

Multiple Analysis Profile

CLIENT: **Rivcow Environmental Pty Ltd**
 PO Box 345
 Round Corner NSW 2158
Attn: Glen Ellery

PROJECT: Name: **Standard Rivcow Analysis**
 Location:
 SESL Quote N°: Client Job N°: Order N°:
 Date Received: **11/08/2008**



Sydney Environmental and Soil Laboratory

Specialists in Soil Chemistry, Agronomy and Contamination Assessments

Sydney Environmental & Soil Laboratory Pty Ltd
 ABN 70 106 810 708
 16 Chilvers Road
 Thornleigh NSW 2120
 Australia
 Address mail to:
 PO Box 357
 Pennant Hills NSW 1715
 Tel: 02 9980 6554
 Fax: 02 9484 2427
 Em: info@sesl.com.au
 Web: www.sesl.com.au

SAMPLE: Batch N°: **7422** Sample N°: **2**
 Name: **Plot 2-C Week 2**
 Test Type: **pH (4454), TN, LOI, MC, Report C:N ratio, [TP, TK, HMS, B, Ca, Fe, Mg, Mn, Na, S]**

Tests are performed under a quality system certified as complying with ISO 9001: 2000. Results and conclusions assume that sampling is representative. This document shall not be reproduced except in full.

Total No Pages: 2/12

| | | Result | Kg/Ha |
|------------------------------|----------------------|--------|-------|
| Arsenic | mg/kg | 6 | |
| Cadmium | mg/kg | <0.5 | |
| Copper | mg/kg | 35 | 0.35 |
| Lead | mg/kg | 5 | |
| Zinc | mg/kg | 220 | 2.2 |
| Mercury | mg/kg | <0.1 | |
| Phosphorus | mg/kg | 8600 | 86 |
| Potassium | mg/kg | 21000 | 210 |
| Boron | mg/kg | 9 | 0.09 |
| Calcium | mg/kg | 18000 | 180 |
| Iron | mg/kg | 20000 | 200 |
| Magnesium | mg/kg | 6300 | 63 |
| Manganese | mg/kg | 290 | 2.9 |
| Sodium | mg/kg | 1500 | 15 |
| Sulphur | mg/kg | 6000 | 60 |
| pH in water (1:1.5) (AS4454) | pH units | 8.3 | |
| Total Nitrogen (LECO) | % w/w | 2.04 | 204 |
| Loss on Ignition (LOI) | % w/w Organic Carbon | 23.17 | |
| Moisture Content (AS4454) | % w/w | 19.7 | |
| C : N ratio | -- | | |
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Analysed by Envirolab NATA # 2901 Report # 21710

Kg/ha rates have been calculated using a bulk density of 0.4kg/L, soil depth of 150mm and an application rate of cow manure at 10 tonnes of dry weight/ha.

No recommendations required by SESL.

Consultant: *Paul Looby*
 Paul Looby

Authorised Signatory: *Simon Leake*
 Simon Leake

Date of Report
 25/08/2008

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SAMPLE: Batch N°: **7422** Sample N°: **3**
 Name: **Plot 3-Z2 Week 2**
 Test Type: **pH (4454), TN, LOI, MC, Report C:N ratio, [TP, TK, HMS, B, Ca, Fe, Mg, Mn, Na, S]**

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Total No Pages: 3/12

| | | Result | Kg/Ha |
|------------------------------|----------------------|--------|-------|
| Arsenic | mg/kg | 5 | |
| Cadmium | mg/kg | <0.5 | |
| Copper | mg/kg | 28 | 0.28 |
| Lead | mg/kg | 6 | |
| Zinc | mg/kg | 190 | 1.9 |
| Mercury | mg/kg | <0.1 | |
| Phosphorus | mg/kg | 6700 | 67 |
| Potassium | mg/kg | 19000 | 190 |
| Boron | mg/kg | 9 | 0.09 |
| Calcium | mg/kg | 16000 | 160 |
| Iron | mg/kg | 15000 | 150 |
| Magnesium | mg/kg | 5700 | 57 |
| Manganese | mg/kg | 260 | 2.6 |
| Sodium | mg/kg | 1700 | 17 |
| Sulphur | mg/kg | 7300 | 73 |
| pH in water (1:1.5) (AS4454) | pH units | 7.9 | |
| Total Nitrogen (LECO) | % w/w | 1.68 | 168 |
| Loss on Ignition (LOI) | % w/w Organic Carbon | 18.75 | |
| Moisture Content (AS4454) | % w/w | 17.3 | |
| C : N ratio | -- | | |
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 Paul Looby

Authorised Signatory: *Simon Leake*
 Simon Leake

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SAMPLE: Batch N°: **7422** Sample N°: **4**
 Name: **Plot 4-C Week 2**
 Test Type: **pH (4454), TN, LOI, MC, Report C:N ratio, [TP, TK, HMS, B, Ca, Fe, Mg, Mn, Na, S]**

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Total No Pages: 4/12

| | | Result | Kg/Ha |
|------------------------------|----------------------|--------|-------|
| Arsenic | mg/kg | 5 | |
| Cadmium | mg/kg | <0.5 | |
| Copper | mg/kg | 37 | 0.37 |
| Lead | mg/kg | 5 | |
| Zinc | mg/kg | 250 | 2.5 |
| Mercury | mg/kg | <0.1 | |
| Phosphorus | mg/kg | 10000 | 100 |
| Potassium | mg/kg | 26000 | 260 |
| Boron | mg/kg | 12 | 0.12 |
| Calcium | mg/kg | 21000 | 210 |
| Iron | mg/kg | 17000 | 170 |
| Magnesium | mg/kg | 7900 | 79 |
| Manganese | mg/kg | 290 | 2.9 |
| Sodium | mg/kg | 1700 | 17 |
| Sulphur | mg/kg | 6500 | 65 |
| pH in water (1:1.5) (AS4454) | pH units | 8.5 | |
| Total Nitrogen (LECO) | % w/w | 2.32 | 232 |
| Loss on Ignition (LOI) | % w/w Organic Carbon | 26.48 | |
| Moisture Content (AS4454) | % w/w | 19.3 | |
| C : N ratio | -- | | |
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 Paul Looby

Authorised Signatory: *Simon Leake*
 Simon Leake

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SAMPLE: Batch N°: **7422** Sample N°: **5**
 Name: **Plot 5-Z1 Week 2**
 Test Type: **pH (4454), TN, LOI, MC, Report C:N ratio, [TP, TK, HMS, B, Ca, Fe, Mg, Mn, Na, S]**

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Total No Pages: 5/12

| | | Result | Kg/Ha |
|------------------------------|----------------------|--------|-------|
| Arsenic | mg/kg | 5 | |
| Cadmium | mg/kg | <0.5 | |
| Copper | mg/kg | 35 | 0.35 |
| Lead | mg/kg | 6 | |
| Zinc | mg/kg | 230 | 2.3 |
| Mercury | mg/kg | <0.1 | |
| Phosphorus | mg/kg | 9300 | 93 |
| Potassium | mg/kg | 24000 | 240 |
| Boron | mg/kg | 10 | 0.10 |
| Calcium | mg/kg | 19000 | 190 |
| Iron | mg/kg | 23000 | 230 |
| Magnesium | mg/kg | 7200 | 72 |
| Manganese | mg/kg | 290 | 2.9 |
| Sodium | mg/kg | 1600 | 16 |
| Sulphur | mg/kg | 5700 | 57 |
| pH in water (1:1.5) (AS4454) | pH units | 8.3 | |
| Total Nitrogen (LECO) | % w/w | 2.03 | 203 |
| Loss on Ignition (LOI) | % w/w Organic Carbon | 22.63 | |
| Moisture Content (AS4454) | % w/w | 16.4 | |
| C : N ratio | -- | | |
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 Paul Looby

Authorised Signatory: *Simon Leake*
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SAMPLE: Batch N°: **7422** Sample N°: **8**
 Name: **Plot 8-Z1 Week 2**
 Test Type: **pH (4454), TN, LOI, MC, Report C:N ratio, [TP, TK, HMS, B, Ca, Fe, Mg, Mn, Na, S]**

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Total No Pages: 8/12

| | | Result | Kg/Ha |
|------------------------------|----------------------|--------|-------|
| Arsenic | mg/kg | <4 | |
| Cadmium | mg/kg | <0.5 | |
| Copper | mg/kg | 21 | 0.21 |
| Lead | mg/kg | 5 | |
| Zinc | mg/kg | 130 | 1.3 |
| Mercury | mg/kg | <0.1 | |
| Phosphorus | mg/kg | 5400 | 54 |
| Potassium | mg/kg | 14000 | 140 |
| Boron | mg/kg | 6 | 0.06 |
| Calcium | mg/kg | 12000 | 120 |
| Iron | mg/kg | 13000 | 130 |
| Magnesium | mg/kg | 4600 | 46 |
| Manganese | mg/kg | 190 | 1.9 |
| Sodium | mg/kg | 1400 | 14 |
| Sulphur | mg/kg | 3700 | 37 |
| pH in water (1:1.5) (AS4454) | pH units | 8.2 | |
| Total Nitrogen (LECO) | % w/w | 1.79 | 179 |
| Loss on Ignition (LOI) | % w/w Organic Carbon | 20.95 | |
| Moisture Content (AS4454) | % w/w | 15.2 | |
| C : N ratio | -- | | |
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Authorised Signatory: *Simon Leake*
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SAMPLE: Batch N°: **7422** Sample N°: **9**
 Name: **Plot 9-C Week 2**
 Test Type: **pH (4454), TN, LOI, MC, Report C:N ratio, [TP, TK, HMS, B, Ca, Fe, Mg, Mn, Na, S]**

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Total No Pages: 9/12

| | | Result | Kg/Ha |
|------------------------------|----------------------|--------|-------|
| Arsenic | mg/kg | 5 | |
| Cadmium | mg/kg | <0.5 | |
| Copper | mg/kg | 35 | 0.35 |
| Lead | mg/kg | 5 | |
| Zinc | mg/kg | 230 | 2.3 |
| Mercury | mg/kg | <0.1 | |
| Phosphorus | mg/kg | 9100 | 91 |
| Potassium | mg/kg | 24000 | 240 |
| Boron | mg/kg | 11 | 0.11 |
| Calcium | mg/kg | 18000 | 180 |
| Iron | mg/kg | 19000 | 190 |
| Magnesium | mg/kg | 6900 | 69 |
| Manganese | mg/kg | 270 | 2.7 |
| Sodium | mg/kg | 1500 | 15 |
| Sulphur | mg/kg | 6400 | 64 |
| pH in water (1:1.5) (AS4454) | pH units | 8.5 | |
| Total Nitrogen (LECO) | % w/w | 1.97 | 197 |
| Loss on Ignition (LOI) | % w/w Organic Carbon | 22.05 | |
| Moisture Content (AS4454) | % w/w | 14.0 | |
| C : N ratio | -- | | |
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SAMPLE: Batch N°: **7422** Sample N°: **10**
 Name: **Plot 10-Z1 Week 2**
 Test Type: **pH (4454), TN, LOI, MC, Report C:N ratio, [TP, TK, HMS, B, Ca, Fe, Mg, Mn, Na, S]**

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Total No Pages: 10/12

| | | Result | Kg/Ha |
|------------------------------|----------------------|--------|-------|
| Arsenic | mg/kg | 5 | |
| Cadmium | mg/kg | <0.5 | |
| Copper | mg/kg | 37 | 0.37 |
| Lead | mg/kg | 5 | |
| Zinc | mg/kg | 250 | 2.5 |
| Mercury | mg/kg | <0.1 | |
| Phosphorus | mg/kg | 9900 | 99 |
| Potassium | mg/kg | 27000 | 270 |
| Boron | mg/kg | 12 | 0.12 |
| Calcium | mg/kg | 21000 | 210 |
| Iron | mg/kg | 17000 | 170 |
| Magnesium | mg/kg | 7600 | 76 |
| Manganese | mg/kg | 280 | 2.8 |
| Sodium | mg/kg | 1800 | 18 |
| Sulphur | mg/kg | 7300 | 73 |
| pH in water (1:1.5) (AS4454) | pH units | 8.4 | |
| Total Nitrogen (LECO) | % w/w | 2.38 | 238 |
| Loss on Ignition (LOI) | % w/w Organic Carbon | 26.55 | |
| Moisture Content (AS4454) | % w/w | 18.3 | |
| C : N ratio | -- | | |
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SAMPLE: Batch N°: **7422** Sample N°: **11**
 Name: **Plot 11-Z2 Week 2**
 Test Type: **pH (4454), TN, LOI, MC, Report C:N ratio, [TP, TK, HMS, B, Ca, Fe, Mg, Mn, Na, S]**

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Total No Pages: 11/12

| | | Result | Kg/Ha |
|------------------------------|----------------------|--------|-------|
| Arsenic | mg/kg | 5 | |
| Cadmium | mg/kg | <0.5 | |
| Copper | mg/kg | 29 | 0.29 |
| Lead | mg/kg | 5 | |
| Zinc | mg/kg | 200 | 2 |
| Mercury | mg/kg | <0.1 | |
| Phosphorus | mg/kg | 8500 | 85 |
| Potassium | mg/kg | 23000 | 230 |
| Boron | mg/kg | 10 | 0.10 |
| Calcium | mg/kg | 19000 | 190 |
| Iron | mg/kg | 16000 | 160 |
| Magnesium | mg/kg | 6900 | 69 |
| Manganese | mg/kg | 260 | 2.6 |
| Sodium | mg/kg | 1900 | 19 |
| Sulphur | mg/kg | 6100 | 61 |
| pH in water (1:1.5) (AS4454) | pH units | 8.3 | |
| Total Nitrogen (LECO) | % w/w | 1.85 | 185 |
| Loss on Ignition (LOI) | % w/w Organic Carbon | 21.64 | |
| Moisture Content (AS4454) | % w/w | 13.7 | |
| C : N ratio | -- | | |
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SAMPLE: Batch N°: **7422** Sample N°: **12**
 Name: **Plot 12-C Week 2**
 Test Type: **pH (4454), TN, LOI, MC, Report C:N ratio, [TP, TK, HMS, B, Ca, Fe, Mg, Mn, Na, S]**

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Total No Pages: 12/12

| | | Result | Kg/Ha |
|------------------------------|----------------------|--------|-------|
| Arsenic | mg/kg | <4 | |
| Cadmium | mg/kg | <0.5 | |
| Copper | mg/kg | 28 | 0.28 |
| Lead | mg/kg | 4 | |
| Zinc | mg/kg | 180 | 1.8 |
| Mercury | mg/kg | <0.1 | |
| Phosphorus | mg/kg | 7900 | 79 |
| Potassium | mg/kg | 22000 | 220 |
| Boron | mg/kg | 9 | 0.09 |
| Calcium | mg/kg | 16000 | 160 |
| Iron | mg/kg | 17000 | 170 |
| Magnesium | mg/kg | 6300 | 63 |
| Manganese | mg/kg | 230 | 2.3 |
| Sodium | mg/kg | 1400 | 14 |
| Sulphur | mg/kg | 5700 | 57 |
| pH in water (1:1.5) (AS4454) | pH units | 8.4 | |
| Total Nitrogen (LECO) | % w/w | 2.06 | 206 |
| Loss on Ignition (LOI) | % w/w Organic Carbon | 24.64 | |
| Moisture Content (AS4454) | % w/w | 15.9 | |
| C : N ratio | -- | | |
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