

Environmental
Geotechnical
Specialists



LABORATORY REPORT

< ENVIRONMENTAL > < GEOTECHNICAL >

job number	date
site address	
date scheduled	date issued
issued by	

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Rogers Geotechnical Services Ltd
Offices 1 & 2 Barncliffe Business Park, Near Bank, Shelley, Huddersfield, HD8 8LU
☎ 01484 604354 Company No. 5130864



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8948

Schedule of UKAS Accredited Laboratory Tests



1. CLASSIFICATION OF SOIL	BS 1377-2:1990	BS EN ISO 17892	Accredited (A)	Unaccredited (U)
1.1 Moisture / Water content determination				
i. Oven drying	Pt 2 : 3.2	Pt 1 : 2014 Pt 12 : 2018 : 5.3 / 5.5	A	
ii. Saturation m/c of chalk	Pt 2 : 3.3			U
1.2 Index Properties				
i. Liquid limit – cone penetrometer	Pt 2 : 4.3		A	
ii. Plastic limit	Pt 2 : 5.3		A	
iii. Shrinkage limit	Pt 2 : 6.3			U
iv. Linear shrinkage	Pt 2 : 6.5		A	
1.3 Particle Density				
i. Gas jar	Pt 2 : 8.2		A	
ii. Large pycnometer	Pt 2 : 8.3			U
iii. Small pycnometer	Pt 2 : 8.4	Pt 3 : 2015 : 5.1		U
1.4 Density Tests				
i. Linear measurement	Pt 2 : 7.2	Pt 2 : 2014 : 5.1	A	
ii. Immersion in water	Pt 2 : 7.3	Pt 2 : 2014 : 5.2		U
iii. Fluid / Water displacement	Pt 2 : 7.4	Pt 2 : 2014 : 5.3		U
iv. Sand replacement	Pt 9 : 2.1, 2.2			U
v. Core cutter	Pt 9 : 2.4			U
1.5 Particle Size Distribution				
i. Dry Sieve	Pt 2 : 9.2	Pt 4 : 2016 : 5.2	A	
ii. Wet Sieve	Pt 2 : 9.3	Pt 4 : 2016 : 5.2	A	
iii. Sedimentation by pipette	Pt 2 : 9.4	Pt 4 : 2016 : 5.3 / 5.4	A	
iv. Sedimentation by hydrometer	Pt 2 : 9.5			U
2. CHEMICAL TESTS				
ii. Mass loss on ignition	Pt 3 : 4			U
3. COMPACTION RELATED TESTS				
3.1 Dry density/moisture relationship				
i. 2.5kg rammer – 1 litre mould	Pt 4 : 3		A	
- CBR mould	Pt 4 : 3		A	
ii. 4.5kg rammer – 1 litre mould	Pt 4 : 3		A	
- CBR mould	Pt 4 : 3		A	
3.2 Moisture Condition Value				
i. Single point test	Pt 4 : 5.4			U
ii. MCV/moisture content relationship	Pt 4 : 5.5			U
3.3 California Bearing Ratio				
i. Undisturbed sample	Pt 5 : 7		A	
ii. Recompacted sample	Pt 5 : 7		A	
iii. Soaked, inc measurement of swell	Pt 5 : 7		A	
4. COMPRESSIBILITY OF SOIL				
ii. Swelling pressure test	Pt 5 : 3		A	
ii. Swelling pressure test	Pt 5 : 3			U
5. SHEAR STRENGTH OF SOIL				
i. Hand shear vane	Makers instructions			U
ii. Shear box (100mm square sample)	BS 1377 : Pt 7 : 4			U
iii. Triaxial – quick undrained	BS 1377 : Pt 7 : 8, 9		A	
6. PERMEABILITY				
i. Falling head	K. H. Head Vol 2			U
ii. Constant head	BS 1377 : Pt 6 : 6			U
iii Triaxial cell	BS 1377 : Pt 6 : 6			U
7. ROCK TESTS				
7.1 Classification Tests				
i. Natural moisture content	-			U
ii. Saturated moisture content	-			U
iii. Natural density	-			U
iv. Porosity	-			U
7.2 Strength Tests				
i. Point load index	ISRM '85			U
ii. Uniaxial compression test	ISRM '81			U

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Disclaimer

The results reported herein relate only to the material supplied to the laboratory.

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GEOTECHNICAL TESTING RESULTS



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Environmental Science

Rogers Geotechnical Services Ltd
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Analytical Report Number : 24-052508

Project / Site name:	Car Hill Quarry	Samples received on:	08/11/2024
Your job number:	C4220 24 E 7144	Samples instructed on/ Analysis started on:	08/11/2024
Your order number:		Analysis completed by:	13/11/2024
Report Issue Number:	1	Report issued on:	13/11/2024
Samples Analysed:	1 soil sample		

Signed: _____

Anna Goc
PL Head of Reporting Team
For & on behalf of i2 Analytical Ltd.

Standard Geotechnical, Asbestos and Chemical Testing Laboratory located at: ul. Pionierów 39, 41-711 Ruda Śląska, Poland.

Accredited tests are defined within the report, opinions and interpretations expressed herein are outside the scope of accreditation.

Standard sample disposal times, unless otherwise agreed with the laboratory, are :	soils	- 4 weeks from reporting
	leachates	- 2 weeks from reporting
	waters	- 2 weeks from reporting
	asbestos	- 6 months from reporting

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Any assessments of compliance with specifications are based on actual analytical results with no contribution from uncertainty of measurement. Application of uncertainty of measurement would provide a range within which the true result lies. An estimate of measurement uncertainty can be provided on request.



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Analytical Report Number: 24-052508

Project / Site name: Car Hill Quarry

Lab Sample Number				372276
Sample Reference				Sample 1
Sample Number				None Supplied
Depth (m)				None Supplied
Date Sampled				07/11/2024
Time Taken				None Supplied
Analytical Parameter (Soil Analysis)	Units	Test Limit of detection	Test Accreditation Status	

Asbestos

Asbestos in Soil Detected/Not Detected	Type	N/A	ISO 17025	Not-detected
Asbestos Analyst ID	N/A	N/A	N/A	MMI

U/S = Unsuitable Sample I/S = Insufficient Sample ND = Not detected



4041



Environmental Science

Analytical Report Number : 24-052508

Project / Site name: Car Hill Quarry

Water matrix abbreviations:

Surface Water (SW) Potable Water (PW) Ground Water (GW) Process Waters (PrW) Final Sewage Effluent (FSE) Landfill Leachate (LL)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in Soil	Asbestos Identification with the use of polarised light microscopy in conjunction with dispersion staining techniques	In-house method based on HSG 248, 2021	A001B	D	ISO 17025

For method numbers ending in 'UK' or 'A' analysis have been carried out in our laboratory in the United Kingdom (Watford).

For method numbers ending in 'F' analysis have been carried out in our laboratory in the United Kingdom (East Kilbride).

For method numbers ending in 'PL' or 'B' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

Unless otherwise indicated, site information, order number, project number, sampling date, time, sample reference and depth are provided by the client. The instructed on date indicates the date on which this information was provided to the laboratory.

Quality control parameter failure associated with individual result applies to calculated sum of individuals.

The result for sum should be interpreted with caution

Test Report:	Classification Test for the Constituents of Coarse Recycled Aggregate BS EN 933: Part 11: 2009	Report Date:	30.10.24
Client:	Rogers Geotechnical Barncliffe Business Park, Shelley, Huddersfield HD8 8LU	Lab ref:	MT1075 24-6587
		Client ref:	-
		Date sampled:	9.10.24
Site:	Car Hill Quarry	Sampled by:	Client
Sample Location:	Stockpile	Date received:	9.10.24
Material Type:	Sandstone	Date test completed:	30.10.24
Visual Description:	Natural Quarried material	Test conducted by:	NY
Specification:	SHW Series 800	Drying Temperature:	40C

Test Results

Material Description		Proportion Found	Specification %
Floating constituent (cm ³ /kg)	FL	0	
Concrete & concrete products (%)	Rc	0	
Unbound aggregates, natural stone (%)	Ru	99.9	
Clay masonry (%)	Rb	0	
Bituminous material (%)	Ra	0	<50
Glass (%)	Rg	0	<25
Other materials (%)	X	0	<1

Comments:

In Spec

Signed:

For & on behalf of
G2M Testing Ltd

Authorised Signatories:

M. Aiston (Director)
 G. Batley (Laboratory Supervisor)

Page: 1 of 1

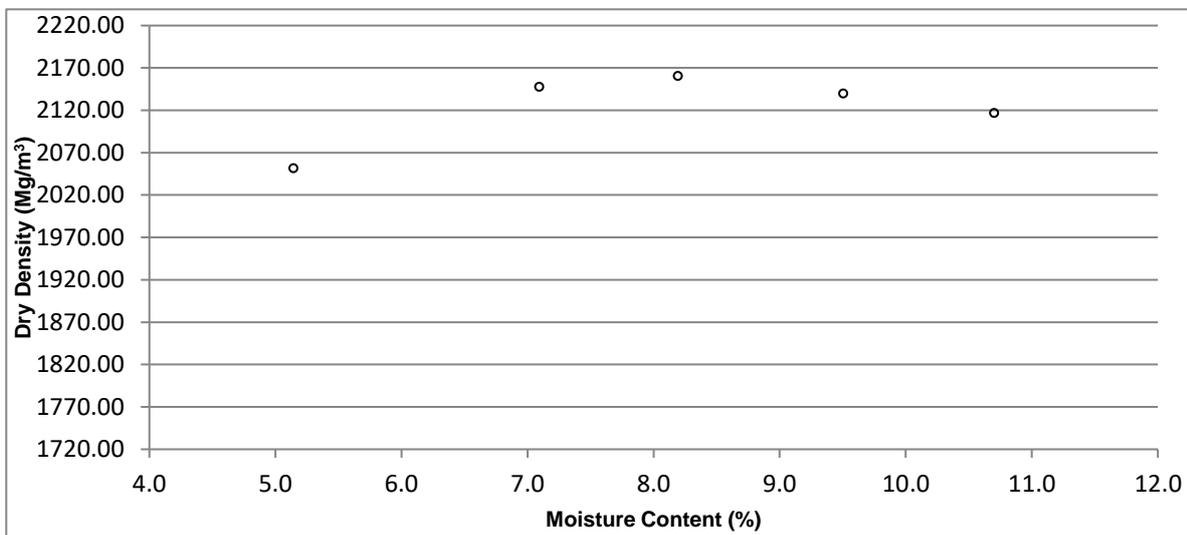
Unit 5E, Edwardson Road, Meadowfield, Durham, DH7 8RL

Test Report:	Determination of Dry Density/Moisture Content Relationship BS EN 13286-4:2003	Report Date:	30.10.24
Client:	Rogers Geotechnical Barncliffe Business Park, Shelley, Huddersfield HD8 8LU	Lab ref:	MT1075 24-6587
Site:	Car Hill Quarry	Client ref:	
Sample location:	Stockpile	Date sampled:	9.10.24
Material:	Sandstone	Sampled by:	Client
Test Method:	Clause 7	Date received:	9.10.24
Sample Preparation:	BS EN 932-12	Date test completed:	30.10.24
		Test conducted by:	NE
		Variation from standard method:	

Test Results

Mould Type:	CBR	% retained on 40 mm Test Sieve:	39
Single/Multiple samples:	Single/Multiple	% retained on 20mm Test Sieve:	28
		Particle Density: Mg/m ³ (measured/assumed)	2.65

Maximum Dry Density (Mg/m³):	2.16	Optimum Moisture Content (%):	8.2
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Comments: Sample tested as a deviation from standard

Signed:



For & on behalf of
G2M Testing Ltd

Authorised Signatories:
 M. Aiston (Director)
 G. Batley (Laboratory Supervisor)



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End of Report



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