



Laboratory Report



Contract Number: 36124

Client's Reference: **6665b PO= 6322**

Report Date: **15-08-2017**

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

Contract Title: **Goat Mill Road**
For the attention of: **Mat Elcock**

Date Received: **31-07-2017**
Date Commenced: **31-07-2017**
Date Completed: **15-08-2017**

Test Description	Qty
Moisture Content 1377 : 1990 Part 2 : 3.2 - * UKAS	1
4 Point Liquid & Plastic Limit (LL/PL) 1377 : 1990 Part 2 : 4.3 & 5.3 - * UKAS	1
PSD Wet Sieve method 1377 : 1990 Part 2 : 9.2 - * UKAS	4
Disposal of Samples on Project	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:

Alex Wynn (Associate Director) - Ben Sharp (Contracts Manager) - Emma Sharp (Office Manager)
Paul Evans (Quality/Technical Manager) - Richard John (Advanced Testing Manager) - Sean Penn (Administrative/Quality Assistant)
Vaughan Edwards (Managing Director) - Wayne Honey (Administrative/Quality Assistant)



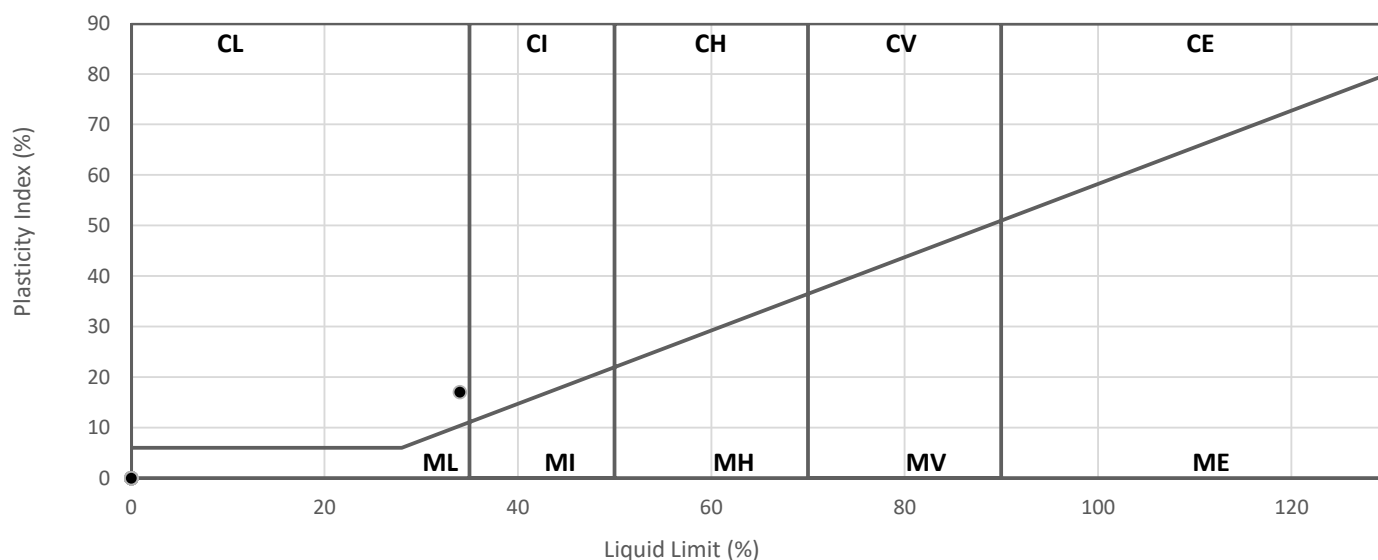
LIQUID LIMIT, PLASTIC LIMIT AND PLASTICITY INDEX (BS 1377 : Part 2 : 1990 Method 5)

Contract Number	36124	
Site Name	Goat Mill Road	

[illegible]

Symbols: NP : Non Plastic # : Liquid Limit and Plastic Limit Wet Sieved

PLASTICITY CHART FOR CASAGRANDE CLASSIFICATION



Operators	Checked	14/08/2017	Sean Penn	
DB	Approved	15/08/2017	Ben Sharp	



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

Contract Number

36124

Borehole/Pit No.

TP1

Site Name

Goat Mill Road

Sample No.

Soil Description

Brown slightly clayey slightly silty slightly fine to coarse sandy fine to coarse GRAVEL.(With some cobbles)

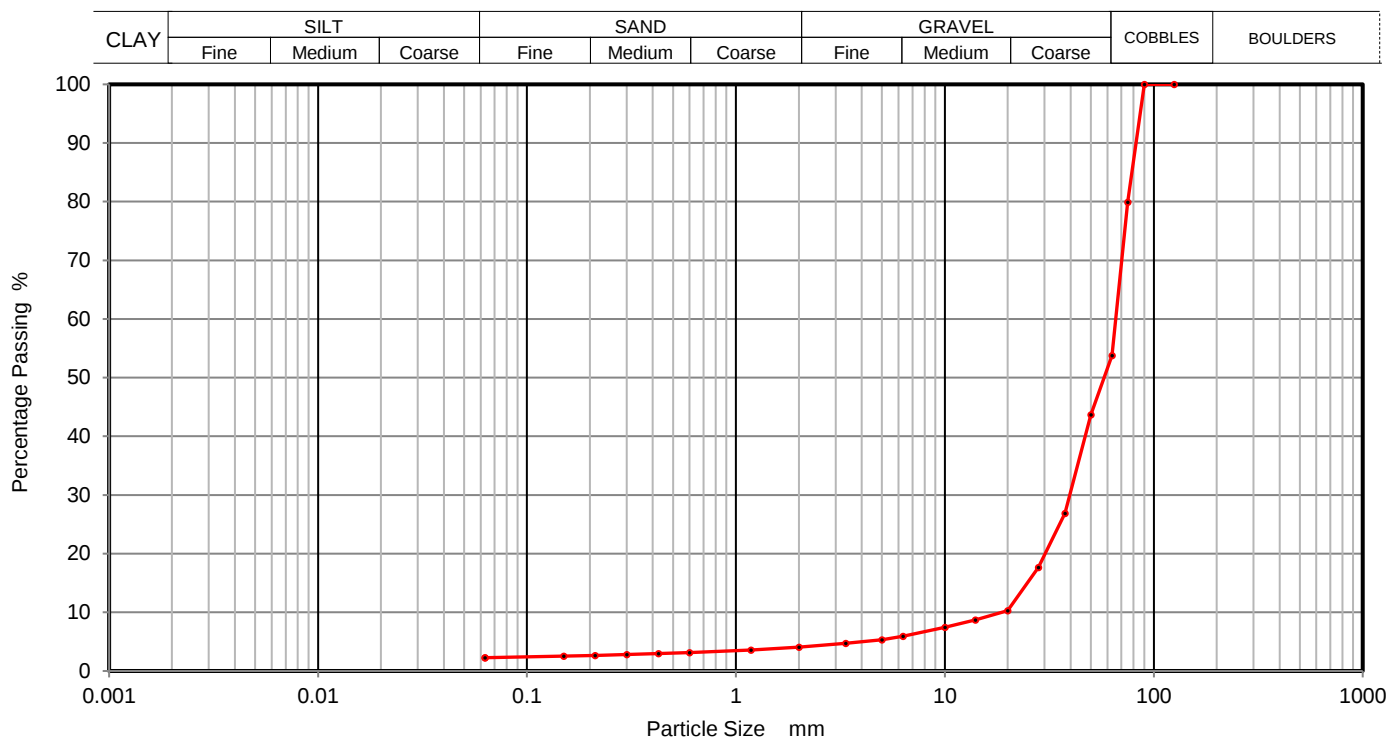
Depth Top

0.80

Depth Base

Sample Type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	
90	100	0.0060	
75	80	0.0019	
63	54		
50	44		
37.5	27		
28	18		
20	10		
14	9		
10	7		
6.3	6		
5	5		
3.35	5		
2	4		
1.18	4		
0.6	3		
0.425	3		
0.3	3		
0.212	3		
0.15	3		
0.063	2		

Sample Proportions	% dry mass
Cobbles	46
Gravel	50
Sand	2
Silt and Clay	2

Grading Analysis	
Uniformity Coefficient	

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operators	Checked	14/08/2017	Sean Penn	
RO/MH	Approved	15/08/2017	Ben Sharp	





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

Contract Number

36124

Borehole/Pit No.

TP2

Site Name

Goat Mill Road

Sample No.

Soil Description

Brown/grey fine to coarse gravelly fine to coarse sandy SILT/CLAY

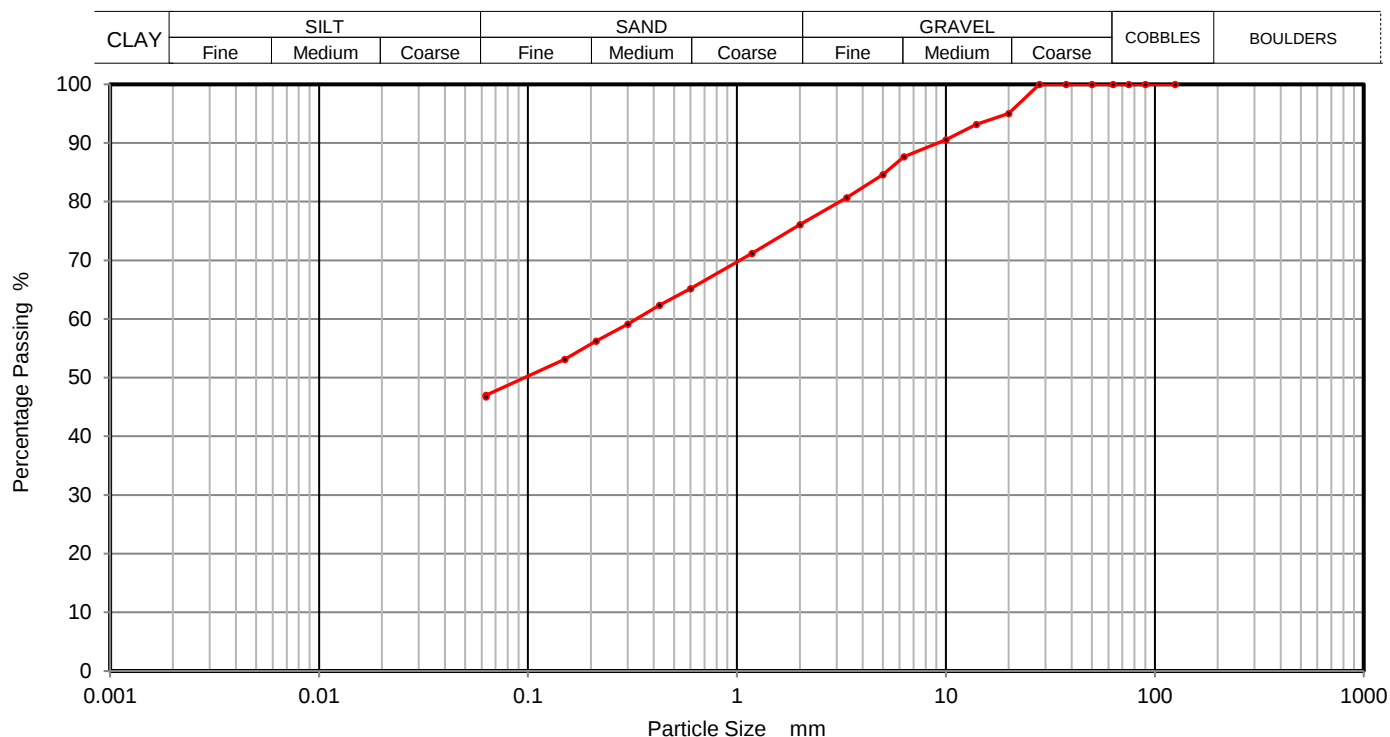
Depth Top

1.70

Depth Base

Sample Type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	
90	100	0.0060	
75	100	0.0019	
63	100		
50	100		
37.5	100		
28	100		
20	95		
14	93		
10	91		
6.3	88		
5	85		
3.35	81		
2	76		
1.18	71		
0.6	65		
0.425	62		
0.3	59		
0.212	56		
0.15	53		
0.063	47		

Sample Proportions	% dry mass
Cobbles	0
Gravel	24
Sand	29
Silt and Clay	47

Grading Analysis	
Uniformity Coefficient	

Remarks

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Operators	Checked	14/08/2017	Sean Penn	
RO/MH	Approved	15/08/2017	Ben Sharp	





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

Contract Number

36124

Borehole/Pit No.

TP5

Site Name

Goat Mill Road

Sample No.

Soil Description

Brown/grey fine to coarse sandy silty clayey fine to coarse GRAVEL

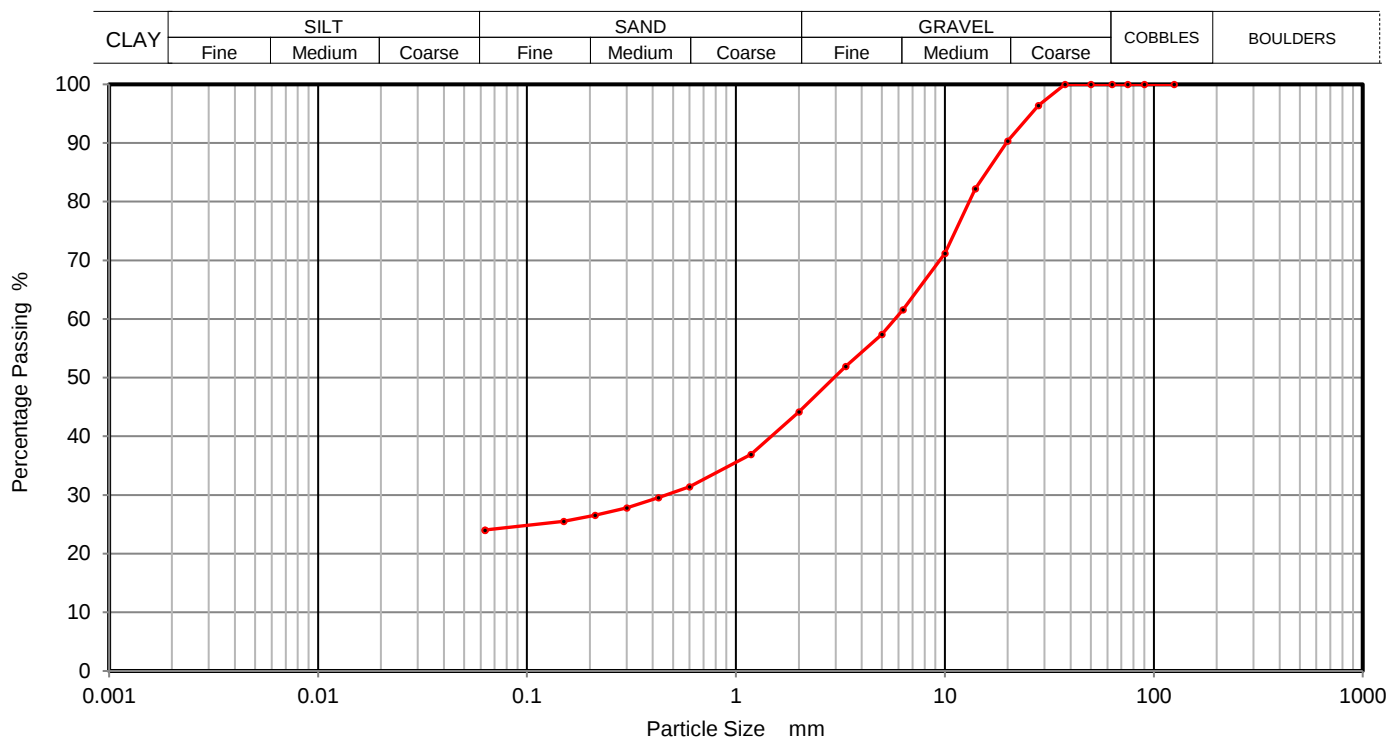
Depth Top

1.00

Depth Base

Sample Type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	
90	100	0.0060	
75	100	0.0019	
63	100		
50	100		
37.5	100		
28	96		
20	90		
14	82		
10	71		
6.3	62		
5	57		
3.35	52		
2	44		
1.18	37		
0.6	31		
0.425	30		
0.3	28		
0.212	27		
0.15	26		
0.063	24		

Sample Proportions	% dry mass
Cobbles	0
Gravel	56
Sand	20
Silt and Clay	24

Grading Analysis	
Uniformity Coefficient	

Remarks

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Operators	Checked	14/08/2017	Sean Penn	
RO/MH	Approved	15/08/2017	Ben Sharp	





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

Contract Number

36124

Borehole/Pit No.

TP6

Site Name

Goat Mill Road

Sample No.

Soil Description

Brown/grey fine to coarse sandy silty clayey fine to coarse GRAVEL

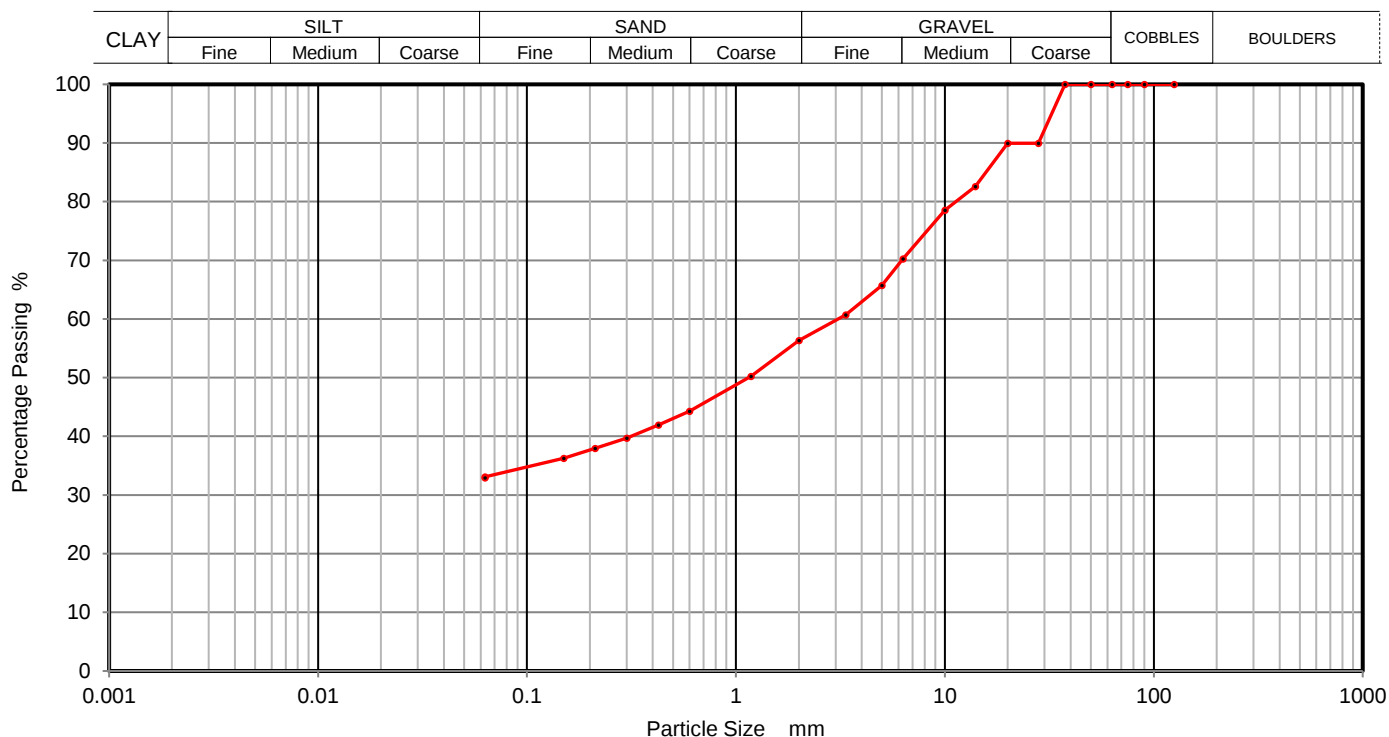
Depth Top

1.50

Depth Base

Sample Type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	
90	100	0.0060	
75	100	0.0019	
63	100		
50	100		
37.5	100		
28	90		
20	90		
14	83		
10	79		
6.3	70		
5	66		
3.35	61		
2	56		
1.18	50		
0.6	44		
0.425	42		
0.3	40		
0.212	38		
0.15	36		
0.063	33		

Sample Proportions	% dry mass
Cobbles	0
Gravel	44
Sand	23
Silt and Clay	33

Grading Analysis	
Uniformity Coefficient	

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operators	Checked	14/08/2017	Sean Penn	
RO/MH	Approved	15/08/2017	Ben Sharp	

