



## REPORT ON SAMPLE OF SOIL

FILE NO : **EXAMPLE STANDARD SOIL REPORT**

DATE ISSUED : 24/02/2009

CLIENT NAME  
ADDRESS 1  
ADDRESS 2

CLIENT ID : SWE001  
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SAMPLE ID : Paddock 1  
DEPTH OF SAMPLE (cm): 0 to 10  
LAND USE : PASTURE

REFERENCE : AGENT NAME  
REFERENCE PHONE : 03 9701 6007  
DATE RECEIVED : 20/02/2009  
ANALYSIS REQUIRED : Full TP

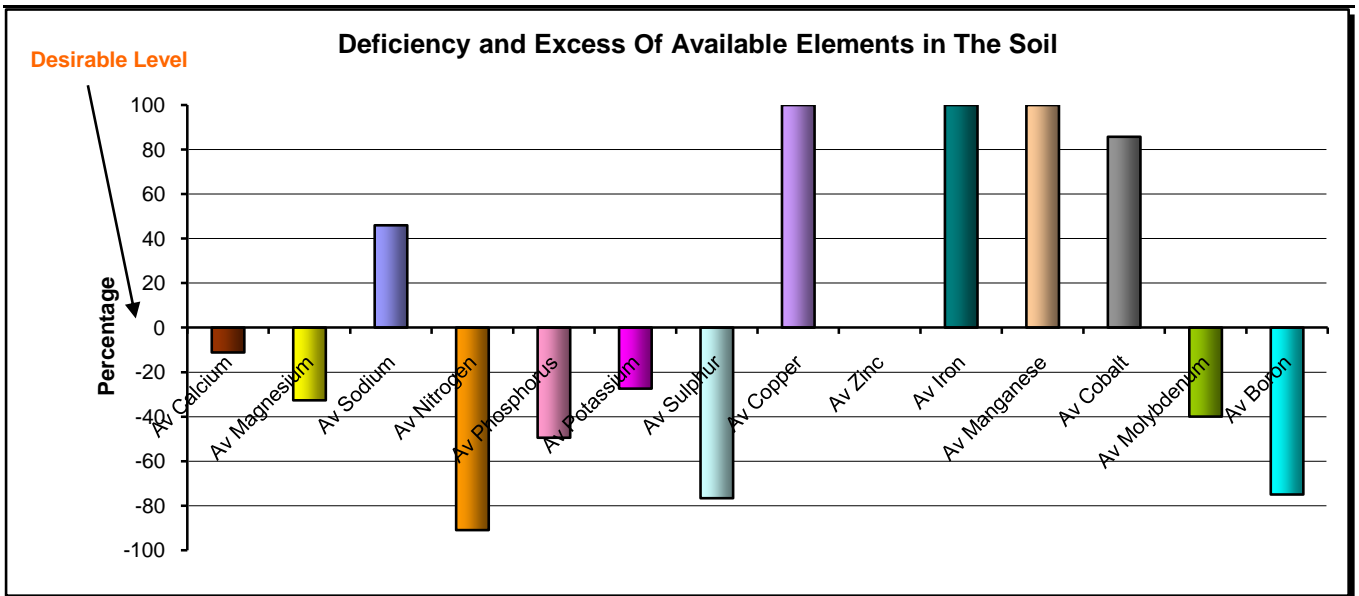
ITEMS	RESULTS	DESIRABLE LEVEL
pH(1:5 Water)	5.9	5.5-7.5
pH(1:5 0.01M CaCl <sub>2</sub> )	5.4	
Electrical Conductivity	EC      μS/cm	< 300
TOTAL SOLUBLE SALT	TSS      ppm	< 990
AVAILABLE CALCIUM	Ca      ppm	617
AVAILABLE MAGNESIUM	Mg      ppm	82
AVAILABLE SODIUM	Na      ppm	< 52
AVAILABLE NITROGEN	N      ppm	20
AVAILABLE PHOSPHORUS	P      ppm	20
AVAILABLE POTASSIUM	K      ppm	86
AVAILABLE SULPHUR	S      ppm	3 - 5
AVAILABLE COPPER	Cu      ppm	2
AVAILABLE ZINC	Zn      ppm	3 - 5
AVAILABLE IRON	Fe      ppm	> 20
AVAILABLE MANGANESE	Mn      ppm	> 20
AVAILABLE COBALT	Co      ppm	0.5-0.7
AVAILABLE MOLYBDENUM	Mo      ppm	0.5-0.7
AVAILABLE BORON	B      ppm	0.4-0.6
TOTAL ORGANIC MATTER	OM      %	3 - 4
TOTAL ORGANIC CARBON	OC      %	1.5 - 2
TOTAL PHOSPHORUS	TP      ppm	416
EXTRACTABLE ALUMINIUM	Al      ppm	not required
TOTAL NITROGEN	N      %	not required
TOTAL CALCIUM	Ca      ppm	not required
TOTAL MAGNESIUM	Mg      ppm	not required
TOTAL CHLORIDE	Cl      ppm	not required
AVAILABLE SILICA	Si      ppm	not required

ITEMS			RESULTS	DESIRABLE LEVEL
EXCHANGEABLE CALCIUM	Ca	meq/100g of soil	<b>2.47</b>	<b>2.72</b>
EXCHANGEABLE MAGNESIUM	Mg	meq/100g of soil	<b>0.42</b>	<b>0.63</b>
EXCHANGEABLE SODIUM	Na	meq/100g of soil	<b>0.3</b>	<b>&lt; 0.21</b>
EXCHANGEABLE POTASSIUM	K	meq/100g of soil	<b>0.14</b>	<b>0.21</b>
EXCHANGEABLE HYDROGEN	H	meq/100g of soil	<b>2.2</b>	
ADJ. EXCHANG. HYDROGEN	H	meq/100g of soil	<b>0.85</b>	<b>&lt; 0.63</b>
CATION EXCHANGE CAPACITY	CEC		<b>5.53</b>	
ADJUSTED CEC	Adj.CEC		<b>4.18</b>	
EXCH. SODIUM PERCENTAGE	ESP		<b>5.42</b>	<b>&lt; 5</b>
CALCIUM / MAGNESIUM RATIO	Ca/Mg		<b>5.96</b>	<b>2 - 4</b>
BASE SATURATION PERCENTAGE	BSP		<b>63</b>	

ITEMS		PERCENTAGE OF ADJUSTED CEC
EXCHANGEABLE CALCIUM	Ca	<b>59.1</b>
EXCHANGEABLE MAGNESIUM	Mg	<b>10</b>
EXCHANGEABLE SODIUM	Na	<b>7.2</b>
EXCHANGEABLE POTASSIUM	K	<b>3.3</b>
EXCHANGEABLE HYDROGEN	H	<b>20.3</b>

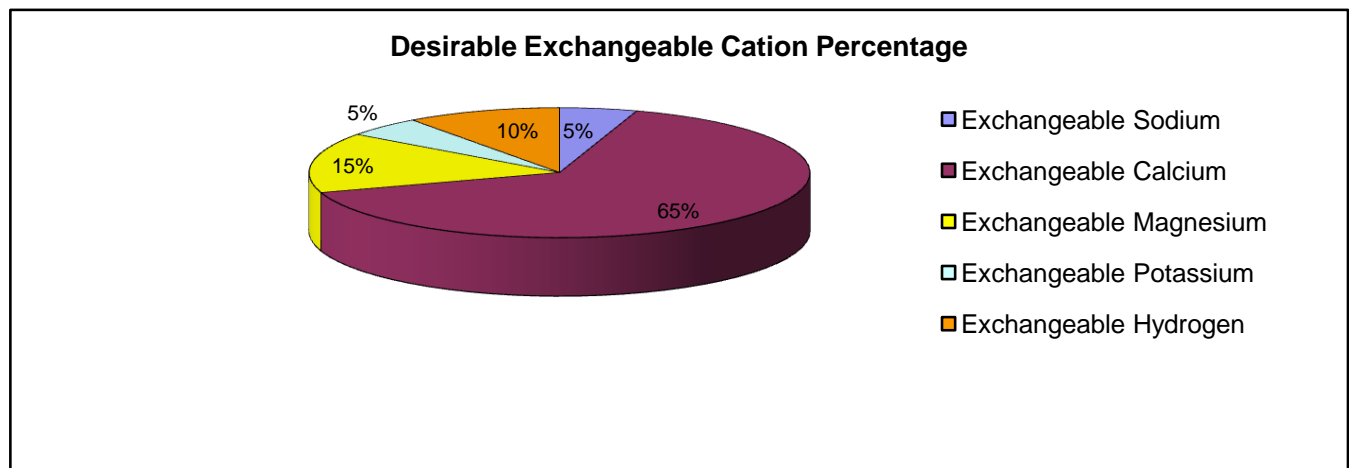
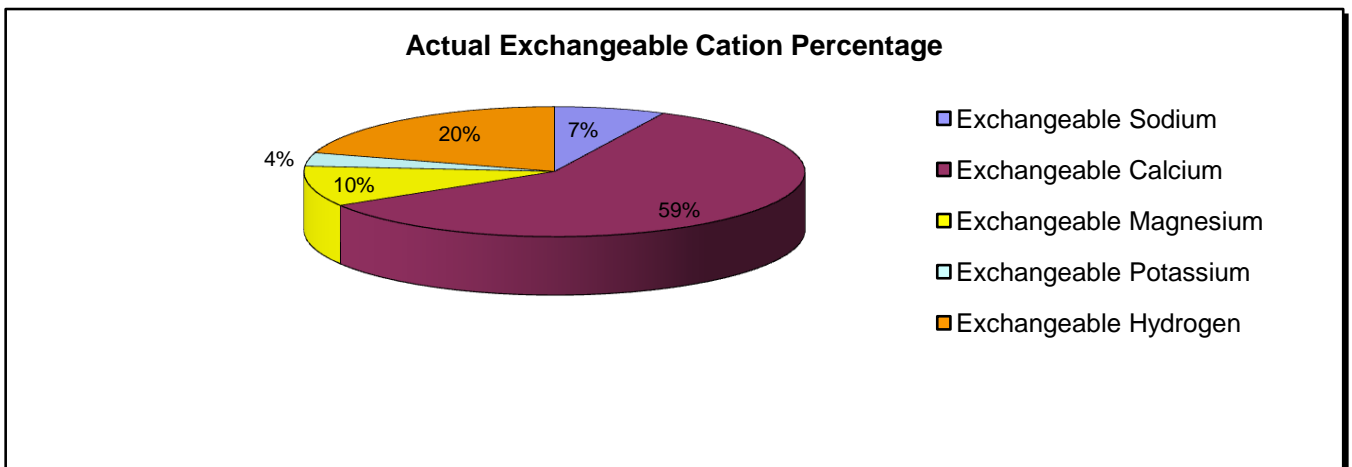
PREVIOUS APPLICATIONS ( IF APPLICABLE )		DATE OF APPLICATION
GYPSUM APPLIED	t/ha	
LIME APPLIED	t/ha	
DOLOMITE APPLIED	t/ha	
Magnesium Sulphate	kg/ha	

CEC = Cation Exchange Capacity



**Notes:**

- Phosphorus fixation effects if Iron is more than 300 ppm
- Manganese will be at toxicity level if it reaches 500 ppm



**RECOMMENDATION**

69 Kg of Calcium is needed to raise the Available Calcium to 68% and/or Exchangeable Calcium to 65%  
 25 Kg of Magnesium is needed to raise the Available Magnesium and Exchangeable Magnesium to 15%

GYPSUM REQUIREMENT	<b>0.1</b> t/ha				
LIME REQUIREMENT	<b>0</b> t/ha				
DOLOMITE REQUIREMENT	<b>0.2</b> t/ha				
MAGNESIUM SULPHATE	<b>0</b> kg/ha	or	MAGNESIUM OXIDE		<b>0</b> kg/ha

TOTAL FERTILIZER REQUIREMENT (kg/ha)	N	P	K	S
	<b>18</b>	<b>10</b>	<b>24</b>	<b>0</b>

WITH	COPPER	<b>0.5</b> kg/ha
	ZINC	<b>0</b> kg/ha
	COBALT	<b>0</b> kg/ha
	MOLYBDENUM	<b>0.03</b> kg/ha
	IRON	<b>0</b> kg/ha
	MANGANESE	<b>0</b> kg/ha
	BORON	<b>0.2</b> kg/ha

**\*NOTES :**

- Gypsum Requirement is to increase the Calcium and Sulphur and decrease the Exchangeable Sodium and/or the Exchangeable Magnesium in the soil.

- Dolomite Requirement is to increase the Magnesium and Calcium and decrease the Hydrogen in the soil.
- Dolomite Requirement based on Dolomite containing 11% Magnesium and 25% Calcium.
- We advise that Dolomite should be applied first in Autumn then followed by Fertiliser in Spring.

We recommend that 25 kg/ha of Potassium should be applied after cutting of Hay.