

Southern Meats Pty Ltd  
Mazamet Road PO Box 244  
Goulburn NSW 2580  
Attention: Scott Newton

Friday, June 16, 2023



NATA Accredited Laboratory  
Number: 9597

Accredited for compliance with  
ISO/IEC 17025 - Testing

## LABORATORY ANALYSIS REPORT

Report Number: 2305-0024

Page 1 of 12

For all enquiries related to this report please quote document number: 2305-0024

<u>Facility:</u>	<u>Order #</u>	<u>Date Analysis Commenced</u>
		08-May-2023
<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>
Soil	P. Paradise	08-May-2023

<u>EAL ID</u>	<u>Client ID.</u> Date/Time sample taken	<u>Test</u>	<u>Result (units)</u>	<u>Method Reference</u>	<u>Limit of Reporting</u>
23May-0057	<b>SS1 0-100</b> 04.05.23 8.15am	Calcium, soluble/exchangeable	2.35 mmol/kg	LTM-S-005	0.02
		Effective Cation Exchange Capacity	4 mmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	1.24 mmol/kg	LTM-S-005	0.02
		Nitrate as N	9 mg/g	LTM-S-007	1
		Phosphorous Sorption	114 mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	241 mg/g	LTM-S-006	5
		Phosphorus, Total	528 mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	8.0 pH units	LTM-S-004	
		Potassium, soluble/exchangeable	0.43 mmol/kg	LTM-S-005	0.05
		Sodium, soluble/exchangeable	0.05 mmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	1880 mg/kg	LTM-S-011	2
23May-0058	<b>SS2 0-100</b> 04.05.23 8.45am	Calcium, soluble/exchangeable	3.92 mmol/kg	LTM-S-005	0.02
		Effective Cation Exchange Capacity	8 mmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	2.55 mmol/kg	LTM-S-005	0.02
		Nitrate as N	18 mg/g	LTM-S-007	1
		Phosphorous Sorption	226 mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	242 mg/g	LTM-S-006	5
		Phosphorus, Total	882 mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	7.7 pH units	LTM-S-004	
		Potassium, soluble/exchangeable	0.91 mmol/kg	LTM-S-005	0.05

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Page 2 of 12

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23May-0058	<b>SS2 0-100</b> 04.05.23 8.45am	Sodium, soluble/exchangeable	<b>0.24</b> mmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	<b>1900</b> mg/kg	LTM-S-011	2
23May-0059	<b>SS3 0-100</b> 04.05.23 9.15am	Calcium, soluble/exchangeable	<b>5.48</b> mmol/kg	LTM-S-005	0.02
		Effective Cation Exchange Capacity	<b>9</b> mmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	<b>2.60</b> mmol/kg	LTM-S-005	0.02
		Nitrate as N	<b>12</b> mg/g	LTM-S-007	1
		Phosphorous Sorption	<b>294</b> mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	<b>172</b> mg/g	LTM-S-006	5
		Phosphorus, Total	<b>626</b> mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	<b>7.6</b> pH units	LTM-S-004	
		Potassium, soluble/exchangeable	<b>0.90</b> mmol/kg	LTM-S-005	0.05
		Sodium, soluble/exchangeable	<b>0.18</b> mmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	<b>2600</b> mg/kg	LTM-S-011	2
23May-0060	<b>SS4 0-100</b> 04.05.23 9.45am	Calcium, soluble/exchangeable	<b>6.48</b> mmol/kg	LTM-S-005	0.02
		Effective Cation Exchange Capacity	<b>12</b> mmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	<b>3.81</b> mmol/kg	LTM-S-005	0.02
		Nitrate as N	<b>6</b> mg/g	LTM-S-007	1
		Phosphorous Sorption	<b>226</b> mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	<b>255</b> mg/g	LTM-S-006	5

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Page 3 of 12

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23May-0060	SS4 0-100 04.05.23 9.45am	Phosphorus, Total	818 mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	7.5 pH units	LTM-S-004	
		Potassium, soluble/exchangeable	0.90 mmol/kg	LTM-S-005	0.05
		Sodium, soluble/exchangeable	0.27 mmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	2850 mg/kg	LTM-S-011	2
23May-0061	SS5 0-100 04.05.23 10.15am	Calcium, soluble/exchangeable	7.87 mmol/kg	LTM-S-005	0.02
		Effective Cation Exchange Capacity	10 mmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	1.61 mmol/kg	LTM-S-005	0.02
		Nitrate as N	8 mg/g	LTM-S-007	1
		Phosphorous Sorption	221 mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	195 mg/g	LTM-S-006	5
		Phosphorus, Total	429 mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	7.7 pH units	LTM-S-004	
		Potassium, soluble/exchangeable	0.25 mmol/kg	LTM-S-005	0.05
		Sodium, soluble/exchangeable	0.28 mmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	2010 mg/kg	LTM-S-011	2
23May-0062	SS6 0-100 04.05.23 10.20am	Calcium, soluble/exchangeable	5.49 mmol/kg	LTM-S-005	0.02
		Effective Cation Exchange Capacity	6 mmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	0.89 mmol/kg	LTM-S-005	0.02

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Page 4 of 12

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23May-0062	SS6 0-100 04.05.23 10.20am	Nitrate as N	5 mg/g	LTM-S-007	1
		Phosphorous Sorption	215 mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	22 mg/g	LTM-S-006	5
		Phosphorus, Total	186 mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	7.5 pH units	LTM-S-004	
		Potassium, soluble/exchangeable	0.18 mmol/kg	LTM-S-005	0.05
		Sodium, soluble/exchangeable	<0.02 mmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	1390 mg/kg	LTM-S-011	2
23May-0063	SS7 0-100 04.05.23 10.35am	Calcium, soluble/exchangeable	6.07 mmol/kg	LTM-S-005	0.02
		Effective Cation Exchange Capacity	10 mmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	3.08 mmol/kg	LTM-S-005	0.02
		Nitrate as N	17 mg/g	LTM-S-007	1
		Phosphorous Sorption	266 mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	240 mg/g	LTM-S-006	5
		Phosphorus, Total	634 mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	7.6 pH units	LTM-S-004	
		Potassium, soluble/exchangeable	0.48 mmol/kg	LTM-S-005	0.05
		Sodium, soluble/exchangeable	0.54 mmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	2100 mg/kg	LTM-S-011	2
23May-0064	SS8 0-100 04.05.23 10.45am				

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Report Number: 2305-0024

Page 5 of 12

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23May-0064	<b>SS8 0-100</b> 04.05.23 10.45am	Calcium, soluble/exchangeable	<b>4.66</b> mmol/kg	LTM-S-005	0.02
		Effective Cation Exchange Capacity	<b>6</b> mmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	<b>1.49</b> mmol/kg	LTM-S-005	0.02
		Nitrate as N	<b>12</b> mg/g	LTM-S-007	1
		Phosphorous Sorption	<b>&lt;5</b> mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	<b>17</b> mg/g	LTM-S-006	5
		Phosphorus, Total	<b>227</b> mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	<b>7.3</b> pH units	LTM-S-004	
		Potassium, soluble/exchangeable	<b>0.28</b> mmol/kg	LTM-S-005	0.05
		Sodium, soluble/exchangeable	<b>0.16</b> mmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	<b>2160</b> mg/kg	LTM-S-011	2
23May-0065	<b>SS9 0-100</b> 04.05.23 10.55am	Calcium, soluble/exchangeable	<b>1.63</b> mmol/kg	LTM-S-005	0.02
		Effective Cation Exchange Capacity	<b>2</b> mmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	<b>0.73</b> mmol/kg	LTM-S-005	0.02
		Nitrate as N	<b>2</b> mg/g	LTM-S-007	1
		Phosphorous Sorption	<b>&lt;5</b> mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	<b>&lt;5.0</b> mg/g	LTM-S-006	5
		Phosphorus, Total	<b>64</b> mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	<b>7.0</b> pH units	LTM-S-004	
		Potassium, soluble/exchangeable	<b>&lt;0.05</b> mmol/kg	LTM-S-005	0.05

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Page 6 of 12

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23May-0065	SS9 0-100 04.05.23 10.55am	Sodium, soluble/exchangeable	<0.02 mmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	912 mg/kg	LTM-S-011	2
23May-0066	SS10 0-100 04.05.23 11.15am	Calcium, soluble/exchangeable	0.51 mmol/kg	LTM-S-005	0.02
		Effective Cation Exchange Capacity	<1 mmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	0.14 mmol/kg	LTM-S-005	0.02
		Nitrate as N	2 mg/g	LTM-S-007	1
		Phosphorous Sorption	232 mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	<5.0 mg/g	LTM-S-006	5
		Phosphorus, Total	59 mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	6.9 pH units	LTM-S-004	
		Potassium, soluble/exchangeable	0.20 mmol/kg	LTM-S-005	0.05
		Sodium, soluble/exchangeable	<0.02 mmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	929 mg/kg	LTM-S-011	2
23May-0067	SS1 500-600 04.05.23 8.15am	Calcium, soluble/exchangeable	1.17 mmol/kg	LTM-S-005	0.02
		Effective Cation Exchange Capacity	2 mmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	0.98 mmol/kg	LTM-S-005	0.02
		Nitrate as N	3 mg/g	LTM-S-007	1
		Phosphorous Sorption	92 mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	171 mg/g	LTM-S-006	5

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Page 7 of 12

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23May-0067	<b>SS1 500-600</b> 04.05.23 8.15am	<b>Phosphorus, Total</b>	<b>312</b> mg/kg	LTM-S-015	2
		<b>pH (1:5 soil/water)</b>	<b>7.0</b> pH units	LTM-S-004	
		<b>Potassium, soluble/exchangeable</b>	<b>0.24</b> mmol/kg	LTM-S-005	0.05
		<b>Sodium, soluble/exchangeable</b>	<b>0.14</b> mmol/kg	LTM-S-005	0.02
		<b>Total Kjeldahl Nitrogen</b>	<b>523</b> mg/kg	LTM-S-011	2
23May-0068	<b>SS2 500-600</b> 04.05.23 8.45am	<b>Calcium, soluble/exchangeable</b>	<b>3.86</b> mmol/kg	LTM-S-005	0.02
		<b>Effective Cation Exchange Capacity</b>	<b>13</b> mmol/kg	* R&L J1	1
		<b>Magnesium, soluble/exchangeable</b>	<b>5.93</b> mmol/kg	LTM-S-005	0.02
		<b>Nitrate as N</b>	<b>3</b> mg/g	LTM-S-007	1
		<b>Phosphorous Sorption</b>	<b>865</b> mg/kg	* R&L 9I2a	
		<b>Extractable Phosphorus (Colwell)</b>	<b>9.8</b> mg/g	LTM-S-006	5
		<b>Phosphorus, Total</b>	<b>92</b> mg/kg	LTM-S-015	2
		<b>pH (1:5 soil/water)</b>	<b>7.6</b> pH units	LTM-S-004	
		<b>Potassium, soluble/exchangeable</b>	<b>0.33</b> mmol/kg	LTM-S-005	0.05
		<b>Sodium, soluble/exchangeable</b>	<b>3.09</b> mmol/kg	LTM-S-005	0.02
		<b>Total Kjeldahl Nitrogen</b>	<b>727</b> mg/kg	LTM-S-011	2
23May-0069	<b>SS3 500-600</b> 04.05.23 9.15am	<b>Calcium, soluble/exchangeable</b>	<b>5.28</b> mmol/kg	LTM-S-005	0.02
		<b>Effective Cation Exchange Capacity</b>	<b>14</b> mmol/kg	* R&L J1	1
		<b>Magnesium, soluble/exchangeable</b>	<b>4.90</b> mmol/kg	LTM-S-005	0.02

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Page 8 of 12

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23May-0069	SS3 500-600 04.05.23 9.15am	Nitrate as N	3 mg/g	LTM-S-007	1
		Phosphorous Sorption	815 mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	28 mg/g	LTM-S-006	5
		Phosphorus, Total	191 mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	7.4 pH units	LTM-S-004	
		Potassium, soluble/exchangeable	0.65 mmol/kg	LTM-S-005	0.05
		Sodium, soluble/exchangeable	3.31 mmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	931 mg/kg	LTM-S-011	2
23May-0070	SS4 500-600 04.05.23 9.45am	Calcium, soluble/exchangeable	2.74 mmol/kg	LTM-S-005	0.02
		Effective Cation Exchange Capacity	11 mmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	4.64 mmol/kg	LTM-S-005	0.02
		Nitrate as N	3 mg/g	LTM-S-007	1
		Phosphorous Sorption	687 mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	24 mg/g	LTM-S-006	5
		Phosphorus, Total	106 mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	7.8 pH units	LTM-S-004	
		Potassium, soluble/exchangeable	0.16 mmol/kg	LTM-S-005	0.05
		Sodium, soluble/exchangeable	3.58 mmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	896 mg/kg	LTM-S-011	2
23May-0071	SS5 500-600 04.05.23 10.15am				



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Page 9 of 12

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23May-0071	SS5 500-600 04.05.23 10.15am	Calcium, soluble/exchangeable	6.00 mmol/kg	LTM-S-005	0.02
		Effective Cation Exchange Capacity	22 mmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	10.2 mmol/kg	LTM-S-005	0.02
		Nitrate as N	4 mg/g	LTM-S-007	1
		Phosphorous Sorption	944 mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	<5.0 mg/g	LTM-S-006	5
		Phosphorus, Total	10 mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	8.1 pH units	LTM-S-004	
		Potassium, soluble/exchangeable	0.63 mmol/kg	LTM-S-005	0.05
		Sodium, soluble/exchangeable	5.45 mmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	705 mg/kg	LTM-S-011	2
23May-0072	SS6 500-600 04.05.23 10.20am	Calcium, soluble/exchangeable	5.95 mmol/kg	LTM-S-005	0.02
		Effective Cation Exchange Capacity	10 mmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	3.22 mmol/kg	LTM-S-005	0.02
		Nitrate as N	<1 mg/g	LTM-S-007	1
		Phosphorous Sorption	904 mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	<5.0 mg/g	LTM-S-006	5
		Phosphorus, Total	32 mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	8.1 pH units	LTM-S-004	
		Potassium, soluble/exchangeable	0.27 mmol/kg	LTM-S-005	0.05

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Page 10 of 12

For all enquiries related to this report please quote document number: 2305-0024

<u>Facility:</u>	<u>Order #</u>	<u>Date Analysis Commenced</u>
		08-May-2023
<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>
Soil	P. Paradise	08-May-2023

<u>EAL ID</u>	<u>Client ID.</u> Date/Time sample taken	<u>Test</u>	<u>Result (units)</u>	<u>Method Reference</u>	<u>Limit of Reporting</u>
23May-0072	<b>SS6 500-600</b> 04.05.23 10.20am	Sodium, soluble/exchangeable	<b>0.89</b> mmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	<b>751</b> mg/kg	LTM-S-011	2
23May-0073	<b>SS7 500-600</b> 04.05.23 10.35am	Calcium, soluble/exchangeable	<b>3.59</b> mmol/kg	LTM-S-005	0.02
		Effective Cation Exchange Capacity	<b>17</b> mmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	<b>7.49</b> mmol/kg	LTM-S-005	0.02
		Nitrate as N	<b>3</b> mg/g	LTM-S-007	1
		Phosphorous Sorption	<b>983</b> mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	<b>11</b> mg/g	LTM-S-006	5
		Phosphorus, Total	<b>57</b> mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	<b>8.2</b> pH units	LTM-S-004	
		Potassium, soluble/exchangeable	<b>0.50</b> mmol/kg	LTM-S-005	0.05
		Sodium, soluble/exchangeable	<b>5.33</b> mmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	<b>741</b> mg/kg	LTM-S-011	2
23May-0074	<b>SS8 500-600</b> 04.05.23 10.45am	Calcium, soluble/exchangeable	<b>3.17</b> mmol/kg	LTM-S-005	0.02
		Effective Cation Exchange Capacity	<b>5</b> mmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	<b>1.56</b> mmol/kg	LTM-S-005	0.02
		Nitrate as N	<b>7</b> mg/g	LTM-S-007	1
		Phosphorous Sorption	<b>904</b> mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	<b>18</b> mg/g	LTM-S-006	5

Southern Meats Pty Ltd  
Mazamet Road PO Box 244  
Goulburn NSW 2580  
Attention: Scott Newton

Friday, June 16, 2023



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## LABORATORY ANALYSIS REPORT

Report Number: 2305-0024

Page 11 of 12

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		08-May-2023			
<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>			
Soil	P. Paradise	08-May-2023			
<u>EAL ID</u>	<u>Client ID.</u> Date/Time sample taken	<u>Test</u>	<u>Result (units)</u>	<u>Method Reference</u>	<u>Limit of Reporting</u>
23May-0074	SS8 500-600 04.05.23 10.45am	Phosphorus, Total	179 mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	7.1 pH units	LTM-S-004	
		Potassium, soluble/exchangeable	0.20 mmol/kg	LTM-S-005	0.05
		Sodium, soluble/exchangeable	0.09 mmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	1460 mg/kg	LTM-S-011	2
23May-0075	SS9 500-600 04.05.23 10.55am	Calcium, soluble/exchangeable	3.41 mmol/kg	LTM-S-005	0.02
		Effective Cation Exchange Capacity	6 mmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	3.02 mmol/kg	LTM-S-005	0.02
		Nitrate as N	1 mg/g	LTM-S-007	1
		Phosphorous Sorption	585 mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	<5.0 mg/g	LTM-S-006	5
		Phosphorus, Total	48 mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	7.3 pH units	LTM-S-004	
		Potassium, soluble/exchangeable	0.06 mmol/kg	LTM-S-005	0.05
		Sodium, soluble/exchangeable	0.07 mmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	659 mg/kg	LTM-S-011	2
23May-0076	SS10 500-600 04.05.23 11.15am	Calcium, soluble/exchangeable	4.41 mmol/kg	LTM-S-005	0.02
		Effective Cation Exchange Capacity	5 mmol/kg	* R&L J1	1
		Magnesium, soluble/exchangeable	0.85 mmol/kg	LTM-S-005	0.02

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## LABORATORY ANALYSIS REPORT

Report Number: 2305-0024

Page 12 of 12

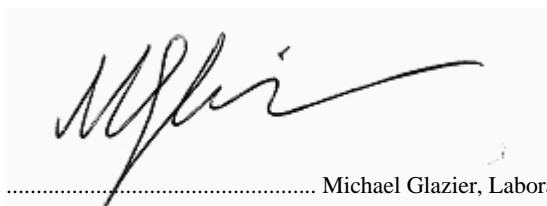
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		08-May-2023
<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>
Soil	P. Paradise	08-May-2023

<u>EAL ID</u>	<u>Client ID.</u> Date/Time sample taken	<u>Test</u>	<u>Result (units)</u>	<u>Method Reference</u>	<u>Limit of Reporting</u>
23May-0076	SS10 500-600 04.05.23 11.15am	Nitrate as N	1 mg/g	LTM-S-007	1
		Phosphorous Sorption	327 mg/kg	* R&L 9I2a	
		Extractable Phosphorus (Colwell)	<5.0 mg/g	LTM-S-006	5
		Phosphorus, Total	57 mg/kg	LTM-S-015	2
		pH (1:5 soil/water)	7.1 pH units	LTM-S-004	
		Potassium, soluble/exchangeable	0.09 mmol/kg	LTM-S-005	0.05
		Sodium, soluble/exchangeable	0.07 mmol/kg	LTM-S-005	0.02
		Total Kjeldahl Nitrogen	487 mg/kg	LTM-S-011	2

**Note:**

\* NATA Accreditation does not cover the performance of this service.



Signed ..... Michael Glazier, 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.  
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