brown slightly sandy silty CLAY with silt on laminae.				
				Water inflow(1) at 2.50m.		2.40	Dark brown silty fine to coarse SAND.		Σ1		
3.00-4.00	C			3.00m to 4.00m - 100% Recovery		(2.00)					
4.00-4.45 4.00-5.00	D C			4.00m to 5.00m - 100% Recovery		4.40 (1.05)	Firm dark brown slightly gravelly slightly sandy silty CLAY. Gravel is subangular to subrounded fine to medium sandstone, siltstone and quartz.				
Remarks Hand dug inspection pit from GL to 1.20m to check for services - 1 hour. Core diameter: 87mm to 3.00m, 77mm to 4.00m, 57mm to 5.00m. On completion backfilled with arisings and installed a 50mm hdpe gas monitoring standpipe with a gas valve and gravel surround to 4.00m, a bentonite seal from 1.00m to 0.20m and a concreted in lockable metal cover from 0.20m to GL								Scale (approx) 1:25	Logged By MSB/HB	Figure No. 8130B.M7	

S S SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907							Site LAND AT BILLBERRY CLOSE AND ALBERT ROAD, WHITEFIELD, GREATER MANCHESTER			Borehole Number M7	
Boring Method MINI PERCUSSIVE		Casing Diameter 115mm cased to 2.00m		Ground Level (mOD)		Client THOMPSON CONTRACTS (BLACKPOOL) LIMITED		Job Number 8130B			
		Location AS PLAN		Dates 20/05/2025		Engineer KEYSTONE DESIGN ASSOCIATES LIMITED		Sheet 2/2			
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr	
5.00-5.45	D			20/05/2025:		5.45	Firm dark brown slightly gravelly slightly sandy silty CLAY. Gravel is subangular to subrounded fine to medium sandstone, siltstone and quartz.				
							Complete at 5.45m				
Remarks								Scale (approx)	Logged By		
								1:25	MSB/HB		
								Figure No. 8130B.M7			

SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907							Site LAND AT BILLBERRY CLOSE AND ALBERT ROAD, WHITEFIELD, GREATER MANCHESTER		Borehole Number M8		
Boring Method MINI PERCUSSIVE		Casing Diameter			Ground Level (mOD)		Client THOMPSON CONTRACTS (BLACKPOOL) LIMITED			Job Number 8130B	
		Location AS PLAN			Dates 20/05/2025		Engineer KEYSTONE DESIGN ASSOCIATES LIMITED			Sheet 1/2	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr	
0.00-0.20	B					(0.20)	MADE GROUND: friable dark brown slightly gravelly sandy silty clay with many rootlets. Gravel sized fragments are fine to coarse stone. (Topsoil.)				
0.20-1.00	B					0.20	MADE GROUND: soft to firm dark brown slightly gravelly slightly sandy silty clay with occasional rootlets. Gravel sized fragments are fine to medium stone and brick.				
						(1.30)					
1.20-1.65	D			1.20m to 2.00m - 100% Recovery		1.50	Firm brown and occasional orangish brown and grey mottled slightly gravelly slightly sandy silty CLAY. Gravel is subangular to subrounded fine to medium sandstone, siltstone and quartz.				
1.20-2.00	C					(0.40)					
						1.90	Soft thinly laminated dark brown slightly sandy silty CLAY with silt on laminae.				
2.00-2.45	D			2.00m to 3.00m - 100% Recovery		(0.60)					
2.00-3.00	C					2.50	Dark brown silty fine to coarse SAND.				
						(1.80)					
3.00-3.45	D			Water inflow(1) at 3.00m.							
3.00-4.00	C			3.00m to 4.00m - 100% Recovery							
						(1.15)					
4.00-4.45	D			4.00m to 5.00m - 100% Recovery		4.30	Firm dark brown slightly gravelly slightly sandy silty CLAY. Gravel is subangular to subrounded fine to medium sandstone, siltstone and quartz.				
4.00-5.00	C										
Remarks Hand dug inspection pit from GL to 1.20m to check for services - 1 hour. Core diameter: 77mm to 3.00m, 67mm to 4.00m, 57mm to 5.00m. On completion backfilled with arisings and installed a 50mm hdpe gas monitoring standpipe with a gas valve and gravel surround to 4.00m, a bentonite seal from 1.00m to 0.20m and a concreted in lockable metal cover from 0.20m to GL								Scale (approx) 1:25	Logged By MSB/HB	Figure No. 8130B.M8	

S S SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907							Site LAND AT BILLBERRY CLOSE AND ALBERT ROAD, WHITEFIELD, GREATER MANCHESTER			Borehole Number M8	
Boring Method MINI PERCUSSIVE		Casing Diameter		Ground Level (mOD)		Client THOMPSON CONTRACTS (BLACKPOOL) LIMITED		Job Number 8130B			
		Location AS PLAN		Dates 20/05/2025		Engineer KEYSTONE DESIGN ASSOCIATES LIMITED		Sheet 2/2			
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr	
5.00-5.45	D			20/05/2025:		5.45	Firm dark brown slightly gravelly slightly sandy silty CLAY. Gravel is subangular to subrounded fine to medium sandstone, siltstone and quartz.				
							Complete at 5.45m				
Remarks								Scale (approx)	Logged By		
								1:25	MSB/HB		
								Figure No. 8130B.M8			



S SUB SURFACE
 SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS
 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907

Nominal Section

Site LAND AT BILLBERRY CLOSE AND ALBERT ROAD, WHITEFIELD, GREATER MANCHESTER	Date Drawn 26/06/2025	Date Checked	Sheet 1/1	Job Number 8130B
Client THOMPSON CONTRACTS (BLACKPOOL) LIMITED	Drawn By	Checked By	Scale 1:40[V]	Figure No. 8130B

HAND DUG TRIAL PIT RECORD SHEETS



LAND AT BILLBERRY CLOSE AND ALBERT ROAD,
WHITEFIELD, GREATER MANCHESTER

**Trial Pit
Number
HD2**

1/1

Water

1

1.20

1

1

Complete at 1.20m

Remarks

Pit sides remained vertical and stable.
No groundwater encountered.
On completion backfilled with arisings.

Figure No.

8130B.HD2



LAND AT BILLBERRY CLOSE AND ALBERT ROAD,
WHITEFIELD, GREATER MANCHESTER

**Trial Pit
Number
HD3**

Number
8130B

1/1

Water

Copyright © 2010 Pearson Education, Inc. All rights reserved. Printed in the United States of America. This publication is protected by copyright. Any unauthorized reproduction or distribution, in any form or by any means, without written permission from Pearson Education, Inc., is prohibited.

Complete at 1.20m

Remarks

Pit sides remained vertical and stable.
No groundwater encountered.
On completion backfilled with arisings.

8130B HD2



LAND AT BILLBERRY CLOSE AND ALBERT ROAD,
WHITEFIELD, GREATER MANCHESTER

**Trial Pit
Number
HD4**

Number
8130B

1/1

Water

1

2

Complete at 1 20m

Remarks

Pit sides remained vertical and stable.
No groundwater encountered.
On completion backfilled with arisings.

Figure No.

8130B.HD2



LAND AT BILLBERRY CLOSE AND ALBERT ROAD,
WHITEFIELD, GREATER MANCHESTER

**Job
Number**
8130B

HAND DUG

0.30m x 0.30m

Dates

01/06/2025

THOMPSON CONTRACTS (BLACKPOOL) LIMITED

KEYSTONE DESIGN ASSOCIATES LIMITED

**Job
Number**
8130B

Sheet
1/1

Sample / Tests

Field Records

Level
(mOD)

Depth
(m)
(Thickness)

Description

Legend

Water

0.00-0.50

B

MADE GROUND: friable dark brown slightly gravelly sandy silty clay with many rootlets. Gravel sized fragments are fine to coarse stone. (Topsoil.)

1

(0.50)

0.50

(0.70)

1.20

MADE GROUND: firm, friable in places, brown slightly gravelly slightly sandy silty clay. Gravel sized fragments are fine to coarse stone and brick.



1

Complete at 1.20m

--	--

1

Plan

Remarks

Pit sides remained vertical and stable.
No groundwater encountered.
On completion backfilled with arisings.

Scale (approx)

1:10

Logged By

MSB

Figure No.

8130B.HD2

S S SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907						Site LAND AT BILLBERRY CLOSE AND ALBERT ROAD, WHITEFIELD, GREATER MANCHESTER		Trial Pit Number HD6	
Excavation Method HAND DUG		Dimensions 0.30m x 0.30m		Ground Level (mOD)		Client THOMPSON CONTRACTS (BLACKPOOL) LIMITED		Job Number 8130B	
		Location AS PLAN		Dates 01/06/2025		Engineer KEYSTONE DESIGN ASSOCIATES LIMITED		Sheet 1/1	
Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description		Legend	Water
0.00-0.30	B				(0.30)	MADE GROUND: friable dark brown slightly gravelly sandy silty clay with many rootlets. Gravel sized fragments are fine to coarse stone. (Topsoil.)			
0.30-0.70	B				0.30	MADE GROUND: firm, friable in places, brown slightly gravelly slightly sandy silty clay. Gravel sized fragments are fine to coarse stone and brick.			
0.70-1.20	B				(0.90)				
			20/05/2025:DRY		1.20	Complete at 1.20m			
Plan 						Remarks Pit sides remained vertical and stable. No groundwater encountered. On completion backfilled with arisings.			
						Scale (approx) 1:10		Logged By MSB	
								Figure No. 8130B.HD2	



LAND AT BILLBERRY CLOSE AND ALBERT ROAD,
WHITEFIELD, GREATER MANCHESTER

**Trial Pit
Number**
HD7

1/1

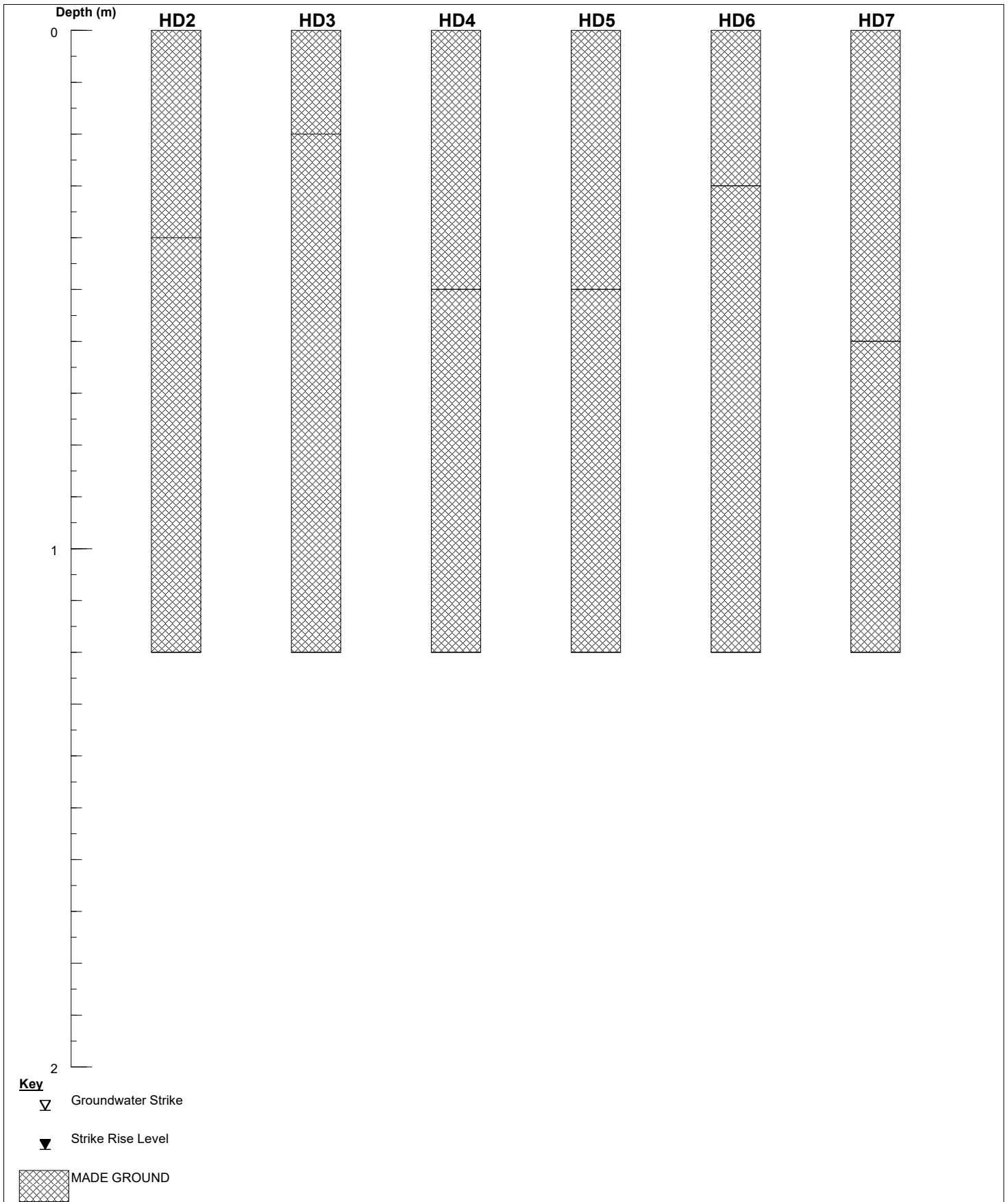
Remarks

Pit sides remained vertical and stable.
No groundwater encountered.
On completion backfilled with arisings.

1:10

MSB

8130B.HD2

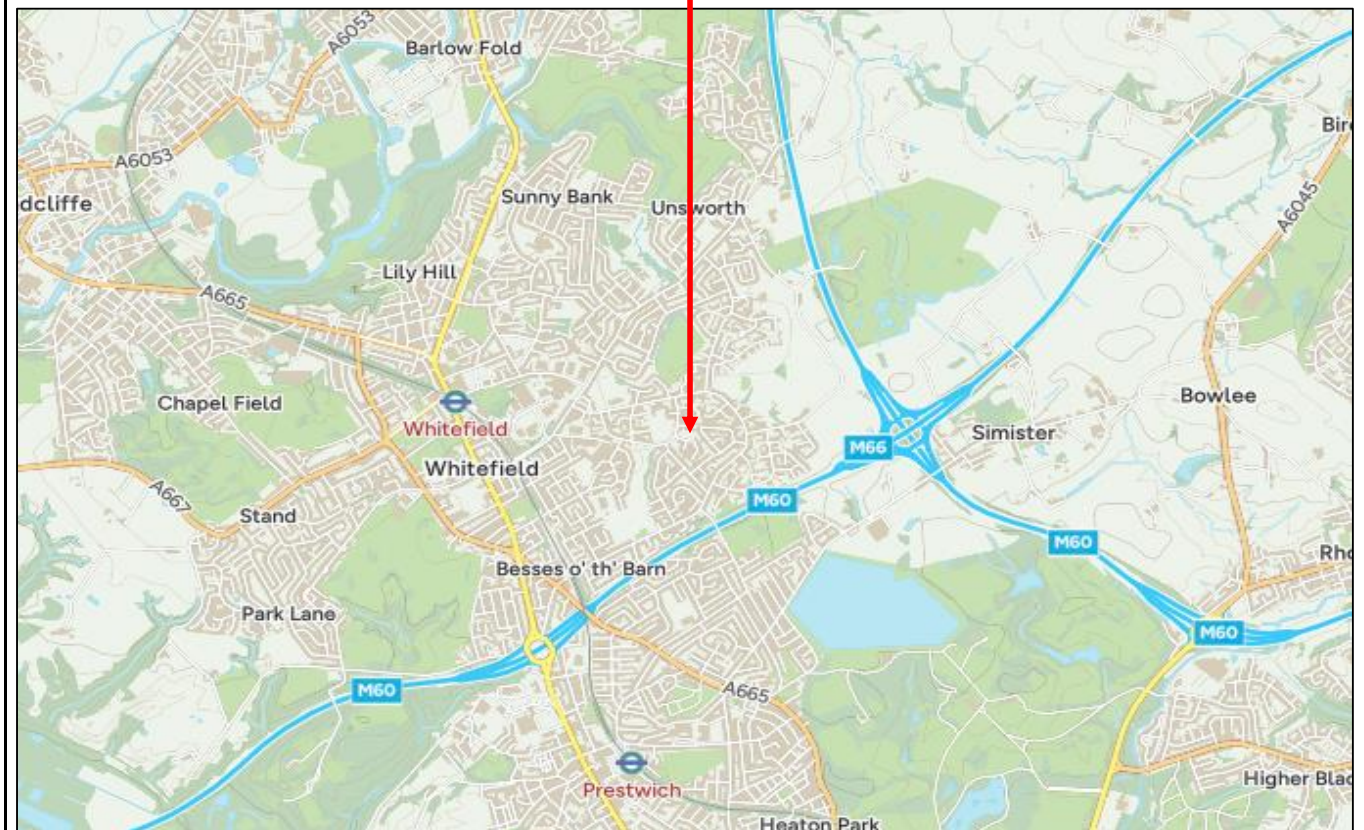
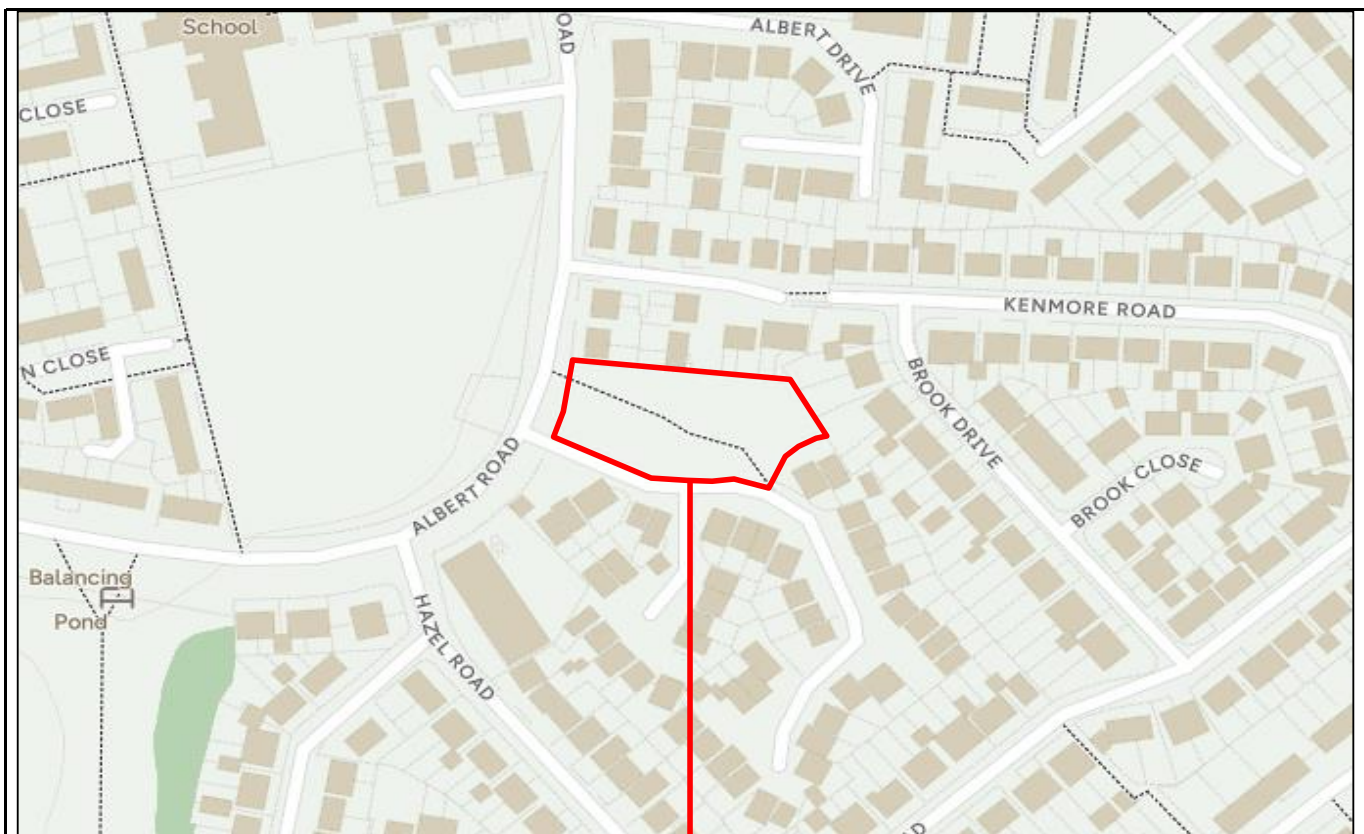


SS SUB SURFACE
 SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS
 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907

Nominal Section

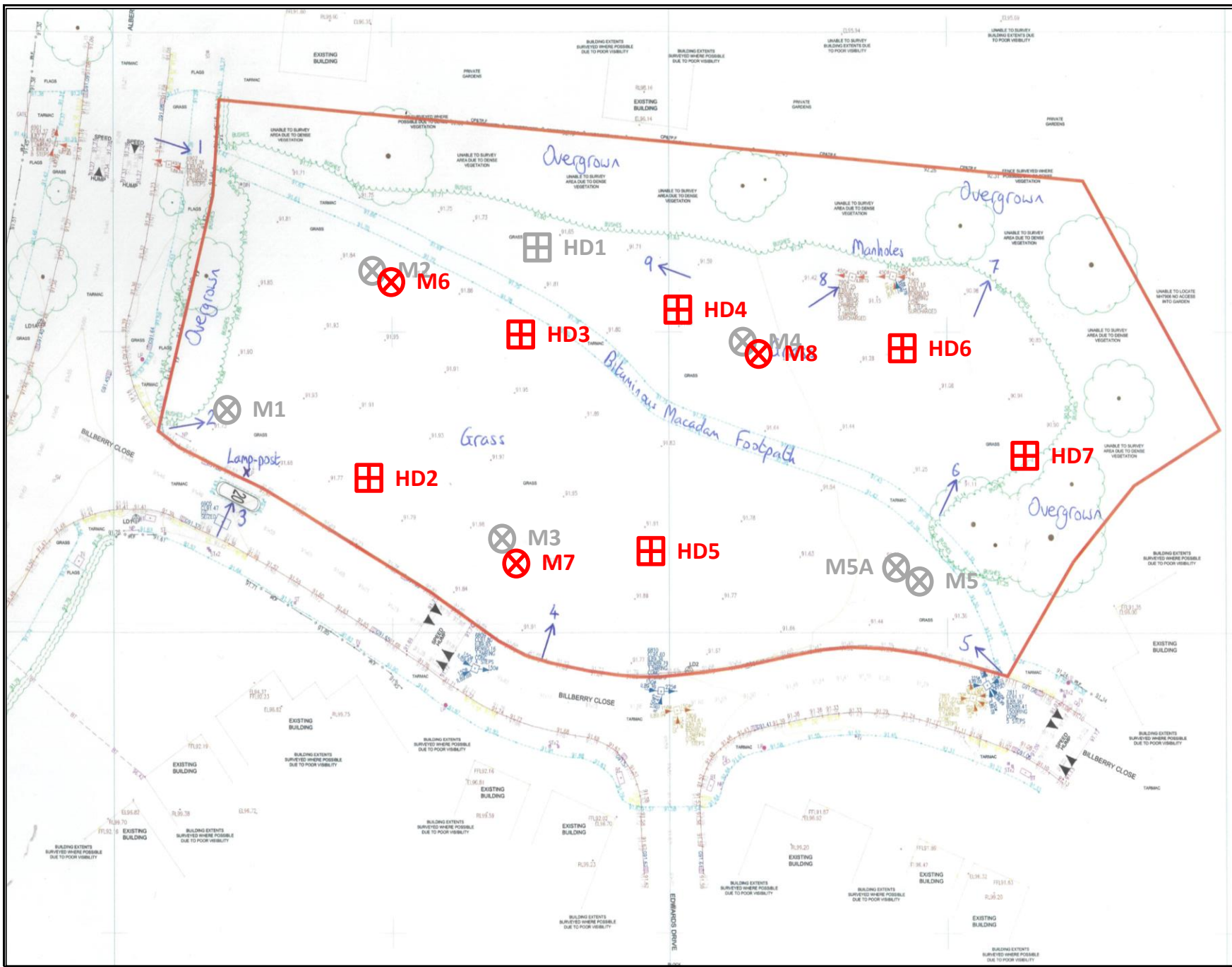
Site LAND AT BILLBERRY CLOSE AND ALBERT ROAD, WHITEFIELD, GREATER MANCHESTER	Date Drawn 26/06/2025	Date Checked	Sheet 1/1	Job Number 8130B
Client THOMPSON CONTRACTS (BLACKPOOL) LIMITED	Drawn By	Checked By	Scale 1:10[V]	Figure No. 8130B

FIGURES



CROWN COPYRIGHT © REPRODUCED FROM THE ORDNANCE SURVEY WITH THE PERMISSION OF THE CONTROLLER OF HER MAJESTY'S STATIONARY OFFICE. LICENCE NO: 100033464

S SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907	Site Location Plan			
Site: LAND AT BILLBERRY CLOSE & ALBERT ROAD, WHITEFIELD, GREATER MANCHESTER	Date Drawn: 19-Jun-25	Date Checked: 24-Jun-25	Orientation: 	Job Number: 8130B
Client: THOMPSON CONTRACTS (BLACKPOOL) LIMITED	Drawn By: MSB	Checked By: CAM	Scale: NTS	Figure Number: 1



SS SUB SURFACE

SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS
 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907

Site Plan / Walkover Photo Locations

Date Drawn: 19-Jun-25	Date Checked: 24-Jun-25	Orientation: 	Job Number: 8130B
Drawn By: MSB	Checked By: CAM	Scale: NTS	Figure Number: 2

Site:
 LAND AT BILLBERRY CLOSE & ALBERT ROAD, WHITEFIELD,
 GREATER MANCHESTER

Client:
 THOMPSON CONTRACTS (BLACKPOOL) LIMITED



Street Scene Elevation Along Billberry Close
(Scale 1:100)



Street Scene Elevation Along Albert Road
(Scale 1:100)

SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907		Proposed Development			
Site: LAND AT BILLBERRY CLOSE & ALBERT ROAD, WHITEFIELD, GREATER MANCHESTER		Date Drawn: 19-Jun-25	Date Checked: 24-Jun-25	Orientation: 	Job Number: 8130B
Client: THOMPSON CONTRACTS (BLACKPOOL) LIMITED		Drawn By: MSB	Checked By: CAM	Scale: NTS	Figure Number: 3