APPENDIX "C"

LABORATORY TEST REPORTS

LINTIN GEOTECHNICAL PTY LTD
ABN 31 077 518 168

P.O. Box 289
BERRIMAH N.T. 0828
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PH: (08) 8932 4022 FAX: (08) 8932 4243
RS 058 Rev 01

CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD JOB #: PN 358

PROJECT: VICTORIA HIGHWAY 184 – 220km REPORT #: LG04/1866 (1 OF 2)

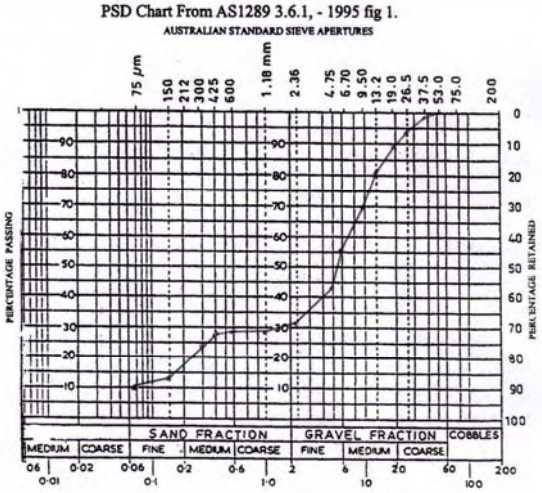
LOCATION: SITE 20 – STOCKPILE 1 TEST METHODS: AS1289,2.1.1,3.1.1,3.1.2,3.2.1,3.3.1,3.4.1,3.6.1,1.2.1,Cl.6.4b, AS1141.3.1 Cl. 6.9

DATE OF TEST: 04/01/05 REQUEST #: N/A ORDER #: 86

Lab.Ref.Number	TN 40841	Sampled by & Date	CLIENT 20/12/04
Field Identification	-	Depth	N/A
Material	SANDSTONE/LATERITE	Chainage, Offset	SITE 20 – STOCKPILE 1

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	100		
37.5	98		
26.5	94		
19	89		
13.2	81		
9.5	70		
6.7	56		
4.75	43		
2.36	31		
1.18	28		
0.600	28		
0.425	27		
0.300	24		
0.150	13		
0.075	10		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*		
Test	Sample Result			
Liquid Limit	N.O			
Plastic Limit	N.O			
Plastic Index	N.P			
Linear Shrinkage	0.5			
PI*%<0.425mm	0			

PARTICLE SIZE - mm

Atterberg Limits Test Notes	
Prep Method (P.I)	Air Dried/Wet Sieved
Size of LS Mould	250
Curling/Crumbling	NO

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Approved Signatory
D. Tinning

Date: 11/01/05

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RS003 Rev 03

CALIFORNIA BEARING RATIO TEST REPORT

CLIENT:	CAMPBELL PROJECT MANAGERS	JOB	PN358
PROJECT:	VICTORIA HIGHWAY CH: 184 – 220km	REPORT#	LG04/1866 (2 OF 2)
LOCATION:	SITE 20 – STOCKPILE 1	TEST METHODS:	AS 1289 2.1.1, 5.2.1, 6.1.1, 1.2.1
REQUEST#	N/A	ORDER#	86

GENERAL INFORMATION			
Lab. Ref Number	TN 40841	Field Identification	-
Sampled By/Date	CLIENT 20/12/04	Depth	N/A
Material	SANDSTONE/LATERITE	Location	SITE 20
Days Soaked/Unsoaked	4 DAYS SOAKED	Offset	STOCKPILE 1
Date Tested	04/01/05	Tested By	P. STACEY
Compaction Effort	100 % MODIFIED	Blows Per Layer	53
Material >19.0mm (%)	11	Material >19.0mm	EXCLUDED
Mass Of Surcharge (kg)	4.5		

TEST DATA			
Max. Dry Density (t/m^3)	2.29	Compaction Required (%)	100.0
Optimum Moist. Content (%)	6.9	Moist. Content Required (%)	100.0

RESULTS		BEFORE SOAKING	AFTER SOAKING
Density Ratio at Compaction	(%)	100	
Moisture Ratio At Compaction	(%)	107	
Dry Density	(t/m^3)		2.28
Moisture Content - Top 30mm	(%)		8.0
- Entire Depth	(%)		7.5
Swell/Consolidation	(%)		0.0
CALIFORNIAN BEARING RATIO 2.5mm			**170**
5.0mm			**200**

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CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD JOB #: PN 358

PROJECT: VICTORIA HIGHWAY 184 – 220km REPORT #: LG04/1867 (1 OF 2)

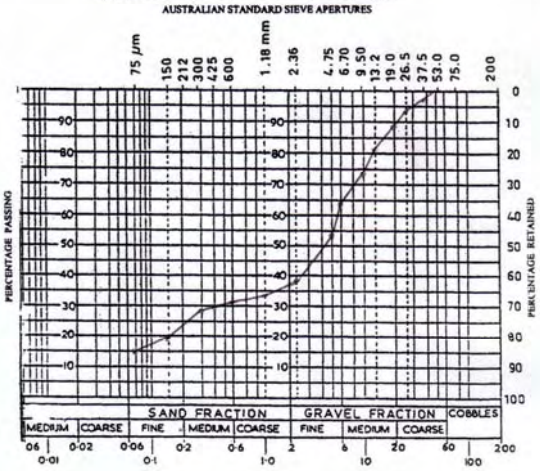
LOCATION: SITE 20 – STOCKPILE 2 TEST METHODS: AS1289.2.1.1,3.1.1,3.1.2,3.2.1,3.3.1,3.4.1,3.6.1,1 ~~2.1,Cl.6.4b, AS1141.3.1 Cl. 6.9~~

DATE OF TEST: 04/01/05 REQUEST #: N/A ORDER #: 86

Lab.Ref.Number	TN 40842	Sampled by & Date	CLIENT 20/12/04
Field Identification	-	Depth	N/A
Material	SANDSTONE/LATERITE	Chainage, Offset	SITE 20 – STOCKPILE 2

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	100		
37.5	97		
26.5	93		
19	88		
13.2	81		
9.5	73		
6.7	64		
4.75	54		
2.36	38		
1.18	33		
0.600	31		
0.425	30		
0.300	28		
0.150	19		
0.075	15		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*		
Test	Sample Result			
Liquid Limit	27			
Plastic Limit	14			
Plastic Index	13			
Linear Shrinkage	6.5			
PI*%<0.425mm	390			

Atterberg Limits Test Notes	
Prep Method (P.I)	Air Dried/Wet Sieved
Size of LS Mould	250
Curling/Crumbling	NO

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RS003 Rev 03

CALIFORNIA BEARING RATIO TEST REPORT

CLIENT:	CAMPBELL PROJECT MANAGERS	JOB	PN358
PROJECT:	VICTORIA HIGHWAY CH: 184 – 220km	REPORT#	LG04/1867 (2 OF 2)
LOCATION:	SITE 20 – STOCKPILE 2	TEST METHODS:	AS 1289 2.1.1, 5.2.1, 6.1.1, 1.2.1
REQUEST#	N/A	ORDER#	86

GENERAL INFORMATION			
Lab. Ref Number	TN 40842	Field Identification	-
Sampled By/Date	CLIENT 20/12/04	Depth	N/A
Material	SANDSTONE/LATERITE	Location	SITE 20
Days Soaked/Unsoaked	4 DAYS SOAKED	Offset	STOCKPILE 2
Date Tested	04/01/05	Tested By	P. STACEY
Compaction Effort	100 % MODIFIED	Blows Per Layer	53
Material >19.0mm (%)	12	Material >19.0mm	EXCLUDED
Mass Of Surcharge (kg)	4.5		

TEST DATA			
Max. Dry Density (t/m^3)	2.29	Compaction Required (%)	100.0
Optimum Moist. Content (%)	7.4	Moist. Content Required (%)	100.0

RESULTS		BEFORE SOAKING	AFTER SOAKING
Density Ratio at Compaction	(%)	100	
Moisture Ratio At Compaction	(%)	99	
Dry Density	(t/m^3)		2.28
Moisture Content - Top 30mm	(%)		10.0
- Entire Depth	(%)		8.6
Swell/Consolidation	(%)		0.0
CALIFORNIAN BEARING RATIO 2.5mm			**180**
5.0mm			**150**

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Date 11/01/05

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RS 058 Rev 01

CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD JOB #: PN 358

PROJECT: VICTORIA HIGHWAY 184 – 220km REPORT #: LG04/1868 (1 OF 2)

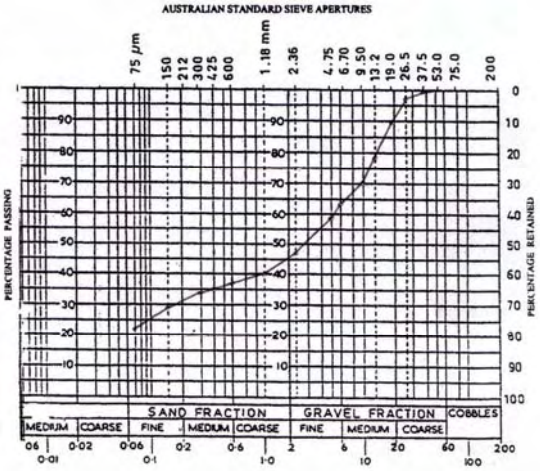
LOCATION: SITE 21 – STOCKPILE TEST METHODS: AS1289,2.1.1,3.1.1,3.1.2,3.2.1,3.3.1,3.4.1,3.6.1,1.2.1,Cl.6.4b, AS1141.3.1 Cl. 6.9

DATE OF TEST: 04/01/05 REQUEST #: N/A ORDER #: 86

Lab.Ref.Number	TN 40843	Sampled by & Date	CLIENT 20/12/04
Field Identification	-	Depth	N/A
Material	CHERT GRAVEL	Chainage, Offset	SITE 21 – STOCKPILE

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	100		
37.5	99		
26.5	97		
19	90		
13.2	78		
9.5	70		
6.7	63		
4.75	58		
2.36	47		
1.18	40		
0.600	37		
0.425	35		
0.300	34		
0.150	29		
0.075	22		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*		
Test	Sample Result			
Liquid Limit	33			
Plastic Limit	17			
Plastic Index	16			
Linear Shrinkage	6.5			
PI*%<0.425mm	560			

Atterberg Limits Test Notes	
Prep Method (P.I)	Air Dried/Wet Sieved
Size of LS Mould	254
Curling/Crumbling	NO

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RS003 Rev 03

CALIFORNIA BEARING RATIO TEST REPORT

CLIENT:	CAMPBELL PROJECT MANAGERS	JOB	PN358
PROJECT:	VICTORIA HIGHWAY CH: 184 – 220km	REPORT#	LG04/1868 (2 OF 2)
LOCATION:	SITE 21 – STOCKPILE	TEST METHODS:	AS 1289 2.1.1, 5.2.1, 6.1.1, 1.2.1
REQUEST#	N/A	ORDER#	86

GENERAL INFORMATION			
Lab. Ref Number	TN 40843	Field Identification	-
Sampled By/Date	CLIENT 20/12/04	Depth	N/A
Material	CHERT GRAVEL	Location	SITE 21
Days Soaked/Unsoaked	4 DAYS SOAKED	Offset	STOCKPILE
Date Tested	04/01/05	Tested By	P. STACEY
Compaction Effort	100 % MODIFIED	Blows Per Layer	53
Material >19.0mm (%)	10	Material >19.0mm	EXCLUDED
Mass Of Surcharge (kg)	4.5		

TEST DATA			
Max. Dry Density (t/m^3)	1.83	Compaction Required (%)	100.0
Optimum Moist. Content (%)	9.5	Moist. Content Required (%)	100.0

RESULTS		BEFORE SOAKING	AFTER SOAKING
Density Ratio at Compaction	(%)	101	
Moisture Ratio At Compaction	(%)	97	
Dry Density	(t/m^3)		1.83
Moisture Content - Top 30mm	(%)		17.7
- Entire Depth	(%)		16.0
Swell/Consolidation	(%)		0.0
CALIFORNIAN BEARING RATIO 2.5mm			**120**
5.0mm			**100**

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Date 11/01/05

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RS 058 Rev 01

CLASSIFICATION TEST REPORT

CLIENT: RMG GEOTECHNICAL CONSULTANTS JOB #: PN207

PROJECT: VICTORIA HWY CH: 185.8 – 229.1km GRAVEL SEARCH REPORT #: LG04/1699 (1 of 2)

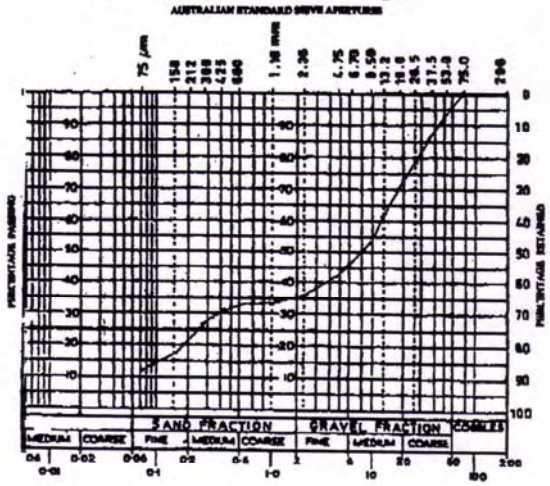
LOCATION: EXISTING STOCKPILE AREA SOUTH OF COOLABAH PLATEAU TURN OFF TEST METHODS: AS1289.2.1.1,3.1.1,~~3.1.2~~,3.2.1,3.3.1,3.4.1,3.6.1,~~2.1,Cl.6.4b, AS1141.3.1 Cl. 6.2~~

DATE OF TEST: 01/12/04 **SITE 22** REQUEST #: N/A ORDER #: N/A

Lab.Ref.Number	TN 40641	Sampled by & Date	CLIENT 26/11/04
Field Identification	1	Depth	N/S
Material	PROPOSED BASECOURSE	Chainage, Offset	EXISTING STOCKPILE AREA SOUTH OF COOLABAH PLATEAU TURN OFF

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	100		
53	94		
37.5	86		
26.5	79		
19	70		
13.2	61		
9.5	54		
6.7	46		
4.75	42		
2.36	35		
1.18	34		
0.600	32		
0.425	30		
0.300	27		
0.150	17		
0.075	12		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*		
Test	Sample Result			
Liquid Limit	17			
Plastic Limit	15			
Plastic Index	2			
Linear Shrinkage	1.0			
PI*%<0.425mm	60			

PARTICLE SIZE - mm

Atterberg Limites Test Notes	
Prep Method (P.I)	Air Dried/Wet Sieved
Size of LS Mould	250
Curling/Crumbling	NO

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A. Lindsey

Date: 07/12/04

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RS003 Rev 03

CALIFORNIA BEARING RATIO TEST REPORT

CLIENT: RMG CONSULTANTS JOB PN 207

PROJECT: VICTORIA HWY CH: 185.8 – 229.1km GRAVEL SEARCH REPORT# LG04/1747 (2 OF 2)

LOCATION: EXISTING STOCKPILE AREA SOUTH OF COOLIBAH TURN OFF TEST METHODS: AS 1289 2.1.1, 5.2.1, 6.1.1, 1.2.1

REQUEST# N/A **SITE 22** ORDER# N/A

GENERAL INFORMATION			
Lab. Ref Number	TN 40641	Field Identification	1
Sampled By/Date	CLIENT 26/11/04	Depth	N/A
Material	PROPOSED B'COURSE	Location	EXISTING STOCKPILE AREA
Days Soaked/Unsoaked	4 DAY SOAKED	Offset	SOUTH OF COOLIBAH TURN OFF
Date Tested	06/12/04	Tested By	B. ALDRIDGE
Compaction Effort	100% MODIFIED	Blows Per Layer	53
Material >19.0mm (%)	30	Material >19.0mm	EXCLUDED
Mass Of Surcharge (kg)	4.5		

TEST DATA			
Max. Dry Density (t/m^3)	2.23	Compaction Required (%)	100.0
Optimum Moist. Content (%)	7.3	Moist. Content Required (%)	100.0

RESULTS		BEFORE SOAKING	AFTER SOAKING
Density Ratio at Compaction	(%)	100	
Moisture Ratio At Compaction	(%)	92	
Dry Density	(t/m^3)		2.24
Moisture Content - Top 30mm	(%)		8.5
- Entire Depth	(%)		7.8
Swell/Consolidation	(%)		0.0
CALIFORNIAN BEARING RATIO 2.5mm			240
5.0mm			240

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Date 07/12/04

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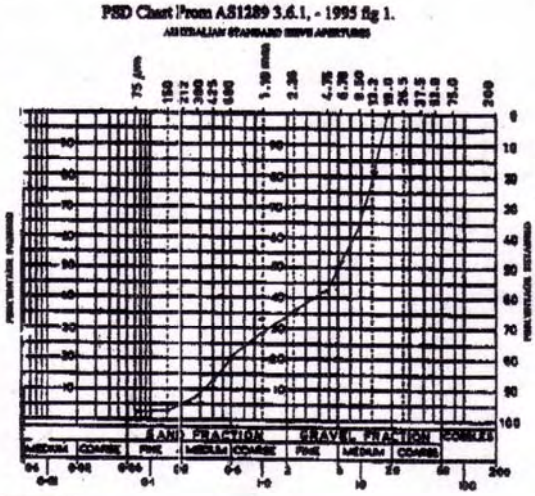
CLASSIFICATION TEST REPORT

CLIENT:	RMG GEOTECHNICAL CONSULTANTS		JOB #: PN207
PROJECT:	VICTORIA HIGHWAY CH: 185.8 – 229.1km		REPORT #: LG04/1779
LOCATION:	VICTORIA RIVER - CRUSHED TO -20mm	TEST METHODS:	AS1289.2.1.1,3.1.1, ~~2.1.2~~,3.2.1,3.3.1,3.4.1,3.6.1, ~~R2.4,Cl.6.4b, AS1141.3.1 Cl. 6.0~~
DATE OF TEST:	15/12/04	REQUEST #: N/A	ORDER #: N/A

Lab.Ref.Number	TN 40692	Sampled by & Date	CLIENT 1/12/04
Field Identification	RG 7	Depth	N/S
Material	CRUSHED RIVER GRAVEL	Chainage, Offset	VICTORIA RIVER – CRUSHED TO – 20mm

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75			
53			
37.5			
26.5			
19	100		
13.2	80		
9.5	63		
6.7	51		
4.75	43		
2.36	35		
1.18	29		
0.600	20		
0.425	13		
0.300	7		
0.150	3		
0.075	2		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*		
Test	Sample Result			
Liquid Limit	-			
Plastic Limit	-			
Plastic Index	-			
Linear Shrinkage	-			
PI*%<0.425mm	-			

Atterberg Limites Test Notes	
Prep Method (P.I)	Air Dried/Wet Sieved
Size of LS Mould	-
Curling/Crumbling	-

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Date: 15/12/04

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RS 058 Rev 01

CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD JOB #: PN 358

PROJECT: VICTORIA HIGHWAY 184 – 220km REPORT #: LG04/1865

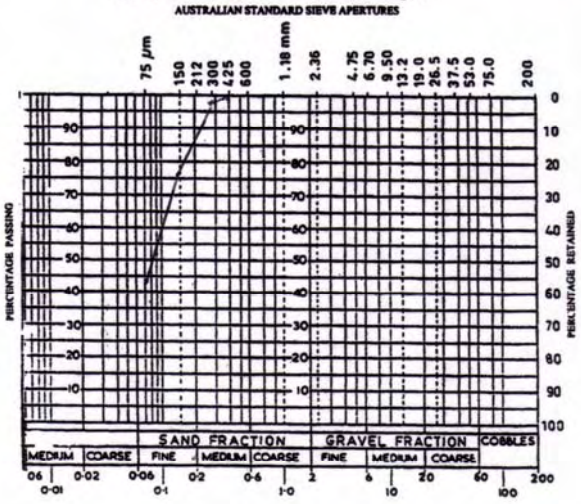
LOCATION: SITE RG2 – VIC HIGHWAY ACCESS TRACK TEST METHODS: AS1289.2.1.1,3.1.1,~~3.1.2~~,3.2.1,3.3.1,3.4.1,3.6.1,~~1.2.1,Cl.6.4b, AS1141.3.1 Cl..6.9~~

DATE OF TEST: 30/12/04 REQUEST #: N/A ORDER #: 86

Lab.Ref.Number	TN 40840	Sampled by & Date	CLIENT 20/12/04
Field Identification	-	Depth	N/A
Material	LOAM	Chainage, Offset	SITE RG2 – VIC HWAY ACCESS TRACK

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	-		
37.5	-		
26.5	-		
19	-		
13.2	-		
9.5	-		
6.7	-		
4.75	-		
2.36	-		
1.18	-		
0.600	-		
0.425	**100**		
0.300	**98**		
0.150	**76**		
0.075	**44**		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*		
Test	Sample Result			
Liquid Limit	**24**			
Plastic Limit	**18**			
Plastic Index	**6**			
Linear Shrinkage	**3.0**			
PI*%<0.425mm	**600**			

PARTICLE SIZE - mm

Atterberg Limits Test Notes	
Prep Method (P.I)	**Air Dried/Wet Sieved**
Size of LS Mould	**250**
Curling/Crumbling	**NO**

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A. Lindsey

Date: 04/01/05

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CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD JOB #: PN 358

PROJECT: VICTORIA HIGHWAY 184 – 220km REPORT #: LG04/1860

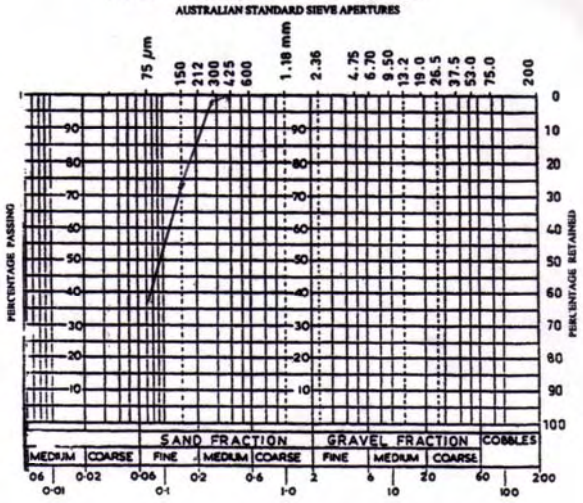
LOCATION: SITE RG3–LINK RD TO COOLIBAH ACCESS TEST METHODS: AS1289,2.1.1,3.1.1,~~3.1.2~~,3.2.1,3.3.1,3.4.1,3.6.1,~~1.2.1,Cl.6.4b,~~ ~~AS1141.3.1 Cl. 6.9~~

DATE OF TEST: 29/12/04 REQUEST #: N/A ORDER #: 86

Lab.Ref.Number	TN 40835	Sampled by & Date	CLIENT 20/12/04
Field Identification	-	Depth	N/A
Material	LOAM	Chainage, Offset	SITE RG3-LINK RD TO COOLIBAH AC

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	-		
37.5	-		
26.5	-		
19	-		
13.2	-		
9.5	-		
6.7	-		
4.75	-		
2.36	-		
1.18	-		
0.600	-		
0.425	**100**		
0.300	**98**		
0.150	**74**		
0.075	**37**		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*		
Test	Sample Result			
Liquid Limit	**27**			
Plastic Limit	**18**			
Plastic Index	**9**			
Linear Shrinkage	**4.5**			
PI*%<0.425mm	**900**			

PARTICLE SIZE - mm

Atterberg Limits Test Notes	
Prep Method (P.I)	**Air Dried/Wet Sieved**
Size of LS Mould	**254**
Curling/Crumbling	**NO**

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Approved Signatory
A. Lindsey

Date: 04/01/05

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CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD JOB #: PN 358

PROJECT: VICTORIA HIGHWAY 184 – 220km REPORT #: LG04/1862

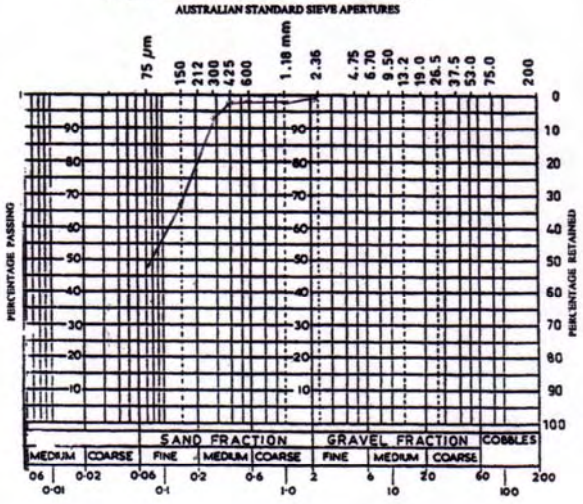
LOCATION: SITE RG7–COOLIBAH ACCESS TEST METHODS: AS1289.2.1.1,3.1.1,~~3.1.2~~,3.2.1,3.3.1,3.4.1,3.6.1,~~1.2.1,Cl 6.4b, AS1141.3.1 Cl. 6.9~~

DATE OF TEST: 29/12/04 REQUEST #: N/A ORDER #: 86

Lab.Ref.Number	TN 40837	Sampled by & Date	CLIENT 20/12/04
Field Identification	-	Depth	N/A
Material	LOAM	Chainage, Offset	SITE RG7-COOLIBAH ACCESS

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	-		
37.5	-		
26.5	-		
19	-		
13.2	-		
9.5	-		
6.7	-		
4.75	-		
2.36	**100**		
1.18	**99**		
0.600	**99**		
0.425	**98**		
0.300	**94**		
0.150	**68**		
0.075	**49**		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*		
Test	Sample Result			
Liquid Limit	**29**			
Plastic Limit	**15**			
Plastic Index	**14**			
Linear Shrinkage	**7.0**			
PI*%<0.425mm	**1372**			

PARTICLE SIZE - mm

Atterberg Limits Test Notes	
Prep Method (P.I)	**Air Dried/Wet Sieved**
Size of LS Mould	**250**
Curling/Crumbling	**NO**

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CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD JOB #: PN 358

PROJECT: VICTORIA HIGHWAY 184 – 220km REPORT #: LG04/1863

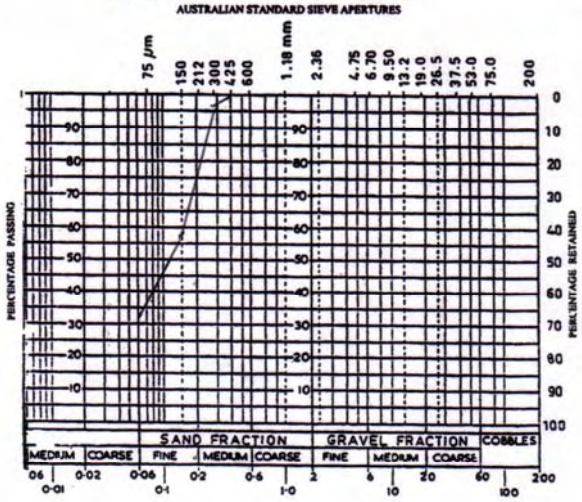
LOCATION: SITE RG7–CROC FARM ACCESS TEST METHODS: AS1289,2.1.1,3.1.1,~~3.1.2~~,3.2.1,3.3.1,3.4.1,3.6.1,~~1.2.1,Cl.6.4b,~~ ~~AS1141.3.1 Cl. 6.9~~

DATE OF TEST: 29/12/04 REQUEST #: N/A ORDER #: 86

Lab.Ref.Number	TN 40838	Sampled by & Date	CLIENT 20/12/04
Field Identification	-	Depth	N/A
Material	LOAM	Chainage, Offset	SITE RG7-CROC FARM ACCESS

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	-		
37.5	-		
26.5	-		
19	-		
13.2	-		
9.5	-		
6.7	-		
4.75	-		
2.36	-		
1.18	-		
0.600	-		
0.425	**100**		
0.300	**96**		
0.150	**59**		
0.075	**33**		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*		
Test	Sample Result			
Liquid Limit	**21**			
Plastic Limit	**19**			
Plastic Index	**2**			
Linear Shrinkage	**1.5**			
PI*%<0.425mm	**200**			

PARTICLE SIZE - mm

Atterberg Limits Test Notes	
Prep Method (P.I)	**Air Dried/Wet Sieved**
Size of LS Mould	**254**
Curling/Crumbling	**NO**

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CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD JOB #: PN 358

PROJECT: VICTORIA HIGHWAY 184 – 220km REPORT #: LG04/1864

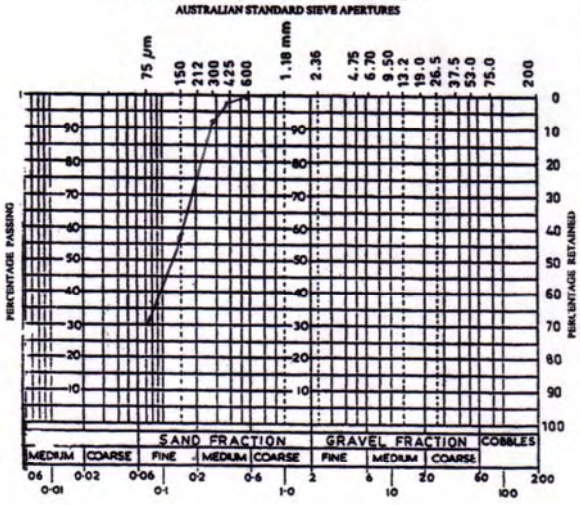
LOCATION: SITE 24 – VIC RIVER R/HOUSE DUMP TEST METHODS: AS1289,2.1.1,3.1.1,~~3.1.2,~~3.2.1,3.3.1,3.4.1,3.6.1,~~1.2.1,Cl.6.4b, AS1141.3.1 Cl. 6.9~~

DATE OF TEST: 30/12/04 REQUEST #: N/A ORDER #: 86

Lab.Ref.Number	TN 40839	Sampled by & Date	CLIENT 20/12/04
Field Identification	-	Depth	N/A
Material	LOAM	Chainage, Offset	SITE 24 – VIC RIVER R/HOUSE DUMP

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	-		
37.5	-		
26.5	-		
19	-		
13.2	-		
9.5	-		
6.7	-		
4.75	-		
2.36	-		
1.18	**100**		
0.600	**100**		
0.425	**98**		
0.300	**92**		
0.150	**58**		
0.075	**30**		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*		
Test	Sample Result			
Liquid Limit	**N.O**			
Plastic Limit	**N.O**			
Plastic Index	**N.P**			
Linear Shrinkage	**0.5**			
PI*%<0.425mm	**0**			

PARTICLE SIZE - mm

Atterberg Limits Test Notes	
Prep Method (P.I)	**Air Dried/Wet Sieved**
Size of LS Mould	**250**
Curling/Crumbling	**NO**

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CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD JOB #: PN 358

PROJECT: VICTORIA HIGHWAY 184 – 220km REPORT #: LG04/1861

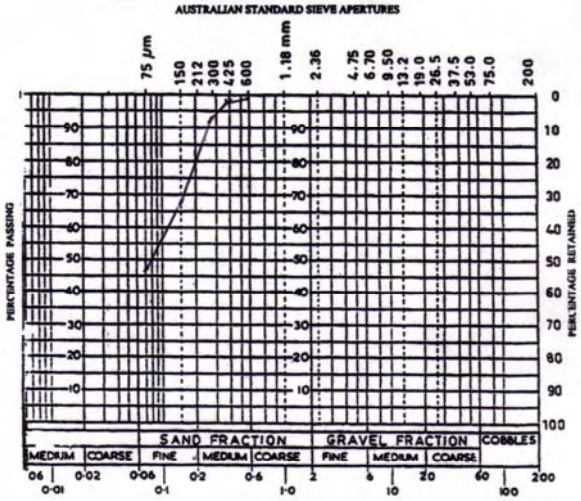
LOCATION: SITE RG7–COOLIBAH STN MAIN ACCESS TEST METHODS: AS1289,2.1.1,3.1.1,~~3.1.2~~,3.2.1,3.3.1,3.4.1,3.6.1,~~1.2.1,Cl.6.4b, AS1141.3.1 Cl. 6.9~~

DATE OF TEST: 29/12/04 REQUEST #: N/A ORDER #: 86

Lab.Ref.Number	TN 40836 **SITE 25**	Sampled by & Date	CLIENT 20/12/04
Field Identification	-	Depth	N/A
Material	LOAM	Chainage, Offset	SITE RG7-COOLIBAH STN MAIN ACC

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	-		
37.5	-		
26.5	-		
19	-		
13.2	-		
9.5	-		
6.7	-		
4.75	-		
2.36	**100**		
1.18	**100**		
0.600	**100**		
0.425	**99**		
0.300	**94**		
0.150	**68**		
0.075	**46**		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*		
Test	Sample Result			
Liquid Limit	**24**			
Plastic Limit	**16**			
Plastic Index	**8**			
Linear Shrinkage	**3.0**			
PI*%<0.425mm	**792**			

PARTICLE SIZE - mm

Atterberg Limits Test Notes	
Prep Method (P.I)	**Air Dried/Wet Sieved**
Size of LS Mould	**254**
Curling/Crumbling	**NO**

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CLASSIFICATION TEST REPORT

CLIENT: RMG GEOTECHNICAL CONSULTANTS — JOB #: PN207

PROJECT: VICTORIA HIGHWAY — REPORT #: LG04/1763

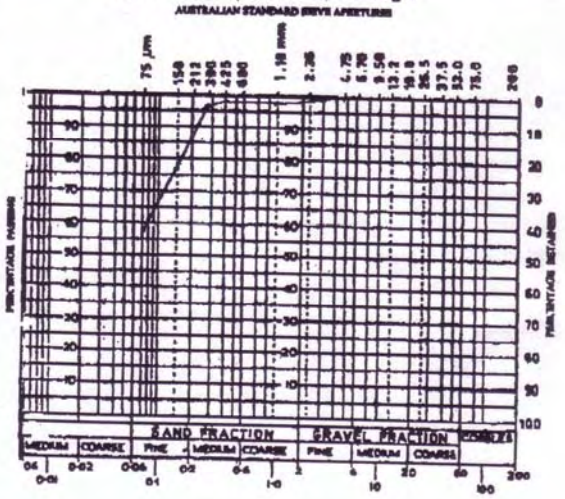
LOCATION: VICTORIA R. LOAM COOLIBAH STATION ACCESS ROAD. — TEST METHODS: AS1289,2.1.1,3.1.1, ~~2.1.2~~,3.2.1,3.3.1,3.4.1,3.6.1, ~~1.2.1,C1.6.4b~~, ~~AS1141.3.1 Cl. 6.9~~

DATE OF TEST: 08/12/04 — REQUEST #: N/A — ORDER #: N/A

Lab.Ref.Number	TN 40664	Sampled by & Date	G. CLARKE 6/12/04
Field Identification	-	Depth	N/S
Material	LOAM	Chainage, Offset	VICTORIA R. LOAM COOLIBAH STATION ACCESS ROAD.

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75			
53			
37.5			
26.5			
19			
13.2			
9.5			
6.7			
4.75	100		
2.36	99		
1.18	98		
0.600	98		
0.425	98		
0.300	96		
0.150	78		
0.075	58		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*		
Test	Sample Result			
Liquid Limit	30			
Plastic Limit	15			
Plastic Index	15			
Linear Shrinkage	8.0			
PI*%<0.425mm	1470			

PARTICLE SIZE - mm

Atterberg Limits Test Notes	
Prep Method (P.I)	Air Dried/Wet Sieved
Size of LS Mould	250
Curling/Crumbling	NO

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Date: 08/12/04

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CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD JOB #: PN 358

PROJECT: VICTORIA HIGHWAY 185 – 229km REPORT #: LG04/1896A Replaces LG04/1896

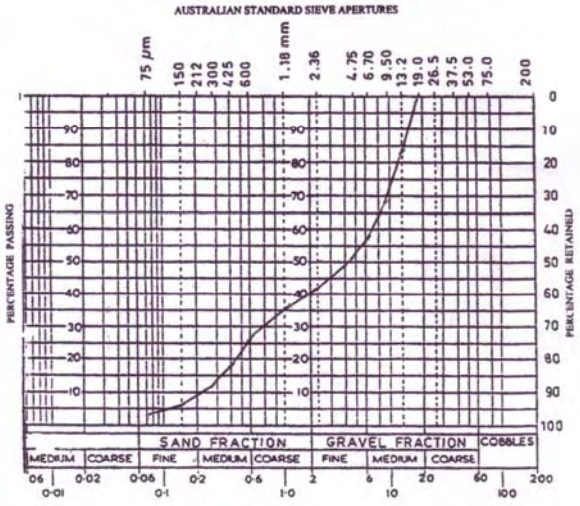
LOCATION: 5% TN 40835 – SITE RG3 LINK ROAD TO COOLABAH ACCESS TEST METHODS: AS1289,2.1.1,3.1.1,~~3.1.2~~,3.2.1,3.3.1,3.4.1,3.6.1,~~1.2.1,Cl 6.4b, AS1141.3.1 Cl. 6.9~~

DATE OF TEST: 06/01/05 REQUEST #: N/A ORDER #: N/A

Lab.Ref.Number	TN 40889	Sampled by & Date	CLIENT 30/12/04
Field Identification	1	Depth	N/A
Material	CRUSHED RIVER GRAV/LOAM	Chainage, Offset	5% TN 40835 – SITE RG3 LINK ROAD TO COOLABAH ACCESS

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	-		
37.5	-		
26.5	-		
19	**100**		
13.2	**84**		
9.5	**69**		
6.7	**58**		
4.75	**51**		
2.36	**41**		
1.18	**35**		
0.600	**26**		
0.425	**18**		
0.300	**12**		
0.150	**6**		
0.075	**4**		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*		
Test	Sample Result			
Liquid Limit	**N.O**			
Plastic Limit	**N.O**			
Plastic Index	**N.P**			
Linear Shrinkage	**0.0**			
PI*%<0.425mm	**0**			

PARTICLE SIZE - mm

Atterberg Limits Test Notes	
Prep Method (P.I)	**Air Dried/Wet Sieved**
Size of LS Mould	**250**
Curling/Crumbling	**NO**

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CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD — JOB #: PN 358

PROJECT: VICTORIA HIGHWAY 185 – 229km — REPORT #: LG04/1897A Replaces LG04/1897

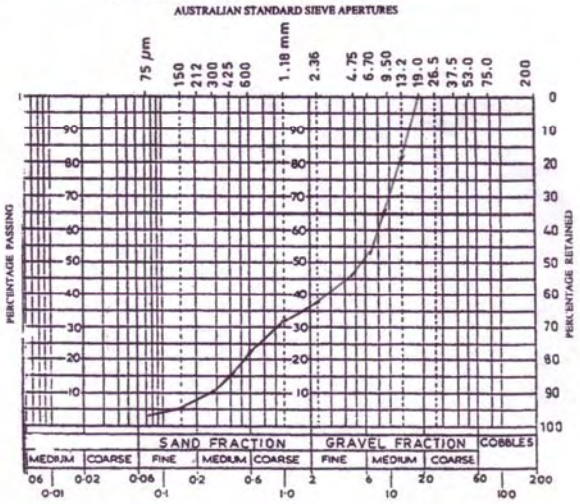
LOCATION: 5% TN 40836 – SITE RG7 COOLABAH STATION MAIN ACCESS — TEST METHODS: AS1289,2.1.1,3.1.1,~~3.1.2~~,3.2.1,3.3.1,3.4.1,3.6.1,~~1.2.1,Cl.6.4b~~, ~~AS1141.3.1 Cl. 6.9~~

DATE OF TEST: 05/01/05 — REQUEST #: N/A — ORDER #: N/A

Lab.Ref.Number	TN 40890	Sampled by & Date	CLIENT 30/12/04
Field Identification	2	Depth	N/A
Material	CRUSHED RIVER GRAV/LOAM	Chainage, Offset	5% TN 40836 – SITE RG7 COOLABAH STATION MAIN ACCESS

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	-		
37.5	-		
26.5	-		
19	**100**		
13.2	**82**		
9.5	**65**		
6.7	**53**		
4.75	**46**		
2.36	**37**		
1.18	**31**		
0.600	**22**		
0.425	**15**		
0.300	**10**		
0.150	**5**		
0.075	**3**		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*		
Test	Sample Result			
Liquid Limit	**N.O**			
Plastic Limit	**N.O**			
Plastic Index	**N.P**			
Linear Shrinkage	**0.0**			
PI*%<0.425mm	**0**			

PARTICLE SIZE - mm

Atterberg Limits Test Notes	
Prep Method (P.I)	**Air Dried/Wet Sieved**
Size of LS Mould	**250**
Curling/Crumbling	**NO**

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CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD JOB #: PN 358

PROJECT: VICTORIA HIGHWAY 185 – 229km REPORT #: LG04/1898A Replaces LG04/1898

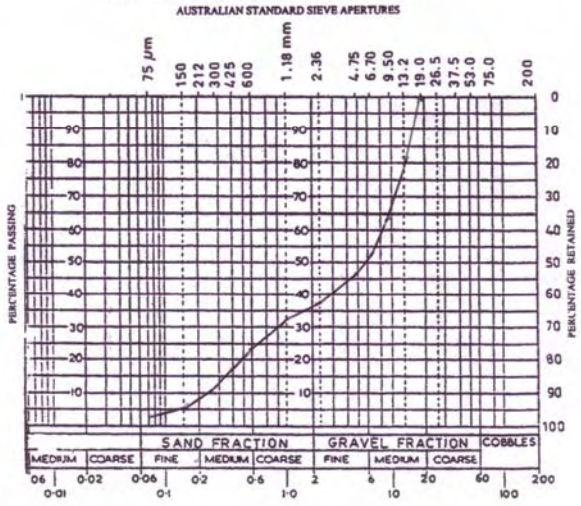
LOCATION: 5% TN 40838 – SITE RG7 CROC FARM ACCESS TEST METHODS: AS1289,2.1.1,3.1.1,~~3.1.2~~,3.2.1,3.3.1,3.4.1,3.6.1,~~1.2.1,Cl.6.4b~~, ~~AS1141.3.1 Cl. 6.9~~

DATE OF TEST: 05/01/05 REQUEST #: N/A ORDER #: N/A

Lab.Ref.Number	TN 40891	Sampled by & Date	CLIENT 30/12/04
Field Identification	3	Depth	N/A
Material	CRUSHED RIVER GRAVEL/LOAM MIX	Chainage, Offset	5% TN 40838 – SITE RG7 CROC FARM ACCESS

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	-		
37.5	-		
26.5	-		
19	**100**		
13.2	**80**		
9.5	**64**		
6.7	**53**		
4.75	**46**		
2.36	**37**		
1.18	**32**		
0.600	**24**		
0.425	**17**		
0.300	**11**		
0.150	**5**		
0.075	**3**		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*		
Test	Sample Result			
Liquid Limit	**N.O**			
Plastic Limit	**N.O**			
Plastic Index	**N.P**			
Linear Shrinkage	**0.0**			
P[*%<0.425mm	**0**			

PARTICLE SIZE - mm

Atterberg Limits Test Notes	
Prep Method (P.I)	**Air Dried/Wet Sieved**
Size of LS Mould	**250**
Curling/Crumbling	**NO**

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CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS PTY LTD JOB #: PN 358

PROJECT: VICTORIA HIGHWAY 185 – 229km REPORT #: LG04/1899A Replaces LG04/1899

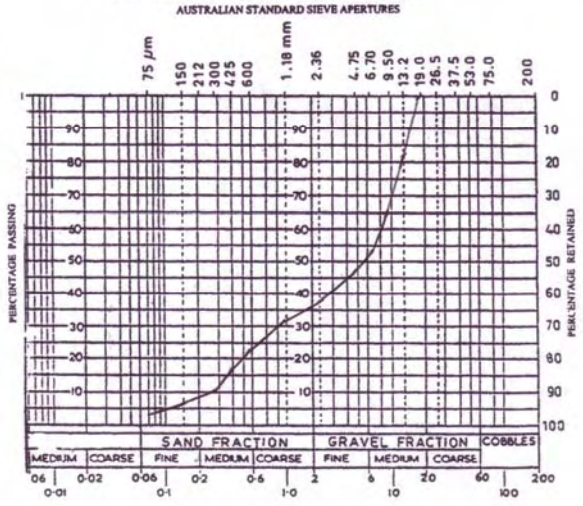
LOCATION: 5 % TN 40840 – SITE RG7 VIC HWY ACCESS TRACK TEST METHODS: AS1289,2.1.1,3.1.1,~~3.1.2~~,3.2.1,3.3.1,3.4.1,3.6.1,~~1.2.1,Cl 6.4b, AS1141.3.1 Cl. 6.9~~

DATE OF TEST: 05/01/05 REQUEST #: N/A ORDER #: N/A

Lab.Ref.Number	TN 40892	Sampled by & Date	CLIENT 30/12/04
Field Identification	4	Depth	N/A
Material	CRUSHER RIVER GRAVEL/LOAM MIX	Chainage, Offset	5 % TN 40840 – SITE RG7 VIC HWY ACCESS TRACK

Particle Size Distribution		Specification*	
Sieve Size mm	Result % Passing		
75	-		
53	-		
37.5	-		
26.5	-		
19	**100**		
13.2	**82**		
9.5	**65**		
6.7	**54**		
4.75	**47**		
2.36	**38**		
1.18	**32**		
0.600	**23**		
0.425	**16**		
0.300	**10**		
0.150	**6**		
0.075	**4**		

PSD Chart From AS1289 3.6.1, - 1995 fig 1.



Atterberg Limits		Specification*		
Test	Sample Result			
Liquid Limit	**N.O**			
Plastic Limit	**N.O**			
Plastic Index	**N.P**			
Linear Shrinkage	**0.0**			
PI*%<0.425mm	**0**			

PARTICLE SIZE - mm

Atterberg Limits Test Notes	
Prep Method (P.I)	**Air Dried/Wet Sieved**
Size of LS Mould	**254**
Curling/Crumbling	**NO**

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Approved Signatory
A. Lindsey

Date: 07/02/05

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RS 004 Rev 01

CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS JOB PN 358

PROJECT: VIC HWY 184 – 220km REPORT# LG05/0065

LOCATION: 5% TN 40835 SITE RG3 LINK ROAD TO COOLABAH ACCESS TEST METHODS: AS1289.2.1.1,3.1.1,~~3.1.2~~,3.2.1,3.3.1,3.4.1,3.6.1,~~1.2.1,Cl. 6.4b AS1141.3.1 Cl. 6.9~~

TESTED BY M.S DATE OF TEST 04/02/05 REQUEST# N/A ORDER# N/A

RETEST OF TN 40889

Lab .Ref. Number	TN 40971	Sampled By & Date	LAB 03/02/05
Field Identification	2	Depth	N/A
Material	RIVER GRAVEL / LOAM MIX	Chainage	5% TN 40835 SITE RG3
		Offset	LINK ROAD TO COOLABAH ACCESS

	Sample Result	NT Dept of T &W Standard Technical Clauses For Roadworks 93/6Q			
Sieve Size (mm)_	% Passing	**Type 1**, % Passing	**Type 2**, % Passing	**Type 3**, % Passing	**Type 4**, % Passing
152.4					
75		100			100
53					
37.5		80-100	100		80-100
26.5					
19		50-80	70-100	100	60-100
13.2					
9.5		35-65	50-80	70-100	50-95
6.7					
4.75		25-50	35-65	50-80	40-80
2.36		15-40	25-50	35-65	30-65
1.18					
0.600					
0.425		7-20	10-30	15-35	20-50
0.300					
0.150					
0.075		3-13	4-16	6-20	5-25

		NT Dept of T &W Standard Technical Clauses For Roadworks 93/6Q			
Atterberg Limits	**Sample Result**	Sealed Basecourse	Unsealed Base	Shoulder Material	
Liquid Limit	**N.O**	0-25	0-30	0-35	
Plastic Limit	**N.O**				
Plastic Index	**N.P**	1-6	1-10	4-12	
Linear Shrinkage	**0.0**	0-3	1-5	2-8	
PI*%<0.425mm	**-**	0-180	0-400	0-400	
Size of L.S Mould	**250**				
Curling/Crumbling	**NO**				
Prep. Method (P.I)	**Wet Sieved / Air Dried**				

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CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS JOB PN 358

PROJECT: VIC HWY 184 – 220km REPORT# LG05/0064

LOCATION: 5% TN 40836 SITE **25** COOLABAH STATION MAIN ACCESS TEST METHODS: AS1289,2.1.1,3.1.1,~~3.1.2~~,3.2.1,3.3.1,3.4.1,~~3.6.1,3.1.Cl. 6.4b AS1141.3.1 Cl. 6.9~~

TESTED BY M.S DATE OF TEST 04/02/05 REQUEST# N/A ORDER# N/A

RETEST OF TN 40890

Lab .Ref. Number	TN 40971 **SITE 25**	Sampled By & Date	LAB 03/02/05
Field Identification	2	Depth	N/A
Material	RIVER GRAVEL / LOAM MIX	Chainage	5% TN 40836 SITE RG7
		Offset	COOLABAH STATION MAIN ACCESS

	Sample Result	NT Dept of T &W Standard Technical Clauses For Roadworks 93/6Q			
Sieve Size (mm)_	% Passing	**Type 1**, % Passing	**Type 2**, % Passing	**Type 3**, % Passing	**Type 4**, % Passing
152.4					
75		100			100
53					
37.5		80-100	100		80-100
26.5					
19		50-80	70-100	100	60-100
13.2					
9.5		35-65	50-80	70-100	50-95
6.7					
4.75		25-50	35-65	50-80	40-80
2.36		15-40	25-50	35-65	30-65
1.18					
0.600					
0.425		7-20	10-30	15-35	20-50
0.300					
0.150					
0.075		3-13	4-16	6-20	5-25

		NT Dept of T &W Standard Technical Clauses For Roadworks 93/6Q			
Atterberg Limits	**Sample Result**	Sealed Basecourse	Unsealed Base	Shoulder Material	
Liquid Limit	**N.O**	0-25	0-30	0-35	
Plastic Limit	**N.O**				
Plastic Index	**N.P**	1-6	1-10	4-12	
Linear Shrinkage	**0.0**	0-3	1-5	2-8	
PI*%<0.425mm	**-**	0-180	0-400	0-400	
Size of L.S Mould	**250**				
Curling/Crumbling	**NO**				
Prep. Method (P.I)	**Wet Sieved / Air Dried**				

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RS 004 Rev 01

CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS JOB PN 358

PROJECT: VICTORIA HWY BEDDING TRIALS REPORT# LG05/0105

LOCATION: RG7 CRUSHED RIVER GRAVEL TN 40692 95% LOAM TN 40837 5% TEST METHODS: AS1289,2.1.1,3.1.1,~~3.1.2~~,3.2.1,3.3.1,3.4.1,~~3.6.1,1.2.1, Cl.6.4b AS1141.3.1 Cl. 6.9~~

TESTED BY M.S & M.L DATE OF TEST 21/02/05 REQUEST# N/A ORDER# N/A

LOAM - RG7 COOLIBAH ACCESS

Lab .Ref. Number	TN 41038	Sampled By & Date	CLIENT 12/02/05
Field Identification	1	Depth	N/A
Material	PROP BASECOURSE	Chainage	CRUSHED RIVER GRAVEL/LOAM
		Offset	N/A

	Sample Result	NT Dept of T &W Standard Technical Clauses For Roadworks 93/6Q			
Sieve Size (mm)_	% Passing	**Type 1,** % Passing	**Type 2,** % Passing	**Type 3,** % Passing	**Type 4,** % Passing
152.4	-				
75	-	100			100
53	-				
37.5	-	80-100	100		80-100
26.5	-				
19	-	50-80	70-100	100	60-100
13.2	-				
9.5	-	35-65	50-80	70-100	50-95
6.7	-				
4.75	-	25-50	35-65	50-80	40-80
2.36	-	15-40	25-50	35-65	30-65
1.18	-				
0.600	-				
0.425	-	7-20	10-30	15-35	20-50
0.300	-				
0.150	-				
0.075	-	3-13	4-16	6-20	5-25

		NT Dept of T &W Standard Technical Clauses For Roadworks 93/6Q			
Atterberg Limits	**Sample Result**	Sealed Basecourse	Unsealed Base	Shoulder Material	
Liquid Limit	**N/P**	0-25	0-30	0-35	
Plastic Limit	**N/P**				
Plastic Index	**N/P**	1-6	1-10	4-12	
Linear Shrinkage	**0.5**	0-3	1-5	2-8	
PI*%<0.425mm	**N/A**	0-180	0-400	0-400	
Size of L.S Mould	**254**				
Curling/Crumbling	**NO**				
Prep. Method (P.I)	**Wet Sieved / Air Dried**				

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CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS JOB PN 358

PROJECT: VICTORIA HWY BEDDING TRIALS REPORT# LG05/0106

LOCATION: CRUSHED RIVER GRAVEL TN 40692
90% LOAM TN 40835 10%

TEST METHODS: AS1289,2.1.1,3.1.1,~~3.1.2~~,3.2.1,3.3.1,3.4.1,~~3.6.1,1.2.1~~, ~~Cl 6.4b AS1141.3.1 Cl. 6.9~~

TESTED BY M.S & M.L DATE OF TEST 21/02/05 REQUEST# N/A ORDER# N/A

LOAM - RG3 LINK ROAD TO COOLIBAH ACCESS

Lab .Ref. Number	TN 41039	Sampled By & Date	CLIENT 12/02/05
Field Identification	2	Depth	N/A
Material	PROP BASECOURSE	Chainage	CRUSHED RIVER GRAVEL/LOAM
		Offset	N/A

	Sample Result	NT Dept of T &W Standard Technical Clauses For Roadworks 93/6Q			
Sieve Size (mm)_	% Passing	**Type 1**, % Passing	**Type 2**, % Passing	**Type 3**, % Passing	**Type 4**, % Passing
152.4	-				
75	-	100			100
53	-				
37.5	-	80-100	100		80-100
26.5	-				
19	-	50-80	70-100	100	60-100
13.2	-				
9.5	-	35-65	50-80	70-100	50-95
6.7	-				
4.75	-	25-50	35-65	50-80	40-80
2.36	-	15-40	25-50	35-65	30-65
1.18	-				
0.600	-				
0.425	-	7-20	10-30	15-35	20-50
0.300	-				
0.150	-				
0.075	-	3-13	4-16	6-20	5-25

		NT Dept of T &W Standard Technical Clauses For Roadworks 93/6Q			
Atterberg Limits	**Sample Result**	Sealed Basecourse	Unsealed Base	Shoulder Material	
Liquid Limit	**20**	0-25	0-30	0-35	
Plastic Limit	**18**				
Plastic Index	**2**	1-6	1-10	4-12	
Linear Shrinkage	**1.5**	0-3	1-5	2-8	
PI*%<0.425mm	**N/A**	0-180	0-400	0-400	
Size of L.S Mould	**250**				
Curling/Crumbling	**NO**				
Prep. Method (P.I)	**Wet Sieved / Air Dried**				

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Date 22/02/05

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CLASSIFICATION TEST REPORT

CLIENT: CAMPBELL PROJECT MANAGERS JOB PN 358

PROJECT: VICTORIA HWY BEDDING TRIALS REPORT# LG05/0107

LOCATION: CRUSHED RIVER GRAVEL TN 40692
90% LOAM TN 40836 10%

TEST METHODS: AS1289,2.1.1,3.1.1,~~3.1.2~~,3.2.1,3.3.1,3.4.1,~~3.6.1,1.2.1~~, ~~CL6.4b AS1141.3.1 Cl. 6.9~~

TESTED BY M.S & M.L DATE OF TEST 21/02/05 REQUEST# N/A ORDER# N/A

LOAM - SITE 25 COOLIBAH STN MAIN ACCESS RD

Lab .Ref. Number	TN 41040	Sampled By & Date	CLIENT 12/02/05
Field Identification	3	Depth	N/A
Material	PROP BASECOURSE	Chainage	CRUSHED RIVER GRAVEL/LOAM
		Offset	N/A

	Sample Result	NT Dept of T &W Standard Technical Clauses For Roadworks 93/6Q			
Sieve Size (mm)_	% Passing	**Type 1**, % Passing	**Type 2**, % Passing	**Type 3**, % Passing	**Type 4**, % Passing
152.4	-				
75	-	100			100
53	-				
37.5	-	80-100	100		80-100
26.5	-				
19	-	50-80	70-100	100	60-100
13.2	-				
9.5	-	35-65	50-80	70-100	50-95
6.7	-				
4.75	-	25-50	35-65	50-80	40-80
2.36	-	15-40	25-50	35-65	30-65
1.18	-				
0.600	-				
0.425	-	7-20	10-30	15-35	20-50
0.300	-				
0.150	-				
0.075	-	3-13	4-16	6-20	5-25

		NT Dept of T &W Standard Technical Clauses For Roadworks 93/6Q			
Atterberg Limits	**Sample Result**	Sealed Basecourse	Unsealed Base	Shoulder Material	
Liquid Limit	**19**	0-25	0-30	0-35	
Plastic Limit	**18**				
Plastic Index	**1**	1-6	1-10	4-12	
Linear Shrinkage	**1.0**	0-3	1-5	2-8	
PI*%<0.425mm	**N/A**	0-180	0-400	0-400	
Size of L.S Mould	**250**				
Curling/Crumbling	**NO**				
Prep. Method (P.I)	**Wet Sieved / Air Dried**				

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Date 22/02/05

Particle Size Distribution

STSW-02 Rev 4-2/05

Report No: 5960

Sample No: 19992

Client:C016 CampbellProject Managers Pty Ltd

Project: Victoria Highway 185-229km Investigation

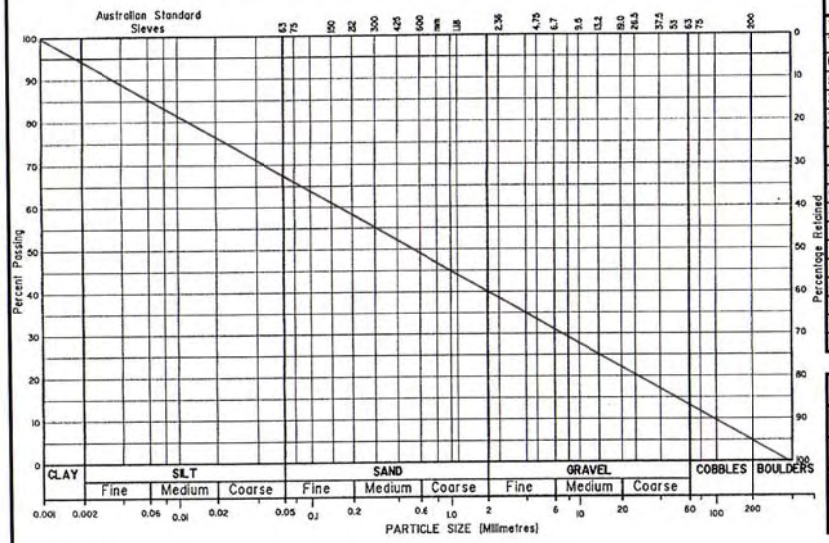
Location: Victoria Highway 185-229km

Sample Identification: Sample # 1, 5% RG3 Loam

Job No: STS-1081

Sheet 1 of 6

Date: 11/03/2005



AS Sieve Size	Percentage Passing	Specification
150 mm		
75 mm		
63 mm		
53 mm		
37.5 mm		
26.5 mm		
19 mm		
13.2 mm		
9.5 mm		
6.7 mm		
4.75 mm		
2.36 mm		
1.18 mm		
600 microns		
425 microns		
300 microns		
150 microns		
75 microns		

Liquid Limit	%	20	*
Plastic limit	%	18	*
Plasticity index	%	2	
Linear shrinkage	%	1.0	**!
Natural moisture	%	N/A	

Dust Ratio (between 25 - 50)	%	N/A
PI × % pass 425 micron		N/A

Test Procedure: AS 1289 2.1.1-1992 ~~3.6.1~~, 3.1.1, 3.2.1, 3.3.1, 3.4.1

Tested by: MP / AK

Checked by: B. Colombet

Material Description: Crushed River Gravel +5% RG3 Loam. Sampled by Client. Sample tested as received.

* Air dried, wet preparation methods used.

** Mold length - 250mm

! = Crumbling/Curling occurred

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Approved Signatory
(B. COLOMBET)

Particle Size Distribution

STSW-02 Rev 4-2/05

Report No: 5960

Sample No: 19995

Client:C016 CampbellProject Managers Pty Ltd

Project: Victoria Highway 185-229km Investigation

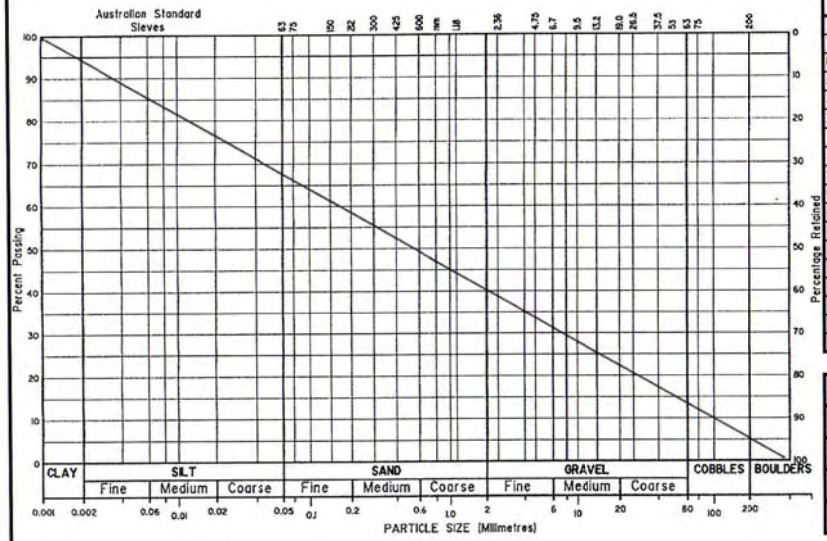
Location: Victoria Highway 185-229km

Sample Identification: Sample # 4, 5% SITE 25 LOAM

Job No: STS-1081

Sheet 4 of 6

Date: 11/03/2005



AS Sieve Size	Percentage Passing	Specification
150 mm		
75 mm		
63 mm		
53 mm		
37.5 mm		
26.5 mm		
19 mm		
13.2 mm		
9.5 mm		
6.7 mm		
4.75 mm		
2.36 mm		
1.18 mm		
600 microns		
425 microns		
300 microns		
150 microns		
75 microns		

Liquid Limit	%	19	*
Plastic limit	%	15	*
Plasticity index	%	4	
Linear shrinkage	%	1.0	**!
Natural moisture	%	N/A	

Dust Ratio (between 25 - 50)	%	N/A
PI × % pass 425 micron		N/A

Test Procedure: AS 1289 2.1.1-1992
~~3.6.1~~, 3.1.1, 3.2.1, 3.3.1, 3.4.1

Tested by: MP / AK

Checked by: B. Colombet

Material Description: Crushed River Gravel +5% RG7 Loam. Sampled by Client. Sample tested as received.

* Air dried, wet preparation methods used.

** Mold length - 250mm

! = ~~Crumbling/Curling occurred~~

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Number: 3280

Approved Signatory
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Particle Size Distribution

STSW-03 Rev 4-2/05

Report No: 5960

Sample No: 19993

Client: C016 Campbell Project Managers Pty Ltd

Project: Victoria Highway 185-229km Investigation

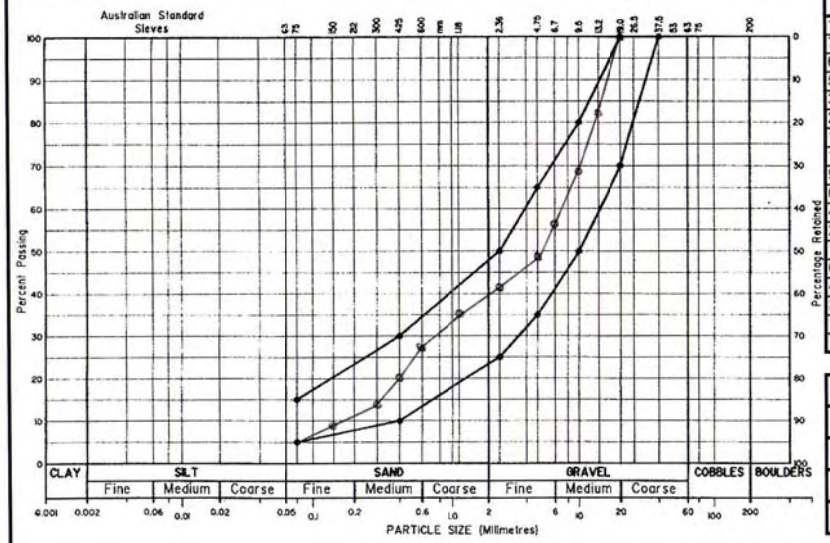
Location: Victoria Highway Ch: 185-229km

Sample Identification: Sample # 2, 10% RG 3 Loam

Job No: STS-1081

Sheet 2 of 6

Date: 11/03/2005



AS Sieve Size	Percentage Passing	Specification
150 mm		GRADING 2
75 mm		
63 mm		
53 mm		
37.5 mm		100
26.5 mm		
19 mm	100	70 - 100
13.2 mm	83	
9.5 mm	69	50 -80
6.7 mm	56	
4.75 mm	49	35 - 65
2.36 mm	41	25 - 50
1.18 mm	35	
600 microns	27	
425 microns	20	10 - 30
300 microns	14	
150 microns	9	
75 microns	5	4 - 16

Liquid Limit	%	20	*
Plastic limit	%	18	*
Plasticity index	%	2	
Linear shrinkage	%	2.0	**!
Natural moisture	%	0.3	

Dust Ratio (between 25 - 50)	%	N/A
PI × % pass 425 micron		40

N/A = Not Applicable

Test Procedure: AS 1289 2.1.1-1992 3.6.1, 3.1.1, 3.2.1, 3.3.1, 3.4.1

Tested by: MP / AK

Checked by: B. Colombet

Material Description: Crushed River Gravel 10% RG3 Loam. Sampled by Client. Sample tested as received.

* Air dried, wet preparation methods used.

** Mold length - 250mm

! = ~~Crumbling/Curling occurred~~

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Number: 3280

Approved Signatory
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Particle Size Distribution

STSW-03 Rev 4-2/05

Report No: 5960

Sample No: 19996

Client:C016 Campbell Project Managers Pty Ltd

Project: Victoria Highway 185-229km Investigation

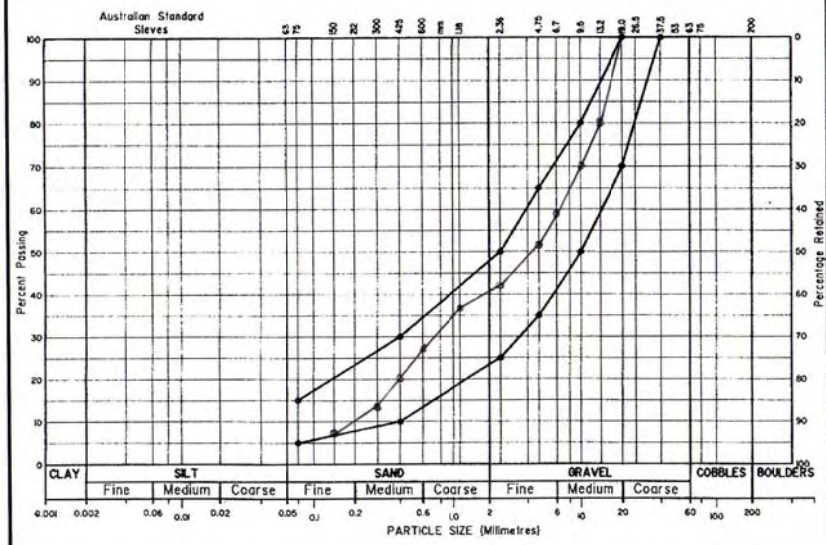
Location: Victoria Highway Ch: 185-229km

Sample Identification: Sample # 5, 10% SITE 25 LOAM

Job No: STS-1081

Sheet 5 of 6

Date: 11/03/2005



AS Sieve Size	Percentage Passing	Specification
150 mm		GRADING 2
75 mm		
63 mm		
53 mm		
37.5 mm		100
26.5 mm		
19 mm	100	70 - 100
13.2 mm	80	
9.5 mm	70	50 -80
6.7 mm	59	
4.75 mm	52	35 - 65
2.36 mm	43	25 - 50
1.18 mm	37	
600 microns	27	
425 microns	20	10 - 30
300 microns	14	
150 microns	8	
75 microns	5	4 - 16

Liquid Limit	%	20	*
Plastic limit	%	16	*
Plasticity index	%	4	
Linear shrinkage	%	1.5	**!
Natural moisture	%	0.3	

Dust Ratio (between 25 - 50)	%	N/A
PI × % pass 425 micron		80

N/A = Not Applicable

Test Procedure: AS 1289 2.1.1-1992 3.6.1, 3.2.1, 3.2.1, 3.3.1, 3.4.1

Tested by: MP / AK

Checked by: B. Colombet

Material Description: Crushed River Gravel 10% RG7 Loam. Sampled by Client. Sample tested as received.

* Air dried, wet preparation methods used.

** Mold length - 250mm

! = ~~Crumbling/Curling occurred~~

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Number: 3280
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Particle Size Distribution

STSW-03 Rev 4-2/05

Report No: 5960

Sample No: 19994

Client: C016 Campbell Project Managers Pty Ltd

Project: Victoria Highway 185-229km Investigation

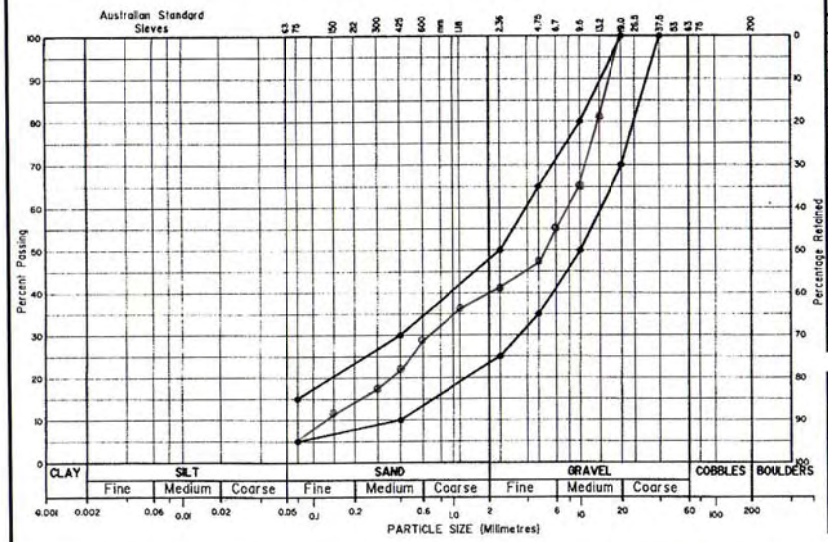
Location: Victoria Highway Ch: 185-229km

Sample Identification: Sample # 3, 15% RG 3 Loam

Job No: STS-1081

Sheet 3 of 6

Date: 11/03/2005



AS Sieve Size	Percentage Passing	Specification
150 mm		GRADING 2
75 mm		
63 mm		
53 mm		
37.5 mm		100
26.5 mm		
19 mm	100	70 - 100
13.2 mm	81	
9.5 mm	65	50 -80
6.7 mm	55	
4.75 mm	48	35 - 65
2.36 mm	41	25 - 50
1.18 mm	36	
600 microns	29	
425 microns	23	10 - 30
300 microns	18	
150 microns	12	
75 microns	5	4 - 16

Liquid Limit	%	22	*
Plastic limit	%	16	*
Plasticity index	%	6	
Linear shrinkage	%	2.0	**!
Natural moisture	%	0.4	

Dust Ratio (between 25 - 50)	%	N/A
PI × % pass 425 micron		138

N/A = Not Applicable

Test Procedure: AS 1289 2.1.1-1992 3.6.1, 3.1.1, 3.2.1, 3.3.1, 3.4.1

Tested by: MP / AK

Checked by: B. Colombet

Material Description: Crushed River Gravel 15% RG3 Loam. Sampled by Client. Sample tested as received.

* Air dried, wet preparation methods used.

** Mold length - 250mm

! = ~~Crumbling/Curling occurred~~

SOIL TESTING SERVICES A.B.N 87 059 127 721
SHED 12, 66A SMITH STREET,"SMITH STREET TRADE CENTRE"
P.O.BOX 1754,ALICE SPRINGS N.T.0871
PHONE(08) 8953 4880 FAX: (08) 8953 7885 MOBILE 0412 797 747

NATA Accredited Laboratory
Number: 3280

Approved Signatory
(B. COLOMBET)

Particle Size Distribution

STSW-03 Rev 4-2/05

Report No: 5960

Sample No: 19997

Client:C016 Campbell Project Managers Pty Ltd

Project: Victoria Highway 185-229km Investigation

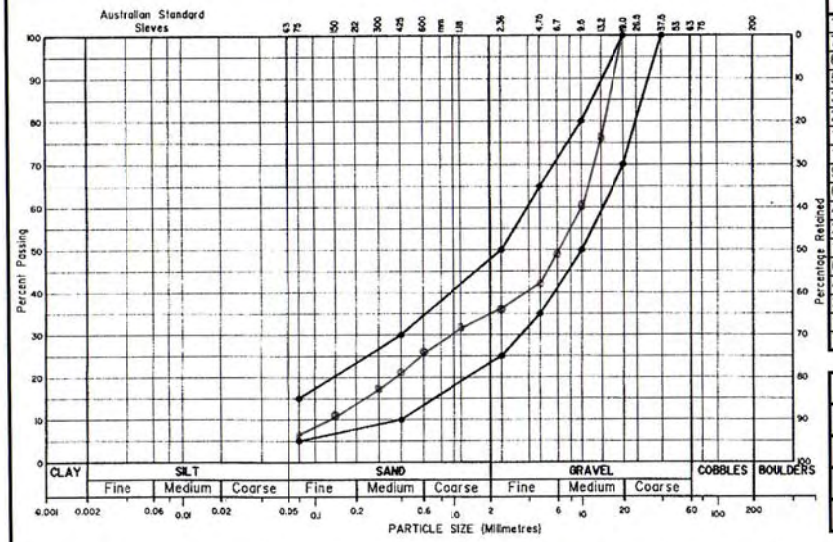
Location: Victoria Highway Ch: 185-229km

Sample Identification: Sample # 6, 15% SITE 25 LOAM

Job No: STS-1081

Sheet 6 of 6

Date: 11/03/2005



AS Sieve Size	Percentage Passing	Specification
150 mm		GRADING 2
75 mm		
63 mm		
53 mm		
37.5 mm		100
26.5 mm		
19 mm	100	70 - 100
13.2 mm	76	
9.5 mm	60	50 -80
6.7 mm	49	
4.75 mm	43	35 - 65
2.36 mm	36	25 - 50
1.18 mm	32	
600 microns	26	
425 microns	21	10 - 30
300 microns	17	
150 microns	11	
75 microns	6	4 - 16

Liquid Limit	%	22	*
Plastic limit	%	17	*
Plasticity index	%	5	
Linear shrinkage	%	3.0	**!
Natural moisture	%	0.5	

Dust Ratio (between 25 - 50)	%	N/A
PI × % pass 425 micron		105

N/A = Not Applicable

Test Procedure: AS 1289 2.1.1-1992 3.6.1, 3.2.1, 3.2.1, 3.3.1, 3.4.1

Tested by: MP / AK

Checked by: B. Colombet

Material Description: Crushed River Gravel 15% RG7 Loam. Sampled by Client. Sample tested as received.

* Air dried, wet preparation methods used.

** Mold length - 250mm

! = ~~Crumbling/Curling occurred~~

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