

Appendix F

TEST REPORT

Client iD GeoEnvironmental Ltd

Address Caledonian House
Tatton Street
Knutsford
WA16 6AG

Contract 5237 -
Bury Market

Job Number MRN 4296/4
Date of Issue 11 April 2022
Pages 1 of 22

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.

MURRAY RIX

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

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.5: 1990

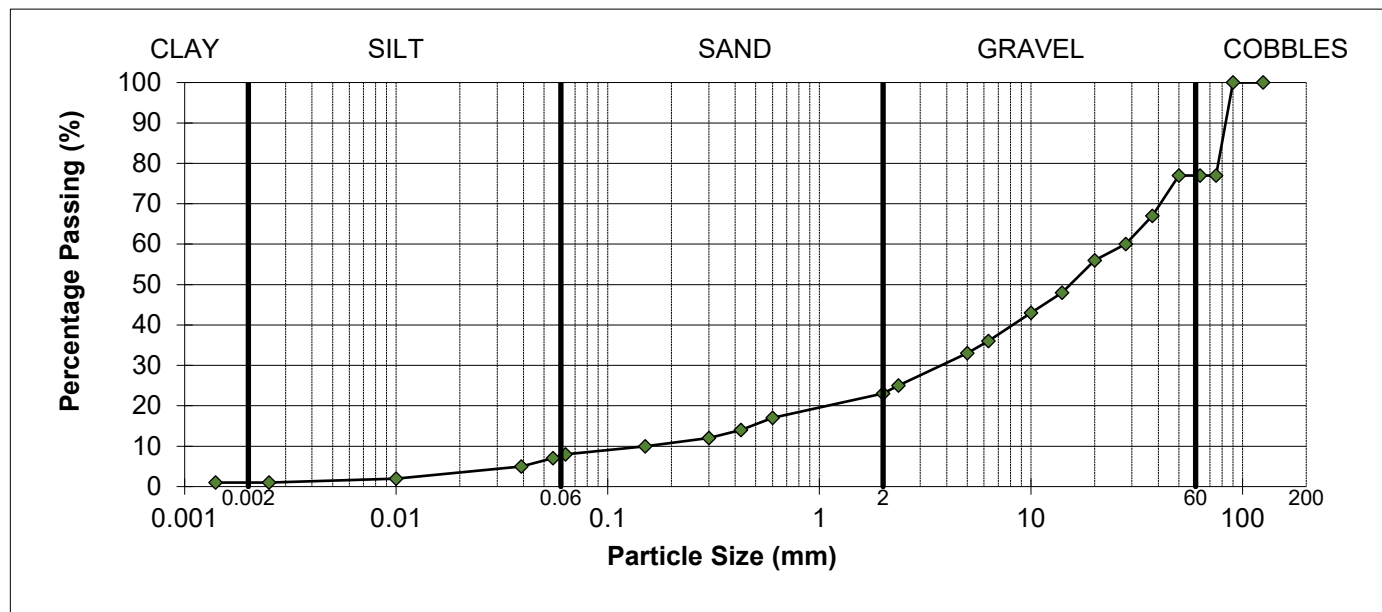
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	BH01 4.00 B	DATE SAMPLED	28-Feb-22
LAB SAMPLE No	110032	DATE RECEIVED	04-Mar-22
DATE TESTED	11-Mar-22	SAMPLED BY	Client

MATERIAL	Dark brown slightly clayey silty sandy GRAVEL
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		2.36	25	
90	100		2	23	
75	77		0.6	17	
63	77		0.425	14	
50	77		0.3	12	
37.5	67		0.15	10	
28	60		0.063	8	
20	56		0.055	7	
14	48		0.039	5	
10	43		0.01	2	
6.3	36		0.0025	1	
5	33		0.0014	1	



REMARKS

As received moisture content = 10%

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

11-Apr-22

MURRAY RIX

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

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.5: 1990

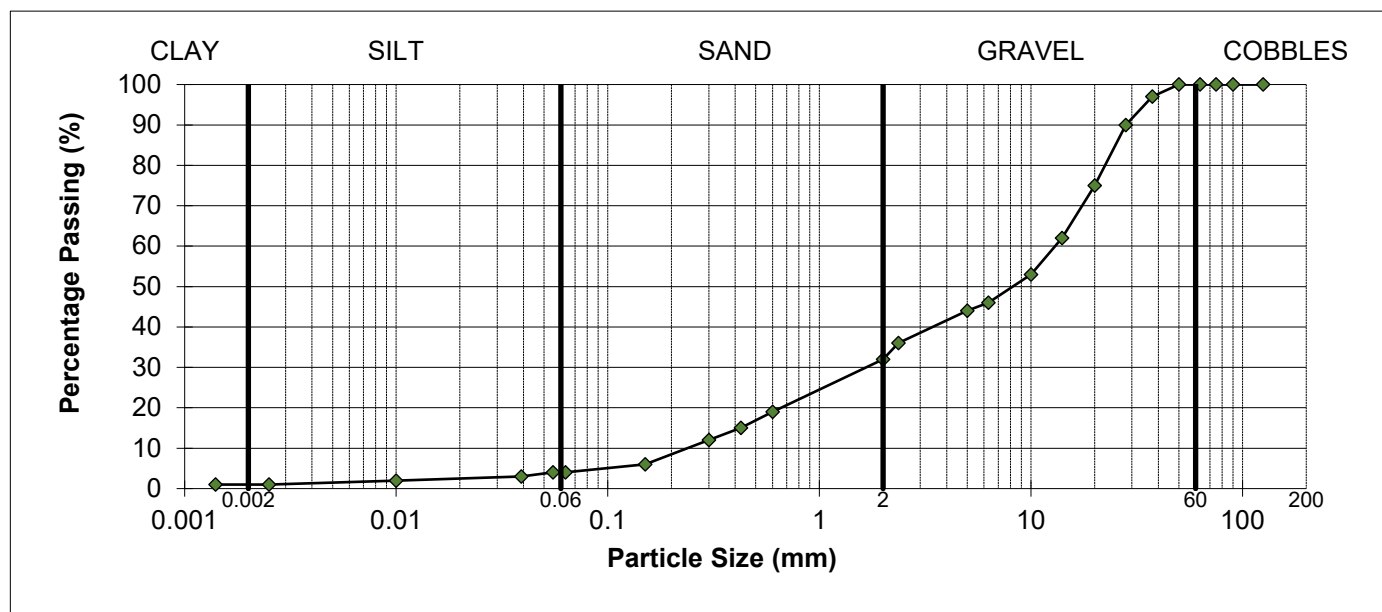
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	BH01 7.00 B	DATE SAMPLED	28-Feb-22
LAB SAMPLE No	110030	DATE RECEIVED	04-Mar-22
DATE TESTED	11-Mar-22	SAMPLED BY	Client

MATERIAL	Dark brown slightly clayey slightly silty sandy GRAVEL
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		2.36	36	
90	100		2	32	
75	100		0.6	19	
63	100		0.425	15	
50	100		0.3	12	
37.5	97		0.15	6	
28	90		0.063	4	
20	75		0.055	4	
14	62		0.039	3	
10	53		0.01	2	
6.3	46		0.0025	1	
5	44		0.0014	1	



REMARKS

As received moisture content = 8.1%

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

11-Apr-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
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TEST CERTIFICATE

LIQUID AND PLASTIC LIMIT

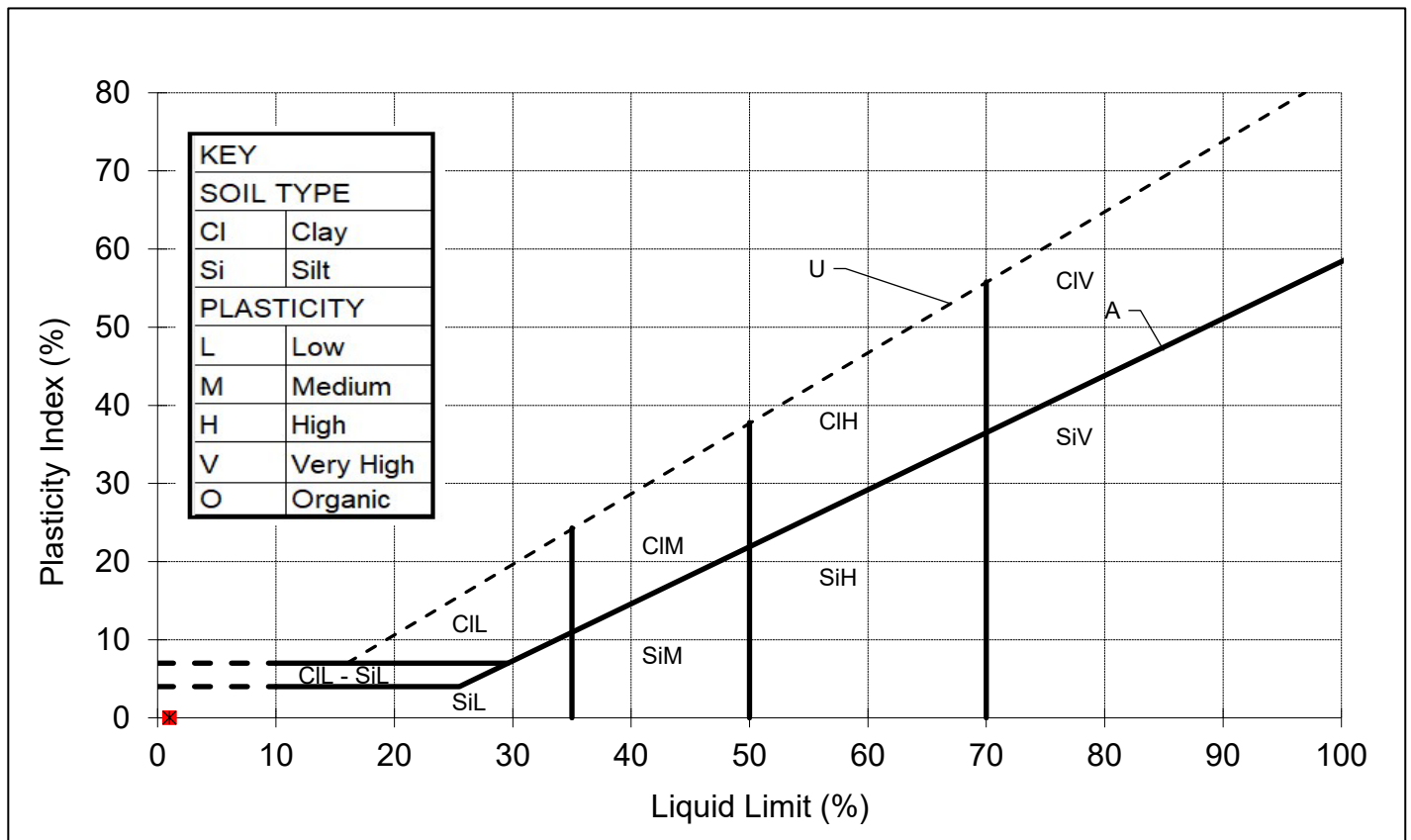
BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	BH01 7.00 B	DATE SAMPLED	28-Feb-22
SAMPLE No.	110030	DATE RECEIVED	04-Mar-22
DATE TESTED	11-Mar-22	SAMPLED BY	Client

MATERIAL	Dark brown slightly clayey slightly silty sandy GRAVEL
ADVISED SOURCE	Site Investigation Sample

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
8.1	N/A	Non Plastic	N/A	15



REMARKS

Sample tested after wet sieving

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

11-Apr-22

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

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.5: 1990

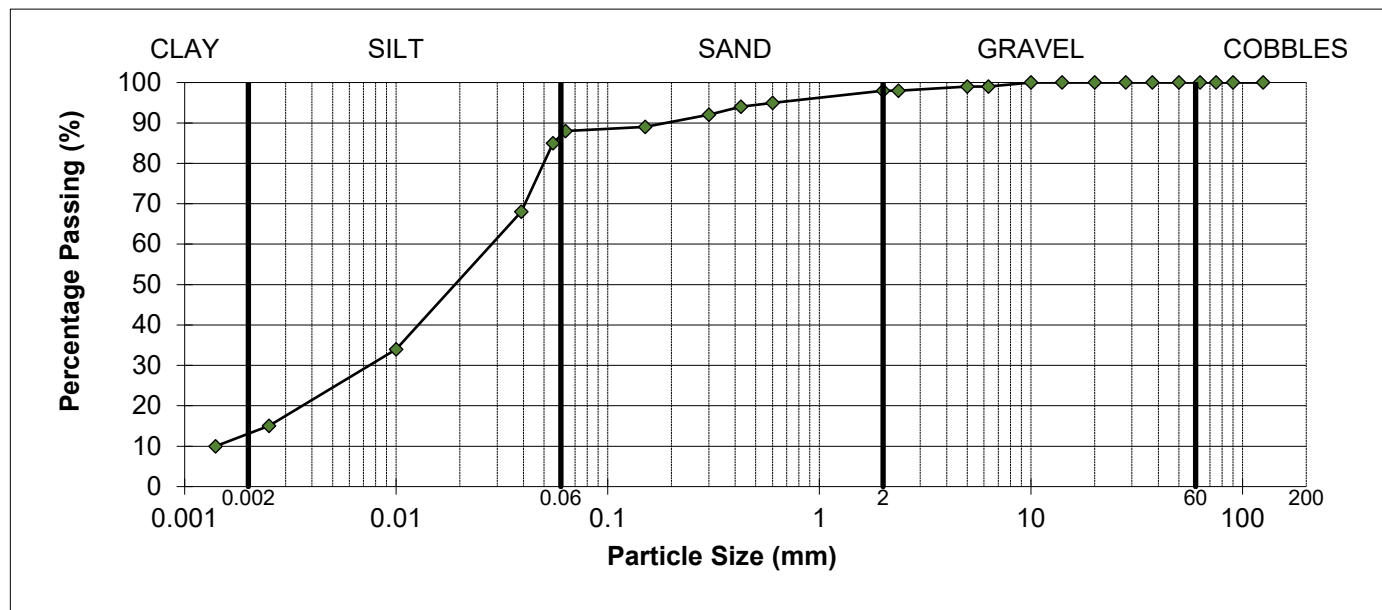
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	BH01 13.00 B	DATE SAMPLED	28-Feb-22
LAB SAMPLE No	110013	DATE RECEIVED	04-Mar-22
DATE TESTED	11-Mar-22	SAMPLED BY	Client

MATERIAL	Firm dark brown silty sandy CLAY with rare gravel
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		2.36	98	
90	100		2	98	
75	100		0.6	95	
63	100		0.425	94	
50	100		0.3	92	
37.5	100		0.15	89	
28	100		0.063	88	
20	100		0.055	85	
14	100		0.039	68	
10	100		0.01	34	
6.3	99		0.0025	15	
5	99		0.0014	10	



REMARKS

As received moisture content = 17%

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

11-Apr-22

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DUKINFIELD, CHESHIRE SK16 4QX
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TEST CERTIFICATE

LIQUID AND PLASTIC LIMIT

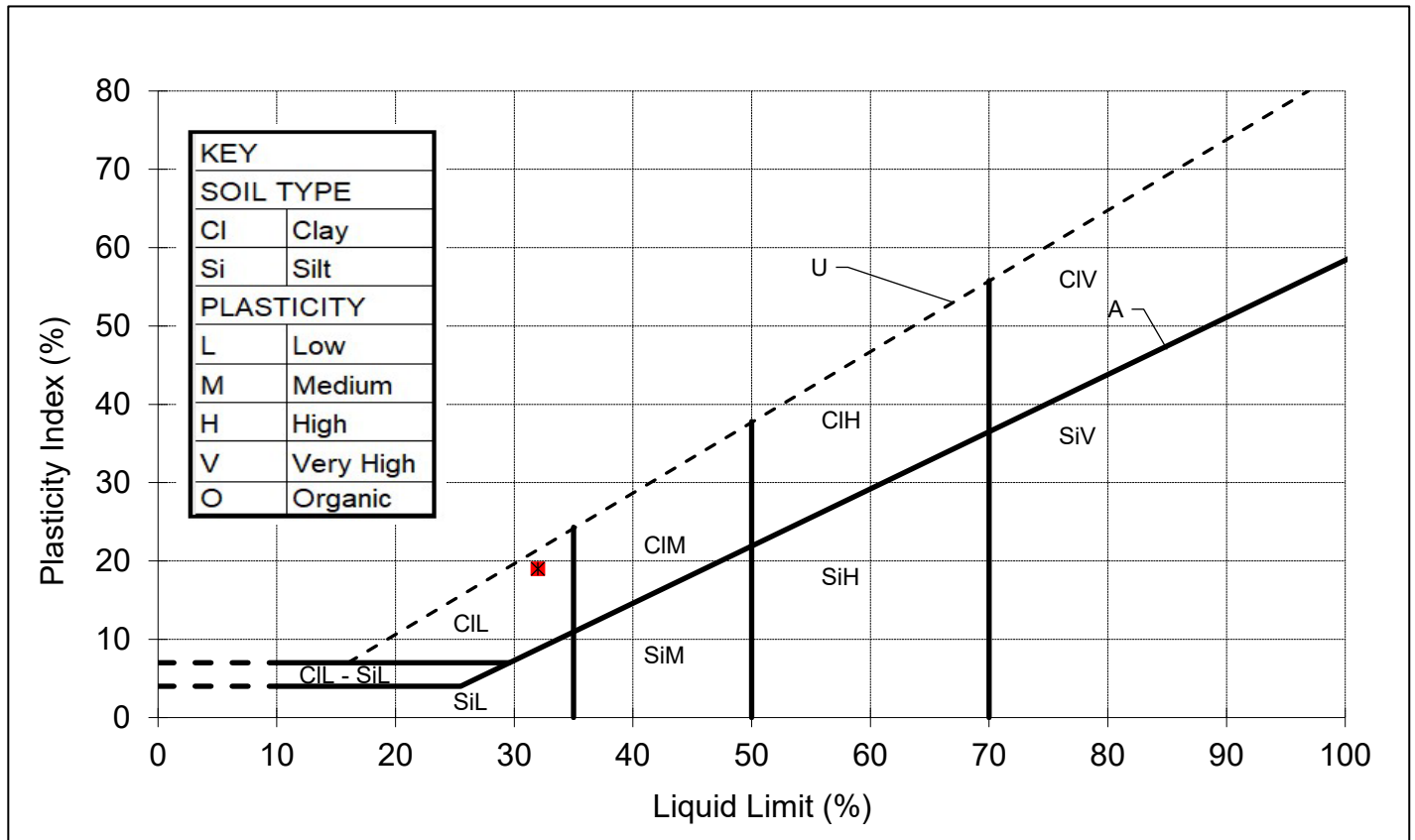
BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	BH01 13.00 B	DATE SAMPLED	28-Feb-22
SAMPLE No.	110013	DATE RECEIVED	04-Mar-22
DATE TESTED	11-Mar-22	SAMPLED BY	Client

MATERIAL	Firm dark brown silty sandy CLAY with rare gravel
ADVISED SOURCE	Site Investigation Sample

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
17	32	13	19	94



REMARKS

Sample tested in natural condition

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

11-Apr-22

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DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.5: 1990

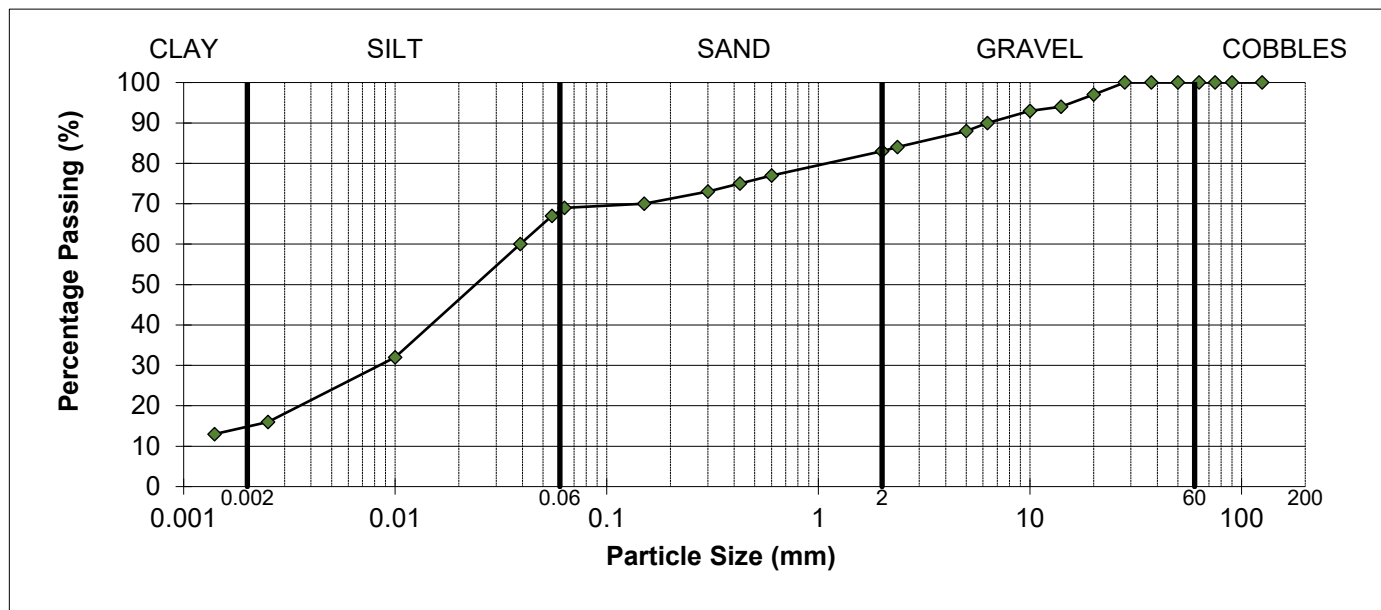
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	BH01 14.40 B	DATE SAMPLED	28-Feb-22
LAB SAMPLE No	110029	DATE RECEIVED	04-Mar-22
DATE TESTED	11-Mar-22	SAMPLED BY	Client

MATERIAL	Stiff grey silty sandy CLAY with occasional gravel
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		2.36	84	
90	100		2	83	
75	100		0.6	77	
63	100		0.425	75	
50	100		0.3	73	
37.5	100		0.15	70	
28	100		0.063	69	
20	97		0.055	67	
14	94		0.039	60	
10	93		0.01	32	
6.3	90		0.0025	16	
5	88		0.0014	13	



REMARKS

As received moisture content = 10%

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

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TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.5: 1990

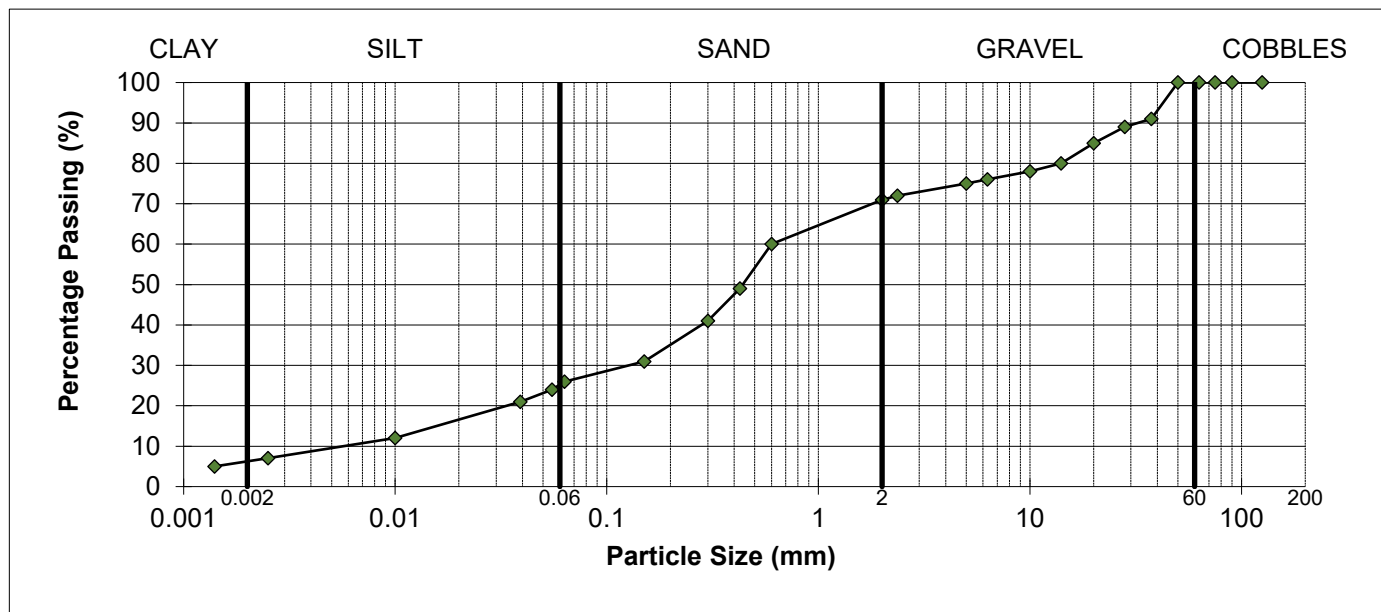
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	BH02 2.30 B	DATE SAMPLED	02-Mar-22
LAB SAMPLE No	110028	DATE RECEIVED	04-Mar-22
DATE TESTED	11-Mar-22	SAMPLED BY	Client

MATERIAL	Brown clayey silty SAND & GRAVEL
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		2.36	72	
90	100		2	71	
75	100		0.6	60	
63	100		0.425	49	
50	100		0.3	41	
37.5	91		0.15	31	
28	89		0.063	26	
20	85		0.055	24	
14	80		0.039	21	
10	78		0.01	12	
6.3	76		0.0025	7	
5	75		0.0014	5	



REMARKS

As received moisture content = 15%

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

11-Apr-22

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TEST CERTIFICATE

LIQUID AND PLASTIC LIMIT

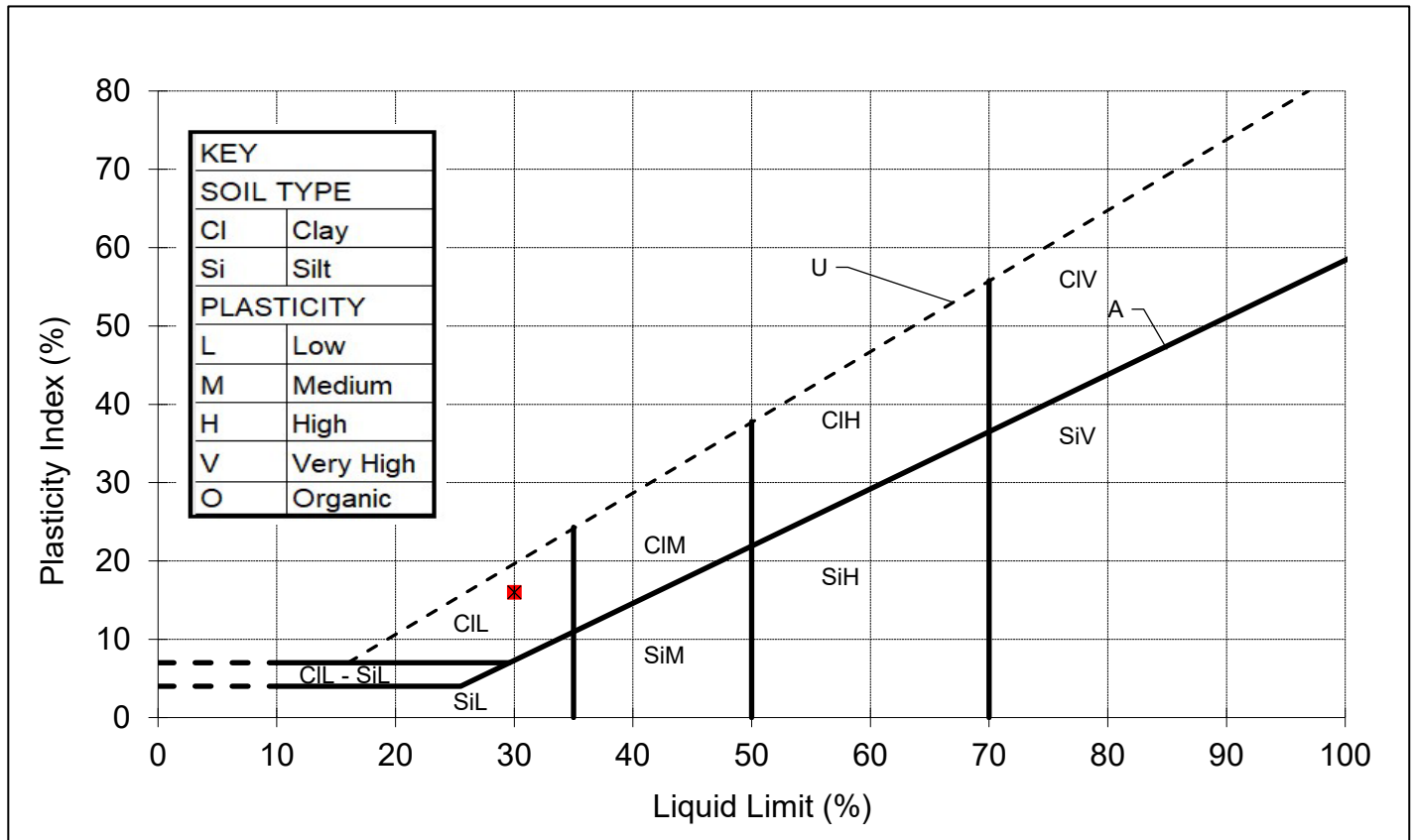
BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	BH02 6.50 B	DATE SAMPLED	02-Mar-22
SAMPLE No.	110037	DATE RECEIVED	04-Mar-22
DATE TESTED	11-Mar-22	SAMPLED BY	Client

MATERIAL	Stiff brown silty sandy CLAY
ADVISED SOURCE	Site Investigation Sample

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
14	30	14	16	99



REMARKS

Sample tested in natural condition

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

11-Apr-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
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TEST CERTIFICATE

DETERMINATION OF THE ONE-DIMENSIONAL CONSOLIDATION PROPERTIES

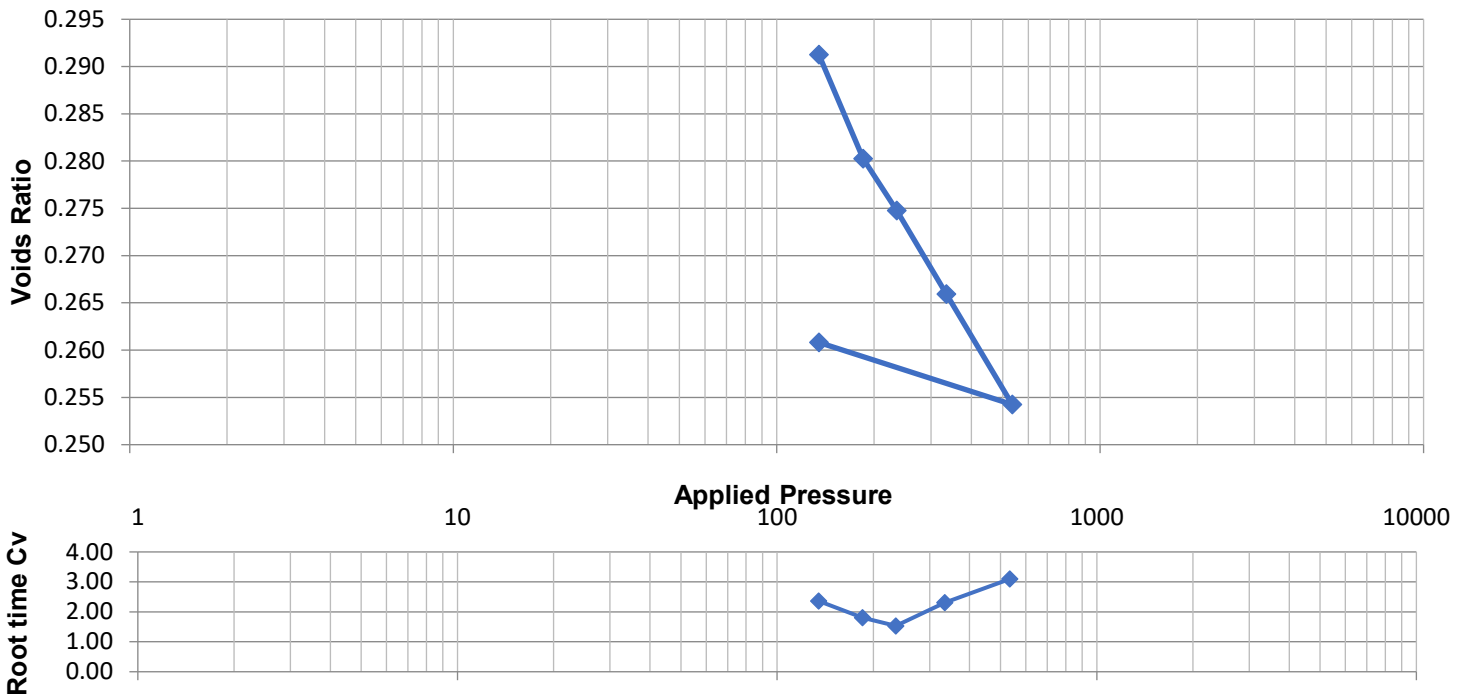
BS 1377 : PART 5 : Clause 3 : 1990

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	BH02 6.50 U	DATE SAMPLED	02-Mar-22
LAB SAMPLE No.	110037	DATE RECEIVED	04-Mar-22
DATE TESTED	23-Mar-22	SAMPLED BY	Client
MATERIAL	Stiff brown silty sandy CLAY		
ADVISED SOURCE	Site Investigation Sample		

Specimen Location		Sample Length (mm)	270	Specimen depth from top of Sample (mm)	20
		Sample Orientation	Vertical	Specimen Condition	Undisturbed

INITIAL CONDITIONS						Load No.	Applied Pressure kPa	Sample Height mm	Void Ratio	Mv m2/MN	Temp °C	Cv t90 root m2/yr	Cv t50 log m2/yr
						1	135	19.25	0.291	0.28	20	2.36	2.50
Height	20.0	mm	Particle density	2.67	Ass	2	185	19.09	0.280	0.17	20	1.81	1.74
Diameter	70.0	mm	Initial void ratio	0.34		3	235	19.01	0.275	0.09	20	1.53	1.75
Weight wet	175.3	g	Deg. of sat.	113	%	4	335	18.87	0.266	0.07	20	2.30	1.85
Moist. cont.	14	%	Swell. press.	5	kN/m2	5	535	18.70	0.254	0.05	20	3.10	3.99
Bulk Density	2.28	Mg/m3	Dry density	1.99	Mg/m3	6	135	18.80	0.261	0.01	20		
						7							



Remarks/Abnormalities

Name O.P Davies BA (Hons)
(Laboratory Manager)

Signed



Date 11 April 2022

MURRAY RIX

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

TEST CERTIFICATE

PARTICLE DENSITY DETERMINATION

BS 1377 : Part 2 : 1990 Clause 8.2
GAS JAR METHOD

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

METHOD OF PREPARATION	Oven Dry	VARIATIONS FROM PROCEDURE	None
DATE OF TEST	28-Mar-22	DATE SAMPLED	02-Mar-22

Laboratory Sample Number	Sample Label	Sample Location	Material	Particle Density (Mg/m ³)
110037	BH02 6.50 U	BH02	Stiff brown silty sandy CLAY	2.67
110038	BH02 12.50 U	BH02	Firm to stiff brown silty sandy CLAY with occasional gravel	2.66

Comment / Anomalies

Particle density reported is the average of two determinations

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

SIGNED



DATE

11-Apr-22

MURRAY RIX

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

TEST CERTIFICATE

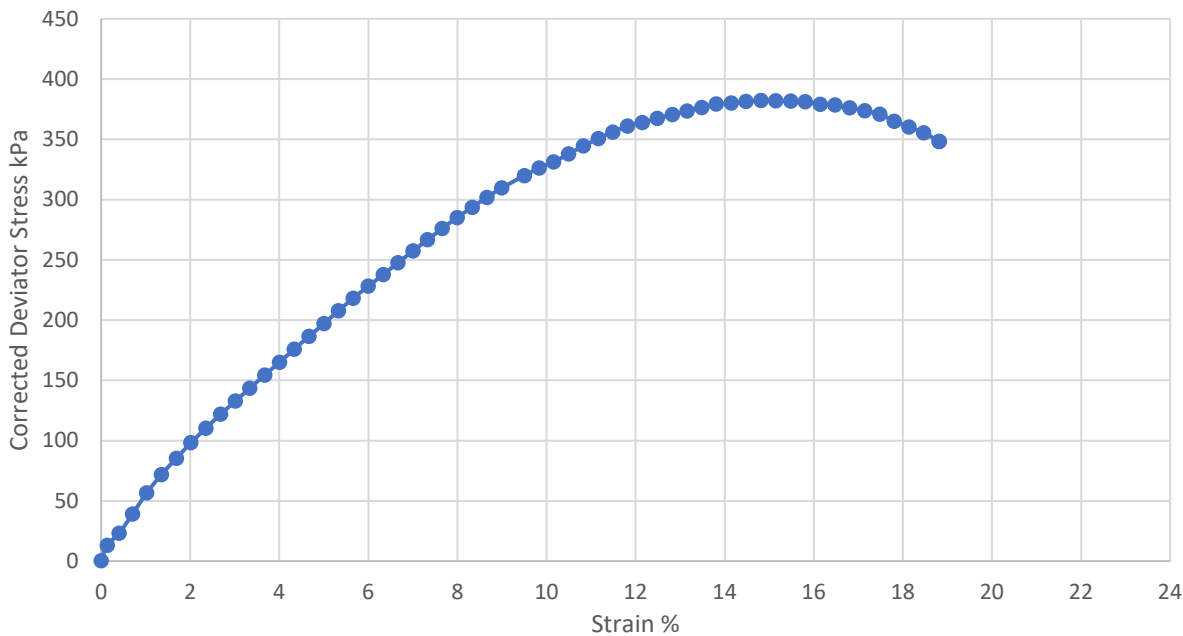
UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION
BS 1377 : PART 7: Clause 8 Single Stage

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	BH02 6.50 U	DATE SAMPLED	02-Mar-22
LAB SAMPLE No.	110037	DATE RECEIVED	04-Mar-22
DATE TESTED	23-Mar-22	SAMPLED BY	Client
MATERIAL	Stiff brown silty sandy CLAY		
ADVISED SOURCE	Site Investigation Sample		

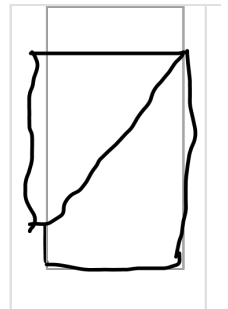
INITIAL CONDITIONS

Specimen Location		Sample Length (mm)	270	Specimen depth from top of Sample (mm)	60
		Sample Orientation	Vertical	Specimen Condition	Undisturbed
		Specimen Length (mm)	200	Specimen Moisture Content (%)	14
		Specimen Diameter (mm)	100	Specimen Bulk Density (Mg/m3)	2.28
		Membrane Thickness (mm)	0.4	Specimen Dry Density (Mg/m3)	1.99
		Membrane Correction	1.44		

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN

TEST TYPE
SINGLE STAGE

SKETCH OF
SPECIMEN AT
FAILURE



SIMPLE_SHEAR

Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength Cu (kPa)
135	15	2	382	191

Remarks/Abnormalities

Name O.P Davies BA (Hons)
(Laboratory Manager)

Signed



Date 11 April 2022

MURRAY RIX

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

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.5: 1990

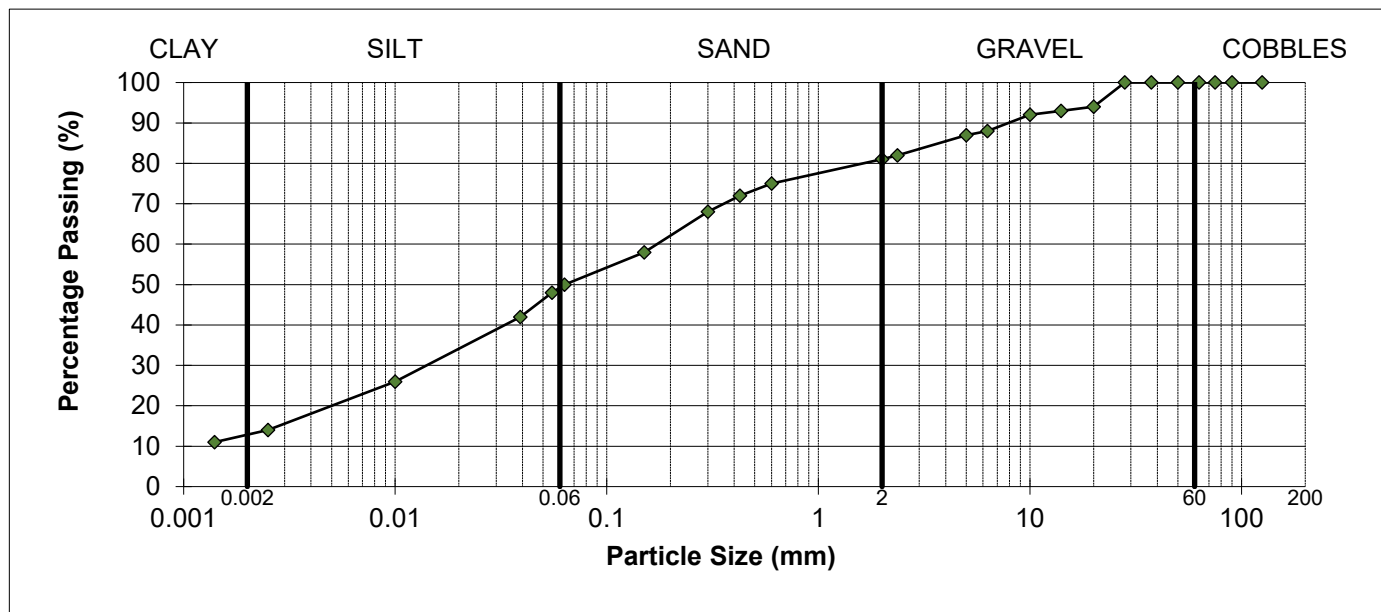
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	BH02 7.00 B	DATE SAMPLED	02-Mar-22
LAB SAMPLE No	110017	DATE RECEIVED	04-Mar-22
DATE TESTED	11-Mar-22	SAMPLED BY	Client

MATERIAL	Firm brown silty sandy CLAY with occasional gravel
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		2.36	82	
90	100		2	81	
75	100		0.6	75	
63	100		0.425	72	
50	100		0.3	68	
37.5	100		0.15	58	
28	100		0.063	50	
20	94		0.055	48	
14	93		0.039	42	
10	92		0.01	26	
6.3	88		0.0025	14	
5	87		0.0014	11	



REMARKS

As received moisture content = 15%

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

11-Apr-22

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.5: 1990

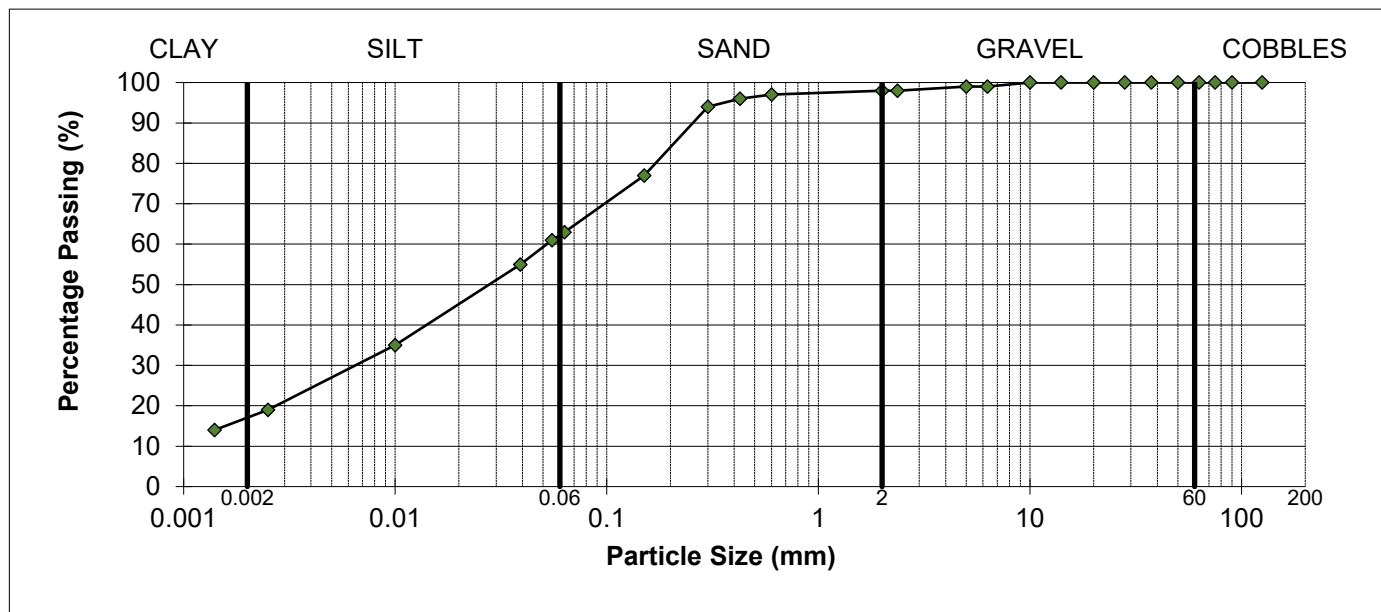
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	BH02 8.00 B	DATE SAMPLED	02-Mar-22
LAB SAMPLE No	110019	DATE RECEIVED	04-Mar-22
DATE TESTED	11-Mar-22	SAMPLED BY	Client

MATERIAL	Soft brown silty sandy CLAY with rare gravel
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		2.36	98	
90	100		2	98	
75	100		0.6	97	
63	100		0.425	96	
50	100		0.3	94	
37.5	100		0.15	77	
28	100		0.063	63	
20	100		0.055	61	
14	100		0.039	55	
10	100		0.01	35	
6.3	99		0.0025	19	
5	99		0.0014	14	



REMARKS

As received moisture content = 23%

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

11-Apr-22

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TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.5: 1990

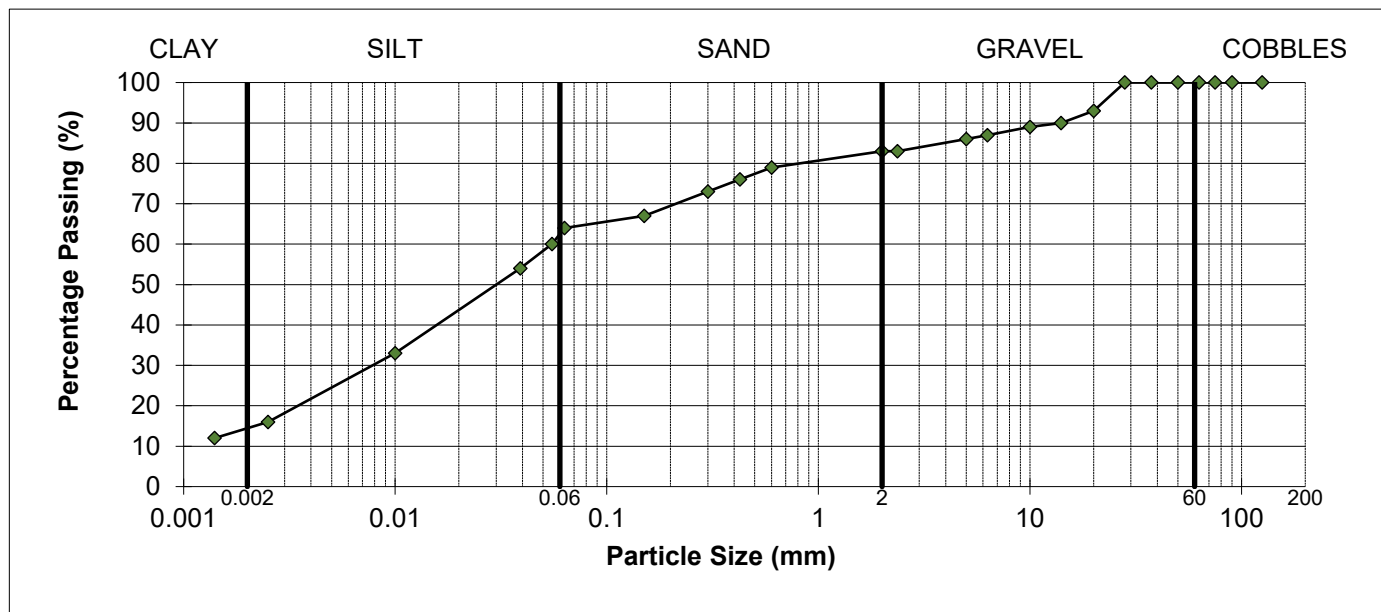
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	BH02 11.00 B	DATE SAMPLED	02-Mar-22
LAB SAMPLE No	110027	DATE RECEIVED	04-Mar-22
DATE TESTED	11-Mar-22	SAMPLED BY	Client

MATERIAL	Firm brown silty sandy CLAY with occasional gravel
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		2.36	83	
90	100		2	83	
75	100		0.6	79	
63	100		0.425	76	
50	100		0.3	73	
37.5	100		0.15	67	
28	100		0.063	64	
20	93		0.055	60	
14	90		0.039	54	
10	89		0.01	33	
6.3	87		0.0025	16	
5	86		0.0014	12	



REMARKS

As received moisture content = 14%

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

11-Apr-22

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TEST CERTIFICATE

LIQUID AND PLASTIC LIMIT

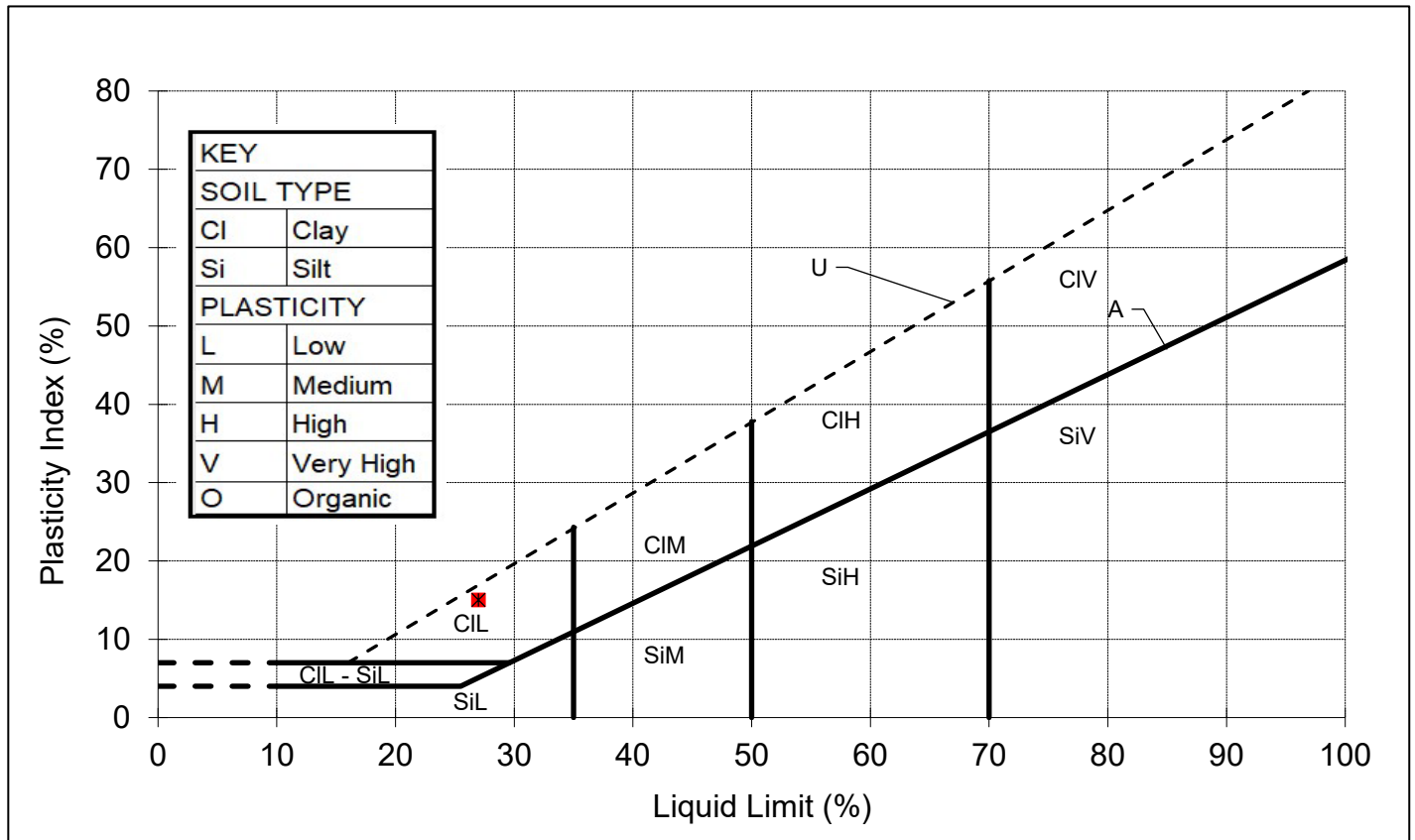
BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	BH02 12.50 B	DATE SAMPLED	02-Mar-22
SAMPLE No.	110038	DATE RECEIVED	04-Mar-22
DATE TESTED	11-Mar-22	SAMPLED BY	Client

MATERIAL	Firm to stiff brown silty sandy CLAY with occasional gravel
ADVISED SOURCE	Site Investigation Sample

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
11	27	12	15	71



REMARKS

Sample tested after wet sieving

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

11-Apr-22

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TEST CERTIFICATE

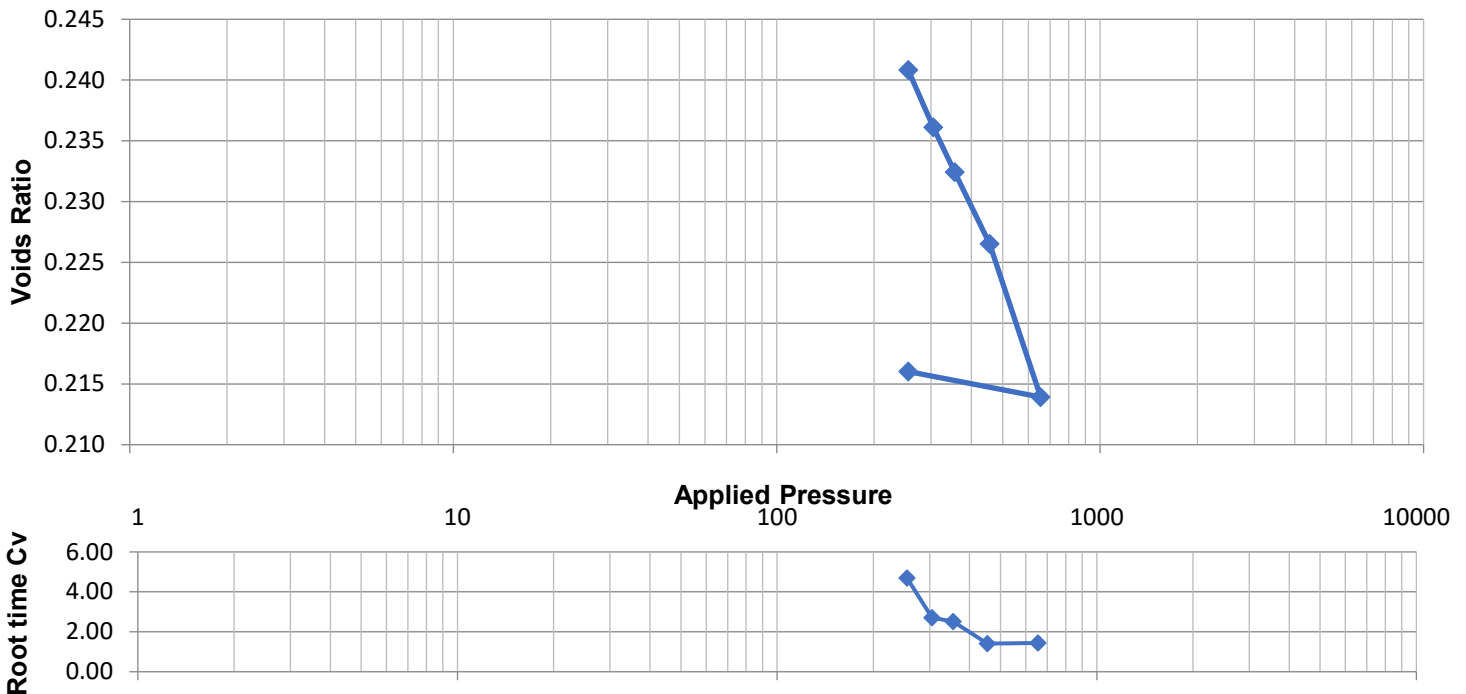
DETERMINATION OF THE ONE-DIMENSIONAL CONSOLIDATION PROPERTIES
BS 1377 : PART 5 : Clause 3 : 1990

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	BH02 12.50 U	DATE SAMPLED	02-Mar-22
LAB SAMPLE No.	110038	DATE RECEIVED	04-Mar-22
DATE TESTED	23-Mar-22	SAMPLED BY	Client
MATERIAL	Firm to stiff brown silty sandy CLAY with occasional gravel		
ADVISED SOURCE	Site Investigation Sample		

Specimen Location	Sample Length (mm)	270	Specimen depth from top of Sample (mm)	220
	Sample Orientation	Vertical	Specimen Condition	Undisturbed

INITIAL CONDITIONS					Load No.	Applied Pressure kPa	Sample Height mm	Voids Ratio	Mv m2/MN	Temp °C	Cv t90 root m2/yr	Cv t50 log m2/yr
Height	20.0 mm	Particle density	2.66	Ass	1	255	18.90	0.241	0.21	20	4.69	5.40
Diameter	70.0 mm	Initial void ratio	0.31		2	305	18.83	0.236	0.08	20	2.71	2.73
Weight wet	173.3 g	Deg. of sat.	94	%	3	355	18.78	0.232	0.06	20	2.52	2.04
Moist. cont.	11 %	Swell. press.	5	kN/m2	4	455	18.69	0.227	0.05	20	1.41	1.94
Bulk Density	2.25 Mg/m3	Dry density	2.03	Mg/m3	5	655	18.49	0.214	0.05	20	1.44	1.71
					6	255	18.53	0.216	0.00	20		
					7							



Remarks/Abnormalities

Name O.P Davies BA (Hons)
(Laboratory Manager)

Signed

Date 11 April 2022

MURRAY RIX

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

TEST CERTIFICATE

UNDRAINED SHEAR STRENGTH IN TRIAXIAL COMPRESSION

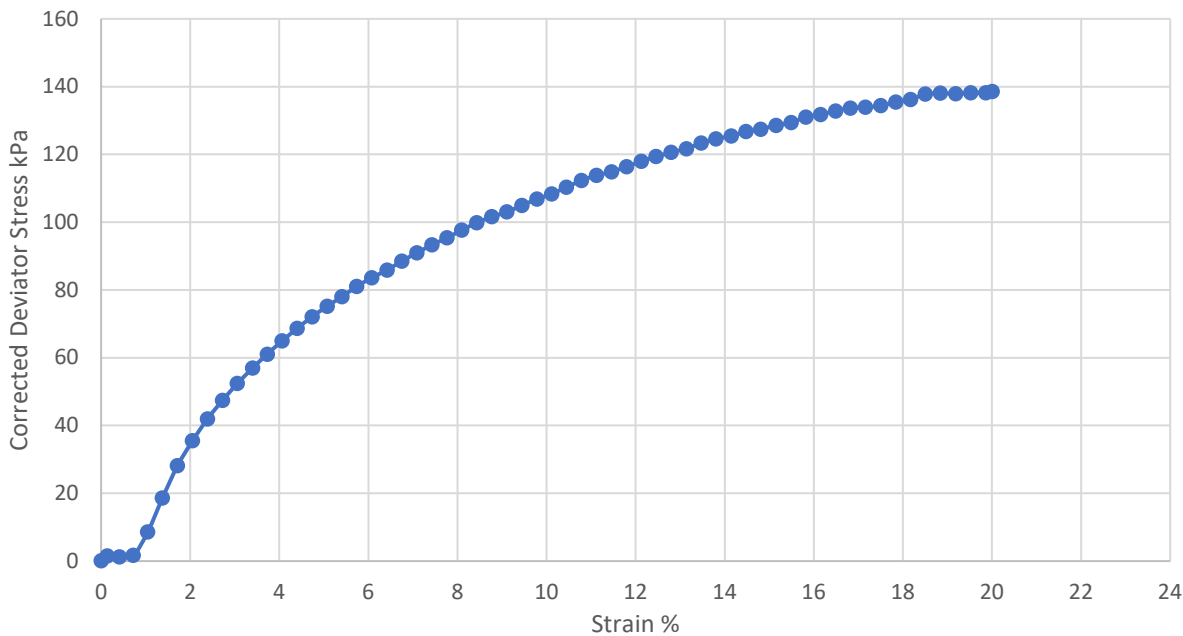
BS 1377 : PART 7: Clause 8 Single Stage

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	BH02 12.50 U	DATE SAMPLED	02-Mar-22
LAB SAMPLE No.	110038	DATE RECEIVED	04-Mar-22
DATE TESTED	23-Mar-22	SAMPLED BY	Client
MATERIAL	Firm to stiff brown silty sandy CLAY with occasional gravel		
ADVISED SOURCE	Site Investigation Sample		

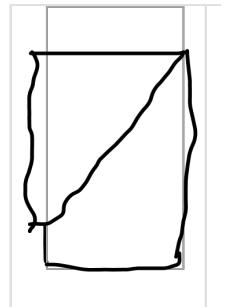
INITIAL CONDITIONS

Specimen Location		Sample Length (mm)	270	Specimen depth from top of Sample (mm)	20
		Sample Orientation	Vertical	Specimen Condition	Undisturbed
		Specimen Length (mm)	198	Specimen Moisture Content (%)	11
		Specimen Diameter (mm)	97	Specimen Bulk Density (Mg/m3)	2.25
		Membrane Thickness (mm)	0.4	Specimen Dry Density (Mg/m3)	2.02
		Membrane Correction	1.56		

CORRECTED DEVIATOR STRESS vs AXIAL STRAIN

TEST TYPE
SINGLE STAGE

SKETCH OF SPECIMEN AT FAILURE



SIMPLE_SHEAR

Cell Pressure (kPa)	Failure Strain (%)	Rate of Strain (%/min)	Corrected Deviator Stress (kPa)	Shear Strength Cu (kPa)
255	20	2	138	69

Remarks/Abnormalities

Name O.P Davies BA (Hons)
(Laboratory Manager)

Signed



Date 11 April 2022

MURRAY RIX

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

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.5: 1990

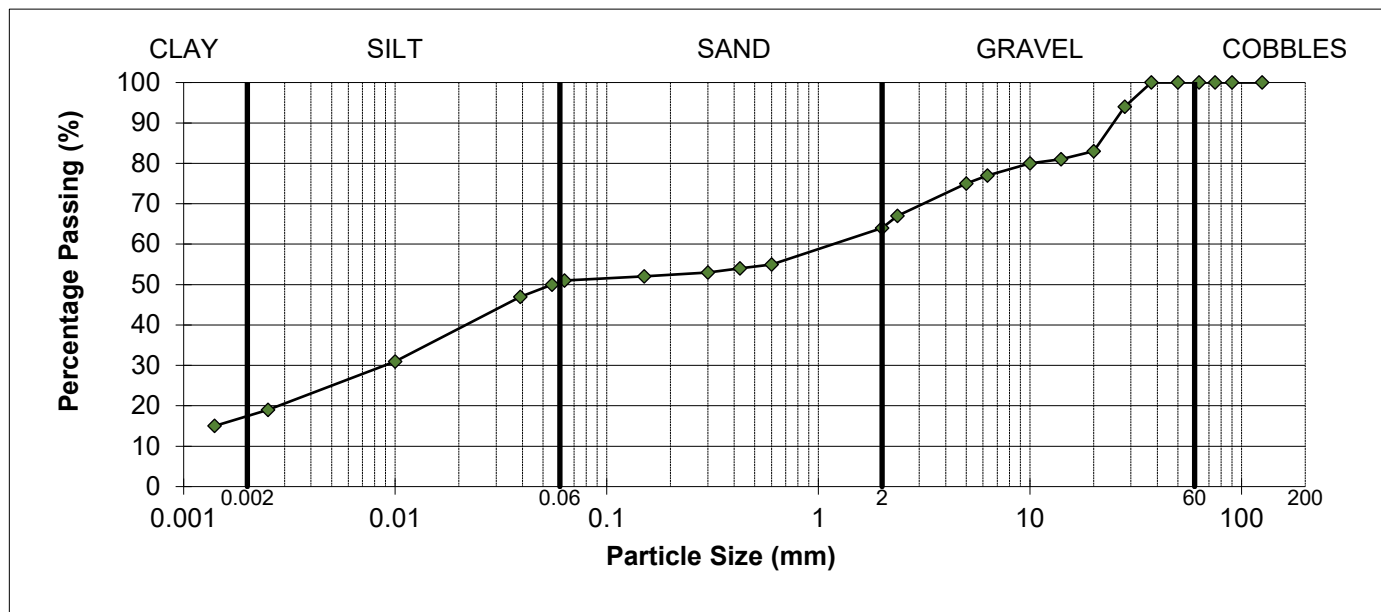
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	BH02 14.40 B	DATE SAMPLED	02-Mar-22
LAB SAMPLE No	110035	DATE RECEIVED	04-Mar-22
DATE TESTED	11-Mar-22	SAMPLED BY	Client

MATERIAL	Firm grey silty sandy CLAY with frequent gravel
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		2.36	67	
90	100		2	64	
75	100		0.6	55	
63	100		0.425	54	
50	100		0.3	53	
37.5	100		0.15	52	
28	94		0.063	51	
20	83		0.055	50	
14	81		0.039	47	
10	80		0.01	31	
6.3	77		0.0025	19	
5	75		0.0014	15	



REMARKS

As received moisture content = 9.8%

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

11-Apr-22

MURRAY RIX

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

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.5: 1990

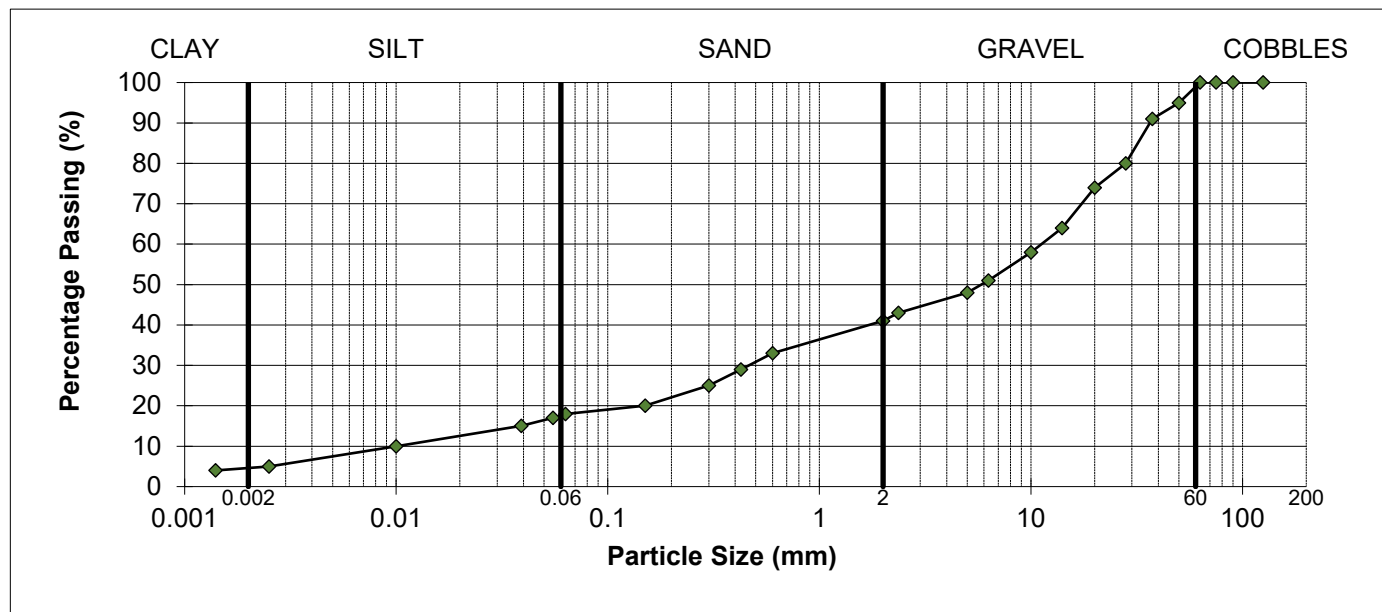
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	WS01 4.00 B	DATE SAMPLED	21-Feb-22
LAB SAMPLE No	110034	DATE RECEIVED	04-Mar-22
DATE TESTED	11-Mar-22	SAMPLED BY	Client

MATERIAL	Brown slightly clayey silty sandy GRAVEL
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		2.36	43	
90	100		2	41	
75	100		0.6	33	
63	100		0.425	29	
50	95		0.3	25	
37.5	91		0.15	20	
28	80		0.063	18	
20	74		0.055	17	
14	64		0.039	15	
10	58		0.01	10	
6.3	51		0.0025	5	
5	48		0.0014	4	



REMARKS

As received moisture content = 12%

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

11-Apr-22

MURRAY RIX

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

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.5: 1990

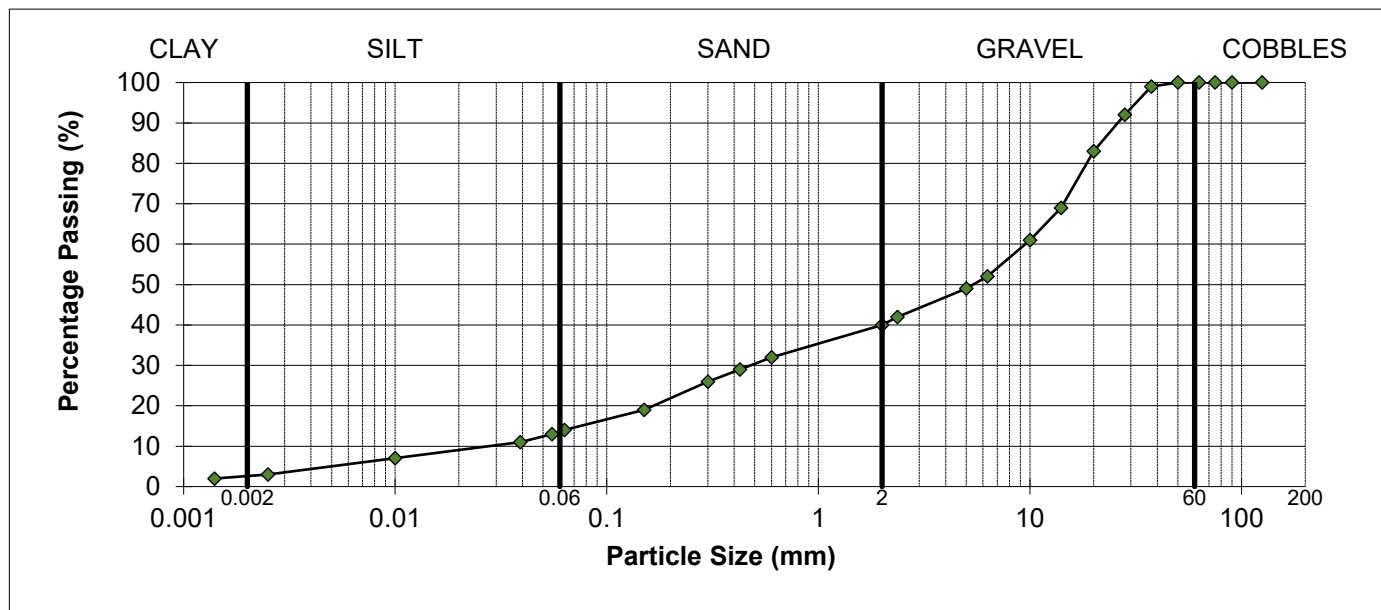
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	WS02 3.00 B	DATE SAMPLED	21-Feb-22
LAB SAMPLE No	110014	DATE RECEIVED	04-Mar-22
DATE TESTED	11-Mar-22	SAMPLED BY	Client

MATERIAL	Brown slightly clayey silty sandy GRAVEL
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		2.36	42	
90	100		2	40	
75	100		0.6	32	
63	100		0.425	29	
50	100		0.3	26	
37.5	99		0.15	19	
28	92		0.063	14	
20	83		0.055	13	
14	69		0.039	11	
10	61		0.01	7	
6.3	52		0.0025	3	
5	49		0.0014	2	



REMARKS

As received moisture content = 17%

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

11-Apr-22

MURRAY RIX

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

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.5: 1990

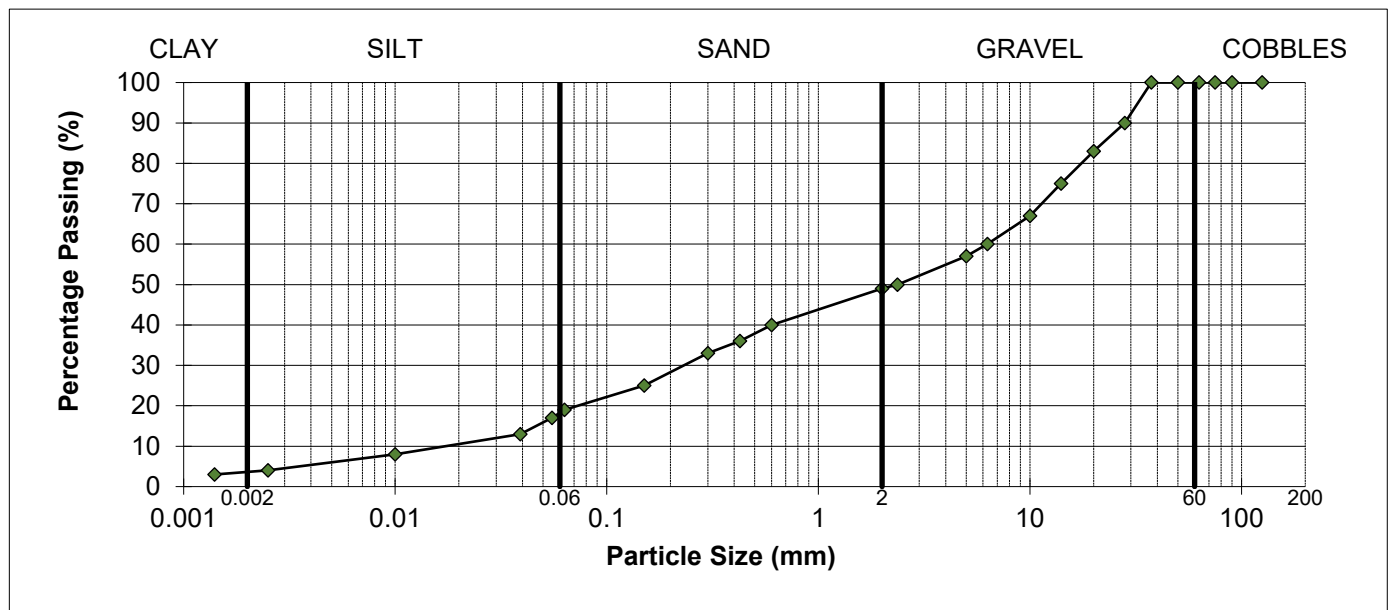
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/4

SAMPLE LABEL	WS03 2.50 B	DATE SAMPLED	24-Feb-22
LAB SAMPLE No	110015	DATE RECEIVED	04-Mar-22
DATE TESTED	11-Mar-22	SAMPLED BY	Client

MATERIAL	Brown slightly clayey sitly SAND & GRAVEL
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		2.36	50	
90	100		2	49	
75	100		0.6	40	
63	100		0.425	36	
50	100		0.3	33	
37.5	100		0.15	25	
28	90		0.063	19	
20	83		0.055	17	
14	75		0.039	13	
10	67		0.01	8	
6.3	60		0.0025	4	
5	57		0.0014	3	



REMARKS

As received moisture content = 1%

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

11-Apr-22

TEST REPORT

Client iD GeoEnvironmental Ltd

Address Caledonian House
Tatton Street
Knutsford
WA16 6AG

Contract 5237 -
Bury Market

Job Number MRN 4296/5
Date of Issue 06 May 2022
Pages 1 of 3

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.

MURRAY RIX

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

TEST CERTIFICATE

PARTICLE SIZE DISTRIBUTION

BS 1377: PART 2: Clause 9.5: 1990

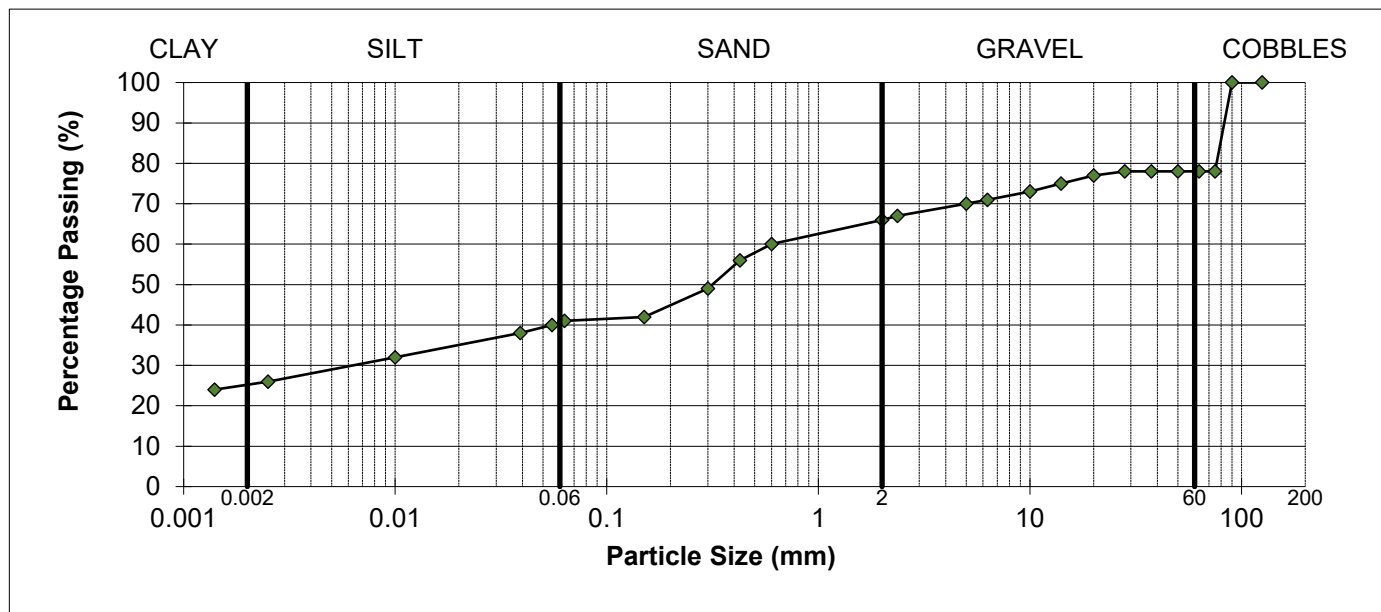
Determination of Moisture Content in accordance with BS 1377: PART 2: Clause 3: 1990 (Oven Dry)

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/5

SAMPLE LABEL	BH01 - 9.3-9.8m	DATE SAMPLED	28-Feb-22
LAB SAMPLE No	110033	DATE RECEIVED	04-Mar-22
DATE TESTED	26-Apr-22	SAMPLED BY	Client

MATERIAL	Soft brown silty sandy CLAY with abundant gravel
ADVISED SOURCE	Site Investigation Sample

Sieve Size (mm)	% Passing (%)	Specification (%)	Sieve Size (mm)	% Passing (%)	Specification (%)
125	100		2.36	67	
90	100		2	66	
75	78		0.6	60	
63	78		0.425	56	
50	78		0.3	49	
37.5	78		0.15	42	
28	78		0.063	41	
20	77		0.055	40	
14	75		0.039	38	
10	73		0.01	32	
6.3	71		0.0025	26	
5	70		0.0014	24	



REMARKS

As received moisture content = 12%

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

06-May-22

MURRAY RIX

ANDREW HOUSE, HADFIELD STREET,
DUKINFIELD, CHESHIRE SK16 4QX
TEL 0161 475 0870 FAX 0161 475 0871



TEST CERTIFICATE

LIQUID AND PLASTIC LIMIT

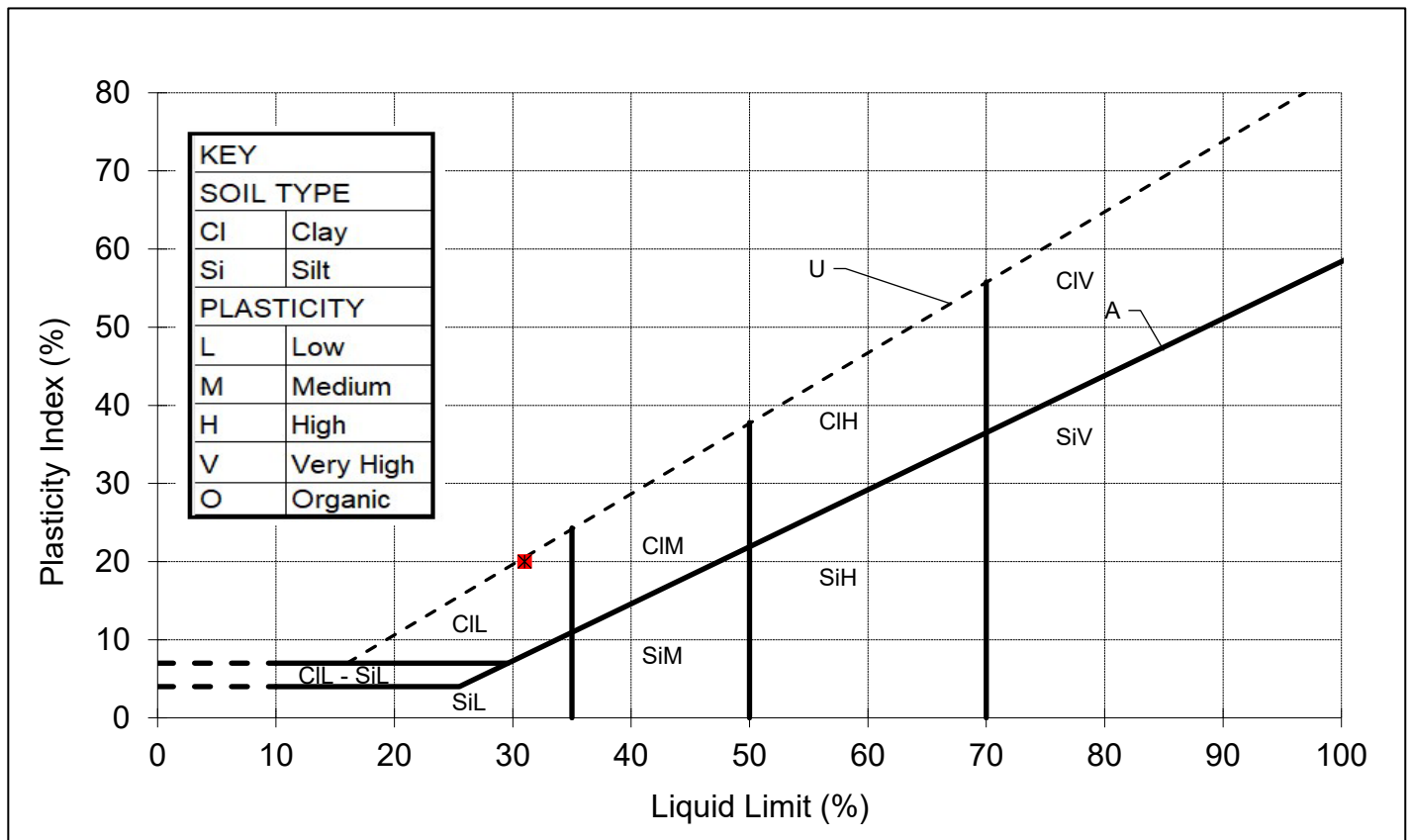
BS 1377: PART 2: 1990 Clause 4.4 ONE POINT METHOD & Clause 5.3
MOISTURE CONTENT METHOD BS 1377: PART 2: 1990 Clause 3.2

CLIENT	iD GeoEnvironmental Ltd
SITE	5237 - Bury Market
JOB NUMBER	MRN 4296/5

SAMPLE LABEL	BH01 - 9.3-9.8m	DATE SAMPLED	28-Feb-22
SAMPLE No.	110033	DATE RECEIVED	04-Mar-22
DATE TESTED	26-Apr-22	SAMPLED BY	Client

MATERIAL	Soft brown silty sandy CLAY with abundant gravel
ADVISED SOURCE	Site Investigation Sample

Natural Moisture Content (%)	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Passing 425 micron (%)
12	31	11	20	56



REMARKS

Sample tested after wet sieving

SIGNED

NAME

O.P. Davies BA (Hons)
(Laboratory Manager)

DATE

06-May-22