LABORATORY REPORT COVERSHEET

Date: 27 March 2008

To: Reed Resources
97 Outram Street
WEST PERTH WA 6005

Attention: Brian Smith

Your Reference: 15532
Laboratory Report No: 59009
Samples Received: 13/03/2008
Samples / Quantity: 12 Soils

The above samples were received intact and analysed according to your written instructions. Unless otherwise stated, solid samples are reported on a dry weight basis and liquid samples as received.

Shey Goddard
Administration Manager
CAIRNS

Jon Dicker
Manager
CAIRNS

SGS Australia Pty Ltd
ABN 44 000 964 278
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CLIENT: Reed Resources **Laboratory Report No:** 59009

PROJECT: 15532

LABORATORY REPORT

SPOCAS Our Reference Your Reference	Units	59009-1 15532-1	59009-2 15532-2	59009-3 15532-3
pH KCl	pH Units	6.7	5.9	6.3
TAA pH 6.5	moles H^+/tonne	<5	<5	<5
s-TAA pH 6.5	% w/w S	<0.01	<0.01	<0.01
pH Ox	pH Units	7.7	6.4	7.7
TPA pH 6.5	moles H^+/tonne	<5	16	<5
s-TPA pH 6.5	% w/w S	<0.01	0.03	<0.01
TSA pH 6.5	moles H^+/tonne	<5	15	<5
s-TSA pH 6.5	% w/w S	<0.01	0.02	<0.01
ANCE	% $CaCO_3$	0.38	<0.01	0.08
a-ANCE	moles H^+/tonne	76	<5	16
s-ANCE	% w/w S	0.12	<0.01	0.03
S KCl ^	% w/w	0.005	0.015	<0.005
S P ^	% w/w	0.006	0.016	<0.005
S POS ^	% w/w	<0.005	<0.005	<0.005
a-S POS ^	moles H^+/tonne	<5	<5	<5
Ca KCl ^	% w/w	0.026	0.068	0.028
Ca P ^	% w/w	0.031	0.072	0.032
Ca A ^	% w/w	0.005	<0.005	<0.005
Mg KCl ^	% w/w	0.042	0.047	0.054
Mg P ^	% w/w	0.093	0.052	0.083
Mg A ^	% w/w	0.051	0.005	0.029
SHCl ^	% w/w	NA	NA	NA
S NAS ^	% w/w	NA	NA	NA
a-S NAS ^	moles H^+/tonne	NA	NA	NA
s-S NAS ^	% w/w S	NA	NA	NA
s-Net Acidity	% w/w S	<0.01	<0.01	<0.01
a-Net Acidity	moles H^+/tonne	<5	<5	<5
Liming Rate	kg $CaCO_3$/tonne	NA	NA	NA
Verification s-Net Acidity	% w/w S	NA	NA	NA
a-Net Acidity without ANCE	moles H^+/tonne	<5	<5	<5
Liming Rate without ANCE	kg $CaCO_3$/tonne	NA	NA	NA

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LABORATORY REPORT

SPOCAS Our Reference Your Reference	Units	59009-4 15532-4	59009-5 15532-5	59009-6 15532-6
pH KCl	pH Units	5.2	5.7	5.6
TAA pH 6.5	moles H^+/tonne	10	<5	7
s-TAA pH 6.5	% w/w S	0.02	<0.01	0.01
pH Ox	pH Units	6.1	7.5	6.4
TPA pH 6.5	moles H^+/tonne	84	<5	46
s-TPA pH 6.5	% w/w S	0.13	<0.01	0.07
TSA pH 6.5	moles H^+/tonne	74	<5	39
s-TSA pH 6.5	% w/w S	0.12	<0.01	0.06
ANCE	% $CaCO_3$	<0.01	0.44	<0.01
a-ANCE	moles H^+/tonne	<5	88	<5
s-ANCE	% w/w S	<0.01	0.14	<0.01
S KCl ^	% w/w	<0.005	<0.005	<0.005
S P ^	% w/w	<0.005	<0.005	<0.005
S POS ^	% w/w	<0.005	<0.005	<0.005
a-S POS ^	moles H^+/tonne	<5	<5	<5
Ca KCl ^	% w/w	0.057	0.11	0.015
Ca P ^	% w/w	0.059	0.13	0.018
Ca A ^	% w/w	<0.005	0.010	<0.005
Mg KCl ^	% w/w	0.029	0.091	0.008
Mg P ^	% w/w	0.030	0.11	0.010
Mg A ^	% w/w	<0.005	0.017	<0.005
SHCl ^	% w/w	NA	NA	NA
S NAS ^	% w/w	NA	NA	NA
a-S NAS ^	moles H^+/tonne	NA	NA	NA
s-S NAS ^	% w/w S	NA	NA	NA
s-Net Acidity	% w/w S	0.02	<0.01	0.01
a-Net Acidity	moles H^+/tonne	9.7	<5	7.7
Liming Rate	kg $CaCO_3$/tonne	NA	NA	NA
Verification s-Net Acidity	% w/w S	NA	NA	NA
a-Net Acidity without ANCE	moles H^+/tonne	9.7	<5	7.7
Liming Rate without ANCE	kg $CaCO_3$/tonne	NA	NA	NA

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LABORATORY REPORT

SPOCAS Our Reference Your Reference	Units	59009-7 15532-7	59009-8 15532-8	59009-9 15532-9
pH KCl	pH Units	5.8	7.4	6.4
TAA pH 6.5	moles H^+/tonne	<5	<5	<5
s-TAA pH 6.5	% w/w S	<0.01	<0.01	<0.01
pH Ox	pH Units	7.5	7.4	6.9
TPA pH 6.5	moles H^+/tonne	<5	19	<5
s-TPA pH 6.5	% w/w S	<0.01	0.03	<0.01
TSA pH 6.5	moles H^+/tonne	<5	20	<5
s-TSA pH 6.5	% w/w S	<0.01	0.03	<0.01
ANCE	% $CaCO_3$	0.14	0.51	0.19
a-ANCE	moles H^+/tonne	29	100	39
s-ANCE	% w/w S	0.05	0.16	0.06
S KCl ^	% w/w	<0.005	<0.005	<0.005
S P ^	% w/w	<0.005	<0.005	<0.005
S POS ^	% w/w	<0.005	<0.005	<0.005
a-S POS ^	moles H^+/tonne	<5	<5	<5
Ca KCl ^	% w/w	0.046	0.006	0.017
Ca P ^	% w/w	0.051	0.013	0.023
Ca A ^	% w/w	<0.005	0.006	0.006
Mg KCl ^	% w/w	0.040	0.028	0.035
Mg P ^	% w/w	0.055	0.068	0.060
Mg A ^	% w/w	0.015	0.040	0.026
SHCl ^	% w/w	NA	NA	NA
S NAS ^	% w/w	NA	NA	NA
a-S NAS ^	moles H^+/tonne	NA	NA	NA
s-S NAS ^	% w/w S	NA	NA	NA
s-Net Acidity	% w/w S	<0.01	<0.01	<0.01
a-Net Acidity	moles H^+/tonne	<5	<5	<5
Liming Rate	kg $CaCO_3$/tonne	NA	NA	NA
Verification s-Net Acidity	% w/w S	NA	NA	NA
a-Net Acidity without ANCE	moles H^+/tonne	<5	<5	<5
Liming Rate without ANCE	kg $CaCO_3$/tonne	NA	NA	NA

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LABORATORY REPORT

SPOCAS Our Reference Your Reference	Units	59009-10 15532-10	59009-11 15532-11	59009-12 15532-12
pH KCl	pH Units	6.0	6.0	6.3
TAA pH 6.5	moles H^+/tonne	<5	<5	<5
s-TAA pH 6.5	% w/w S	<0.01	<0.01	<0.01
pH Ox	pH Units	6.7	7.6	2.9
TPA pH 6.5	moles H^+/tonne	110	<5	240
s-TPA pH 6.5	% w/w S	0.17	<0.01	0.39
TSA pH 6.5	moles H^+/tonne	110	<5	240
s-TSA pH 6.5	% w/w S	0.17	<0.01	0.39
ANCE	% $CaCO_3$	<0.01	0.13	<0.01
a-ANCE	moles H^+/tonne	<5	26	<5
s-ANCE	% w/w S	<0.01	0.04	<0.01
S KCl ^	% w/w	<0.005	<0.005	0.006
S P ^	% w/w	<0.005	<0.005	0.37
S POS ^	% w/w	<0.005	<0.005	0.36
a-S POS ^	moles H^+/tonne	<5	<5	230
Ca KCl ^	% w/w	0.041	0.061	0.17
Ca P ^	% w/w	0.045	0.070	0.16
Ca A ^	% w/w	<0.005	0.009	<0.005
Mg KCl ^	% w/w	0.031	0.050	0.12
Mg P ^	% w/w	0.042	0.071	0.13
Mg A ^	% w/w	0.011	0.021	0.012
SHCl ^	% w/w	NA	NA	NA
S NAS ^	% w/w	NA	NA	NA
a-S NAS ^	moles H^+/tonne	NA	NA	NA
s-S NAS ^	% w/w S	NA	NA	NA
s-Net Acidity	% w/w S	0.01	<0.01	0.36
a-Net Acidity	moles H^+/tonne	7.2	<5	230
Liming Rate	kg $CaCO_3$/tonne	NA	NA	17
Verification s-Net Acidity	% w/w S	NA	NA	0.12
a-Net Acidity without ANCE	moles H^+/tonne	<5	<5	230
Liming Rate without ANCE	kg $CaCO_3$/tonne	NA	NA	17

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TEST PARAMETERS	UNITS	LOR	METHOD
SPOCAS			
pH KCl	pH Units	0.1	ASSMAC_23A / CEI-401
TAA pH 6.5	moles H^+/tonne	5	ASSMAC_23F / CEI-401
s-TAA pH 6.5	% w/w S	0.01	ASSMAC_S_23F/CEI-401
pH Ox	pH Units	0.1	ASSMAC_23B / CEI-406
TPA pH 6.5	moles H^+/tonne	5	ASSMAC_23G / CEI-406
s-TPA pH 6.5	% w/w S	0.01	ASSMAC_S_23G/CEI-406
TSA pH 6.5	moles H^+/tonne	5	ASSMAC_23H
s-TSA pH 6.5	% w/w S	0.01	ASSMAC_S_23H
ANCE	% $CaCO_3$	0.01	ASSMAC_23Q
a-ANCE	moles H^+/tonne	5	ASSMAC_A_23Q
s-ANCE	% w/w S	0.01	ASSMAC_S_23Q
S KCl ^	% w/w	0.005	ASSMAC_23Ce
S P ^	% w/w	0.005	ASSMAC_23De
S POS ^	% w/w	0.005	ASSMAC_23Ee
a-S POS ^	moles H^+/tonne	5	ASSMAC_A_23Ee
Ca KCl ^	% w/w	0.005	ASSMAC_23Vh
Ca P ^	% w/w	0.005	ASSMAC_23Wh
Ca A ^	% w/w	0.005	ASSMAC_23Xh
Mg KCl ^	% w/w	0.005	ASSMAC_23Sm
Mg P ^	% w/w	0.005	ASSMAC_23Tm
Mg A ^	% w/w	0.005	ASSMAC_23Um
SHCl ^	% w/w	0.005	ASSMAC_20B
S NAS ^	% w/w	0.005	ASSMAC_20J
a-S NAS ^	moles H^+/tonne	5	ASSMAC_A_20J
s-S NAS ^	% w/w S	0.01	ASSMAC_S_20J
s-Net Acidity	% w/w S	0.01	Calculation
a-Net Acidity	moles H^+/tonne	5	Calculation
Liming Rate	kg $CaCO_3$/tonne	0.1	ASSMAC_23H
Verification s-Net Acidity	% w/w S		Calculation
a-Net Acidity without ANCE	moles H^+/tonne	5	Calculation
Liming Rate without ANCE	kg $CaCO_3$/tonne	0.1	ASSMAC_23H

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QUALITY CONTROL	UNITS	Blank	Replicate Sm#	Replicate Sample||Replicate
pH KCl	pH Units	[NT]	59009-1	6.7 || 6.8 || RPD: 1
TAA pH 6.5	moles H^+/tonne	[NT]	59009-1	<5 || <5
s-TAA pH 6.5	% w/w S	[NT]	59009-1	<0.01 || <0.01
pH Ox	pH Units	[NT]	59009-1	7.7 || 7.6 || RPD: 1
TPA pH 6.5	moles H^+/tonne	[NT]	59009-1	<5 || <5
s-TPA pH 6.5	% w/w S	[NT]	59009-1	<0.01 || <0.01
TSA pH 6.5	moles H^+/tonne	[NT]	59009-1	<5 || <5
s-TSA pH 6.5	% w/w S	[NT]	59009-1	<0.01 || <0.01
ANCE	% $CaCO_3$	[NT]	59009-1	0.38 || 0.47 || RPD: 21
a-ANCE	moles H^+/tonne	[NT]	59009-1	76 || 94 || RPD: 21
s-ANCE	% w/w S	[NT]	59009-1	0.12 || 0.15 || RPD: 22
S KCl ^	% w/w	[NT]	59009-1	0.005 || <0.005
S P ^	% w/w	[NT]	59009-1	0.006 || <0.005
S POS ^	% w/w	[NT]	59009-1	<0.005 || <0.005
a-S POS ^	moles H^+/tonne	[NT]	59009-1	<5 || <5
Ca KCl ^	% w/w	[NT]	59009-1	0.026 || 0.023 || RPD: 12
Ca P ^	% w/w	[NT]	59009-1	0.031 || 0.16 || RPD: 135
Ca A ^	% w/w	[NT]	59009-1	0.005 || 0.006 || RPD: 18
Mg KCl ^	% w/w	[NT]	59009-1	0.042 || 0.040 || RPD: 5
Mg P ^	% w/w	[NT]	59009-1	0.093 || 0.096 || RPD: 3
Mg A ^	% w/w	[NT]	59009-1	0.051 || 0.056 || RPD: 9
SHCl ^	% w/w	[NT]	59009-1	NA || NA
S NAS ^	% w/w	[NT]	59009-1	NA || NA
a-S NAS ^	moles H^+/tonne	[NT]	59009-1	NA || NA
s-S NAS ^	% w/w S	[NT]	59009-1	NA || NA
s-Net Acidity	% w/w S	[NT]	59009-1	<0.01 || <0.01
a-Net Acidity	moles H^+/tonne	[NT]	59009-1	<5 || <5
Liming Rate	kg $CaCO_3$/tonne	[NT]	59009-1	NA || NA
Verification s-Net Acidity	% w/w S	[NT]	59009-1	NA || NA
a-Net Acidity without ANCE	moles H^+/tonne	[NT]	59009-1	<5 || <5
Liming Rate without ANCE	kg $CaCO_3$/tonne	[NT]	59009-1	NA || NA

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LABORATORY REPORT

QUALITY CONTROL	UNITS	Blank	Replicate Sm#	Replicate Sample||Replicate
pH KCl	pH Units	[NT]	59009-11	6.0 || 6.1 || RPD: 2
TAA pH 6.5	moles H^+/tonne	[NT]	59009-11	<5 || <5
s-TAA pH 6.5	% w/w S	[NT]	59009-11	<0.01 || <0.01
pH Ox	pH Units	[NT]	59009-11	7.6 || 7.6 || RPD: 0
TPA pH 6.5	moles H^+/tonne	[NT]	59009-11	<5 || <5
s-TPA pH 6.5	% w/w S	[NT]	59009-11	<0.01 || <0.01
TSA pH 6.5	moles H^+/tonne	[NT]	59009-11	<5 || <5
s-TSA pH 6.5	% w/w S	[NT]	59009-11	<0.01 || <0.01
ANCE	% $CaCO_3$	[NT]	59009-11	0.13 || 0.21 || RPD: 47
a-ANCE	moles H^+/tonne	[NT]	59009-11	26 || 41 || RPD: 45
s-ANCE	% w/w S	[NT]	59009-11	0.04 || 0.07 || RPD: 55
S KCl ^	% w/w	[NT]	59009-11	<0.005 || <0.005
S P ^	% w/w	[NT]	59009-11	<0.005 || <0.005
S POS ^	% w/w	[NT]	59009-11	<0.005 || <0.005
a-S POS ^	moles H^+/tonne	[NT]	59009-11	<5 || <5
Ca KCl ^	% w/w	[NT]	59009-11	0.061 || 0.060 || RPD: 2
Ca P ^	% w/w	[NT]	59009-11	0.070 || 0.067 || RPD: 4
Ca A ^	% w/w	[NT]	59009-11	0.009 || 0.006 || RPD: 40
Mg KCl ^	% w/w	[NT]	59009-11	0.050 || 0.050 || RPD: 0
Mg P ^	% w/w	[NT]	59009-11	0.071 || 0.068 || RPD: 4
Mg A ^	% w/w	[NT]	59009-11	0.021 || 0.018 || RPD: 15
SHCl ^	% w/w	[NT]	59009-11	NA || NA
S NAS ^	% w/w	[NT]	59009-11	NA || NA
a-S NAS ^	moles H^+/tonne	[NT]	59009-11	NA || NA
s-S NAS ^	% w/w S	[NT]	59009-11	NA || NA
s-Net Acidity	% w/w S	[NT]	59009-11	<0.01 || <0.01
a-Net Acidity	moles H^+/tonne	[NT]	59009-11	<5 || <5
Liming Rate	kg $CaCO_3$/tonne	[NT]	59009-11	NA || NA
Verification s-Net Acidity	% w/w S	[NT]	59009-11	NA || NA
a-Net Acidity without ANCE	moles H^+/tonne	[NT]	59009-11	<5 || <5
Liming Rate without ANCE	kg $CaCO_3$/tonne	[NT]	59009-11	NA || NA

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LABORATORY REPORT

NOTES:

LOR - Limit of Reporting.

* This test is not covered by our current NATA accreditation.

^ Sulphur, Calcium and Magnesium results are determined at our Toowoomba Laboratory, (214 McDougal St, Toowoomba, QLD) who have NATA accreditation for these parameters.

Liming rate calculated using a Fineness factor of 1.5 (which is equivalent to finely divided Ag Lime <0.5mm) and Neutralising Value (NV) of 100%
If using Liming Material <100% NV, then Liming Rate can be adusted as follows:
Actual Liming Rate equals Calculated Liming Rate times 100 divided by NV of actual Liming Material

Bulk Density of Material of 1g/cm3 assumed.
If Bulk Density differs from 1g/cm3 then Liming rate can be adjusted as follows:
Actual Liming Rate equals Calculated Liming Rate times Actual Bulk Density

ISO 17025

Analysis Date: **Between** 13/03/08 **and** 19/03/08

LABORATORY REPORT COVERSHEET

Date: 12 February 2009

To: Reed Resource Ltd
97 Outram Street
WEST PERTH WA 6005

Attention: Chris Reed

Your Reference: 20747
Laboratory Report No: 62691
Samples Received: 10/02/2009
Samples / Quantity: 10 Soils

The above samples were received intact and analysed according to your written instructions. Unless otherwise stated, solid samples are reported on a dry weight basis and liquid samples as received.

Jon Dicker
Manager
CAIRNS

Anthony Nilsson
Operations Manager
CAIRNS

SGS Australia Pty Ltd
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CLIENT: Reed Resource Ltd **Laboratory Report No:** 62691

PROJECT: 20747

LABORATORY REPORT

SPOCAS Our Reference Your Reference Type of Sample	Units	62691-1 20747-1 Soil	62691-2 20747-2 Soil	62691-3 20747-3 Soil
Date Extracted		10/02/2009	10/02/2009	10/02/2009
Date Analysed		12/02/2009	12/02/2009	12/02/2009
pH KCl	pH Units	6.5	6.6	6.4
TAA pH 6.5	mole H^+/t	<5	<5	<5
s-TAA pH 6.5	% w/w S	<0.01	<0.01	<0.01
pH Ox	pH Units	6.3	7.2	6.9
TPA pH 6.5	mole H^+/t	<5	<5	<5
s-TPA pH 6.5	% w/w S	<0.01	<0.01	<0.01
TSA pH 6.5	mole H^+/t	<5	<5	<5
s-TSA pH 6.5	% w/w S	<0.01	<0.01	<0.01
ANCE	% $CaCO_3$	<0.01	0.40	0.35
a-ANCE	mole H^+/t	<5	80	70
s-ANCE	% w/w S	<0.01	0.13	0.11
S KCl ^	% w/w	0.008	<0.005	<0.005
S P ^	% w/w	0.006	<0.005	<0.005
S POS ^	% w/w	<0.005	<0.005	<0.005
a-S POS ^	mole H^+/t	<5	<5	<5
Ca KCl ^	% w/w	0.14	0.36	0.18
Ca P ^	% w/w	0.13	0.39	0.14
Ca A ^	% w/w	<0.005	0.026	<0.005
Mg KCl ^	% w/w	0.098	0.26	0.18
Mg P ^	% w/w	0.094	0.29	0.15
Mg A ^	% w/w	<0.005	0.027	<0.005
SHCl ^	% w/w	NA	NA	NA
S NAS ^	% w/w	NA	NA	NA
a-S NAS ^	mole H^+/t	<5	<5	<5
s-S NAS ^	% w/w S	NA	NA	NA
s-Net Acidity	% w/w S	<0.01	<0.01	<0.01
a-Net Acidity	mole H^+/t	<5	<5	<5
Liming Rate	kg $CaCO_3$/tonne	NA	NA	NA
Verification s-Net Acidity	% w/w S	NA	NA	NA
a-Net Acidity without ANCE	mole H^+/t	<5	<5	<5

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LABORATORY REPORT

SPOCAS Our Reference Your Reference Type of Sample	Units	62691-1 20747-1 Soil	62691-2 20747-2 Soil	62691-3 20747-3 Soil
Liming Rate without ANCE	kg $CaCO_3$/tonne	NA	NA	NA

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LABORATORY REPORT

SPOCAS Our Reference Your Reference Type of Sample	Units	62691-4 20747-4 Soil	62691-5 20747-5 Soil	62691-6 20747-6 Soil
Date Extracted		10/02/2009	10/02/2009	10/02/2009
Date Analysed		12/02/2009	12/02/2009	12/02/2009
pH KCl	pH Units	6.2	6.6	6.6
TAA pH 6.5	mole H^+/t	<5	<5	<5
s-TAA pH 6.5	% w/w S	<0.01	<0.01	<0.01
pH Ox	pH Units	6.3	6.2	6.7
TPA pH 6.5	mole H^+/t	<5	<5	<5
s-TPA pH 6.5	% w/w S	<0.01	<0.01	<0.01
TSA pH 6.5	mole H^+/t	<5	<5	<5
s-TSA pH 6.5	% w/w S	<0.01	<0.01	<0.01
ANCE	% $CaCO_3$	<0.01	<0.01	0.38
a-ANCE	mole H^+/t	<5	<5	75
s-ANCE	% w/w S	<0.01	<0.01	0.12
S KCl ^	% w/w	<0.005	0.008	<0.005
S P ^	% w/w	<0.005	0.008	<0.005
S POS ^	% w/w	<0.005	<0.005	<0.005
a-S POS ^	mole H^+/t	<5	<5	<5
Ca KCl ^	% w/w	0.042	0.037	0.25
Ca P ^	% w/w	0.044	0.037	0.26
Ca A ^	% w/w	<0.005	<0.005	0.009
Mg KCl ^	% w/w	0.031	0.062	0.25
Mg P ^	% w/w	0.033	0.063	0.26
Mg A ^	% w/w	<0.005	<0.005	0.007
SHCl ^	% w/w	NA	NA	NA
S NAS ^	% w/w	NA	NA	NA
a-S NAS ^	mole H^+/t	<5	<5	<5
s-S NAS ^	% w/w S	NA	NA	NA
s-Net Acidity	% w/w S	<0.01	<0.01	<0.01
a-Net Acidity	mole H^+/t	<5	<5	<5
Liming Rate	kg $CaCO_3$/tonne	NA	NA	NA
Verification s-Net Acidity	% w/w S	NA	NA	NA
a-Net Acidity without ANCE	mole H^+/t	<5	<5	<5

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LABORATORY REPORT

SPOCAS Our Reference Your Reference Type of Sample	Units	62691-4 20747-4 Soil	62691-5 20747-5 Soil	62691-6 20747-6 Soil
Liming Rate without ANCE	kg $CaCO_3$/tonne	NA	NA	NA

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LABORATORY REPORT

SPOCAS Our Reference Your Reference Type of Sample	Units	62691-7 20747-7 Soil	62691-8 20747-8 Soil	62691-9 20747-9 Soil
Date Extracted		10/02/2009	10/02/2009	10/02/2009
Date Analysed		12/02/2009	12/02/2009	12/02/2009
pH KCl	pH Units	6.2	7.0	7.1
TAA pH 6.5	mole H^+/t	<5	<5	<5
s-TAA pH 6.5	% w/w S	<0.01	<0.01	<0.01
pH Ox	pH Units	6.1	6.3	7.9
TPA pH 6.5	mole H^+/t	<5	<5	<5
s-TPA pH 6.5	% w/w S	<0.01	<0.01	<0.01
TSA pH 6.5	mole H^+/t	<5	<5	<5
s-TSA pH 6.5	% w/w S	<0.01	<0.01	<0.01
ANCE	% $CaCO_3$	<0.01	<0.01	0.35
a-ANCE	mole H^+/t	<5	<5	70
s-ANCE	% w/w S	<0.01	<0.01	0.11
S KCl ^	% w/w	<0.005	<0.005	<0.005
S P ^	% w/w	<0.005	<0.005	<0.005
S POS ^	% w/w	<0.005	<0.005	<0.005
a-S POS ^	mole H^+/t	<5	<5	<5
Ca KCl ^	% w/w	0.11	0.17	0.17
Ca P ^	% w/w	0.11	0.15	0.16
Ca A ^	% w/w	<0.005	<0.005	<0.005
Mg KCl ^	% w/w	0.064	0.082	0.092
Mg P ^	% w/w	0.066	0.077	0.093
Mg A ^	% w/w	<0.005	<0.005	<0.005
SHCl ^	% w/w	NA	NA	NA
S NAS ^	% w/w	NA	NA	NA
a-S NAS ^	mole H^+/t	<5	<5	<5
s-S NAS ^	% w/w S	NA	NA	NA
s-Net Acidity	% w/w S	<0.01	<0.01	<0.01
a-Net Acidity	mole H^+/t	<5	<5	<5
Liming Rate	kg $CaCO_3$/tonne	NA	NA	NA
Verification s-Net Acidity	% w/w S	NA	NA	NA
a-Net Acidity without ANCE	mole H^+/t	<5	<5	<5

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LABORATORY REPORT

SPOCAS Our Reference Your Reference Type of Sample	Units	62691-7 20747-7 Soil	62691-8 20747-8 Soil	62691-9 20747-9 Soil
Liming Rate without ANCE	kg $CaCO_3$/tonne	NA	NA	NA

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LABORATORY REPORT

SPOCAS Our Reference Your Reference Type of Sample	Units	62691-10 20747-10 Soil
Date Extracted		10/02/2009
Date Analysed		12/02/2009
pH KCl	pH Units	6.2
TAA pH 6.5	mole H^+/t	<5
s-TAA pH 6.5	% w/w S	<0.01
pH Ox	pH Units	6.1
TPA pH 6.5	mole H^+/t	<5
s-TPA pH 6.5	% w/w S	<0.01
TSA pH 6.5	mole H^+/t	<5
s-TSA pH 6.5	% w/w S	<0.01
ANCE	% $CaCO_3$	<0.01
a-ANCE	mole H^+/t	<5
s-ANCE	% w/w S	<0.01
S KCl ^	% w/w	0.009
S P ^	% w/w	0.009
S POS ^	% w/w	<0.005
a-S POS ^	mole H^+/t	<5
Ca KCl ^	% w/w	0.12
Ca P ^	% w/w	0.13
Ca A ^	% w/w	0.009
Mg KCl ^	% w/w	0.078
Mg P ^	% w/w	0.085
Mg A ^	% w/w	0.007
SHCl ^	% w/w	NA
S NAS ^	% w/w	NA
a-S NAS ^	mole H^+/t	<5
s-S NAS ^	% w/w S	<0.01
s-Net Acidity	% w/w S	<0.01
a-Net Acidity	mole H^+/t	<5
Liming Rate	kg $CaCO_3$/tonne	NA
Verification s-Net Acidity	% w/w S	NA
a-Net Acidity without ANCE	mole H^+/t	<5

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LABORATORY REPORT

SPOCAS Our Reference Your Reference Type of Sample	Units	 62691-10 20747-10 Soil
Liming Rate without ANCE	kg $CaCO_3$/tonne	NA

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LABORATORY REPORT

TEST PARAMETERS	UNITS	LOR	METHOD
SPOCAS			
Date Extracted			
Date Analysed			
pH KCl	pH Units	0.1	ASSMAC_23A / CEI-401
TAA pH 6.5	mole H^+/t	5	ASSMAC_23F / CEI-401
s-TAA pH 6.5	% w/w S	0.01	ASSMAC_S_23F/CEI-401
pH Ox	pH Units	0.1	ASSMAC_23B / CEI-406
TPA pH 6.5	mole H^+/t	5	ASSMAC_23G / CEI-406
s-TPA pH 6.5	% w/w S	0.01	ASSMAC_S_23G/CEI-406
TSA pH 6.5	mole H^+/t	5	ASSMAC_23H
s-TSA pH 6.5	% w/w S	0.01	ASSMAC_S_23H
ANCE	% $CaCO_3$	0.01	ASSMAC_23Q
a-ANCE	mole H^+/t	5	ASSMAC_A_23Q
s-ANCE	% w/w S	0.01	ASSMAC_S_23Q
S KCl ^	% w/w	0.005	ASSMAC_23Ce
S P ^	% w/w	0.005	ASSMAC_23De
S POS ^	% w/w	0.005	ASSMAC_23Ee
a-S POS ^	mole H^+/t	5	ASSMAC_A_23Ee
Ca KCl ^	% w/w	0.005	ASSMAC_23Vh
Ca P ^	% w/w	0.005	ASSMAC_23Wh
Ca A ^	% w/w	0.005	ASSMAC_23Xh
Mg KCl ^	% w/w	0.005	ASSMAC_23Sm
Mg P ^	% w/w	0.005	ASSMAC_23Tm
Mg A ^	% w/w	0.005	ASSMAC_23Um
SHCl ^	% w/w	0.005	ASSMAC_20B
S NAS ^	% w/w	0.005	ASSMAC_20J
a-S NAS ^	mole H^+/t	5	ASSMAC_A_20J
s-S NAS ^	% w/w S	0.01	ASSMAC_S_20J
s-Net Acidity	% w/w S	0.01	Calculation
a-Net Acidity	mole H^+/t	5	Calculation
Liming Rate	kg $CaCO_3$/tonne	0.1	ASSMAC_23H
Verification s-Net Acidity	% w/w S		Calculation
a-Net Acidity without ANCE	mole H^+/t	5	Calculation
Liming Rate without ANCE	kg $CaCO_3$/tonne	0.1	ASSMAC_23H

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LABORATORY REPORT

QUALITY CONTROL	UNITS	Blank	Duplicate Sm#	Duplicate Sample||Duplicate	Spike	CMS Recovery
Date Extracted		-	62691-1	10/02/2009 || 10/02/2009	Batch Spike	-
Date Analysed		-	62691-1	12/02/2009 || 12/02/2009	Batch Spike	-
pH KCl	pH Units	6.0	62691-1	6.5 || 6.5 || RPD: 0	Batch Spike	-
TAA pH 6.5	mole H^+/t	-	62691-1	<5 || <5	Batch Spike	101%
s-TAA pH 6.5	% w/w S	-	62691-1	<0.01 || <0.01	Batch Spike	-
pH Ox	pH Units	6.1	62691-1	6.3 || 6.3 || RPD: 0	Batch Spike	-
TPA pH 6.5	mole H^+/t	-	62691-1	<5 || <5	Batch Spike	112%
s-TPA pH 6.5	% w/w S	-	62691-1	<0.01 || <0.01	Batch Spike	-
TSA pH 6.5	mole H^+/t	-	62691-1	<5 || <5	Batch Spike	-
s-TSA pH 6.5	% w/w S	-	62691-1	<0.01 || <0.01	Batch Spike	-
ANCE	% $CaCO_3$	-	62691-1	<0.01 || <0.01	Batch Spike	-
a-ANCE	mole H^+/t	-	62691-1	<5 || <5	Batch Spike	-
s-ANCE	% w/w S	-	62691-1	<0.01 || <0.01	Batch Spike	-
S KCl ^	% w/w	-	62691-1	0.008 || 0.008 || RPD: 0	Batch Spike	94%
S P ^	% w/w	-	62691-1	0.006 || 0.006 || RPD: 0	Batch Spike	95%
S POS ^	% w/w	-	62691-1	<0.005 || <0.005	Batch Spike	-
a-S POS ^	mole H^+/t	-	62691-1	<5 || <5	Batch Spike	-
Ca KCl ^	% w/w	-	62691-1	0.14 || 0.14 || RPD: 0	Batch Spike	87%
Ca P ^	% w/w	-	62691-1	0.13 || 0.13 || RPD: 0	Batch Spike	87%
Ca A ^	% w/w	-	62691-1	<0.005 || <0.005	Batch Spike	-
Mg KCl ^	% w/w	-	62691-1	0.098 || 0.098 || RPD: 0	Batch Spike	88%
Mg P ^	% w/w	-	62691-1	0.094 || 0.097 || RPD: 3	Batch Spike	90%
Mg A ^	% w/w	-	62691-1	<0.005 || <0.005	Batch Spike	-
SHCl ^	% w/w	-	62691-1	NA || NA	Batch Spike	-
S NAS ^	% w/w	-	62691-1	NA || NA	Batch Spike	-
a-S NAS ^	mole H^+/t	-	62691-1	<5 || <5	Batch Spike	-
s-S NAS ^	% w/w S	-	62691-1	NA || NA	Batch Spike	-
s-Net Acidity	% w/w S	-	62691-1	<0.01 || <0.01	Batch Spike	-
a-Net Acidity	mole H^+/t	-	62691-1	<5 || <5	Batch Spike	-
Liming Rate	kg $CaCO_3$/tonne	-	62691-1	NA || NA	Batch Spike	-
Verification s-Net Acidity	% w/w S	-	62691-1	NA || NA	Batch Spike	-
a-Net Acidity without ANCE	mole H^+/t	-	62691-1	<5 || <5	Batch Spike	-
Liming Rate without ANCE	kg $CaCO_3$/tonne	-	62691-1	NA || NA	Batch Spike	-

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LABORATORY REPORT

NOTES:
LOR - Limit of Reporting.
This test is not covered by our current NATA accreditation.
^Sulphur results determined at our Toowoomba laboratory (214 McDougal St, Toowoomba, QLD) who have NATA accreditation for this parameter.

Liming rate calculated using a Fineness factor of 1.5 (which is equivalent to finely divided Ag Lime <0.5mm) and Neutralising Value (NV) of 100%
If using Liming Material <100% NV, then Liming Rate can be adusted as follows:
Actual Liming Rate equals Calculated Liming Rate times 100 divided by NV of actual Liming Material

Bulk Density of Material of 1g/cm3 assumed.
If Bulk Density differs from 1g/cm3 then Liming rate can be adjusted as follows:
Actual Liming Rate equals Calculated Liming Rate times Actual Bulk Density

Analysis Date: **Between** 10/02/09 **and** 12/02/09

Sample Number	Lab. Job Number	Hole Number	Depth Interval		V2O5	TiO2	Fe	Si	Al	Mg	Ca	Mn	P	K	Na	S	LOI
				METHOD	XRF78S	XRF78S	XRF78S	XRF78S	XRF78S	XRF78S	XRF78S	XRF78S	XRF78S	XRF78S	XRF78S	XRF78S	XRF78S
				LDETECTION	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.01	0.01	0.005	-10
				UDETECTION	100	100	100	100	100	100	100	100	100	100	100	100	100
			metres	UNITS	%	%	%	%	%	%	%	%	%	%	%	%	%
28751	WM105211	BRC460	0-1		0.41	6.52	11.3	13.2	9.37	1.21	6.75	0.02	0.009	0.18	0.26	**3.88**	15
28752	WM105211	BRC460	1-2.		0.48	5.99	11.6	14.7	13.7	0.7	2.61	0.01	0.007	0.1	0.33	**1.47**	13.2
28366	WM105209	BRC388	1-2.		0.59	6.27	26.9	8.67	7.05	0.34	4.02	0.07	0.025	0.04	0.16	**2.95**	11.5
28367	WM105209	BRC388	2-3.		0.55	5.94	25.2	9.11	7.95	0.27	4.22	0.07	0.016	0.04	0.18	**3.32**	11.9
29210	WM105212	BRC478	5-6.		0.87	10.32	27.9	9.32	8.83	0.14	1.33	0.05	0.028	0.04	0.12	**1.01**	9.57
70401	WM105266	TW001	0-1		0.29	6.41	6.11	18.3	8.79	1.34	5.5	0.03	0.015	0.25	0.4	**4.03**	14.5
70549	WM105285	BDDH021	0-1.5		0.36	8.84	5.18	16.8	12	1.32	5.45	0.02	0.007	0.06	0.25	**3.59**	12.2
70550	WM105285	BDDH021	1.5-3.0		0.62	8.87	3.49	17.6	15.2	0.28	3.27	X	0.009	0.08	0.4	**2.53**	11.9

Semi Quantitative XRD analysis					**Gypsum**	**Kaolin**	**Goethite**	**Hematite**	**Quartz**
Prof. Bob Gilkes, UWA						**(well ordered)**			
					%	**%**	**%**	**%**	**%**
28751		BRC460	0-1		30	30	15	10	15
28752		BRC460	1-2.		15	10	20	10	5
28366		BRC388	1-2.		30	40	15	10	5
28367		BRC388	2-3.		30	40	15	10	5
29210		BRC478	5-6.		10	50	25	15	trace
70401	WM105266	TW001	0-1	XRD not requested					
70549	WM105285	BDDH021	0-1.5	XRD not requested					
70550	WM105285	BDDH021	1.5-3.0	XRD not requested					