



Laboratory Report



Contract Number: 48807

Client Ref: **7485d**Report Date: **19-06-2020**Client PO: **9071**

Client **Earth Science Partnership**
33 Cardiff Road
Taff's Well
Cardiff
CF15 7RB

Contract Title: **Dowlais Primary School, Dowlais, Merthyr**
For the attention of: **Hywel Davies**

Date Received: **02-06-2020**Date Completed: **19-06-2020**

Test Description	Qty
Moisture Content BS 1377:1990 - Part 2 : 3.2 - * UKAS	5
4 Point Liquid & Plastic Limit BS 1377:1990 - Part 2 : 4.3 & 5.3 - * UKAS	5
PSD Wet Sieve method BS 1377:1990 - Part 2 : 9.2 - * UKAS	2
Disposal of samples for job	1

Notes: **Observations and Interpretations are outside the UKAS Accreditation**

* - denotes test included in laboratory scope of accreditation

- denotes test carried out by approved contractor

@ - denotes non accredited tests

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 Signatories:

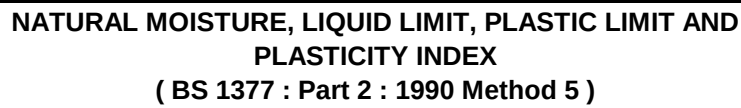
Emma Sharp (Office Manager) - Paul Evans (Quality/Technical Manager) - Richard John (Advanced Testing Manager)

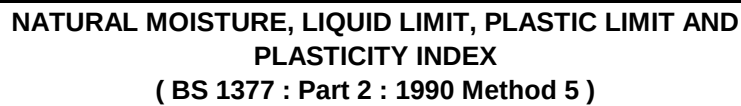
Sean Penn (Administrative/Accounts Assistant) - Shaun Jones (Laboratory manager) - Wayne Honey (Administrative/Quality Assistant)

GEO Site & Testing Services Ltd

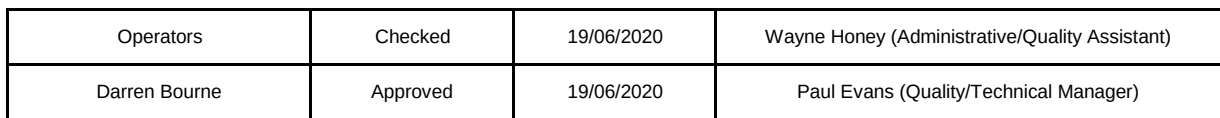
Unit 3-4, Heol Aur, Dafen Ind Estate, Dafen, Llanelli, Carmarthenshire SA14 8QN

Tel: 01554 784040 Fax: 01554 784041 info@gstl.co.uk gstl.co.uk

[illegible]

[illegible]

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION BS 5930:1999+A2:2010





**PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2**

Contract Number **48807**

Borehole/Pit No. **SA1**

Site Name **Dowlais Primary School, Dowlais, Merthyr**

Sample No.

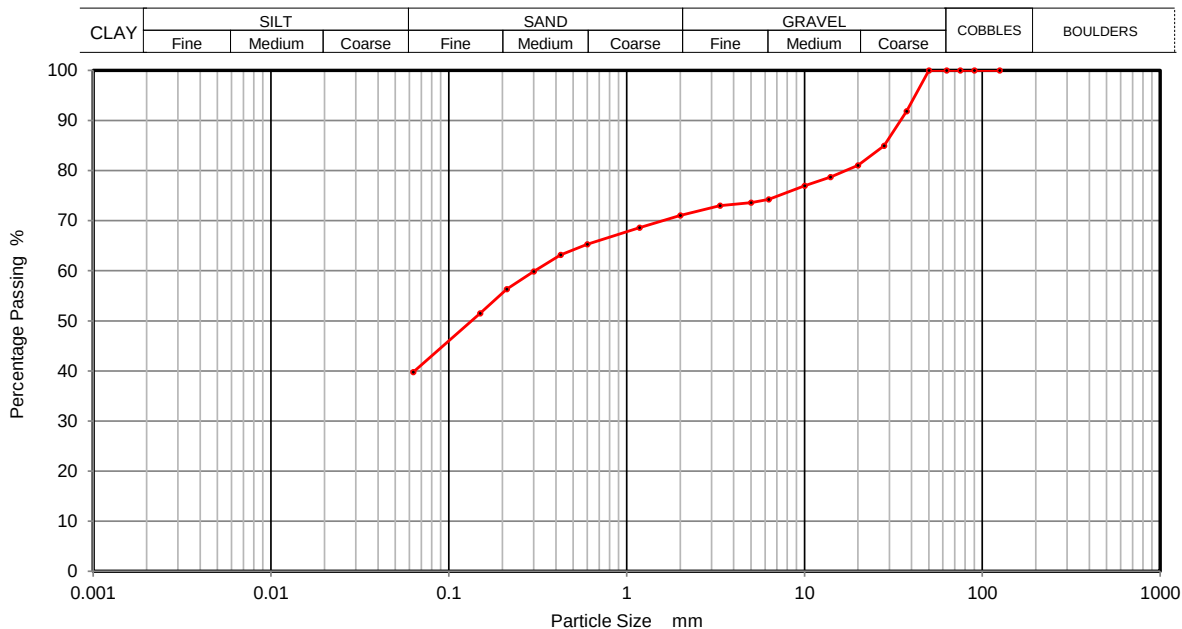
Soil Description **Brown fine to coarse gravelly fine to coarse sandy SILT/CLAY**

Depth Top **2.10**

Depth Base

Date Tested **16/06/2020**

Sample Type **B**



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	92		
28	85		
20	81		
14	79		
10	77		
6.3	74		
5	74		
3.35	73		
2	71		
1.18	69		
0.6	65		
0.425	63		
0.3	60		
0.212	56		
0.15	52		
0.063	40		

Sample Proportions	% dry mass
Cobbles	0
Gravel	29
Sand	31
Silt and Clay	40

Remarks
Preparation and testing in accordance with BS1377 unless noted below

Operators	Checked	18/06/2020	Wayne Honey	<i>W. Honey</i>
RO/MH	Approved	19/06/2020	Paul Evans	<i>P. Evans</i>





**PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2**

Contract Number **48807**

Borehole/Pit No. **SA2**

Site Name **Dowlais Primary School, Dowlais, Merthyr**

Sample No.

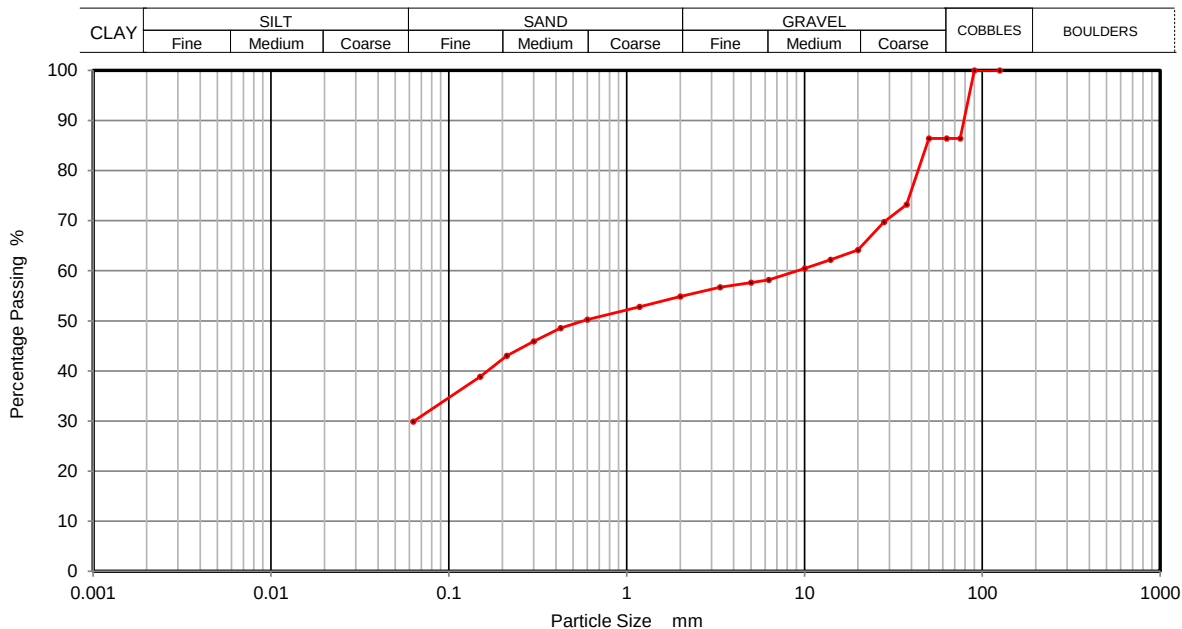
Soil Description **Brown fine to coarse sandy silty/clayey fine to coarse GRAVEL (with cobbles)**

Depth Top **2.80**

Depth Base

Date Tested **16/06/2020**

Sample Type **B**



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	86		
63	86		
50	86		
37.5	73		
28	70		
20	64		
14	62		
10	60		
6.3	58		
5	58		
3.35	57		
2	55		
1.18	53		
0.6	50		
0.425	49		
0.3	46		
0.212	43		
0.15	39		
0.063	30		

Sample Proportions	% dry mass
Cobbles	14
Gravel	31
Sand	25
Silt and Clay	30

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operators	Checked	18/06/2020	Wayne Honey	<i>W. Honey</i>
RO/MH	Approved	19/06/2020	Paul Evans	<i>P. Evans</i>



2788