


	ROADS AND TRAFFIC AUTHORITY, NSW	Test Certificate (Final)
	Bowenfels District Laboratory	Pavement Materials, Fill, Subgrade and Soils
	Address: 15 - 33 Coorwill Road, Bowenfels	
Ph: (02) 6352 8942 Fax: (02) 6352 8917 Email: timothy_campbell@rta.nsw.gov.au Contact: Timothy Campbell		
Client: Metromix Quarries	PO Box 228 Lithgow NSW 2790	Registration Id: PB20130018
Client Ref (Project): *	Lab Ref (Project): H/41007/D/01	Received: 11/02/2013
Project: Bowenfels Laboratory, Miscellaneous Private Testing.		Sampling By: TC/HF
Description:		Sampling AS 1141.3.1C9.3
Work Details: Metromix Quarry, Material Testing, Marrangaroo.		Method:
Work Distance: *		Material: DGB 20
Supplier: METROMIX		Request ID: *

SPECIFIED LIMITS:			Sample:	A	B	C	D
Date Sampled:				11/02/2013	11/02/2013	11/02/2013	11/02/2013
Lot Number:				08896	08896	08896	08896
Sample Chainage (km) or Location:				Stockpile	Stockpile	Stockpile	Stockpile
Lane:				*	*	*	*
Offset (M):				*	*	*	*
Depth (mm):				* - *	* - *	* - *	* - *
Pretreatment:				RTA-T102(CA)	RTA-T102(CA)	RTA-T102(CA)	RTA-T102(CA)
RTA-T106	WHOLE SAMPLE	Passing 75.0mm Sieve(%):		*	*	*	*
		Passing 53.0mm Sieve(%):		*	*	*	*
		Passing 37.5mm Sieve(%):		*	*	*	*
		Passing 26.5mm Sieve(%):		100	100	100	100
		Passing 19.0mm Sieve(%):		100	99	100	100
		Passing 13.2mm Sieve(%):		87	89	84	90
		Passing 9.50mm Sieve(%):		74	75	71	74
		Passing 6.70mm Sieve(%):		65	66	60	62
		Passing 4.75mm Sieve(%):		58	59	53	53
		Passing 2.36mm Sieve(%):		47	48	42	41
RTA-T107	WHOLE SAMPLE	Passing 425µm Sieve(%):		24	23	23	23
		Passing 75µm Sieve(%):		10.0	11	9.5	11
		Passing 13.5µm Sieve(%):		6.5	6.5	4.0	5.0
RTA-T107	-2.36mm	Passing 425µm Sieve(%):		52	49	54	55
		Passing 75µm Sieve(%):		21	23	23	27
		Passing 13.5µm Sieve(%):		14	13	10	12
	*	A Ratio:		52	49	54	55
		B Ratio:		40	47	43	49
		C Ratio:		67	57	43	44
		Observation:		*	*	*	*
AS 1289.3.1.2	-425µm	Liquid Limit (%):		19	19	19	19
RTA-T109		Plastic Limit (%):		17	17	16	17
AS 1289.3.3.1		Moist. Cont. Method (PI):		RTA-T120	RTA-T120	RTA-T120	RTA-T120
		Plasticity Index (%):		2	2	3	2
*	-19mm	Maximum Dry Density (t/m ³):		*	*	*	*
		Moist. Cont. Method (MDD):		*	*	*	*
		Optimum Moist. Content (%):		*	*	*	*
*	-2.36mm	Linear Shrinkage (%):		*	*	*	*
*	-19mm	MDCS Moist. Cont. (%):		*	*	*	*
		MDCS Dry Density (t/m ³):		*	*	*	*
		M. D. C. S. (MPa):		*	*	*	*
*	*	Moisture Content (%):					

Comments T105 used for sample preparation.
*
*

	NATA Accredited Laboratory Number: 2779	Approved Signatory: 
	Accredited for compliance with ISO/IEC 17025.	Date: 26-2-13
		T N Campbell Laboratory Supervisor

	ROADS AND TRAFFIC AUTHORITY, NSW Bowenfels District Laboratory Address: 15 - 33 Coopersville Road, Bowenfels Ph: (02) 6352 8942 Fax: (02) 6352 8917 Email: timothy_campbell@rta.nsw.gov.au Contact: Timothy Campbell	Test Certificate (Final) Pavement Materials, Fill, Subgrade and Soils
	Client: Metromix Quarries PO Box 228 Lithgow NSW 2790 Client Ref (Project): * Lab Ref (Project): H/41007/D/01 Project Description: Bowenfels Laboratory. Miscellaneous Private Testing. Work Details: Metromix Quarry. Material Testing, Marrangaroo. Work Distance: * Supplier: METROMIX	Registration Id: PB20130018 Received: 11/02/2013 Sampling By: TC/HF Sampling AS 1141.3.1C9.3 Method: Material: DGB 20 Request ID: *
	SPECIFIED LIMITS:	

TESTS	PORTION	Pretreatment:	Sample:	E
		Date Sampled:		11/02/2013
		Lot Number:		08896
		Sample Chainage (km) or Location:		Stockpile
		Lane:		*
		Offset (M):		*
		Depth (mm):		* - *
				RTA-T102(CA)
RTA-T106	WHOLE SAMPLE	Passing 75.0mm Sieve(%):		*
		Passing 53.0mm Sieve(%):		*
		Passing 37.5mm Sieve(%):		*
		Passing 26.5mm Sieve(%):		100
		Passing 19.0mm Sieve(%):		100
		Passing 13.2mm Sieve(%):		86
		Passing 9.50mm Sieve(%):		72
		Passing 6.70mm Sieve(%):		62
		Passing 4.75mm Sieve(%):		55
		Passing 2.36mm Sieve(%):		42
RTA-T107	WHOLE SAMPLE	Passing 425µm Sieve(%):		23
		Passing 75µm Sieve(%):		11
		Passing 13.5µm Sieve(%):		4.5
RTA-T107	-2.36mm	Passing 425µm Sieve(%):		55
		Passing 75µm Sieve(%):		26
		Passing 13.5µm Sieve(%):		11
	*	A Ratio:		55
		B Ratio:		47
		C Ratio:		42
		Observation:		*
AS 1289.3.1.2 RTA-T109	-425µm	Liquid Limit (%):		19
		Plastic Limit (%):		17
		Moist. Cont. Method (PI):		RTA-T120
AS 1289.3.3.1		Plasticity Index (%):		2
*	-19mm	Maximum Dry Density (t/m ³):		*
		Moist. Cont. Method (MDD):		*
		Optimum Moist. Content (%):		*
*	-2.36mm	Linear Shrinkage (%):		*
*	-19mm	MDCS Moist. Cont. (%):		*
		MDCS Dry Density (t/m ³):		*
		M. D. C. S. (MPa):		*
*	*	Moisture Content (%):		



ROADS AND TRAFFIC AUTHORITY, NSW
 Bowenfels District Laboratory
 Address: 15 - 33 Coopers Road, Bowenfels
 Ph: (02) 6352 8942 Fax: (02) 6352 8917 Email: timothy_campbell@rta.nsw.gov.au Contact: Timothy Campbell

Test Certificate (Final)
Aggregate

Client: Metromix Quarries *PO Box 228 Lithgow NSW 2790*
Client Ref (Project): * **Lab Ref (Project):** H/41007/D/01
Project Description: Bowenfels Laboratory, Miscellaneous Private Testing.
Work Details: Metromix Quarry, Material Testing, Marrangaroo.
Work Distance: *
Supplier: METROMIX

Registration Id: PB20130018
 Received: 11/02/2013
 Sampling By: TC/HF
 Sampling AS 1141.3.1C9.3
 Method:
 Material: DGB 20
 Request ID: *

SPECIFIED LIMITS:

Date Sampled:
 Sample Represents:
 Quantity Represented:
 Lot Number:
 Sample Chainage (km) or Location:
 Lane:
 Offset (m):
 Nominal Size:

Sample:	A	C	E
Date Sampled:	11/02/2013	11/02/2013	11/02/2013
Sample Represents:	M08869	M08869	M08869
Quantity Represented:	*	*	*
Lot Number:	08896	08896	08896
Sample Chainage (km) or Location:	Stockpile	Stockpile	Stockpile
Lane:	*	*	*
Offset (m):	*	*	*
Nominal Size:	*	*	*
TESTS	PRETREATMENT		
RTA-T106	Passing 75.0mm Sieve(%):	*	*
	Passing 63.0mm Sieve(%):	*	*
	Passing 53.0mm Sieve(%):	*	*
	Passing 37.5mm Sieve(%):	*	*
	Passing 26.5mm Sieve(%):	100	100
	Passing 19.0mm Sieve(%):	100	100
	Passing 13.2mm Sieve(%):	87	85
	Passing 9.50mm Sieve(%):	75	71
	Passing 6.70mm Sieve(%):	*	*
	Passing 4.75mm Sieve(%):	*	*
	Passing 2.36mm Sieve(%):	*	*
	Passing 1.18mm Sieve(%):	*	*
	Passing 600µm Sieve(%):	*	*
	Passing 300µm Sieve(%):	*	*
	Passing 150µm Sieve(%):	*	*
	Passing 75µm Sieve(%):	*	*
RTA-T213	Caliper Ratio(2:1/3:1):	2:1 *	2:1 *
	Flat (%):	12 *	10 *
	Elongated(%):	3 *	4 *
	Flat and Elongated (%):	0 *	0 *
	Mis-Shapenecc(%):	14 *	14 *
*	Size Tested(mm):	*	*
*	Dry Strength(kN):	*	*
*	Wet Strength(kN):	*	*
*	Wet Dry Variation (%):	*	*
*	Avg. Least Dimension(mm):	*	*
*	Avg. Least Dimension(mm):	*	*

Comments
 *
 *
 *
 *

NATA Accredited Laboratory Number: 2779
 Accredited for compliance with ISO/IEC 17025.

Approved Signatory: *T. N. Campbell*
 T N Campbell
 Laboratory Supervisor
Date: 26-2-13

