

Locked Bag 588 Wagga Wagga NSW 2678

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Southern Meats Pty Ltd

Mazamet Road PO Box 244

Goulburn NSW 2580
Attention: Scott Newton

Wednesday, October 24, 2018

NATA Accredited Laboratory Number: 9597

Accredited for compliance with ISO/IEC 17025 - Testing

### LABORATORY ANALYSIS REPORT

Report Number: 1809-0101 Page 1 of 6

For all enquiries related to this report please quote document number: 1809-0101

Facility: SM Soils 2018/19-1

Sample TypeCollected ByDate ReceivedSoilP. Paradice21-September-2018

2011				21 September 2010		
EAL ID	Client ID.  Date/Time samp	<u>Test</u> de taken	Result (units)		Method Reference	Limit of Reporting
18Sep-0279	<b>SS1</b> 19.09.18					
		Calcium, soluble/exchangeable	5.75	cmol/kg	LTM-S-005	0.02
		<b>Effective Cation Exchange Capacity</b>	11	cmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	3.61	cmol/kg	LTM-S-005	0.02
		Nitrate as N	7	mg/kg	LTM-S-007	1
		Phosphorous Sorption	214	mg/kg	* R&L 9I2a	
		Phosphorus, Total	1410	mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	6.4	pH units	LTM-S-004	
		Potassium, soluble/exchangeable	1.53	cmol/kg	LTM-S-005	0.05
		Sodium, soluble/exchangeable	0.50	cmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	2660	mg/kg	LTM-S-011	2
18Sep-0280	<b>SS2</b> 19.09.18					
		Calcium, soluble/exchangeable	5.10	cmol/kg	LTM-S-005	0.02
		<b>Effective Cation Exchange Capacity</b>	10	cmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	3.14	cmol/kg	LTM-S-005	0.02
		Nitrate as N	24	mg/kg	LTM-S-007	1
		Phosphorous Sorption	266	mg/kg	* R&L 9I2a	
		Phosphorus, Total	900	mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	6.2	pH units	LTM-S-004	
		Potassium, soluble/exchangeable	1.64	cmol/kg	LTM-S-005	0.05
		Sodium, soluble/exchangeable	0.60	cmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	2120	mg/kg	LTM-S-011	2

18Sep-0281 **SS3** 19.09.1

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### LABORATORY ANALYSIS REPORT

**Report Number: 1809-0101** Page 2 of 6

For all enquiries related to this report please quote document number: 1809-0101

Facility: Order# SM Soils 2018/19-1

Sample Type Collected By **Date Received** Soil P. Paradice 21-September-2018

5011			1.1 tradice			21 September 2010		
EAL ID	Client ID.  Date/Time samp	<u>Test</u> de taken	Result (		Method Reference	Limit of Reporting		
18Sep-0281	SS3 19.09.18							
		Calcium, soluble/exchangeable	8.85	cmol/kg	LTM-S-005	0.02		
		<b>Effective Cation Exchange Capacity</b>	16	cmol/kg	* R&L J1	1		
		Magnesium, soluble/exchangeable	5.06	cmol/kg	LTM-S-005	0.02		
		Nitrate as N	9	mg/kg	LTM-S-007	1		
		Phosphorous Sorption	312	mg/kg	* R&L 9I2a			
		Phosphorus, Total	3400	mg/kg	LTM-S-015	2		
		pH (1:5 soil/water)	5.9	pH units	LTM-S-004			
		Potassium, soluble/exchangeable	1.12	cmol/kg	LTM-S-005	0.05		
		Sodium, soluble/exchangeable	0.88	cmol/kg	LTM-S-005	0.02		
		Total Kjeldahl Nitrogen	5520	mg/kg	LTM-S-011	2		
18Sep-0282	<b>SS4</b> 19.09.18							
		Calcium, soluble/exchangeable	4.44	cmol/kg	LTM-S-005	0.02		
		<b>Effective Cation Exchange Capacity</b>	9	cmol/kg	* R&L J1	1		
		Magnesium, soluble/exchangeable	3.19	cmol/kg	LTM-S-005	0.02		
		Nitrate as N	57	mg/kg	LTM-S-007	1		
		Phosphorous Sorption	126	mg/kg	* R&L 9I2a			
		Phosphorus, Total	668	mg/kg	LTM-S-015	2		
		pH (1:5 soil/water)	6.5	pH units	LTM-S-004			
		Potassium, soluble/exchangeable	0.77	cmol/kg	LTM-S-005	0.05		
		Sodium, soluble/exchangeable	1.05	cmol/kg	LTM-S-005	0.02		
		Total Kjeldahl Nitrogen	1970	mg/kg	LTM-S-011	2		

18Sep-0283

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Report Number: 1809-0101 Page 3 of 6

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Facility: SM Soils 2018/19-1

Sample TypeCollected ByDate ReceivedSoilP. Paradice21-September-2018

	1.1 aradice			21-September-2016		
Client ID.  Date/Time sample	<u>Test</u> le taken	Result (units)		Method Reference	Limit of Reporting	
SS5 19.09.18						
	Calcium, soluble/exchangeable	8.25	cmol/kg	LTM-S-005	0.02	
	Effective Cation Exchange Capacity	12	cmol/kg	* R&L J1	1	
	Magnesium, soluble/exchangeable	2.49	cmol/kg	LTM-S-005	0.02	
	Nitrate as N	3	mg/kg	LTM-S-007	1	
	Phosphorous Sorption	138	mg/kg	* R&L 9I2a		
	Phosphorus, Total	404	mg/kg	LTM-S-015	2	
	pH (1:5 soil/water)	7.7	pH units	LTM-S-004		
	Potassium, soluble/exchangeable	0.64	cmol/kg	LTM-S-005	0.05	
	Sodium, soluble/exchangeable	0.84	cmol/kg	LTM-S-005	0.02	
	Total Kjeldahl Nitrogen	2380	mg/kg	LTM-S-011	2	
<b>SS6</b> 19.09.18						
	Calcium, soluble/exchangeable	4.24	cmol/kg	LTM-S-005	0.02	
	Effective Cation Exchange Capacity	6	cmol/kg	* R&L J1	1	
	Magnesium, soluble/exchangeable	1.14	cmol/kg	LTM-S-005	0.02	
	Nitrate as N	4	mg/kg	LTM-S-007	1	
	Phosphorous Sorption	237	mg/kg	* R&L 9I2a		
	Phosphorus, Total	173	mg/kg	LTM-S-015	2	
	pH (1:5 soil/water)	7.8	pH units	LTM-S-004		
	Potassium, soluble/exchangeable	0.45	cmol/kg	LTM-S-005	0.05	
	Sodium, soluble/exchangeable	0.32	cmol/kg	LTM-S-005	0.02	
	Total Kjeldahl Nitrogen	1120	mg/kg	LTM-S-011	2	
	SS5 19.09.18	SS5 19.09.18  Calcium, soluble/exchangeable Effective Cation Exchange Capacity Magnesium, soluble/exchangeable Nitrate as N Phosphorous Sorption Phosphorus, Total pH (1:5 soil/water) Potassium, soluble/exchangeable Sodium, soluble/exchangeable Total Kjeldahl Nitrogen  SS6 19.09.18  Calcium, soluble/exchangeable Effective Cation Exchange Capacity Magnesium, soluble/exchangeable Nitrate as N Phosphorous Sorption Phosphorus, Total pH (1:5 soil/water) Potassium, soluble/exchangeable Sodium, soluble/exchangeable	SSS   19.09.18   Calcium, soluble/exchangeable   R.25	Calcium, soluble/exchangeable   S.25   cmol/kg	Date   Time sample taken   SSS   19.09.18	

18Sep-0285 **SS7** 19.09.1

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Report Number: 1809-0101 Page 4 of 6

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Facility: SM Soils 2018/19-1

Sample TypeCollected ByDate ReceivedSoilP. Paradice21-September-2018

Method Reference Limit of EAL ID **Test** Result (units) Client ID. Reporting Date/Time sample taken **SS7** 19.09.18 18Sep-0285 Calcium, soluble/exchangeable 5.70 cmol/kg 0.02 LTM-S-005 **Effective Cation Exchange Capacity** 10 cmol/kg \* R&L J1 1 Magnesium, soluble/exchangeable 2.71 cmol/kg LTM-S-005 0.02 Nitrate as N 16 mg/kg LTM-S-007 mg/kg **Phosphorous Sorption** 237 \* R&L 9I2a 516 Phosphorus, Total mg/kg LTM-S-015 2 pH (1:5 soil/water) 7.9 pH units LTM-S-004 Potassium, soluble/exchangeable 0.49 cmol/kg LTM-S-005 0.05 Sodium, soluble/exchangeable 1.19 cmol/kg LTM-S-005 0.02 Total Kjeldahl Nitrogen 1600 mg/kg LTM-S-011 2 **SS8** 19.09.18 18Sep-0286 Calcium, soluble/exchangeable 4.01 cmol/kg LTM-S-005 0.02 **Effective Cation Exchange Capacity** 7 cmol/kg \* R&L J1 1 Magnesium, soluble/exchangeable 1.74 cmol/kg LTM-S-005 0.02 2 Nitrate as N mg/kg LTM-S-007 1 **Phosphorous Sorption** 487 mg/kg \* R&L 9I2a Phosphorus, Total 292 mg/kg LTM-S-015 2 pH (1:5 soil/water) 6.5 pH units LTM-S-004 Potassium, soluble/exchangeable 1.15 cmol/kg LTM-S-005 0.05 Sodium, soluble/exchangeable 0.30 cmol/kg LTM-S-005 0.02 Total Kjeldahl Nitrogen 1820 mg/kg LTM-S-011 2

18Sep-0287 **SS9** 19.09.18

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Facility: SM Soils 2018/19-1

Sample TypeCollected ByDate ReceivedSoilP. Paradice21-September-2018

Method Reference Limit of EAL ID **Test** Result (units) Client ID. Reporting Date/Time sample taken 18Sep-0287 SS9 19.09.18 Calcium, soluble/exchangeable 5.70 cmol/kg 0.02 LTM-S-005 **Effective Cation Exchange Capacity** 10 cmol/kg \* R&L J1 1 Magnesium, soluble/exchangeable 3.57 cmol/kg LTM-S-005 0.02 Nitrate as N 6 mg/kg LTM-S-007 mg/kg **Phosphorous Sorption** 405 \* R&L 9I2a 264 Phosphorus, Total mg/kg LTM-S-015 2 pH (1:5 soil/water) pH units 6.1 LTM-S-004 Potassium, soluble/exchangeable 0.77 cmol/kg LTM-S-005 0.05 Sodium, soluble/exchangeable 0.15 cmol/kg LTM-S-005 0.02 Total Kjeldahl Nitrogen 2640 mg/kg LTM-S-011 2 **SS10** 19.09.18 18Sep-0288 Calcium, soluble/exchangeable 0.62 cmol/kg LTM-S-005 0.02 **Effective Cation Exchange Capacity** cmol/kg 1 \* R&L J1 1 Magnesium, soluble/exchangeable 0.27 cmol/kg LTM-S-005 0.02 18 Nitrate as N mg/kg LTM-S-007 1 **Phosphorous Sorption** 202 mg/kg \* R&L 9I2a Phosphorus, Total 120 mg/kg LTM-S-015 2 pH (1:5 soil/water) 4.8 pH units LTM-S-004 Potassium, soluble/exchangeable 0.22 cmol/kg LTM-S-005 0.05 0.08 Sodium, soluble/exchangeable cmol/kg LTM-S-005 0.02 Total Kjeldahl Nitrogen 603 mg/kg LTM-S-011 2



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Facility: Order # SM Soils 2018/19-1

Sample TypeCollected ByDate ReceivedSoilP. Paradice21-September-2018

EAL ID Client ID. Test Result (units) Method Reference Limit of Reporting

Note:

Signed ....

.... David Wade, Laboratory Manager.

All samples analysed as received.
All soil results are reported on a dry basis.
The EAL takes no responsibility for the end use of results within this report.
This report shall not be reproduced except in full.
This report replaces any previously issued report

<sup>\*</sup> NATA Accreditation does not cover the performance of this service.