

esp
ENGINEER
GEOLOGIST
SCIENTIST

Date of Test:	26-Aug-20
Operator:	AB
Soil type:	see record for BH1 (Appendix H)
Soil condition:	saturated

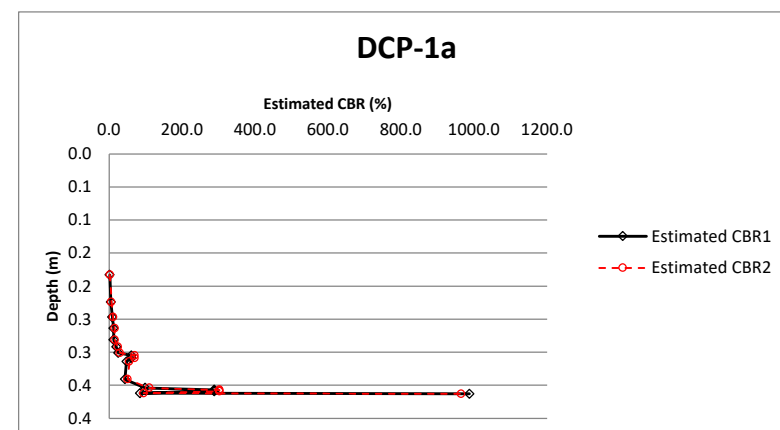
DCP-1a

Blow Count

Depth (m)

--x-- Blow count

Depth (m)	Blow Count
0.05	1
0.10	2
0.15	3
0.20	4
0.25	5
0.30	6
0.35	7
0.40	8
0.45	9
0.50	10
0.55	11
0.60	12
0.65	13
0.70	14
0.75	15
0.80	16
0.85	17
0.90	18
0.95	19
1.00	20
1.05	21
1.10	22
1.15	23
1.20	24
1.25	25
1.30	26
1.35	27
1.40	28
1.45	29
1.50	30
1.55	31
1.60	32
1.65	33
1.70	34
1.75	35



1. CBR calculated based on Webster et al, 1992.
2. CBR calculated based on DMRB, 2008.
3. CBR values less than 2.5% highlighted in red and bold. Soils unsuitable in pavements.

- Webster S, Grau R and Williams T. 1992. Description and Application of Dual Mass Dynamic Cone Penetrometer. Dept of Army Waterways Equipment Station, Instruction rpt GL-92-3.
- Highways Agency, 2008. Design Manual for Roads and Bridges (DMRB), Data for Pavement Assessment. HD29/08.

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Date of Test:	26-Aug-20
Operator:	AB
Soil type:	see record for BH1 (Appendix H)
Soil condition:	saturated

DCP-1b

Blow Count

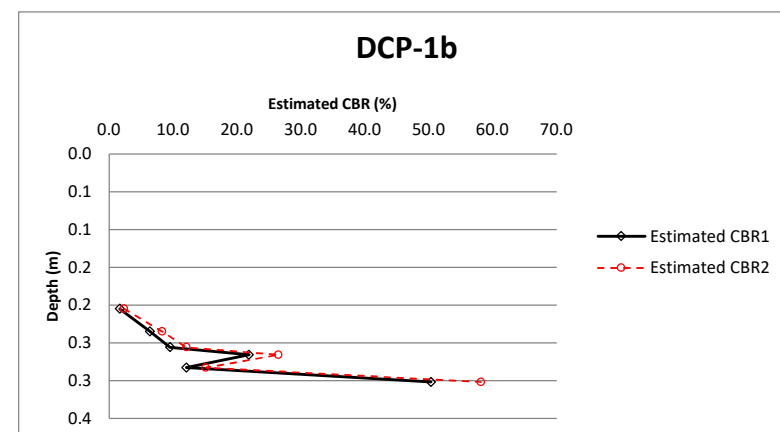
Depth (m)

0 2 4 6 8 10

0.0
0.1
0.2
0.3
0.4

--x-- Blow count

Depth (m)	Blow Count
0.10	0
0.20	1
0.25	2
0.30	3
0.32	4
0.34	5
0.35	9



1. CBR calculated based on Webster et al, 1992.
2. CBR calculated based on DMRB, 2008.
3. CBR values less than 2.5% highlighted in red and bold. Soils unsuitable in pavements.

- Webster S, Grau R and Williams T. 1992. Description and Application of Dual Mass Dynamic Cone Penetrometer. Dept of Army Waterways Equipment Station, Instruction rpt GL-92-3.
- Highways Agency, 2008. Design Manual for Roads and Bridges (DMRB), Data for Pavement Assessment. HD29/08.

APPENDIX K - RESULTS OF DYNAMIC CONE PENETROMETER (DCP) TESTING

Project:	Flying Start, Dowlais Primary School	
Project No.	7485d	
Test No.	DCP-1c	

Date of Test:	26-Aug-20
Operator:	AB
Soil type:	see record for BH1 (Appendix H)
Soil condition:	saturated

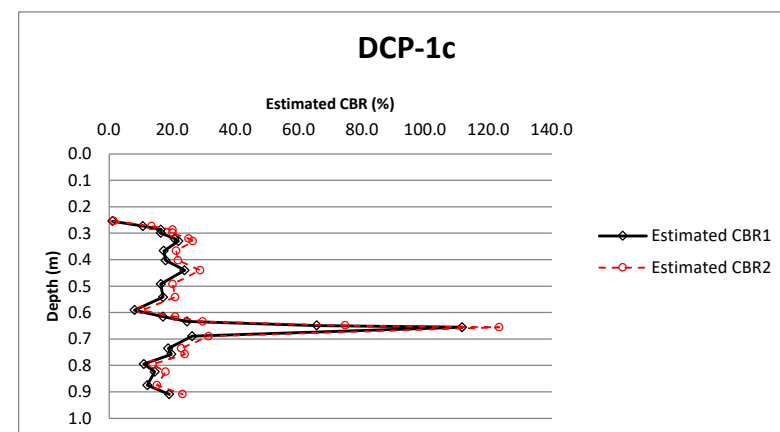
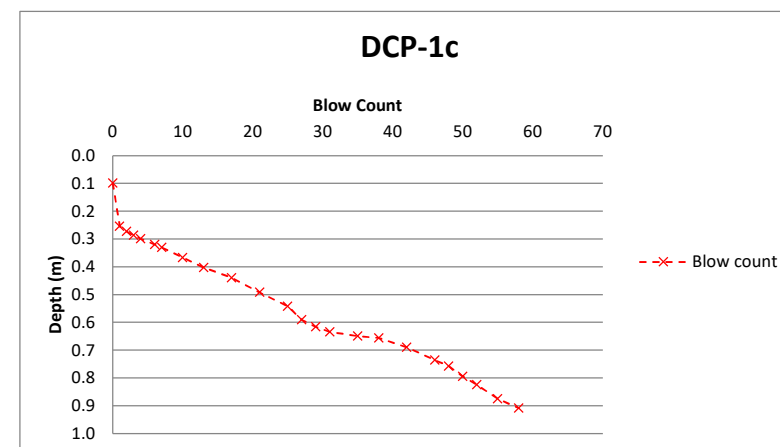
Blow count	Penetration (mm)	Penetration (m)	Penetration Index (DPI) mm/blow	Estimated CBR1 (%) ¹	Estimated CBR2 (%) ²
0	99	0.099			
1	254	0.254	155.0	1.0	1.5
2	273	0.273	19.0	11	13
3	286	0.286	13.0	16	20
4	299	0.299	13.0	16	20
6	320	0.320	10.5	21	25
7	330	0.330	10.0	22	26
10	367	0.367	12.3	17	21
13	403	0.403	12.0	18	22
17	440	0.440	9.3	24	29
21	492	0.492	13.0	16	20
25	542	0.542	12.5	17	21
27	591	0.591	24.5	8	10
29	616	0.616	12.5	17	21
31	634	0.634	9.0	25	30
35	649	0.649	3.8	66	75
38	656	0.656	2.3	112	123
42	690	0.690	8.5	26	31
46	736	0.736	11.5	19	23
48	758	0.758	11.0	20	24
50	795	0.795	18.5	11	14
52	824	0.824	14.5	14	18
55	875	0.875	17.0	12	15
58	909	0.909	11.3	19	23

Notes:

1. CBR calculated based on Webster et al, 1992.
2. CBR calculated based on DMRB, 2008.
3. CBR values less than 2.5% highlighted in red and bold. Soils unsuitable in pavements.

Reference :

- Webster S, Grau R and Williams T. 1992. Description and Application of Dual Mass Dynamic Cone Penetrometer. Dept of Army Waterways Equipment Station, Instruction rpt GL-92-3.
- Highways Agency, 2008. Design Manual for Roads and Bridges (DMRB), Data for Pavement Assessment. HD29/08.



APPENDIX K - RESULTS OF DYNAMIC CONE PENETROMETER (DCP) TESTING

Project:	Flying Start, Dowlais Primary School	
Project No.	7485d	
Test No.	DCP-2	

Date of Test:	26-Aug-20
Operator:	AB
Soil type:	see record for BH3 (Appendix H)
Soil condition:	saturated

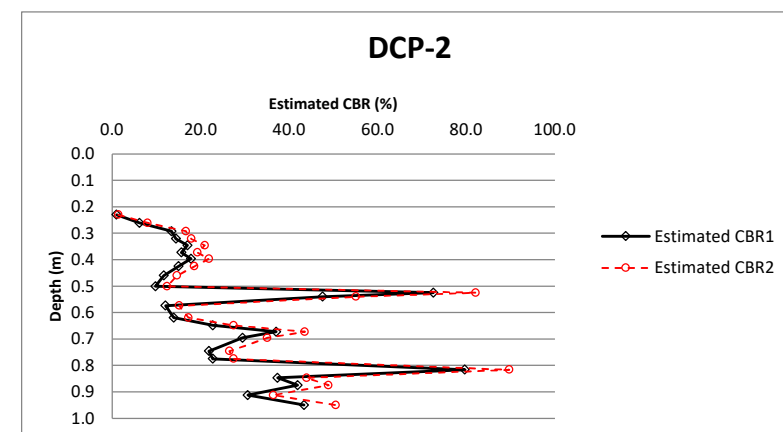
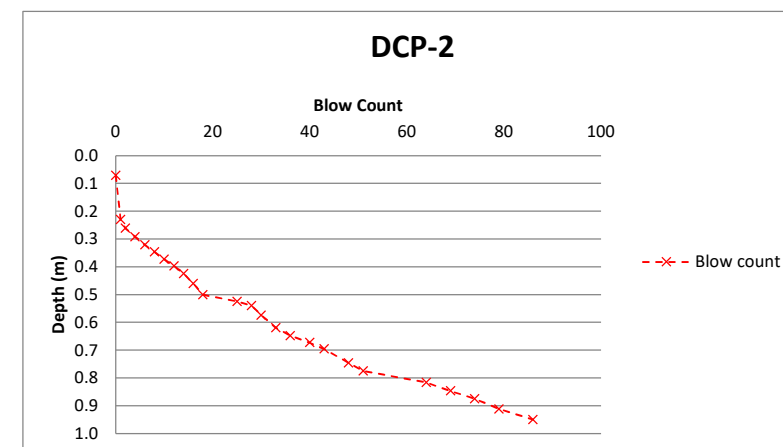
Blow count	Penetration (mm)	Penetration (m)	Penetration Index (DPI) mm/blow	Estimated CBR1 (%) ¹	Estimated CBR2 (%) ²
0	71	0.071			
1	230	0.230	159.0	1.0	1.4
2	261	0.261	31.0	6	8
4	292	0.292	15.5	13	17
6	321	0.321	14.5	14	18
8	346	0.346	12.5	17	21
10	373	0.373	13.5	16	19
12	397	0.397	12.0	18	22
14	425	0.425	14.0	15	19
16	460	0.460	17.5	12	15
18	501	0.501	20.5	10	12
25	525	0.525	3.4	73	82
28	540	0.540	5.0	48	55
30	574	0.574	17.0	12	15
33	619	0.619	15.0	14	17
36	648	0.648	9.7	23	27
40	673	0.673	6.3	37	44
43	696	0.696	7.7	29	35
48	746	0.746	10.0	22	26
51	775	0.775	9.7	23	27
64	816	0.816	3.2	80	90
69	847	0.847	6.2	37	44
74	875	0.875	5.6	42	49
79	912	0.912	7.4	31	36
86	950	0.950	5.4	43	51

Notes:

1. CBR calculated based on Webster et al, 1992.
2. CBR calculated based on DMRB, 2008.
3. CBR values less than 2.5% highlighted in red and bold. Soils unsuitable in pavements.

Reference:

- Webster S, Grau R and Williams T. 1992. Description and Application of Dual Mass Dynamic Cone Penetrometer. Dept of Army Waterways Equipment Station, Instruction rpt GL-92-3.
- Highways Agency, 2008. Design Manual for Roads and Bridges (DMRB), Data for Pavement Assessment. HD29/08.

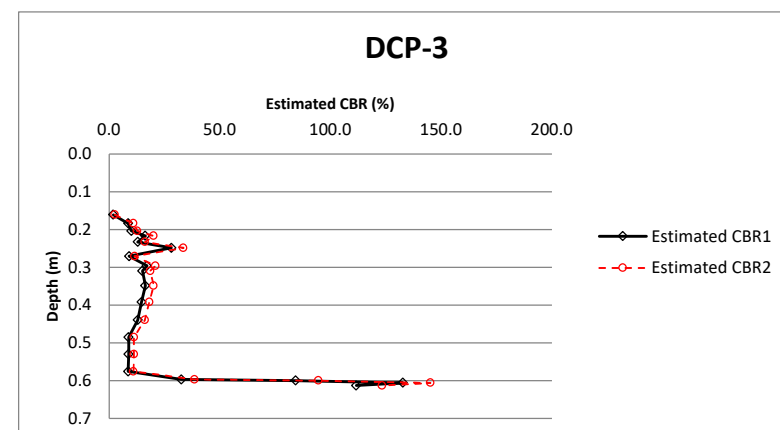


esp
ENGINEER
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Date of Test:	26-Aug-20
Operator:	AB
Soil type:	see record for BH5 (Appendix H)
Soil condition:	saturated

DCP-3

Depth (m)	Blow Count
0.05	2
0.10	5
0.15	8
0.20	10
0.25	12
0.30	15
0.35	18
0.40	22
0.45	25
0.50	28
0.55	30
0.60	30
0.62	30
0.64	30
0.66	30
0.68	30



1. CBR calculated based on Webster et al, 1992.
2. CBR calculated based on DMRB, 2008.
3. CBR values less than 2.5% highlighted in red and bold. Soils unsuitable in pavements.

- Webster S, Grau R and Williams T. 1992. Description and Application of Dual Mass Dynamic Cone Penetrometer. Dept of Army Waterways Equipment Station, Instruction rpt GL-92-3.
- Highways Agency, 2008. Design Manual for Roads and Bridges (DMRB), Data for Pavement Assessment. HD29/08.

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ENGINEERS
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Date of Test:	26-Aug-20
Operator:	AB
Soil type:	see record for BH6 (Appendix H)
Soil condition:	saturated

DCP-4

Blow Count

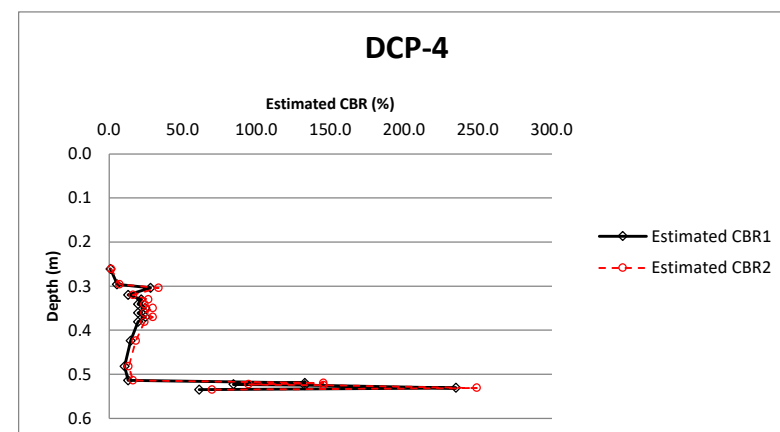
Depth (m)

0 5 10 15 20 25 30 35

0.0 0.1 0.2 0.3 0.4 0.5 0.6

- x - Blow count

Depth (m)	Blow Count
0.10	0
0.15	2
0.20	3
0.25	4
0.30	5
0.35	6
0.40	7
0.45	8
0.50	10
0.55	12
0.60	15
0.65	18
0.70	20
0.75	22
0.80	24
0.85	26
0.90	28
0.95	28
1.00	28
1.05	28
1.10	28
1.15	28
1.20	28
1.25	28
1.30	28
1.35	28
1.40	28
1.45	28
1.50	28
1.55	28
1.60	28
1.65	28
1.70	28
1.75	28
1.80	28
1.85	28
1.90	28
1.95	28
2.00	28
2.05	28
2.10	28
2.15	28
2.20	28
2.25	28
2.30	28
2.35	28
2.40	28
2.45	28
2.50	28
2.55	28
2.60	28
2.65	28
2.70	28
2.75	28
2.80	28
2.85	28
2.90	28
2.95	28
3.00	28
3.05	28
3.10	28
3.15	28
3.20	28
3.25	28
3.30	28
3.35	28
3.40	28
3.45	28
3.50	28
3.55	28
3.60	28
3.65	28
3.70	28
3.75	28
3.80	28
3.85	28
3.90	28
3.95	28
4.00	28
4.05	28
4.10	28
4.15	28
4.20	28
4.25	28
4.30	28
4.35	28
4.40	28
4.45	28
4.50	28
4.55	28
4.60	28
4.65	28
4.70	28
4.75	28
4.80	28
4.85	28
4.90	28
4.95	28
5.00	28
5.05	28
5.10	28
5.15	28
5.20	28
5.25	28
5.30	28
5.35	28
5.40	28
5.45	28
5.50	28
5.55	28
5.60	28
5.65	28
5.70	28
5.75	28
5.80	28
5.85	28
5.90	28
5.95	28
6.00	28
6.05	28
6.10	28
6.15	28
6.20	28
6.25	28
6.30	28
6.35	28
6.40	28
6.45	28
6.50	28
6.55	28
6.60	28
6.65	28
6.70	28
6.75	28
6.80	28
6.85	28
6.90	28
6.95	28
7.00	28
7.05	28
7.10	28
7.15	28
7.20	28
7.25	28
7.30	28
7.35	28
7.40	28
7.45	28
7.50	28
7.55	28
7.60	28
7.65	28
7.70	28
7.75	28
7.80	28
7.85	28
7.90	28
7.95	28
8.00	28
8.05	28
8.10	28
8.15	28
8.20	28
8.25	28
8.30	28
8.35	28
8.40	28
8.45	28
8.50	28
8.55	28
8.60	28
8.65	28
8.70	28
8.75	28
8.80	28
8.85	28
8.90	28
8.95	28
9.00	28
9.05	28
9.10	28
9.15	28
9.20	28
9.25	28



1. CBR calculated based on Webster et al, 1992.
2. CBR calculated based on DMRB, 2008.
3. CBR values less than 2.5% highlighted in red and bold. Soils unsuitable in pavements.

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APPENDIX K - RESULTS OF DYNAMIC CONE PENETROMETER (DCP) TESTING

Project:	Flying Start, Dowlais Primary School	
Project No.	7485d	
Test No.	DCP-5	

Date of Test:	26-Aug-20
Operator:	AB
Soil type:	see record for BH2 (Appendix H)
Soil condition:	saturated

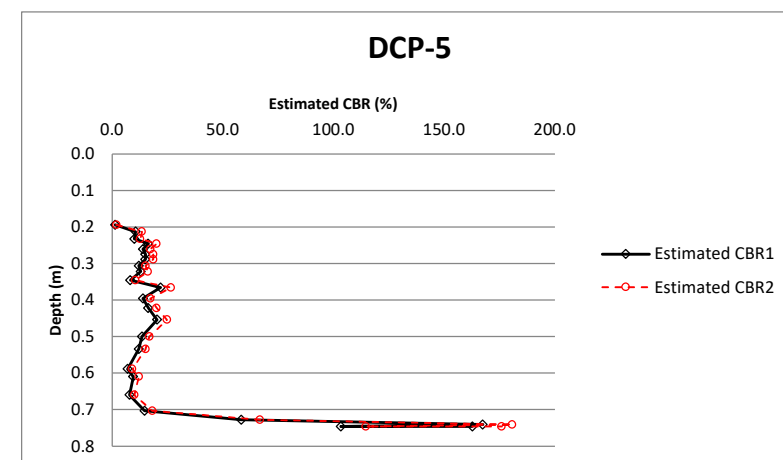
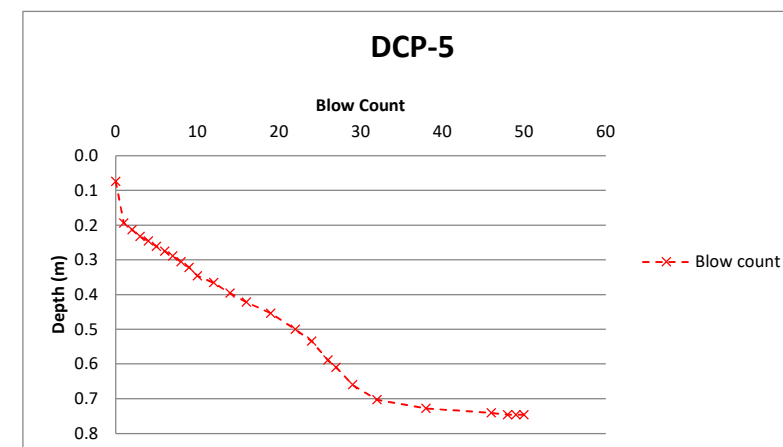
Blow count	Penetration (mm)	Penetration (m)	Penetration Index (DPI) mm/blow	Estimated CBR1 (%) ¹	Estimated CBR2 (%) ²
0	74	0.074			
1	194	0.194	120.0	1.4	1.9
2	213	0.213	19.0	11	13
3	233	0.233	20.0	10	13
4	246	0.246	13.0	16	20
5	261	0.261	15.0	14	17
6	275	0.275	14.0	15	19
7	289	0.289	14.0	15	19
8	306	0.306	17.0	12	15
9	322	0.322	16.0	13	16
10	346	0.346	24.0	8	10
12	366	0.366	10.0	22	26
14	396	0.396	15.0	14	17
16	422	0.422	13.0	16	20
19	454	0.454	10.7	20	25
22	500	0.500	15.3	14	17
24	534	0.534	17.0	12	15
26	589	0.589	27.5	7	9
27	610	0.610	21.0	10	12
29	660	0.660	25.0	8	10
32	703	0.703	14.3	15	18
38	728	0.728	4.2	58	67
46	741	0.741	1.6	167	181
48	746	0.746	2.5	103	115
49	746	0.746	1.7	163	176
50	746	0.746	0.0		

Notes:

1. CBR calculated based on Webster et al, 1992.
2. CBR calculated based on DMRB, 2008.
3. CBR values less than 2.5% highlighted in red and bold. Soils unsuitable in pavements.

Reference :

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APPENDIX K - RESULTS OF DYNAMIC CONE PENETROMETER (DCP) TESTING

Project:	Flying Start, Dowlais Primary School	
Project No.	7485d	
Test No.	DCP-6	

Date of Test:	26-Aug-20
Operator:	AB
Soil type:	see record for BH4 (Appendix H)
Soil condition:	saturated

Blow count	Penetration (mm)	Penetration (m)	Penetration Index (DPI) mm/blow	Estimated CBR1 (%) ¹	Estimated CBR2 (%) ²
0	84	0.084			
1	174	0.174	90.0	1.9	2.6
2	201	0.201	27.0	7	9
4	233	0.233	16.0	13	16
6	253	0.253	10.0	22	26
8	275	0.275	11.0	20	24
10	302	0.302	13.5	16	19
12	334	0.334	16.0	13	16
14	362	0.362	14.0	15	19
16	407	0.407	22.5	9	11
18	436	0.436	14.5	14	18
19	460	0.460	24.0	8	10
20	491	0.491	31.0	6	8
21	530	0.530	39.0	5	6
22	565	0.565	35.0	5	7
23	596	0.596	31.0	6	8
24	631	0.631	35.0	5	7
25	658	0.658	27.0	7	9
26	684	0.684	26.0	8	10
27	713	0.713	29.0	7	9
28	742	0.742	29.0	7	9
29	751	0.751	9.0	25	30
33	783	0.783	8.0	28	34
39	826	0.826	7.2	32	38
45	845	0.845	3.2	79	89
55	879	0.879	3.4	73	83
65	934	0.934	5.5	43	50
68	949	0.949	5.0	48	55

Notes:

1. CBR calculated based on Webster et al, 1992.
2. CBR calculated based on DMRB, 2008.
3. CBR values less than 2.5% highlighted in red and bold. Soils unsuitable in pavements.

Reference :

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- Highways Agency, 2008. Design Manual for Roads and Bridges (DMRB), Data for Pavement Assessment. HD29/08.

