



CERTIFICATE OF ANALYSIS

SDG:	210215-44	Client Reference:	21-04194	Report Number:	587810
Location:	21-04194	Order Number:	20367	Superseded Report:	

Appendix

General

1. Results are expressed on a dry weight basis (dried at 35°C) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH₄ by the BRE method, VOC TICs and SVOC TICs.

2. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALS reserve the right to charge for samples received and stored but not analysed.

3. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

4. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

5. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

6. NDP - No determination possible due to insufficient/unsuitable sample.

7. Results relate only to the items tested.

8. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

9. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment. Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect.

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11. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

12. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

13. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

14. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

15. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

16. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

17. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as "mixed hydrocarbons". Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

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If a sample is classed as deviated then the associated results may be compromised.

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Matrix interference
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to late arrival of instructions or samples
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19. Asbestos

When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as "Not detected". If no asbestos fibre types are found all will be reported as "Not detected" and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Standing Committee of Analysts, *The Quantification of Asbestos in Soil* (2017).

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.



Final Report

Report No.: 21-05563-1

Initial Date of Issue: 08-Mar-2021

Client Sub Surface

Client Address: 3 Peel Street
Preston
Lancashire
PR2 2QS

Contact(s): Simon Gabbatt

Project (6921C) Arkady Industrial Estate, Briscoe Lane, Newton Heath, Gt Manchester

Quotation No.: **Date Received:** 24-Feb-2021

Order No.: **Date Instructed:** 24-Feb-2021

No. of Samples: 3

Turnaround (Wkdays): 7 **Results Due:** 04-Mar-2021

Date Approved: 08-Mar-2021 **Subcon Results Due:** 17-Mar-2021

Approved By:



Details: Glynn Harvey, Technical Manager

Results - Water

(6921C) Arkady Industrial Estate, Briscoe Lane, Newton Heath, Greater Manchester

Client: Sub Surface	Chemtest Job No.:				21-05563	21-05563	21-05563
Quotation No.:	Chemtest Sample ID.:				1147391	1147392	1147393
	Client Sample ID.:				129 130 131 132	133 134 135 136	137 138 139 140
	Sample Location:				M1A	M5	M6
	Sample Type:				WATER	WATER	WATER
	Top Depth (m):				0.80	1.00	0.50
	Date Sampled:				22/02/21	22/02/21	22/02/21
Determinand	Accred.	SOP	Units	LOD			
pH	U	1010		N/A	7.9	11.6	9.3
Sulphate	U	1220	mg/l	1.0	490	44	82
Cyanide (Total)	U	1300	mg/l	0.050	< 0.050	< 0.050	< 0.050
Sulphide	U	1325	mg/l	0.050	< 0.050	< 0.050	< 0.050
Arsenic (Dissolved)	U	1455	µg/l	0.20	1.0	2.9	2.3
Boron (Dissolved)	U	1455	µg/l	10.0	120	14	180
Cadmium (Dissolved)	U	1455	µg/l	0.12	< 0.08	0.09	< 0.08
Chromium (Dissolved)	U	1455	µg/l	0.50	22	43	20
Copper (Dissolved)	U	1455	µg/l	0.50	2.9	67	2.2
Mercury (Dissolved)	U	1455	µg/l	0.05	< 0.05	< 0.05	< 0.05
Molybdenum (Dissolved)	U	1455	µg/l	0.20	4.6	1500	15
Nickel (Dissolved)	U	1455	µg/l	0.50	11	18	8.6
Lead (Dissolved)	U	1455	µg/l	0.50	< 0.50	1.8	< 0.50
Selenium (Dissolved)	U	1455	µg/l	0.50	16	21	24
Zinc (Dissolved)	U	1455	µg/l	3.0	11	4.4	6.0
Chromium (Hexavalent)	U	1490	µg/l	20	< 20	< 20	< 20
TPH >C6-C10	N	1670	µg/l	0.10	< 0.10	< 0.10	< 0.10
TPH >C10-C21	N	1670	µg/l	0.10	< 0.10	< 0.10	< 0.10
TPH >C21-C40	N	1670	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total TPH >C6-C40	U	1670	µg/l	10	< 10	< 10	< 10
Naphthalene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Acenaphthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluorene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Phenanthrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Chrysene	N	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene	U	1700	µg/l	0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's	N	1700	µg/l	2.0	< 2.0	< 2.0	< 2.0
Benzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0
Toluene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0
o-Xylene	U	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether	N	1760	µg/l	1.0	< 1.0	< 1.0	< 1.0
Total Phenols	U	1920	mg/l	0.030	< 0.030	< 0.030	< 0.030
PFAS Water Suite	SN		ng/l	1.00	See Attached		See Attached

Test Methods

SOP	Title	Parameters included	Method summary
1010	pH Value of Waters	pH	pH Meter
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.
1300	Cyanides & Thiocyanate in Waters	Free (or easy liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Continuous Flow Analysis.
1325	Sulphide in Waters	Sulphides	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using N,N-dimethyl-pphenylenediamine.
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).
1490	Hexavalent Chromium in Waters	Chromium [VI]	Automated colorimetric analysis by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.
1670	Total Petroleum Hydrocarbons (TPH) in Waters by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO	Pentane extraction / GC FID detection
1700	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Waters by GC-FID	Acenaphthene; Acenaphthylene; Anthracene; Benzo[a]Anthracene; Benzo[a]Pyrene; Benzo[b]Fluoranthene; Benzo[ghi]Perylene; Benzo[k]Fluoranthene; Chrysene; Dibenzo[ah]Anthracene; Fluoranthene; Fluorene; Indeno[123cd]Pyrene; Naphthalene; Phenanthrene; Pyrene	Dichloromethane extraction / GC-FID (GC-FID detection is non-selective and can be subject to interference from co-eluting compounds)
1760	Volatile Organic Compounds (VOCs) in Waters by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics. (cf. USEPA Method 8260)	Automated headspace gas chromatographic (GC) analysis of water samples with mass spectrometric (MS) detection of volatile organic compounds.
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

Comments or interpretations are beyond the scope of UKAS accreditation

The results relate only to the items tested

Uncertainty of measurement for the determinands tested are available upon request

None of the results in this report have been recovery corrected

All results are expressed on a dry weight basis

The following tests were analysed on samples as received and the results subsequently corrected to a dry weight basis TPH, BTEX, VOCs, SVOCs, PCBs, Phenols

For all other tests the samples were dried at < 37°C prior to analysis

All Asbestos testing is performed at the indicated laboratory

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1

Sample Deviation Codes

- A - Date of sampling not supplied
- B - Sample age exceeds stability time (sampling to extraction)
- C - Sample not received in appropriate containers
- D - Broken Container
- E - Insufficient Sample (Applies to LOI in Trommel Fines Only)

Sample Retention and Disposal

All soil samples will be retained for a period of 45 days from the date of receipt

All water samples will be retained for 14 days from the date of receipt

Charges may apply to extended sample storage

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Unit 7-8 Hawarden Business Park

Manor Road (off Manor Lane)

Hawarden

Deeside

CH5 3US

Tel: (01244) 528700

Fax: (01244) 528701

email: hawardencustomerservices@alsglobal.com

Website: www.alsenvironmental.co.uk

Chemtest
Willie Snaith Rd
Newmarket
Suffolk
CB8 7SQ

Attention: Chemtest Subcontracting

WATER
CERTIFICATE OF ANALYSIS

Date of report Generation:	03 March 2021
Customer:	Chemtest
Sample Delivery Group (SDG):	210225-70
Your Reference:	21-05563
Location:	Not Specified
Report No:	589015

We received 2 samples on Thursday February 25, 2021 and 2 of these samples were scheduled for analysis which was completed on Wednesday March 03, 2021. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).

All sample data is provided by the customer. The reported results relate to the sample supplied, and on the basis that this data is correct.

Incorrect sampling dates and/or sample information will affect the validity of results.

The customer is not permitted to reproduce this report except in full without the approval of the laboratory.

Approved By:

Sonia McWhan

Operations Manager



CERTIFICATE OF ANALYSIS

Validated

SDG:	210225-70	Client Reference:	21-05563	Report Number:	589015
Location:	Not Specified	Order Number:	20402	Superseded Report:	

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
23792722	1147391	M1A	0.80	22/02/2021
23792724	1147393	M6	0.50	22/02/2021

Only received samples which have had analysis scheduled will be shown on the following pages.



Validated

CERTIFICATE OF ANALYSIS

SDG:	210225-70	Client Reference:	21-05563	Report Number:	589015
Location:	Not Specified	Order Number:	20402	Superseded Report:	

Results Legend

X Test

N No Determination Possible

Sample Types -

S - Soil/Solid
UNS - Unspecified Solid
GW - Ground Water
SW - Surface Water
LE - Land Leachate
PL - Prepared Leachate
PR - Process Water
SA - Saline Water
TE - Trade Effluent
TS - Treated Sewage
US - Untreated Sewage
RE - Recreational Water
DW - Drinking Water Non-regulatory
UNL - Unspecified Liquid
SL - Sludge
G - Gas
OTH - Other

Lab Sample No(s)

Customer Sample Reference

AGS Reference

Depth (m)

Container

Sample Type

PFAS Liquids

All

NDPs: 0
Tests: 2

X

X



CERTIFICATE OF ANALYSIS

Validated

SDG:	210225-70	Client Reference:	21-05563	Report Number:	589015
Location:	Not Specified	Order Number:	20402	Superseded Report:	

Table of Results - Appendix

Method No	Reference	Description
TM337	PFAS In Clean Water Matrices	Analysis of perfluoroalkylsulfonates and perfluorocarboxylic acids in clean water matrices

NA = not applicable.

Chemical testing (unless subcontracted) performed at ALS Life Sciences Ltd Hawarden (Method codes TM) or ALS Life Sciences Ltd Aberdeen (Method codes S).



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Location:	Not Specified	Order Number:	20402	Superseded Report:	

Test Completion Dates

Lab Sample No(s)	23792722	23792724
Customer Sample Ref.	1147391	1147393
AGS Ref.	M1A	M6
Depth	0-80	0-50
Type	Unspecified Liq	Unspecified Liq
PFAS Liquids	03-Mar-2021	03-Mar-2021



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The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALS (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than: - Trace - Where only one or two asbestos fibres were identified.

Respirable Fibres

Respirable fibres are defined as fibres of <3 µm diameter, longer than 5 µm and with aspect ratios of at least 3:1 that can be inhaled into the lower regions of the lung and are generally acknowledged to be most important predictor of hazard and risk for cancers of the lung.

Standing Committee of Analysts, *The Quantification of Asbestos in Soil (2017)*.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.

MINI BOREHOLE RECORD SHEETS

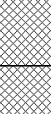
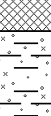
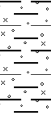
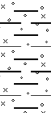
 SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907							Site ARKADY INDUSTRIAL ESTATE, BRISCOE LANE, NEWTON HEATH, GREATER MANCHESTER.		Borehole Number M1	
Boring Method MINI PERCUSSIVE		Casing Diameter		Ground Level (mOD) 63.70		Client CASSEL & FLETCHER CONSTRUCTION LIMITED		Job Number 6921C		
		Location AS PLAN		Dates 02/02/2021		Engineer		Sheet 1/1		
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
				02/02/2021: DRY	63.57 63.43	(0.13) 0.13 (0.14) 0.27	MADE GROUND: reinforced concrete. MADE GROUND: blue insulation board. at 0.27m : apparent electric cable Complete at 0.27m			
Remarks Cored concrete and hand dug inspection pit from GL to 0.27m to check for services. Descriptions based on Foreman drillers records to 0.27m. M1 abandoned at 0.27m, backfilled with arisings and moved to M1A.							Scale (approx) 1:25	Logged By BSP/SJ		
							Figure No. 6921C.M1			

S S SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907						Site ARKADY INDUSTRIAL ESTATE, BRISCOE LANE, NEWTON HEATH, GREATER MANCHESTER.				Borehole Number M1A	
Boring Method MINI PERCUSSIVE		Casing Diameter		Ground Level (mOD) 63.70		Client CASSEL & FLETCHER CONSTRUCTION LIMITED			Job Number 6921C		
		Location AS PLAN		Dates 02/02/2021		Engineer			Sheet 1/1		
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr	
0.50-1.00	B				63.60	(0.10)	MADE GROUND: reinforced concrete.				
						0.10					
					63.45	(0.15)	MADE GROUND: blue insulation board				
						0.25	 at 0.25m : blue membrane				
					63.27	(0.18)	MADE GROUND: concrete.				
1.00-2.00 1.00-2.00	B C			1.00m to 2.00m - 0% recovery		0.43	MADE GROUND: grey slightly sandy fine to coarse gravel sized fragments of stone and brick with low cobble sized fragments of brick.				
						(0.47)					
					62.80	0.90	Soft brown silty CLAY.				
					62.70	(0.10)					
						1.00	Stiff dark brown slightly gravelly silty CLAY. Gravel is subangular to subrounded fine to coarse siltstone, quartz and coal.				
2.00-3.00	C			2.00m to 3.00m - 80% recovery							
3.00-4.00	C			3.00m to 4.00m - 10% recovery	60.70	3.00	Soft brown slightly gravelly silty CLAY. Gravel is fine to coarse siltstone.				
				02/02/2021:DRY	59.70	4.00	Complete at 4.00m				
Remarks Concrete cored and hand dug inspection pit from GL to 1.00m to check for services. Descriptions based on Foreman drillers records to 0.50m C = Plastic lined core sample Core diameter : 84mm to 2.00m, 74mm to 3.00m and 64mm to 4.00m On completion installed a 50mm dia hdpe slotted gas monitoring standpipe with a gas valve and a gravel surround to 4.00m, a Bentonite seal from 1.00m to 0.20m and a concreted in lockable steel protective cover from 0.20m to GL.								Scale (approx) 1:25	Logged By BSP/SJ	Figure No. 6921C.M01A	

SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907							Site ARKADY INDUSTRIAL ESTATE, BRISCOE LANE, NEWTON HEATH, GREATER MANCHESTER.		Borehole Number M2	
Boring Method MINI PERCUSSIVE		Casing Diameter			Ground Level (mOD) 63.65		Client CASSEL & FLETCHER CONSTRUCTION LIMITED		Job Number 6921C	
		Location AS PLAN			Dates 01/02/2021		Engineer		Sheet 1/1	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.50-1.00	B					(0.35)	MADE GROUND: reinforced concrete.			
						63.30 0.35 (0.10)	MADE GROUND: grey gravel sized fragments of stone.			
						63.20 0.45 63.15 0.50	MADE GROUND: concrete.			
1.00-2.00	C			1.00m to 2.00m - 85% recovery		(0.30)	MADE GROUND: dark grey ashy silty sandy fine to coarse gravel sized fragments of stone, brick, slag and concrete with low cobble sized fragments of concrete.			
						62.85 0.80	Stiff dark brown and occasional grey mottled slightly gravelly silty CLAY. Gravel is subangular to subrounded fine to coarse siltstone, quartz, coal and occasional sandstone.			
2.00-3.00	C			2.00m to 3.00m - 93% recovery		(3.20)	 from 2.00m : thinly laminated			
										
3.00-4.00	C			3.00m to 4.00m - 74% recovery		4.00	Complete at 4.00m			
										
Remarks Cored concrete and hand dug inspection pit from GL to 1.00m to check for services. Descriptions based on Foreman drillers records to 0.50m C = Plastic lined core sample Core diameter : 74mm to 2.00m, 64mm to 3.00m and 54mm to 4.00m On completion backfilled with gravel sized fragments of stone.								Scale (approx) 1:25	Logged By BSP/SJ	
								Figure No. 6921C.M2		

S S SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907							Site ARKADY INDUSTRIAL ESTATE, BRISCOE LANE, NEWTON HEATH, GREATER MANCHESTER.		Borehole Number M3	
Boring Method MINI PERCUSSIVE		Casing Diameter			Ground Level (mOD) 63.80		Client CASSEL & FLETCHER CONSTRUCTION LIMITED		Job Number 6921C	
		Location AS PLAN			Dates 02/02/2021		Engineer		Sheet 1/1	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
0.10-0.60	B				63.65	(0.15) 0.15	MADE GROUND: reinforced concrete.			
							Stiff dark brown and occasional grey mottled slightly gravelly silty CLAY. Gravel is subangular to subrounded fine to coarse sandstone, siltstone, quartz and coal.			
1.00-2.00	C			1.00m to 2.00m - 88% recovery			 from 1.00m to 3.30m : thinly laminated			
2.00-3.00	C			2.00m to 3.00m - 82% recovery		(3.85)				
3.00-4.00	C			3.00m to 4.00m - 70% recovery						
				02/02/2021:DRY	59.80	4.00	Complete at 4.00m			
Remarks Cored concrete and hand dug inspection pit from GL to 1.00m to check for services. Descriptions based on foreman driller records to 0.10m and 0.60m to 1.00m C = Plastic lined core sample Core diameter : 74mm to 2.00m, 64mm to 3.00m and 54mm to 4.00m On completion backfilled with gravel sized fragments of stone.								Scale (approx)	Logged By	
								1:25	BSP/SJ	
								Figure No. 6921C.M3		

SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907						Site ARKADY INDUSTRIAL ESTATE, BRISCOE LANE, NEWTON HEATH, GREATER MANCHESTER.		Borehole Number M4	
Boring Method MINI PERCUSSIVE		Casing Diameter		Ground Level (mOD) 63.55		Client CASSEL & FLETCHER CONSTRUCTION LIMITED		Job Number 6921C	
		Location AS PLAN		Dates 01/02/2021		Engineer		Sheet 1/1	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20-0.50	B				63.40	(0.15)	MADE GROUND: reinforced concrete.		
						0.15	MADE GROUND: brown silty sandy fine to coarse gravel sized fragments of brick, stone, clinker and concrete.		
1.00-2.00	C			1.00m to 2.00m - 100% recovery	62.55	(0.85)			
						1.00			
						(0.20)	MADE GROUND: brown and grey fine to coarse sand. Gravel sized fragments are fine to medium slag.		
						1.20			
2.00-3.00	C			2.00m to 3.00m - 18% recovery	62.35	(0.15)	MADE GROUND: soft dark grey slightly organic slightly gravelly slightly sandy silty clay. Gravel sized fragments are fine to coarse brick and stone (organic odour).		
						1.35			
							Firm becoming stiff dark brown slightly gravelly silty CLAY. Gravel is subangular to subrounded fine to medium siltstone and quartz.		
							 from 2.00m : stiff		
3.00-4.00	C			3.00m to 4.00m - 30% recovery		(2.65)			
							 from 3.00m : thinly laminated		
				01/02/2021: DRY	59.55	4.00	Complete at 4.00m		
Remarks Cored concrete and hand dug inspection pit from GL to 1.00m to check for services. Descriptions based on Foreman drillers records to 0.20m and 0.50m to 1.00m C = Plastic lined core sample Core diameter : 74mm to 2.00m, 64mm to 3.00m and 54mm to 4.00m On completion backfilled with gravel sized fragments of stone.								Scale (approx) 1:25	Logged By BSP/SJ
								Figure No. 6921C.M4	

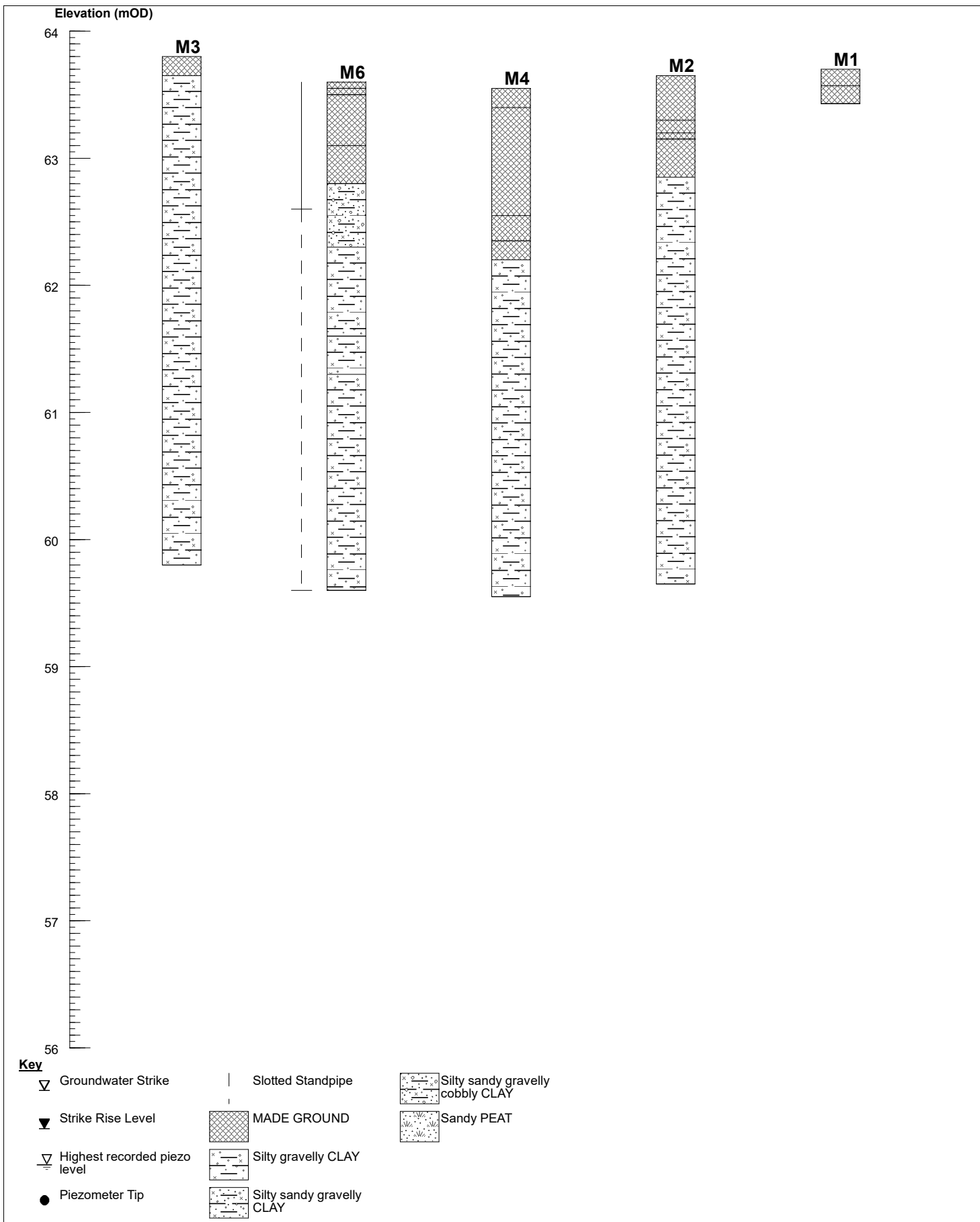
S S SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907						Site ARKADY INDUSTRIAL ESTATE, BRISCOE LANE, NEWTON HEATH, GREATER MANCHESTER.				Borehole Number M5		
Boring Method MINI PERCUSSIVE		Casing Diameter			Ground Level (mOD) 63.70		Client CASSEL & FLETCHER CONSTRUCTION LIMITED			Job Number 6921C		
										Sheet 1/1		
		Location AS PLAN			Dates 01/02/2021		Engineer					
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr		
0.50-1.00	B			1.00m to 2.00m - 100% recovery	63.32		MADE GROUND: reinforced concrete.					
						(0.38)						
0.38	MADE GROUND: firm brown gravelly slightly sandy silty clay. Gravel sized fragments are fine to coarse brick, slag, stone and concrete.											
(0.62)												
1.00-2.00	C					62.70	1.00	MADE GROUND: orangish brown slightly sandy fine to coarse gravel sized fragments of brick with low cobble sized fragments of brick.				
						62.50	0.20					
						62.40	1.20	MADE GROUND: soft orangish brown and grey mottled gravelly sandy silty clay with occasional rootlets. Gravel sized fragments are fine to coarse brick.				
						1.30						
2.00-3.00	C			2.00m to 3.00m - 80% recovery		(0.40)	MADE GROUND: soft grey and black mottled slightly gravelly slightly sandy silty clay with some rootlets. Gravel sized fragments are fine to medium slag. (Organic odour).					
					62.00	1.70						
							Firm becoming stiff thinly laminated dark brown and occasional grey mottled slightly gravelly silty CLAY. Gravel is subangular to subrounded fine to medium siltstone, sandstone, quartz and coal.					
							 from 2.00m : stiff					
3.00-4.00	C			3.00m to 4.00m - 85% recovery				(2.30)				
				01/02/2021:DRY	59.70	4.00	Complete at 4.00m					
Remarks Cored concrete and hand dug inspection pit from GL to 1.00m to check for services. Descriptions based on Foreman drillers records to 0.50m. C = Plastic lined core sample Core diameter : 84mm to 2.00m, 74mm to 3.00m and 64mm to 4.00m On completion installed a 50mm dia hdpe slotted gas monitoring standpipe with a gas valve and a gravel surround to 4.00m, a Bentonite seal from 1.00n to 0.20m and a concreted in lockable steel protective cover from 0.20m to GL.								Scale (approx) 1:25	Logged By BSP/SJ	Figure No. 6921C.M5		

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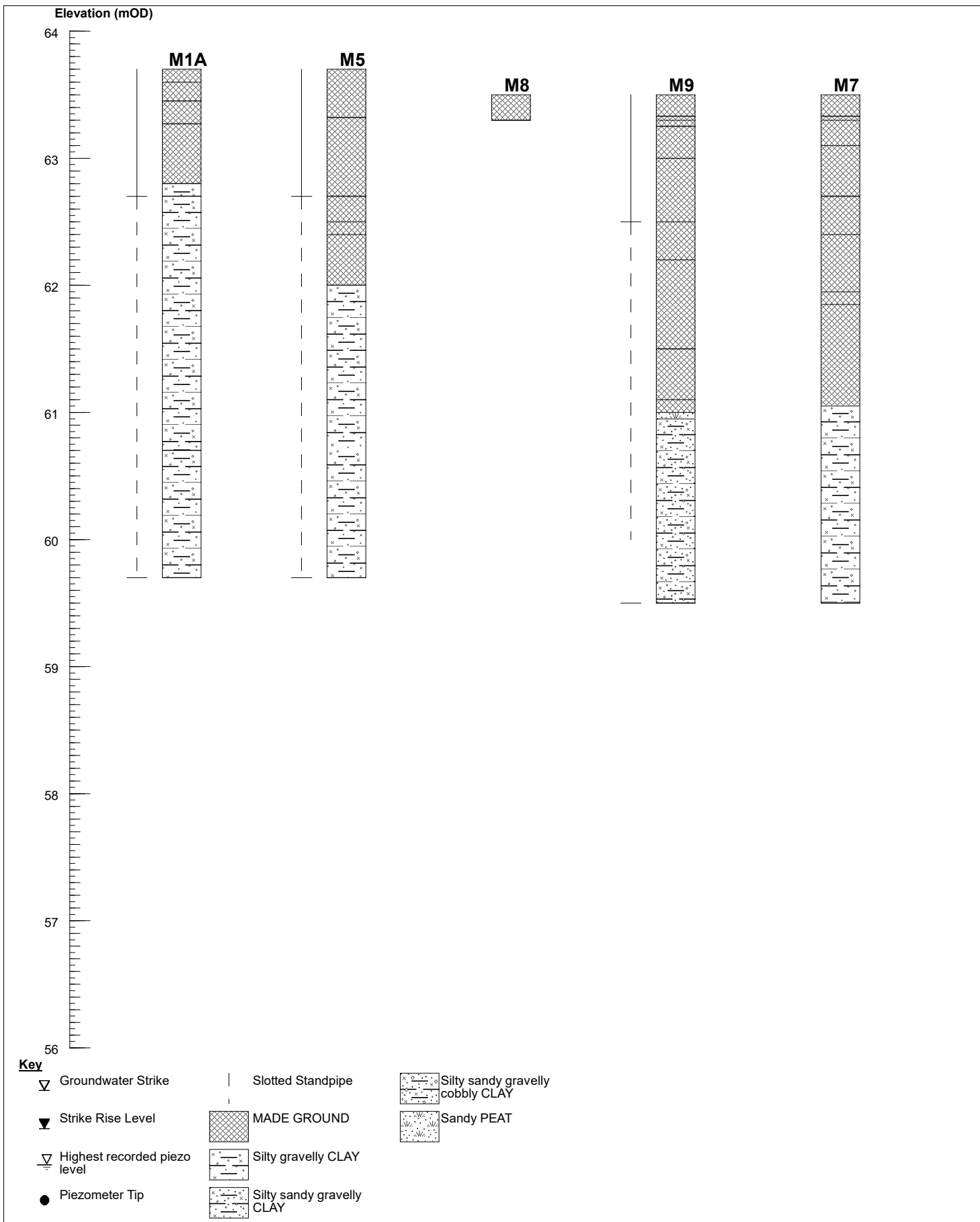
SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907						Site ARKADY INDUSTRIAL ESTATE, BRISCOE LANE, NEWTON HEATH, GREATER MANCHESTER.		Borehole Number M7	
Boring Method MINI PERCUSSIVE		Casing Diameter		Ground Level (mOD) 63.50		Client CASSEL & FLETCHER CONSTRUCTION LIMITED		Job Number 6921C	
		Location AS PLAN		Dates 02/02/2021		Engineer		Sheet 1/1	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.20-0.40	B					(0.17)	MADE GROUND: reinforced concrete.		
						63.33 0.17	MADE GROUND: pinkish white foam.		
						63.30 0.20	MADE GROUND: grey silty sandy fine to coarse gravel sized fragment of stone, concrete and brick.		
						63.10 0.40	MADE GROUND: concrete.		
1.00-2.00	C			1.00m to 2.00m - 100% recovery		(0.40)			
						62.70 0.80	MADE GROUND: very soft dark grey and black mottled slightly gravelly slightly sandy silty clay with some rootlets. Gravel sized fragments are fine to medium brick and slag (organic odour).		
						62.40 1.10	MADE GROUND: black slightly silty sandy fine to coarse gravel sized fragments of slag.		
						(0.45)			
2.00-3.00	C			2.00m to 3.00m - 75% recovery		61.95 1.55	MADE GROUND: very soft dark grey gravelly slightly sandy silty clay. Gravel sized fragments are fine to coarse slag and stone.		
						61.85 (0.10) 1.65			
						(0.80)	MADE GROUND: very soft grey becoming soft dark brown and black mottled gravelly slightly sandy silty clay. Gravel sized fragments are fine to coarse stone, plastic and concrete (organic odour).		
3.00-4.00	C			3.00m to 4.00m - 40% recovery		61.05 2.45	Stiff dark brown thinly laminated slightly gravelly silty CLAY. Gravel is subangular to subrounded fine to coarse siltstone and coal.		

S S SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907							Site ARKADY INDUSTRIAL ESTATE, BRISCOE LANE, NEWTON HEATH, GREATER MANCHESTER.		Borehole Number M8	
Boring Method MINI PERCUSSIVE		Casing Diameter		Ground Level (mOD) 63.50		Client CASSEL & FLETCHER CONSTRUCTION LIMITED		Job Number 6921C		
		Location AS PLAN		Dates 02/02/2021		Engineer		Sheet 1/1		
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	
				02/02/2021: DRY	63.30	(0.20) 0.20	MADE GROUND: reinforced concrete. at 0.20m : abandoned Complete at 0.20m			
Remarks Cored concrete from GL to 0.20m and encountered a second layer of concrete, abandoned and backfilled with arisings.								Scale (approx) 1:25	Logged By BSP/SJ	
								Figure No. 6921C.M8		

SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907							Site ARKADY INDUSTRIAL ESTATE, BRISCOE LANE, NEWTON HEATH, GREATER MANCHESTER.			Borehole Number M9	
Boring Method MINI PERCUSSIVE		Casing Diameter			Ground Level (mOD) 63.50		Client CASSEL & FLETCHER CONSTRUCTION LIMITED			Job Number 6921C	
		Location AS PLAN			Dates 02/02/2021		Engineer			Sheet 1/1	
Depth (m)	Sample / Tests	Casing Depth (m)	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water	Instr	
0.70-1.00	B					(0.17)	MADE GROUND: reinforced concrete.				
						63.33 0.17	MADE GROUND: pinkish white foam.				
						63.30 0.20	MADE GROUND: grey gravel sized fragments of stone.				
						63.25 0.25 (0.25)					
1.00-2.00 1.00-2.00	B C			1.00m to 2.00m - 0% recovery		63.00 0.50	MADE GROUND: concrete.				
						(0.50)	MADE GROUND: soft brown and dark grey mottled gravelly slightly sandy silty clay. Gravel sized fragments are fine to coarse brick, slag and sandstone.				
						62.50 1.00	MADE GROUND: soft grey and black mottled gravelly slightly sandy silty clay. Gravel sized fragments are fine to coarse stone and brick.				
						(0.30)					
2.00-3.00	C			2.00m to 3.00m - 100% recovery		62.20 1.30	MADE GROUND: stiff dark brown slightly gravelly silty clay. Gravel sized fragments are fine to coarse stone and brick.				
						(0.70)					
						61.50 2.00	MADE GROUND: dark grey and black mottled slightly silty sandy gravel sized fragments of slag and brick.				
						(0.40)					
3.00-4.00	C			3.00m to 4.00m = 40% recovery		61.10 2.40 (0.10)	MADE GROUND: firm brown and black mottled slightly sandy silty clay with pockets of black organic material.				
						61.00 2.50					
						60.95 2.55	Soft black slightly sandy fibrous PEAT.				
							Stiff dark brown slightly gravelly slightly sandy silty CLAY. Gravel is subangular slightly to subrounded fine to medium siltstone and sandstone.				
						(1.45)					



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 ARKADY INDUSTRIAL ESTATE, BRISCOE LANE, NEWTON HEATH, GREATER MANCHESTER.		Date Drawn 25/03/2021	Date Checked	Sheet 1/2
Client CASSEL & FLETCHER CONSTRUCTION LIMITED		Drawn By	Checked By	Job Number 6921C
			Scale 1:40[V]	Figure No. 6921C.1



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 ARKADY INDUSTRIAL ESTATE, BRISCOE LANE, NEWTON HEATH, GREATER MANCHESTER.		Date Drawn 25/03/2021	Date Checked	Sheet 2/2
Client CASSEL & FLETCHER CONSTRUCTION LIMITED		Drawn By	Checked By	Job Number 6921C
			Scale 1:40[V]	Figure No. 6921C.1

FIGURES



SUB SURFACE

SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
3 Peel Street, Preston, PR2 2QS. Tel: (01772) 561135. Fax: (01772) 204907

Site Location Plan

ARKADY INDUSTRIAL ESTATE, BRISCOE LANE,
NEWTON HEATH, GREATER MANCHESTER
CASSEL & FLETCHER CONSTRUCTION LIMITED

03-Apr-20

AJP

Date Drawn

Scale

1:1

6921A

Date Checked

Scale

1:1

6921A

Date Drawn

Scale

1:1

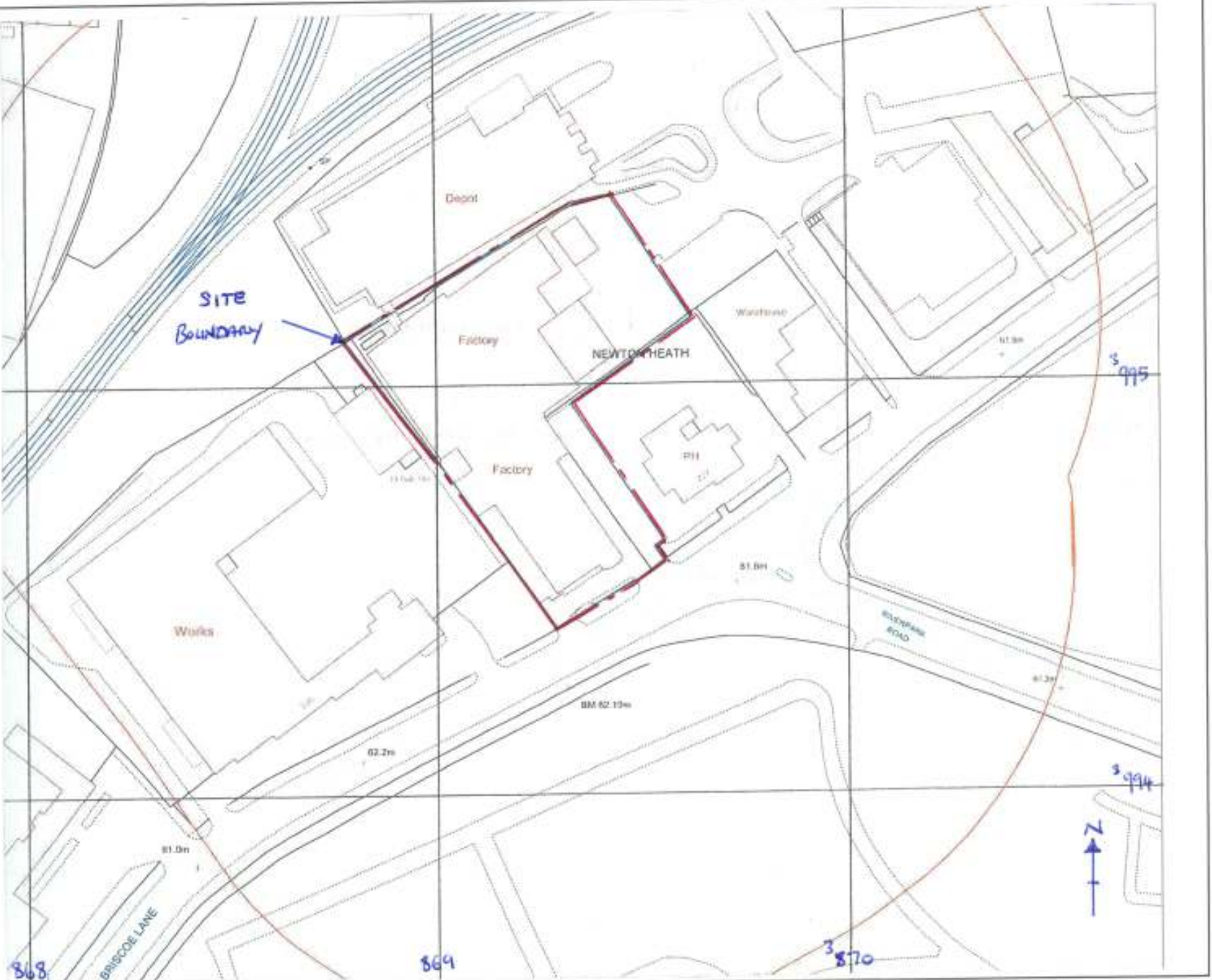
6921A

Date Checked

Scale

1:1

6921A



REPRODUCED FROM THE COMPANY'S REPORT WITH THE PERMISSION OF THE CONTROLLER OF HER MAJESTY'S LAND REVENUE OFFICE (LONDON, UK) (2008/01)



SUB SURFACE

SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
3 Park Street, Preston, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204407

Site Boundary Plan

Date Drawn
03-Apr-20

Date Checked

Sheet

Job No.

6921A

Drawn By

AJP

Checked By

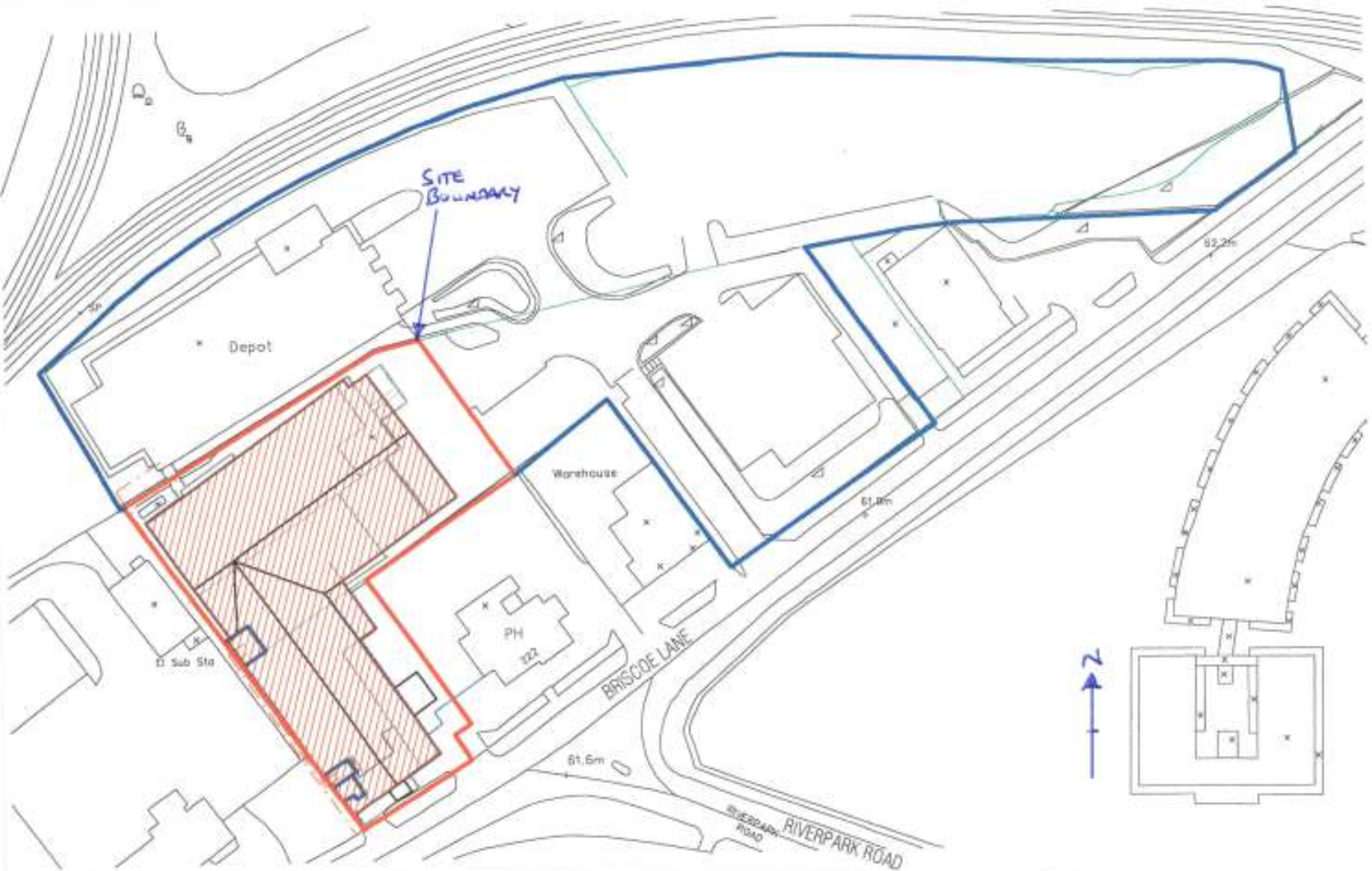
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Figure No.

CASSEL & FLETCHER CONSTRUCTION LIMITED

1:1,250

2



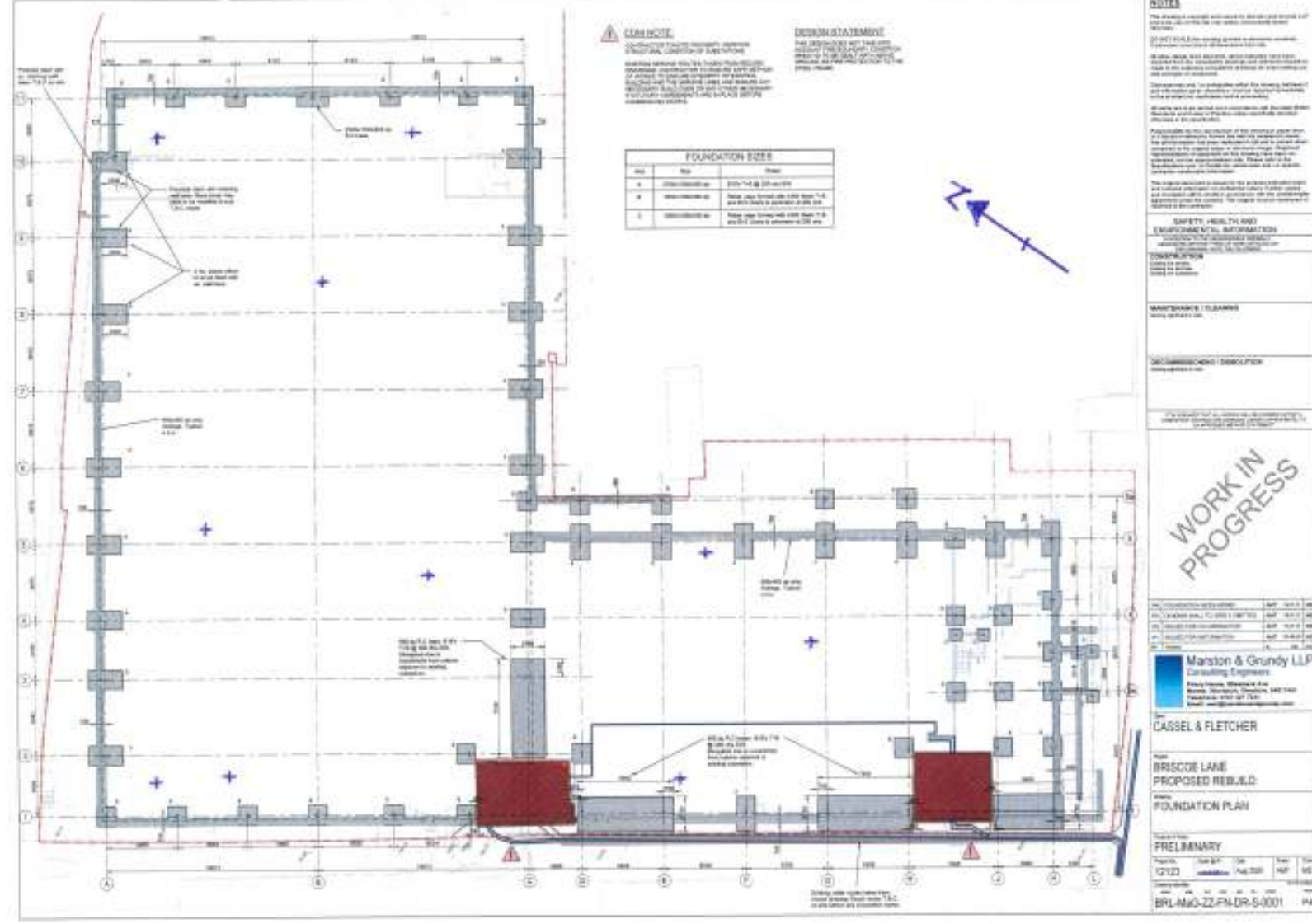
SUB SURFACE

SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
3 Pine Street, Preston, PR2 20S. Tel: (01773) 561135. Fax (01773) 206907

ARKADY INDUSTRIAL ESTATE, BRISCOE LANE,
NEWTON HEATH, GREATER MANCHESTER
CASSEL & FLETCHER CONSTRUCTION LIMITED

Proposed Development Layout Plan

036 Drawn	03-Apr-20	Date Checked	1 / 1	Job No.	6921A
Drawn by	AJP	Checked by	Scale	Figure No.	3
			1:1,250		



SUB SURFACE

SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
3 Peel Street, Preston, PR2 2GS Tel: (01772) 561135 Fax: (01772) 204907

ARKADY INDUSTRIAL ESTATE, BRISCOE LANE,
NEWTON HEATH, GREATER MANCHESTER

Client

CASSEL & FLETCHER CONSTRUCTION LIMITED

Proposed Foundation Layout Plan

Date Drawn

11-Mar-21

Date Checked

1 / 1

Job No

6921C

Drawn By

AJP

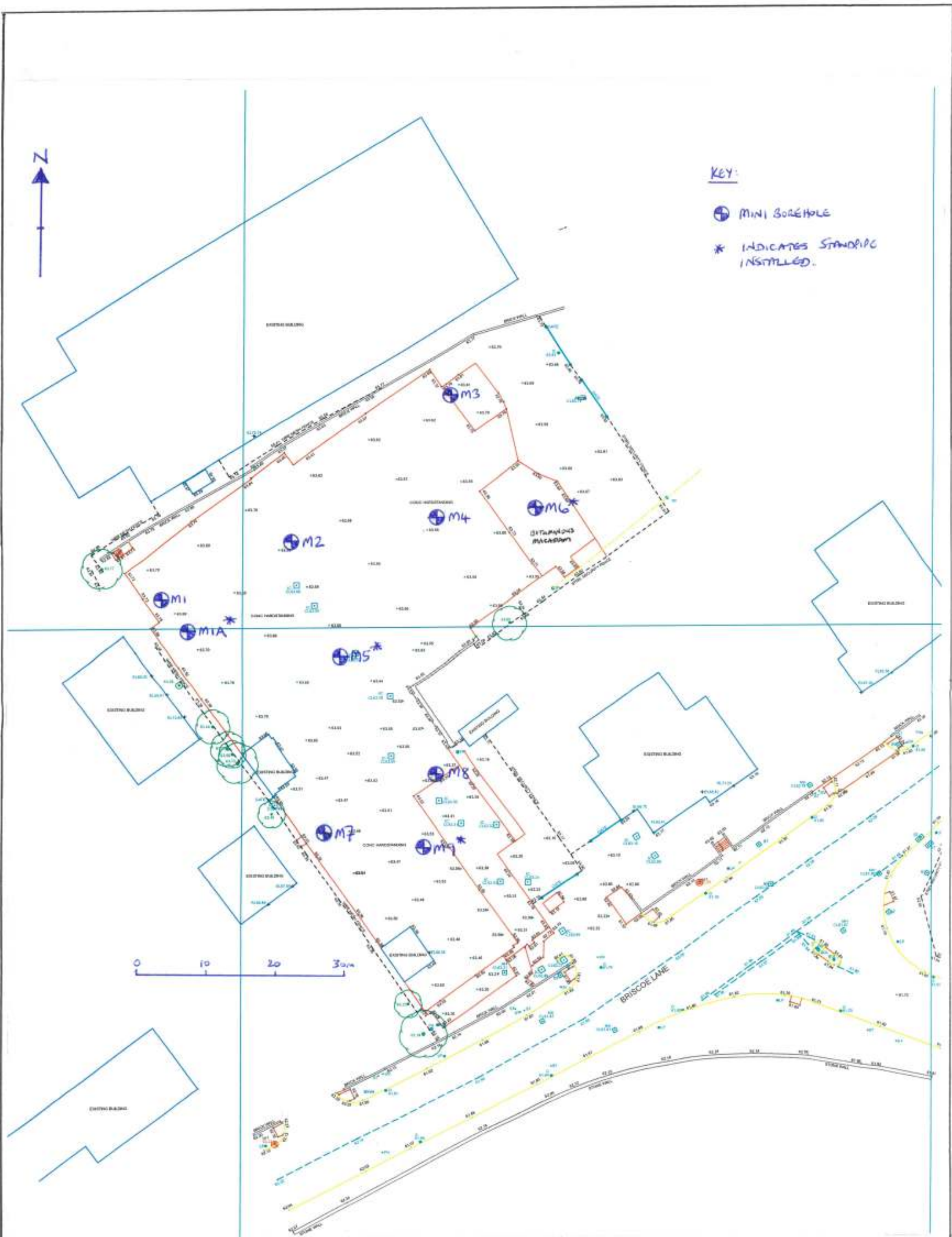
Checked By

Scale

1:500

Figure No

4



SUB SURFACE

SITE INVESTIGATION AND SPECIALIST GEOTECHNICAL CONSULTANTS
3 Peel Street, Preston, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907

Site
**ARKADY INDUSTRIAL ESTATE, BRISCOE LANE,
NEWTON HEATH, GREATER MANCHESTER**

Client
CASSEL & FLETCHER CONSTRUCTION LIMITED

Exploratory Hole Location Plan

Date Drawn 11-Mar-21	Date Checked	Sheet 1 / 1	Job No. 6921C
Drawn By AJP	Checked By	Scale 1:500 (at A3)	Figure No. 5