

ROADLAB/MOSSLAB JV*Civil Engineering Materials Laboratory*

Bally Singel 7, Voorbaai, Mossel Bay

P.O. Box 35, Hartenbos, 6520

Tel. : (044) 695 2387. Fax.: 086 689 7135

e-mail : mosslab@roadlab.co.za



T0716

Job no: M11702

Order no: -

Date: 22-10-2018

Client: V3 Consulting Engineers
P.O. Box 730
Mossel Bay
6500

Description:

In Situ

Position / TP

Y 83431
X 3775053

TP D

Attention: Danie Wessels

Level:

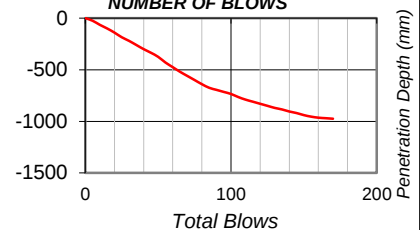
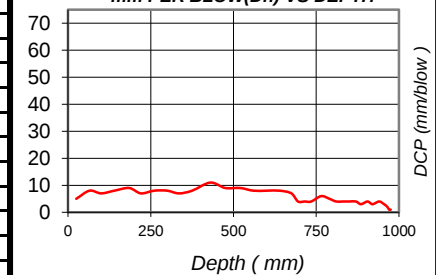
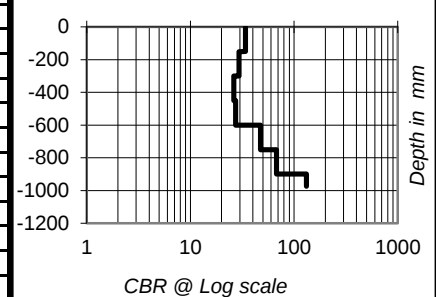
NGL

Project

Development of the farm Outeniquasbosch 149 and part 10 & 28 of the farm Hartenbos

DCP TEST REPORT

NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW	NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW
0	0			180			
5	25	25	5	185			
10	65	40	8	190			
15	100	35	7	195			
20	140	40	8	200			
25	185	45	9	205			
30	220	35	7	210			
35	260	40	8	215			
40	300	40	8	220			
45	335	35	7	225			
50	375	40	8	230			
55	430	55	11	235			
60	475	45	9	240			
65	520	45	9	245			
70	560	40	8	250			
75	600	40	8	255			
80	640	40	8	260			
85	675	35	7	265			
90	695	20	4	270			
95	715	20	4	275			
100	735	20	4	280			
105	765	30	6	285			
110	790	25	5	290			
115	810	20	4	295			
120	830	20	4	300			
125	850	20	4	305			
130	870	20	4	310			
135	885	15	3	315			
140	905	20	4	320			
145	920	15	3	325			
150	940	20	4	330			
155	955	15	3	335			
160	965	10	2	340			
165	970	5	1	345			
170	975	5	1	350			
175				355			

PENETRATION DEPTH VERSUS NUMBER OF BLOWS**mm PER BLOW(Dn) VS DEPTH****LAYER - STRENGTH DIAGRAM**

Comments:

Refusal @ 975mm**In Situ Layer Strength**

No.	Depth(mm) From-To	DN	Roads		Foundations
			CBR	UCS (kPa)	Bearing Capacity (kPa)
1	1-150	7	34	334	473
2	151-300	8	30	295	423
3	301-450	9	26	266	385
4	451-600	8	27	276	397
5	601-750	5	48	449	618
6	751-900	4	68	611	816
Max	901-975	2	132	1094	1388

Jaco van Rensburg
Technical Signatory

The Bearing Capacity and CBR should only be considered as an indication of the DCP test

#VALUE!

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Date: 22-10-2018

Client: V3 Consulting Engineers
P.O. Box 730
Mossel Bay
6500

Description:

In Situ

Position / TP

Y 83419
X 3774800

TP E

Attention: Danie Wessels

Level:

NGL

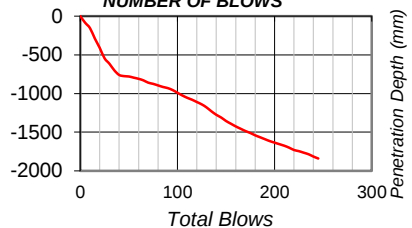
Project

Development of the farm Outeniquasbosch 149 and part 10 & 28 of the farm Hartenbos

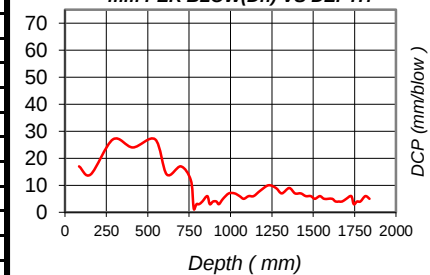
DCP TEST REPORT

NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW	NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW
0	0			180	1540	30	6
5	85	85	17	185	1565	25	5
10	155	70	14	190	1590	25	5
15	290	135	27	195	1615	25	5
20	410	120	24	200	1635	20	4
25	545	135	27	205	1655	20	4
30	615	70	14	210	1675	20	4
35	700	85	17	215	1700	25	5
40	760	60	12	220	1730	30	6
45	775	15	3	225	1745	15	3
50	780	5	1	230	1765	20	4
55	795	15	3	235	1785	20	4
60	810	15	3	240	1815	30	6
65	830	20	4	245	1840	25	5
70	860	30	6	250			
75	875	15	3	255			
80	895	20	4	260			
85	915	20	4	265			
90	930	15	3	270			
95	955	25	5	275			
100	990	35	7	280			
105	1025	35	7	285			
110	1055	30	6	290			
115	1080	25	5	295			
120	1110	30	6	300			
125	1140	30	6	305			
130	1180	40	8	310			
135	1230	50	10	315			
140	1275	45	9	320			
145	1310	35	7	325			
150	1355	45	9	330			
155	1390	35	7	335			
160	1425	35	7	340			
165	1455	30	6	345			
170	1485	30	6	350			
175	1510	25	5	355			

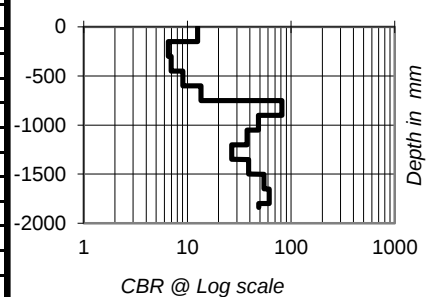
PENETRATION DEPTH VERSUS NUMBER OF BLOWS



mm PER BLOW(Dn) VS DEPTH



LAYER - STRENGTH DIAGRAM



Comments:

-

In Situ Layer Strength

No.	Depth(mm) From-To	DN	Roads		Foundations
			CBR	UCS (kPa)	Bearing Capacity (kPa)
1	1-150	16	13	139	214
2	151-300	26	7	78	128
3	301-450	25	7	83	134
4	451-600	20	9	104	165
5	601-750	15	14	149	228
6	751-900	4	82	722	949
Max	1801-1840	5	49	459	631

Jaco van Rensburg
Technical Signatory

The Bearing Capacity and CBR should only be considered as an indication of the DCP test

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Date: 22-10-2018

Client: V3 Consulting Engineers
P.O. Box 730
Mossel Bay
6500

Description:

In Situ

Position / TP

Y 83222
X 3774915

TP G

Attention: Danie Wessels

Level:

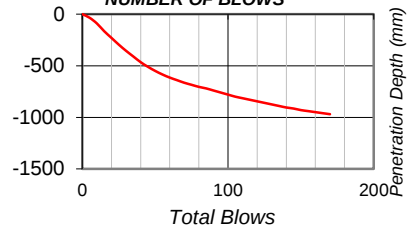
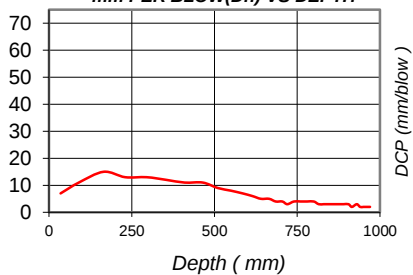
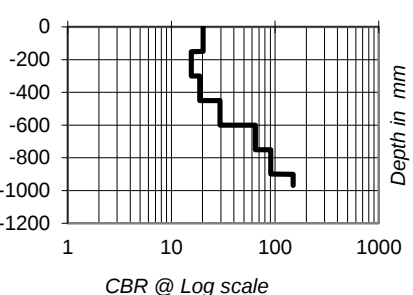
NGL

Project

Development of the farm Outeniquasbosch 149 and part 10 & 28 of the farm Hartenbos

DCP TEST REPORT

NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW	NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW
0	0			180			
5	35	35	7	185			
10	90	55	11	190			
15	165	75	15	195			
20	230	65	13	200			
25	295	65	13	205			
30	355	60	12	210			
35	410	55	11	215			
40	465	55	11	220			
45	510	45	9	225			
50	550	40	8	230			
55	585	35	7	235			
60	615	30	6	240			
65	640	25	5	245			
70	665	25	5	250			
75	685	20	4	255			
80	705	20	4	260			
85	720	15	3	265			
90	740	20	4	270			
95	760	20	4	275			
100	780	20	4	280			
105	800	20	4	285			
110	815	15	3	290			
115	830	15	3	295			
120	845	15	3	300			
125	860	15	3	305			
130	875	15	3	310			
135	890	15	3	315			
140	905	15	3	320			
145	915	10	2	325			
150	930	15	3	330			
155	940	10	2	335			
160	950	10	2	340			
165	960	10	2	345			
170	970	10	2	350			
175				355			

PENETRATION DEPTH VERSUS NUMBER OF BLOWS**mm PER BLOW(Dn) VS DEPTH****LAYER - STRENGTH DIAGRAM**

Comments:

Refusal @ 970mm**In Situ Layer Strength**

No.	Depth(mm) From-To	DN	Roads		Foundations
			CBR	UCS (kPa)	Bearing Capacity (kPa)
1	1-150	11	20	211	312
2	151-300	13	16	168	254
3	301-450	11	19	198	295
4	451-600	8	29	294	422
5	601-750	4	65	587	788
6	751-900	3	91	794	1035
Max	901-970	2	149	1219	1535

Jaco van Rensburg
Technical Signatory

The Bearing Capacity and CBR should only be considered as an indication of the DCP test

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Date: 22-10-2018

Client: V3 Consulting Engineers
P.O. Box 730
Mossel Bay
6500

Description:

In Situ

Position / TP

Y 83082
X 3775000

TP F

Attention: Danie Wessels

Level:

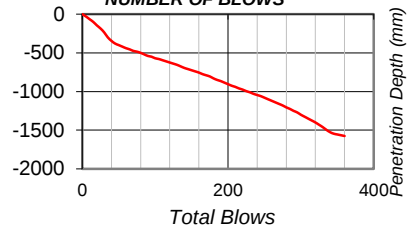
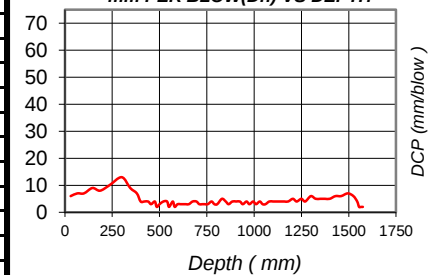
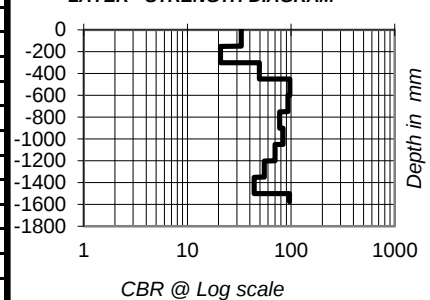
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Project

Development of the farm Outeniquasbosch 149 and part 10 & 28 of the farm Hartenbos

DCP TEST REPORT

NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW	NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW
0	0			180	830	25	5
5	30	30	6	185	850	20	4
10	65	35	7	190	865	15	3
15	100	35	7	195	885	20	4
20	145	45	9	200	905	20	4
25	185	40	8	205	925	20	4
30	235	50	10	210	940	15	3
35	300	65	13	215	960	20	4
40	345	45	9	220	975	15	3
45	380	35	7	225	995	20	4
50	400	20	4	230	1010	15	3
55	420	20	4	235	1030	20	4
60	440	20	4	240	1045	15	3
65	455	15	3	245	1060	15	3
70	475	20	4	250	1080	20	4
75	485	10	2	255	1100	20	4
80	500	15	3	260	1120	20	4
85	520	20	4	265	1140	20	4
90	540	20	4	270	1160	20	4
95	550	10	2	275	1180	20	4
100	570	20	4	280	1205	25	5
105	580	10	2	285	1225	20	4
110	595	15	3	290	1250	25	5
115	610	15	3	295	1270	20	4
120	625	15	3	300	1300	30	6
125	640	15	3	305	1325	25	5
130	655	15	3	310	1350	25	5
135	675	20	4	315	1375	25	5
140	695	20	4	320	1400	25	5
145	710	15	3	325	1430	30	6
150	725	15	3	330	1460	30	6
155	740	15	3	335	1495	35	7
160	755	15	3	340	1525	30	6
165	775	20	4	345	1545	20	4
170	790	15	3	350	1555	10	2
175	805	15	3	355	1565	10	2

PENETRATION DEPTH VERSUS NUMBER OF BLOWS**mm PER BLOW(Dn) VS DEPTH****LAYER - STRENGTH DIAGRAM**

Comments:

Refusal @ 1575mm**In Situ Layer Strength**

No.	Depth(mm) From-To	DN	Roads		Foundations
			CBR	UCS (kPa)	Bearing Capacity (kPa)
1	1-150	7	33	325	462
2	151-300	10	21	217	321
3	301-450	5	49	464	636
4	451-600	3	97	843	1092
5	601-750	3	93	810	1054
6	751-900	4	78	690	911
Max	1501-1575	3	96	836	1083

Jaco van Rensburg
Technical Signatory

The Bearing Capacity and CBR should only be considered as an indication of the DCP test

#VALUE!

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Order no: -

Date: 22-10-2018

Client: V3 Consulting Engineers
P.O. Box 730
Mossel Bay
6500

Description:

In Situ

Position / TP

Y 83235
X 3774968

TP H

Attention: Danie Wessels

Level:

NGL

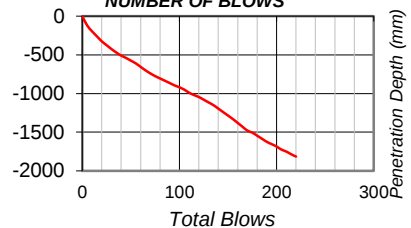
Project

Development of the farm Outeniquasbosch 149 and part 10 & 28 of the farm Hartenbos

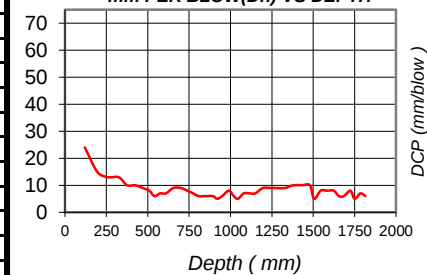
DCP TEST REPORT

NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW	NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW
0	0			180	1545	40	8
5	120	120	24	185	1585	40	8
10	195	75	15	190	1625	40	8
15	260	65	13	195	1655	30	6
20	325	65	13	200	1685	30	6
25	375	50	10	205	1725	40	8
30	425	50	10	210	1750	25	5
35	470	45	9	215	1785	35	7
40	510	40	8	220	1815	30	6
45	540	30	6	225			
50	575	35	7	230			
55	610	35	7	235			
60	655	45	9	240			
65	700	45	9	245			
70	740	40	8	250			
75	775	35	7	255			
80	805	30	6	260			
85	835	30	6	265			
90	865	30	6	270			
95	895	30	6	275			
100	920	25	5	280			
105	950	30	6	285			
110	990	40	8	290			
115	1020	30	6	295			
120	1045	25	5	300			
125	1080	35	7	305			
130	1115	35	7	310			
135	1150	35	7	315			
140	1195	45	9	320			
145	1240	45	9	325			
150	1285	45	9	330			
155	1330	45	9	335			
160	1380	50	10	340			
165	1430	50	10	345			
170	1480	50	10	350			
175	1505	25	5	355			

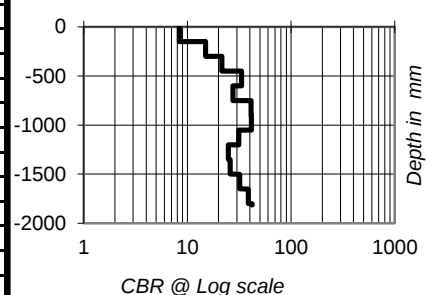
PENETRATION DEPTH VERSUS NUMBER OF BLOWS



mm PER BLOW(Dn) VS DEPTH



LAYER - STRENGTH DIAGRAM



Comments:

-

In Situ Layer Strength

No.	Depth(mm) From-To	DN	Roads		Foundations
			CBR	UCS (kPa)	Bearing Capacity (kPa)
1	1-150	21	8	97	155
2	151-300	14	15	162	246
3	301-450	10	21	223	328
4	451-600	7	33	328	466
5	601-750	8	27	277	399
6	751-900	6	41	396	551
Max	1801-1815	6	42	403	561

Jaco van Rensburg
Technical Signatory

The Bearing Capacity and CBR should only be considered as an indication of the DCP test

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Date: 22-10-2018

Client: V3 Consulting Engineers
P.O. Box 730
Mossel Bay
6500

Description:

In Situ

Position / TP

Y 83329
X 3774999

TP I

Attention: Danie Wessels

Level:

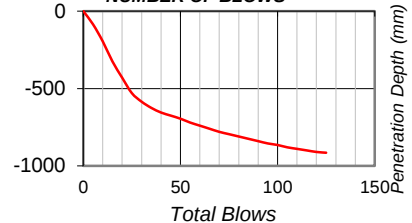
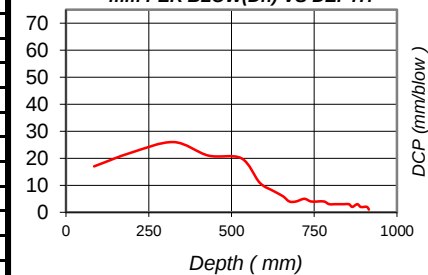
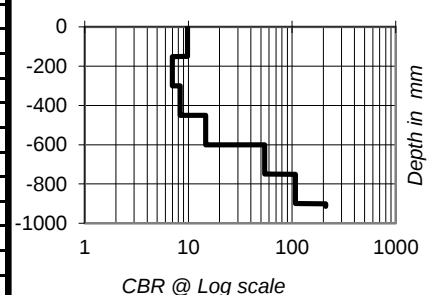
NGL

Project

Development of the farm Outeniquasbosch 149 and part 10 & 28 of the farm Hartenbos

DCP TEST REPORT

NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW	NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW
0	0			180			
5	85	85	17	185			
10	195	110	22	190			
15	325	130	26	195			
20	430	105	21	200			
25	530	100	20	205			
30	585	55	11	210			
35	625	40	8	215			
40	655	30	6	220			
45	675	20	4	225			
50	695	20	4	230			
55	720	25	5	235			
60	740	20	4	240			
65	760	20	4	245			
70	780	20	4	250			
75	795	15	3	255			
80	810	15	3	260			
85	825	15	3	265			
90	840	15	3	270			
95	855	15	3	275			
100	865	10	2	280			
105	880	15	3	285			
110	890	10	2	290			
115	900	10	2	295			
120	910	10	2	300			
125	915	5	1	305			
130				310			
135				315			
140				320			
145				325			
150				330			
155				335			
160				340			
165				345			
170				350			
175				355			

PENETRATION DEPTH VERSUS NUMBER OF BLOWS**mm PER BLOW(Dn) VS DEPTH****LAYER - STRENGTH DIAGRAM**

Comments:

Refusal @ 915mm**In Situ Layer Strength**

No.	Depth(mm) From-To	DN	Roads		Foundations
			CBR	UCS (kPa)	Bearing Capacity (kPa)
1	1-150	19	10	112	176
2	151-300	25	7	83	135
3	301-450	22	8	97	154
4	451-600	14	15	159	242
5	601-750	5	55	506	689
6	751-900	3	108	923	1187
Max	901-915	2	211	1667	2193

Jaco van Rensburg
Technical Signatory

The Bearing Capacity and CBR should only be considered as an indication of the DCP test

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6500

Description:

In Situ

Position / TP

Y 83337
X 3775100

TP A

Attention: Danie Wessels

Level:

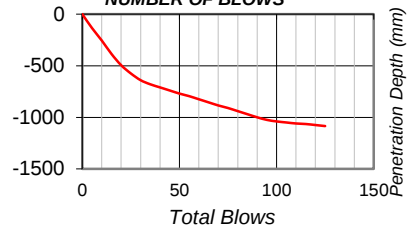
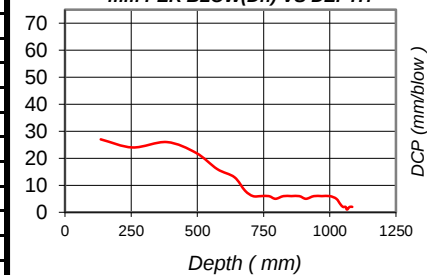
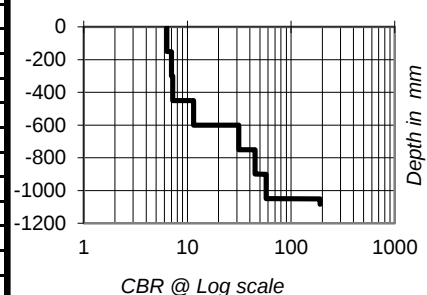
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Development of the farm Outeniquasbosch 149 and part 10 & 28 of the farm Hartenbos

DCP TEST REPORT

NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW	NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW
0	0			180			
5	135	135	27	185			
10	255	120	24	190			
15	385	130	26	195			
20	495	110	22	200			
25	575	80	16	205			
30	640	65	13	210			
35	680	40	8	215			
40	710	30	6	220			
45	740	30	6	225			
50	770	30	6	230			
55	795	25	5	235			
60	825	30	6	240			
65	855	30	6	245			
70	885	30	6	250			
75	910	25	5	255			
80	940	30	6	260			
85	970	30	6	265			
90	1000	30	6	270			
95	1025	25	5	275			
100	1040	15	3	280			
105	1050	10	2	285			
110	1060	10	2	290			
115	1065	5	1	295			
120	1075	10	2	300			
125	1085	10	2	305			
130				310			
135				315			
140				320			
145				325			
150				330			
155				335			
160				340			
165				345			
170				350			
175				355			

PENETRATION DEPTH VERSUS NUMBER OF BLOWS**mm PER BLOW(Dn) VS DEPTH****LAYER - STRENGTH DIAGRAM**

Comments:

Refusal @ 1085mm**In Situ Layer Strength**

No.	Depth(mm) From-To	DN	Roads		Foundations
			CBR	UCS (kPa)	Bearing Capacity (kPa)
1	1-150	27	6	76	124
2	151-300	25	7	83	135
3	301-450	24	7	85	138
4	451-600	17	11	128	199
5	601-750	8	31	310	442
6	751-900	6	45	427	591
Max	1051-1085	2	191	1523	1954

Jaco van Rensburg
Technical Signatory

The Bearing Capacity and CBR should only be considered as an indication of the DCP test

#VALUE!

ROADLAB/MOSSLAB JV*Civil Engineering Materials Laboratory*

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P.O. Box 35, Hartenbos, 6520

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e-mail : mossllab@roadlab.co.za



T0716

Job no: M11702

Order no: -

Date: 22-10-2018

Client: V3 Consulting Engineers
P.O. Box 730
Mossel Bay
6500

Description:

In Situ

Position / TP

Y 83137
X 3775057

TP B

Attention: Danie Wessels

Level:

NGL

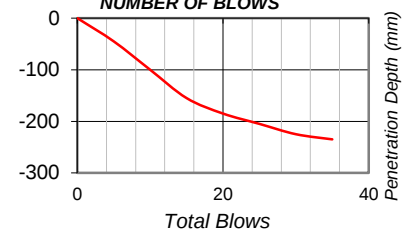
Project

Development of the farm Outeniquasbosch 149 and part 10 & 28 of the farm Hartenbos

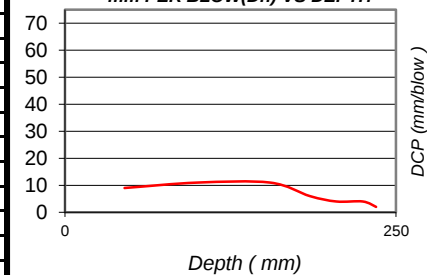
DCP TEST REPORT

NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW	NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW
0	0			180			
5	45	45	9	185			
10	100	55	11	190			
15	155	55	11	195			
20	185	30	6	200			
25	205	20	4	205			
30	225	20	4	210			
35	235	10	2	215			
40				220			
45				225			
50				230			
55				235			
60				240			
65				245			
70				250			
75				255			
80				260			
85				265			
90				270			
95				275			
100				280			
105				285			
110				290			
115				295			
120				300			
125				305			
130				310			
135				315			
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145				325			
150				330			
155				335			
160				340			
165				345			
170				350			
175				355			

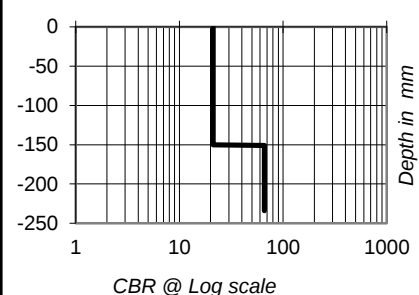
PENETRATION DEPTH VERSUS NUMBER OF BLOWS



mm PER BLOW(Dn) VS DEPTH



LAYER - STRENGTH DIAGRAM



Comments:

Refusal @ 235mm

In Situ Layer Strength

No.	Depth(mm) From-To	DN	Roads		Foundations
			CBR	UCS (kPa)	Bearing Capacity (kPa)
1	1-150	10	21	220	325
Max	151-235	4	66	599	802

Jaco van Rensburg
Technical Signatory

The Bearing Capacity and CBR should only be considered as an indication of the DCP test

#VALUE!

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T0716

Job no: M11702

Order no: -

Date: 22-10-2018

Client: V3 Consulting Engineers
P.O. Box 730
Mossel Bay
6500

Description:

In Situ

Position / TP

Y 83129
X 3775149

TP C

Attention: Danie Wessels

Level:

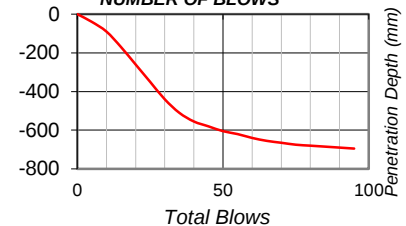
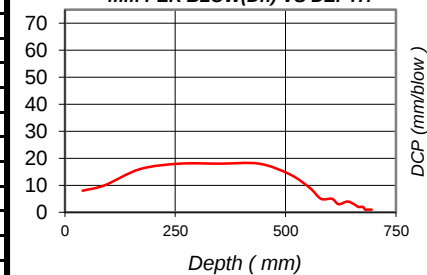
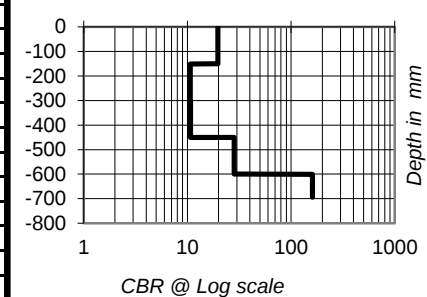
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Project

Development of the farm Outeniquasbosch 149 and part 10 & 28 of the farm Hartenbos

DCP TEST REPORT

NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW	NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW
0	0			180			
5	40	40	8	185			
10	90	50	10	190			
15	170	80	16	195			
20	260	90	18	200			
25	350	90	18	205			
30	440	90	18	210			
35	510	70	14	215			
40	555	45	9	220			
45	580	25	5	225			
50	605	25	5	230			
55	620	15	3	235			
60	640	20	4	240			
65	655	15	3	245			
70	665	10	2	250			
75	675	10	2	255			
80	680	5	1	260			
85	685	5	1	265			
90	690	5	1	270			
95	695	5	1	275			
100				280			
105				285			
110				290			
115				295			
120				300			
125				305			
130				310			
135				315			
140				320			
145				325			
150				330			
155				335			
160				340			
165				345			
170				350			
175				355			

PENETRATION DEPTH VERSUS NUMBER OF BLOWS**mm PER BLOW(Dn) VS DEPTH****LAYER - STRENGTH DIAGRAM**

Comments:

Refusal @ 695mm**In Situ Layer Strength**

No.	Depth(mm) From-To	DN	Roads		Foundations
			CBR	UCS (kPa)	Bearing Capacity (kPa)
1	1-150	11	20	207	307
2	151-300	18	11	120	188
3	301-450	18	11	121	188
4	451-600	8	28	284	409
Max	601-695	2	161	1299	1628

Jaco van Rensburg
Technical Signatory

The Bearing Capacity and CBR should only be considered as an indication of the DCP test

#VALUE!

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e-mail : mosslab@roadlab.co.za



T0716

Job no: M11702

Order no: -

Date: 22-10-2018

Client: V3 Consulting Engineers
P.O. Box 730
Mossel Bay
6500

Description:

In Situ

Position / TP

Y 83185
X 3775199

TP J

Attention: Danie Wessels

Level:

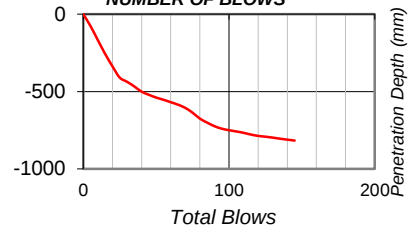
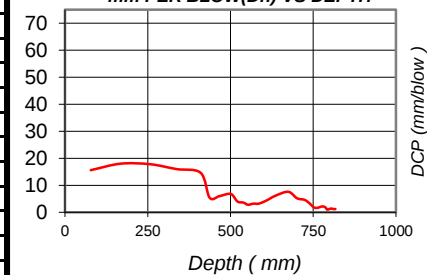
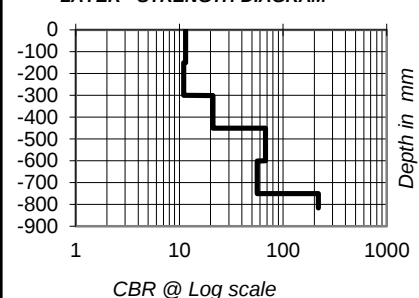
NGL

Project

Development of the farm Outeniquasbosch 149 and part 10 & 28 of the farm Hartenbos

DCP TEST REPORT

NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW	NUMBER OF BLOWS	DEPTH READING (mm)	PEN. PER 5 BLOWS	mm PER BLOW
0	0			180			
5	78	78	15.6	185			
10	168	90	18	190			
15	257	89	17.8	195			
20	337	80	16	200			
25	410	73	14.6	205			
30	437	27	5.4	210			
35	467	30	6	215			
40	501	34	6.8	220			
45	521	20	4	225			
50	539	18	3.6	230			
55	553	14	2.8	235			
60	569	16	3.2	240			
65	585	16	3.2	245			
70	606	21	4.2	250			
75	637	31	6.2	255			
80	675	38	7.6	260			
85	701	26	5.2	265			
90	724	23	4.6	270			
95	740	16	3.2	275			
100	750	10	2	280			
105	758	8	1.6	285			
110	767	9	1.8	290			
115	778	11	2.2	295			
120	787	9	1.8	300			
125	792	5	1	305			
130	798	6	1.2	310			
135	805	7	1.4	315			
140	811	6	1.2	320			
145	817	6	1.2	325			
150				330			
155				335			
160				340			
165				345			
170				350			
175				355			

PENETRATION DEPTH VERSUS NUMBER OF BLOWS**mm PER BLOW(Dn) VS DEPTH****LAYER - STRENGTH DIAGRAM**

Comments:

Refusal @ 820mm**In Situ Layer Strength**

No.	Depth(mm) From-To	DN	Roads		Foundations
			CBR	UCS (kPa)	Bearing Capacity (kPa)
1	1-150	17	12	129	200
2	151-300	17	11	124	193
3	301-450	10	21	219	323
4	451-600	4	68	614	820
5	601-750	5	56	521	707
Max	751-817	1	219	1721	2284

Jaco van Rensburg
Technical Signatory

The Bearing Capacity and CBR should only be considered as an indication of the DCP test

#VALUE!