

# **Appendix B**

## **Penetration Data Report**

# Penetration Data Report

**Project Name: koormook**

**Table B.1:** Penetration Data Report to Chainage 0.000

Chainage (km)	0.000	Surface Type	Unpaved
Direction	N-S	Thickness (mm)	0
Location/Offset	Lane 2	Base Type	
Cone Angle (degrees)	60	Thickness (mm)	
Zero Error (mm)	20	Surface Moisture	Dry
Test Date	5/5/2011 8:46:17 AM	Moisture Adjustment Factor	Not adjusted

  

No.	Blows	Cumulative Blows	Penetration Depth	Penetration Rate
1	0	0	63	0.00
2	5	5	75	2.40
3	5	10	85	2.00
4	5	15	90	1.00
5	10	25	100	1.00
6	10	35	105	0.50
7	15	50	116	0.73
8	15	65	128	0.80
9	15	80	140	0.80
10	15	95	144	0.27
11	20	115	169	1.25
12	20	135	190	1.05
13	20	155	203	0.65
14	20	175	270	3.35
15	20	195	340	3.50
16	20	215	395	2.75
17	20	235	490	4.75
18	20	255	595	5.25

**Table B.2:** Penetration Data Report to Chainage 0.500

Chainage (km)	0.500	Surface Type	Unpaved
Direction	N-S	Thickness (mm)	0
Location/Offset	Lane 2	Base Type	
Cone Angle (degrees)	60	Thickness (mm)	
Zero Error (mm)	20	Surface Moisture	Dry
Test Date	5/5/2011 8:46:17 AM	Moisture Adjustment Factor	Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth	Penetration Rate
1	0	0	62	0.00
2	5	5	82	4.00
3	5	10	89	1.40
4	5	15	91	0.40
5	10	25	94	0.30
6	10	35	112	1.80
7	10	45	134	2.20
8	15	60	147	0.87
9	15	75	165	1.20
10	15	90	175	0.67
11	20	110	182	0.35
12	20	130	200	0.90
13	20	150	217	0.85
14	25	175	280	2.52
15	25	200	291	0.44
16	25	225	304	0.52
17	25	250	320	0.64
18	25	275	345	1.00
19	25	300	365	0.80
20	25	325	387	0.88

**Table B.3:** Penetration Data Report to Chainage 1.000

Chainage (km)	1.000	Surface Type	Unpaved
Direction	N-S	Thickness (mm)	0
Location/Offset	Lane 2	Base Type	
Cone Angle (degrees)	60	Thickness (mm)	
Zero Error (mm)	20	Surface Moisture	Dry
Test Date	5/5/2011 8:46:17 AM	Moisture Adjustment Factor	Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth	Penetration Rate
1	0	0	67	0.00
2	5	5	87	4.00
3	5	10	97	2.00
4	5	15	110	2.60
5	10	25	133	2.30
6	10	35	160	2.70
7	10	45	200	4.00
8	15	60	222	1.47
9	15	75	232	0.67
10	15	90	241	0.60
11	20	110	253	0.60
12	20	130	280	1.35

**Table B.4:** Penetration Data Report to Chainage 1.500

Chainage (km)	1.500	Surface Type	Unpaved
Direction	N-S	Thickness (mm)	0
Location/Offset	Lane 2	Base Type	
Cone Angle (degrees)	60	Thickness (mm)	
Zero Error (mm)	20	Surface Moisture	Dry
Test Date	5/5/2011 8:46:17 AM	Moisture Adjustment Factor	Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth	Penetration Rate
1	0	0	73	0.00
2	10	10	100	2.70
3	10	20	118	1.80
4	15	35	135	1.13
5	15	50	151	1.07
6	20	70	216	3.25
7	20	90	280	3.20
8	20	110	320	2.00
9	25	135	364	1.76
10	25	160	432	2.72
11	25	185	515	3.32
12	25	210	565	2.00
13	25	235	579	0.56
14	25	260	597	0.72
15	25	285	600	0.12

**Table B.5:** Penetration Data Report to Chainage 2.000

Chainage (km)	2.000	Surface Type	Unpaved
Direction	N-S	Thickness (mm)	0
Location/Offset	Lane 2	Base Type	
Cone Angle (degrees)	60	Thickness (mm)	
Zero Error (mm)	20	Surface Moisture	Dry
Test Date	5/5/2011 8:46:17 AM	Moisture Adjustment Factor	Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth	Penetration Rate
1	0	0	72	0.00
2	10	10	105	3.30
3	10	20	117	1.20
4	10	30	134	1.70
5	15	45	140	0.40
6	15	60	142	0.13
7	20	80	155	0.65
8	20	100	165	0.50
9	25	125	180	0.60
10	25	150	193	0.52
11	25	175	215	0.88
12	25	200	263	1.92
13	25	225	360	3.88
14	25	250	458	3.92
15	20	270	567	5.45
16	15	285	577	0.67
17	15	300	614	2.47
18	15	315	646	2.13
19	15	330	674	1.87
20	15	345	674	0.00

**Table B.6:** Penetration Data Report to Chainage 2.500

Chainage (km)	2.500	Surface Type	Unpaved
Direction	N-S	Thickness (mm)	0
Location/Offset	Lane 2	Base Type	
Cone Angle (degrees)	60	Thickness (mm)	
Zero Error (mm)	20	Surface Moisture	Dry
Test Date	5/5/2011 8:46:17 AM	Moisture Adjustment Factor	Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth	Penetration Rate
1	0	0	67	0.00
2	10	10	95	2.80
3	10	20	110	1.50
4	10	30	113	0.30
5	15	45	140	1.80
6	15	60	147	0.47
7	15	75	170	1.53
8	20	95	175	0.25
9	20	115	220	2.25
10	20	135	280	3.00
11	25	160	340	2.40
12	25	185	405	2.60
13	25	210	425	0.80
14	25	235	438	0.52
15	25	260	442	0.16
16	25	285	445	0.12

**Table B.7:** Penetration Data Report to Chainage 3.000

Chainage (km)	3.000	Surface Type	Unpaved
Direction	N-S	Thickness (mm)	0
Location/Offset	Lane 2	Base Type	
Cone Angle (degrees)	60	Thickness (mm)	
Zero Error (mm)	20	Surface Moisture	Dry
Test Date	5/5/2011 8:46:17 AM	Moisture Adjustment Factor	Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth	Penetration Rate
1	0	0	70	0.00
2	10	10	102	3.20
3	10	20	115	1.30
4	15	35	124	0.60
5	15	50	124	0.00
6	20	70	139	0.75
7	20	90	145	0.30
8	25	115	155	0.40
9	25	140	166	0.44
10	25	165	183	0.68
11	25	190	200	0.68
12	25	215	218	0.72
13	25	240	233	0.60
14	25	265	253	0.80
15	25	290	265	0.48
16	25	315	295	1.20
17	25	340	310	0.60
18	25	365	318	0.32
19	25	390	325	0.28
20	25	415	325	0.00



**Table B.8:** Penetration Data Report to Chainage 3.500

Chainage (km)	3.500	Surface Type	Unpaved
Direction	N-S	Thickness (mm)	0
Location/Offset	Lane 2	Base Type	
Cone Angle (degrees)	60	Thickness (mm)	
Zero Error (mm)	20	Surface Moisture	Dry
Test Date	5/5/2011 8:46:17 AM	Moisture Adjustment Factor	Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth	Penetration Rate
1	0	0	65	0.00
2	10	10	129	6.40
3	10	20	137	0.80
4	10	30	147	1.00
5	15	45	160	0.87
6	15	60	181	1.40
7	15	75	194	0.87
8	20	95	207	0.65
9	20	115	216	0.45
10	20	135	225	0.45
11	20	155	235	0.50
12	25	180	255	0.80
13	25	205	260	0.20
14	25	230	270	0.40
15	25	255	280	0.40
16	25	280	280	0.00

**Table B.9:** Penetration Data Report to Chainage 4.000

Chainage (km)	4.000	Surface Type	Unpaved
Direction	N-S	Thickness (mm)	0
Location/Offset	Lane 2	Base Type	
Cone Angle (degrees)	60	Thickness (mm)	
Zero Error (mm)	20	Surface Moisture	Dry
Test Date	5/5/2011 8:46:17 AM	Moisture Adjustment Factor	Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth	Penetration Rate
1	0	0	65	0.00
2	10	10	88	2.30
3	10	20	97	0.90
4	10	30	110	1.30
5	15	45	123	0.87
6	15	60	135	0.80
7	15	75	144	0.60
8	20	95	150	0.30
9	20	115	155	0.25
10	20	135	155	0.00

**Table B.10:** Penetration Data Report to Chainage 4.500

Chainage (km)	4.500	Surface Type	Unpaved
Direction	N-S	Thickness (mm)	0
Location/Offset	Lane 2	Base Type	
Cone Angle (degrees)	60	Thickness (mm)	
Zero Error (mm)	20	Surface Moisture	Dry
Test Date	5/5/2011 8:46:17 AM	Moisture Adjustment Factor	Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth	Penetration Rate
1	0	0	71	0.00
2	10	10	84	1.30
3	10	20	94	1.00
4	15	35	104	0.67
5	15	50	110	0.40
6	20	70	121	0.55
7	20	90	138	0.85
8	20	110	167	1.45
9	15	125	210	2.87
10	15	140	250	2.67
11	15	155	275	1.67
12	15	170	305	2.00
13	15	185	345	2.67
14	15	200	375	2.00
15	10	210	425	5.00
16	10	220	475	5.00
17	10	230	527	5.20
18	10	240	572	4.50
19	10	250	606	3.40
20	12	262	655	4.08
21	10	272	695	4.00
22	10	282	757	6.20
23	10	292	868	11.10

**Table B.11:** Penetration Data Report to Chainage 5.000

Chainage (km)	5.000	Surface Type	Unpaved
Direction	N-S	Thickness (mm)	0
Location/Offset	Lane 2	Base Type	
Cone Angle (degrees)	60	Thickness (mm)	
Zero Error (mm)	20	Surface Moisture	Dry
Test Date	5/5/2011 8:46:17 AM	Moisture Adjustment Factor	Not adjusted

No.	Blows	Cumulative Blows	Penetration Depth	Penetration Rate
1	0	0	63	0.00
2	10	10	86	2.30
3	10	20	100	1.40
4	15	35	110	0.67
5	15	50	115	0.33
6	15	65	120	0.33
7	20	85	126	0.30
8	20	105	132	0.30
9	20	125	137	0.25
10	25	150	141	0.16
11	25	175	145	0.16