

TEST REPORT

Client Earth Environmental & Geotechnical Ltd

Address Houldsworth Mill Business & Arts Centre
Houldsworth Mill
Reddish
Stockport
SK5 6DA

Contract A6184 -
3 Sunningdale Avenue, Whitefield

Job Number MRN 25001/2
Date of Issue 02 January 2025
Pages 1 of 6

Approved Signatories

S J Hutchings, O P Davies

Notes

- 1 All remaining samples and remnants from this contract will be disposed 28 days from the date of this report unless you notify us to the contrary.
- 2 Result certificates, in this report, not bearing a UKAS mark, are not included in our UKAS accreditation schedule.
- 3 Opinions and interpretations expressed herein are outside the scope of our UKAS accreditation.
- 4 Certified that the samples have been examined and tested in accordance with the terms of the contract/order and unless otherwise stated conform to the standards/specifications quoted.
- 5 The results included within the report are representative of the samples submitted for analysis.
- 6 This certificate should not be reproduced, except in full, without the express permission of the laboratory.



Andrew House, Hadfield Street, Dukinfield, Cheshire SK16 4QX Tel: 0161 475 0870
Email: enquiries@murrayrix.com Website: www.murrayrix.com

Also at: London: 020 8523 1999

Murray Rix is the trading name of Murray Rix (Northern) Limited. Registered in England 2878361

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

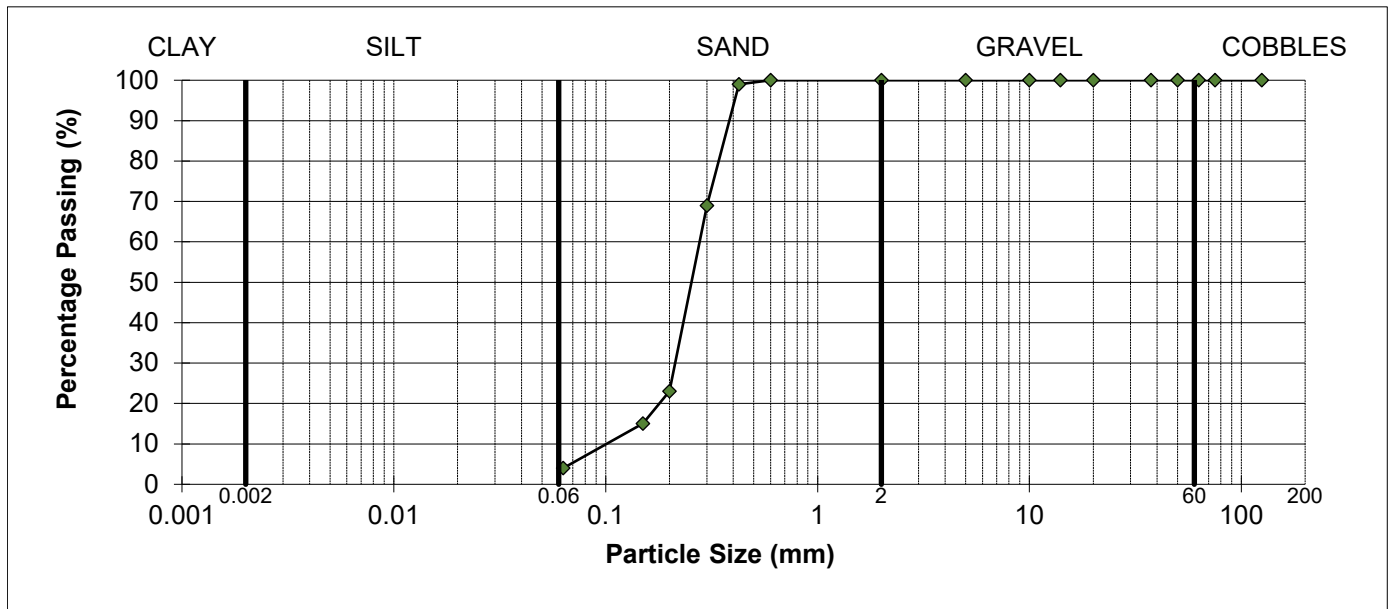
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	Earth Environmental & Geotechnical Ltd
SITE	A6184 - 3 Sunningdale Avenue, Whitefield
JOB NUMBER	MRN 25001/2

SAMPLE LABEL	WS01 @ 3.00	DATE SAMPLED	27-Nov-24
LAB SAMPLE No	607402	DATE RECEIVED	29-Nov-24
DATE TESTED	06-Dec-24	SAMPLED BY	Client

MATERIAL	Brown slightly silty fine to medium SAND
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		5	100	
75	100		2	100	
63	100		0.6	100	
50	100		0.425	99	
37.5	100		0.3	69	
20	100		0.2	23	
14	100		0.15	15	
10	100		0.063	4	



REMARKS

SIGNED



NAME

O.P. Davies BA (Hons)
(Director / Head of Laboratory)

DATE

02-Jan-25

MURRAY RIX
ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870

TEST CERTIFICATE
PARTICLE SIZE DISTRIBUTION

BS EN ISO 17892-4:2016

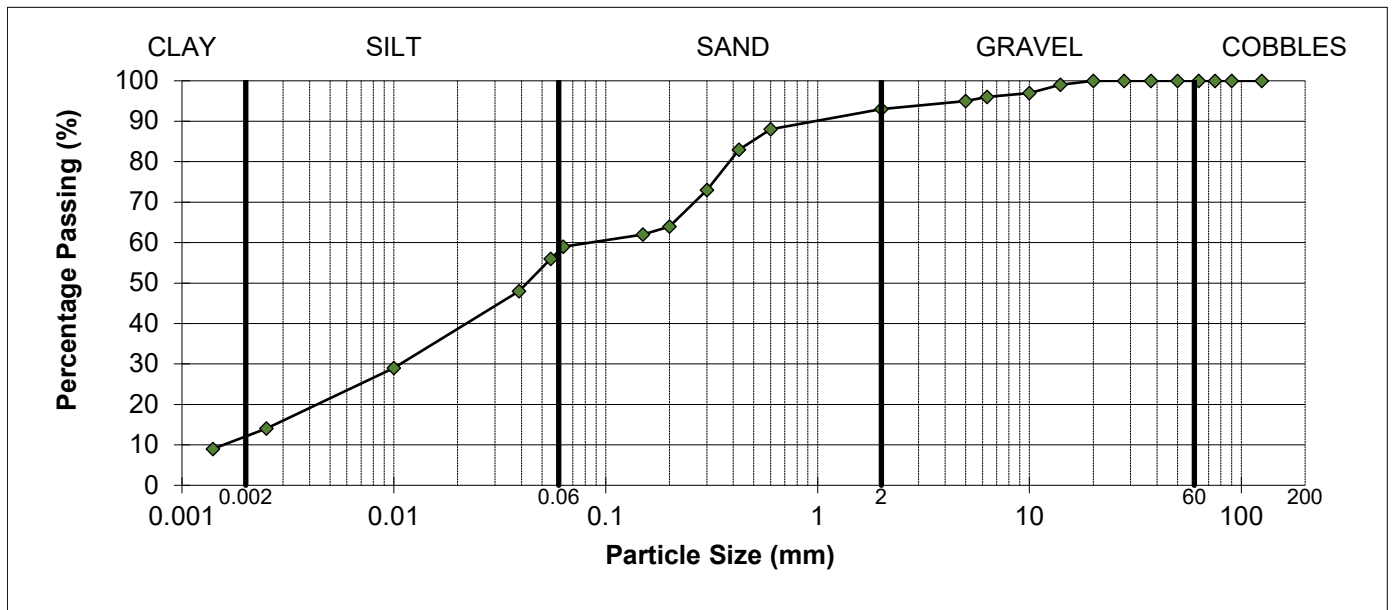
Determination of Water Content in accordance with BS EN ISO 17892-1:2014+A1:2022 (Oven Dry)

CLIENT	Earth Environmental & Geotechnical Ltd
SITE	A6184 - 3 Sunningdale Avenue, Whitefield
JOB NUMBER	MRN 25001/2

SAMPLE LABEL	WS03 @ 0.50	DATE SAMPLED	27-Nov-24
LAB SAMPLE No	607408	DATE RECEIVED	29-Nov-24
DATE TESTED	04-Dec-24	SAMPLED BY	Client

MATERIAL	Brown silty very sandy slightly gravelly CLAY
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		2	93	
90	100		0.6	88	
75	100		0.425	83	
63	100		0.3	73	
50	100		0.2	64	
37.5	100		0.15	62	
28	100		0.063	59	
20	100		0.055	56	
14	99		0.039	48	
10	97		0.01	29	
6.3	96		0.0025	14	
5	95		0.0014	9	



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TEST CERTIFICATE

LIQUID LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.3 (30° FALL CONE) 1 POINT METHOD

PLASTIC LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.5

WATER CONTENT METHOD BS EN ISO 17892-1:2014+A1:2022

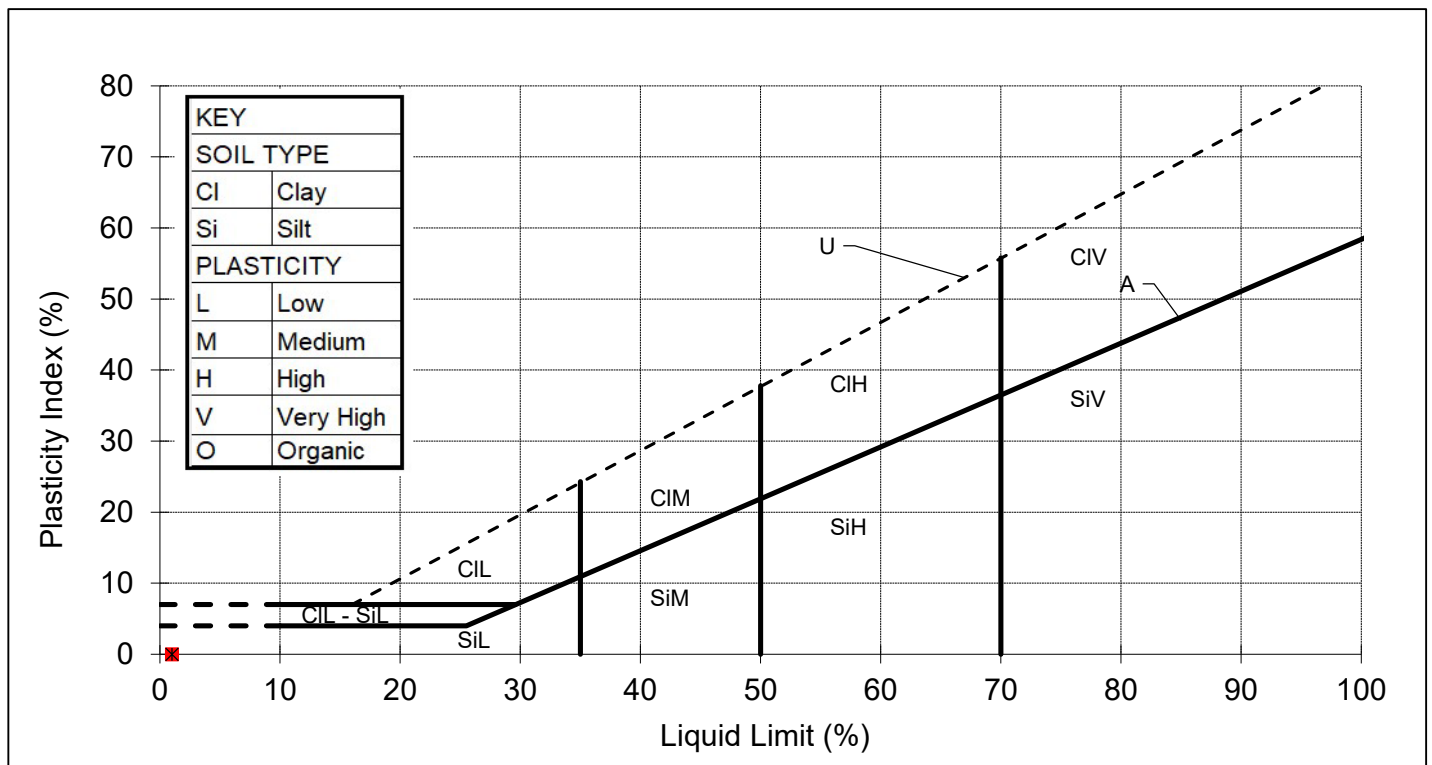
CLIENT	Earth Environmental & Geotechnical Ltd
SITE	A6184 - 3 Sunningdale Avenue, Whitefield
JOB NUMBER	MRN 25001/2

SAMPLE LABEL	WS01 @ 2.20	DATE SAMPLED	27-Nov-24
SAMPLE No.	607401	DATE RECEIVED	29-Nov-24
DATE TESTED	09-Dec-24	SAMPLED BY	Client

MATERIAL	Brown slightly clayey slightly sandy SILT		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
SAMPLE HISTORY	Natural State	% RET. 425um BY	Wet Sieved

Test Readings mm (average)		Water Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	N/A	N/A	N/A	
Determination 2 (avg)	N/A	N/A		

Natural Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
22.6	N/A	Non Plastic	N/A	97



REMARKS

Sample did contain some plastic material but due to the amount of fine sand and silt was found to be non plastic.

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TEST CERTIFICATE

LIQUID LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.3 (30° FALL CONE) 1 POINT METHOD

PLASTIC LIMIT BS EN ISO 17892-12:2018+A2:2022 Clause 5.5

WATER CONTENT METHOD BS EN ISO 17892-1:2014+A1:2022

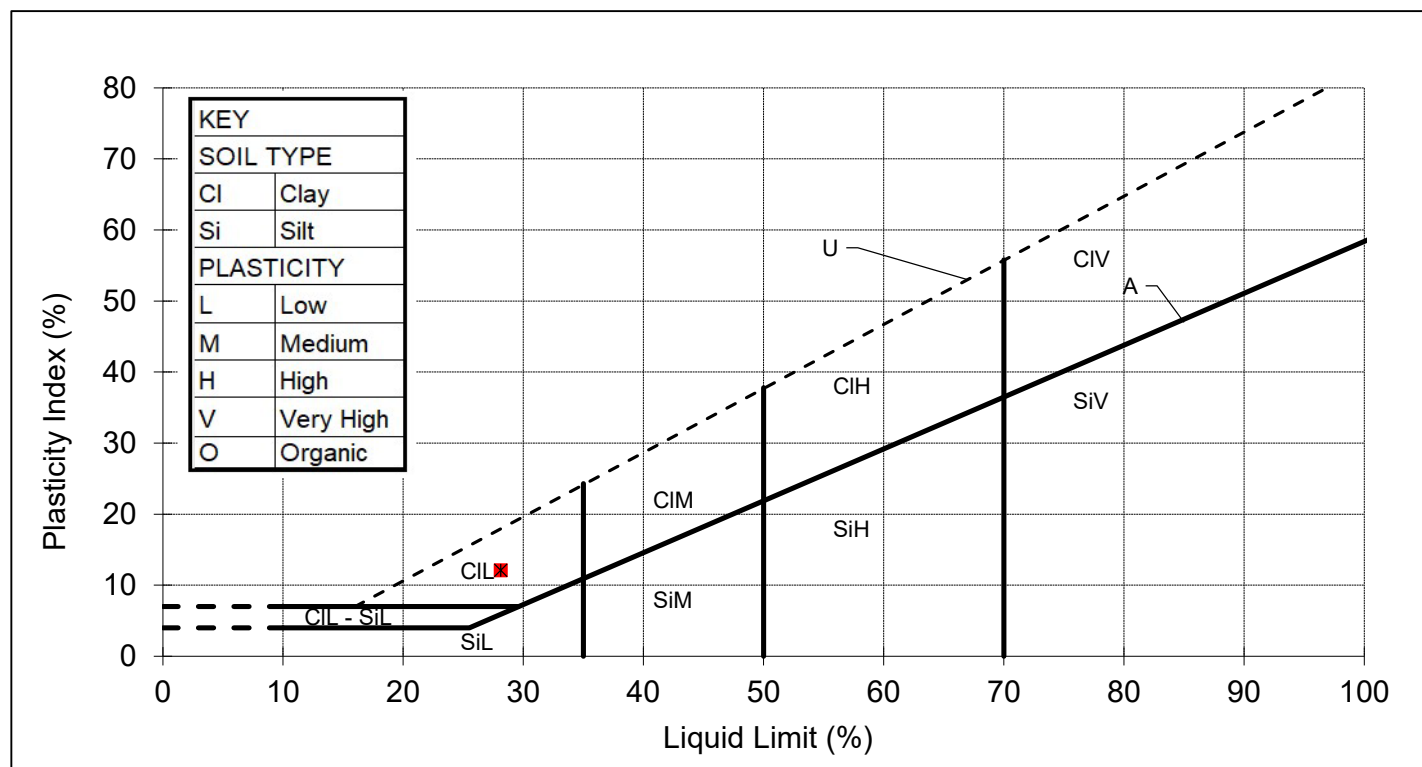
CLIENT	Earth Environmental & Geotechnical Ltd
SITE	A6184 - 3 Sunningdale Avenue, Whitefield
JOB NUMBER	MRN 25001/2

SAMPLE LABEL	WS01 @ 2.20	DATE SAMPLED	27-Nov-24
SAMPLE No.	607401	DATE RECEIVED	29-Nov-24
DATE TESTED	09-Dec-24	SAMPLED BY	Client

MATERIAL	Grey silty slightly sandy gravelly CLAY		
ADVISED SOURCE	Site Investigation Sample	WATER CONTENT	Increasing
SAMPLE HISTORY	Natural State	% RET. 425um BY	Wet Sieved

Test Readings mm (average)		Water Content %	Correction Factor	Correction factor from Clayton and Jukes 1978
Determination 1 (avg)	20.8	28.4	0.985	
Determination 2 (avg)	21.1	28.7		

Natural Water Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
21.1	28	16	12	94



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TEST CERTIFICATE

DETERMINATION OF WATER-SOLUBLE SULPHATE IN SOIL
& DETERMINATION OF THE pH VALUE
BS 1377-3:2018+A1:2021, Cl. 7.3 & Cl. 12

CLIENT	Earth Environmental & Geotechnical Ltd
SITE	A6184 - 3 Sunningdale Avenue, Whitefield
JOB NUMBER	MRN 25001/2

DATE TESTED	11-Dec-24	DATE SAMPLED	27-Nov-24
SAMPLED BY	Client	DATE RECEIVED	29-Nov-24
PRE-TREATMENT	Air Dried	ADVISED SOURCE	Site Investigation Samples

Sample Number	Sample Label	Material	% Ret. 2mm	pH Value	Water Soluble Sulphate as SO ₄ (mg/l)
607404	WS02 @ 0.60	Brown silty slightly gravelly SAND	3	7.9	190
607405	WS02 @ 2.80	Brown silty slightly gravelly SAND	4	7.6	220
607408	WS03 @ 0.50	Brown silty very sandy slightly gravelly CLAY	7	7.1	130

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