

**SWEP** PTY.LTD.

**ANALYTICAL  
LABORATORIES**

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REPORTONSAMPLEOFGARDEN

SOIL

FILENO: **EXAMPLE**

DATEISSUED:

31/07/2007

CLIENT  
ADDRESS  
ADDRESS

CLIENTID:  
PHONE:  
FAX:

SAMPLEID: FRUITTREES  
DEPTHOFSAMPLE(cm): 0to15

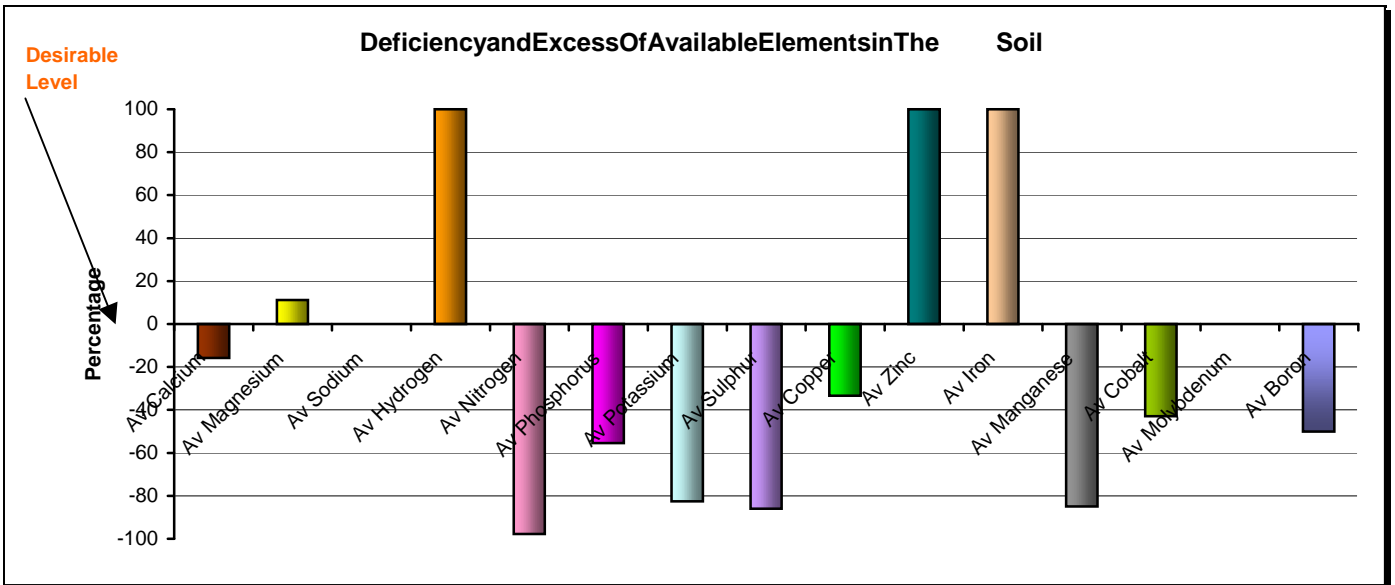
REFERENCE:  
REFERENCEPHONE:  
DATERECEIVED: 25/07/2007  
ANALYSISREQUIRED: Full

ITEMS	RESULTS	DESIRABLELEVEL		
		POME FRUIT	STONE FRUIT	BERRIES
COLOUR: GREYISHBROWN				
TEXTURE: LIGHTCLAY				
pH(1:5Water)	6.6	5.5-7.0	6.0-7.0	5.0-6.5
pH(1:50.01M CaCl <sub>2</sub> )	6.1			
ElectricalConductivity EC μS/cm	56	<250	<250	<250
TOTALSOLUBLESALT TSS ppm	184.8	<825	<825	<825
AVAILABLECALCIUM Ca ppm	1734	2058	2058	2058
AVAILABLEMAGNESIUM Mg ppm	302.4	272	272	272
AVAILABLESODIUM Na ppm	71.3	<174	<174	<174
AVAILABLENITROGEN N ppm	1.1	50	50	70
AVAILABLEPHOSPHORUS P ppm	24.5	55	70	170
AVAILABLEPOTASSIUM K ppm	70.2	404	404	404
AVAILABLESULPHUR S ppm	0.7	5-7	5-7	5-7
AVAILABLECOPPER Cu ppm	2	3	3	2
AVAILABLEZINC Zn ppm	15	4-6	4-6	5-7
AVAILABLEIRON Fe ppm	98	>20	>20	>20
AVAILABLEMANGANESE Mn ppm	3	>20	>20	>20
AVAILABLECOBALT Co ppm	0.4	0.7-0.8	0.7-0.8	0.7-0.8
AVAILABLEMOLYBDENUM Mo ppm	0.7	0.7-0.8	0.7-0.8	0.7-0.8
AVAILABLEBORON B ppm	0.3	0.6-1.0	0.6-1.0	0.6-0.7
TOTALORGANICMATTER OM %	5.1	4-6	4-6	4-6
TOTALORGANICCARBON OC %	2.6	2-3	2-3	2-3

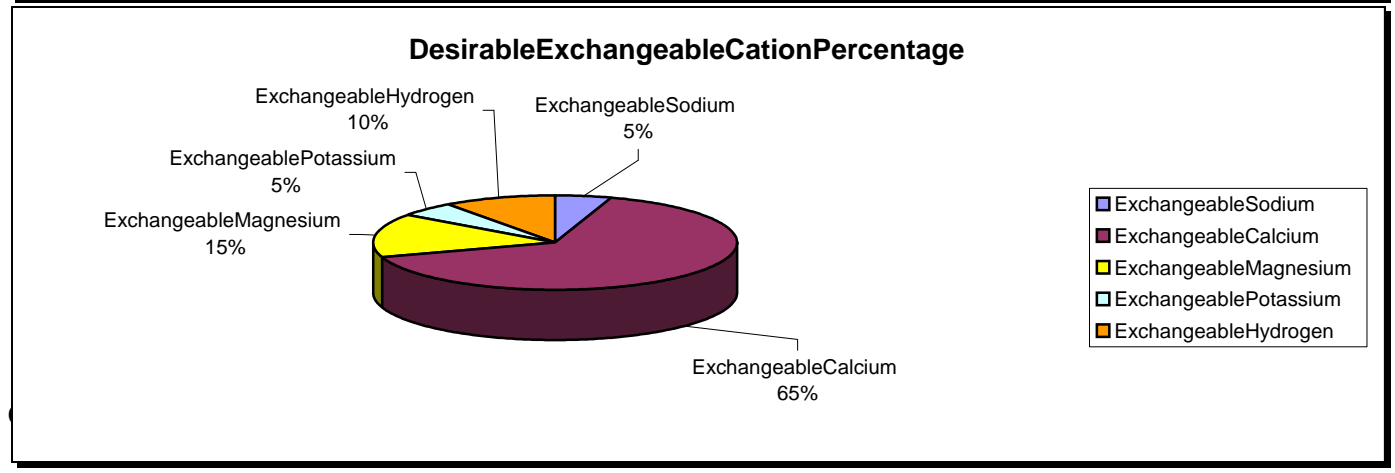
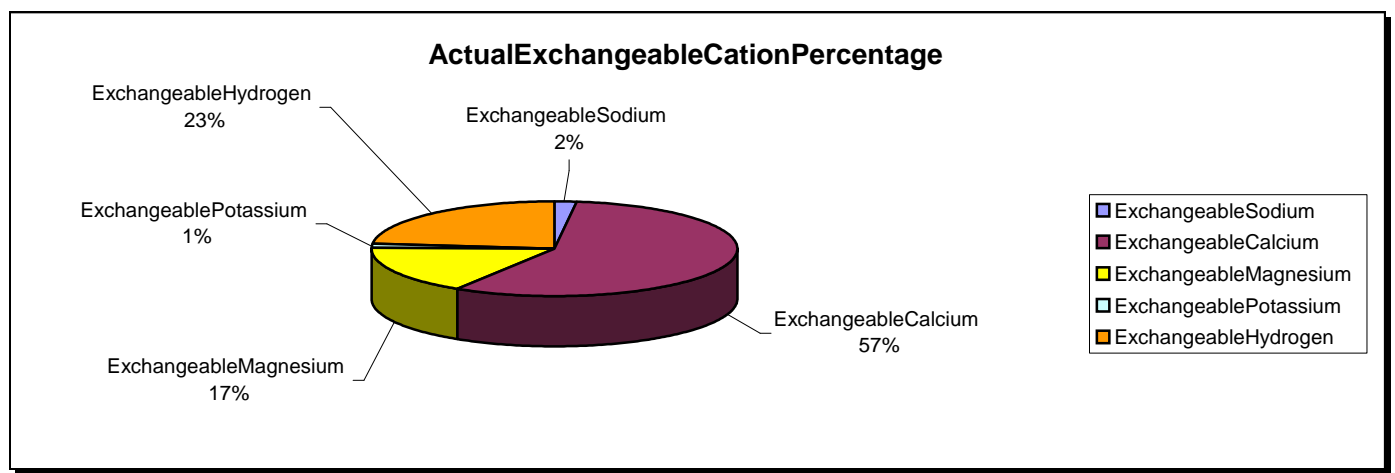
ITEMS			RESULTS	DESIRABLELEVEL
EXCHANGEABLECALCIUM	Ca	me/100gofsoil	8.37	9.57
EXCHANGEABLEMAGNESIUM	Mg	me/100gofsoil	2.43	2.21
EXCHANGEABLESODIUM	Na	me/100gofsoil	0.3	<0.74
EXCHANGEABLEPOTASSIUM	K	me/100gofsoil	0.17	0.74
EXCHANGEABLEHYDROGEN	H	me/100gofsoil	6	
ADJ.EXCHANG.HYDROGEN	H	me/100gofsoil	3.45	<2.21
CATIONEXCHANGECAPACITY	CEC		17.27	
ADJUSTEDCEC	Adj.CEC		14.72	
EXCH.SODIUMPERCENTAGE	ESP		1.74	<5
CALCIUM/MAGNESIUMRATIO	Ca/Mg		3.44	2-4
BASESATURATIONPERCENTAGE	BSP		66	

ITEMS		PERCENTAGEOFADJUSTEDCEC
EXCHANGEABLECALCIUM	Ca	56.9
EXCHANGEABLEMAGNESIUM	Mg	16.5
EXCHANGEABLESODIUM	Na	2
EXCHANGEABLEPOTASSIUM	K	1.2
EXCHANGEABLEHYDROGEN	H	23.4

CEC=CationExchangeCapacity



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



**RECOMMENDATION**

GYPSUMREQUIREMENT	<b>53 g/m<sup>2</sup></b>
LIMEREQUIREMENT	<b>91 g/m<sup>2</sup></b>
DOLOMITEREQUIREMENT	<b>0 g/m<sup>2</sup></b>
MAGNESIUMSULPHATE (EpsomSalts)	<b>0 g/m<sup>2</sup></b>

TOTALFERTILIZERREQUIREMENT(g/m <sup>2</sup> )	Nitrogen	Phosphorus	Potassium	Sulphur
POMEFRUIT	<b>10</b>	<b>3</b>	<b>33</b>	<b>0</b>
STONEFRUIT	<b>9</b>	<b>5</b>	<b>33</b>	<b>0</b>
BERRIES	<b>13</b>	<b>15</b>	<b>33</b>	<b>0</b>

	POMEFRUIT	STONEFRUIT	BERRIES	
WITH	COPPER	<b>0.15</b>	<b>0</b>	g/m <sup>2</sup>
	ZINC	<b>0</b>	<b>0</b>	g/m <sup>2</sup>
	COBALT	<b>0</b>	<b>0</b>	g/m <sup>2</sup>
	MOLYBDENUM	<b>0</b>	<b>0</b>	g/m <sup>2</sup>
	IRON	<b>0</b>	<b>0</b>	g/m <sup>2</sup>
	MANGANESE	<b>0.4</b>	<b>0.4</b>	g/m <sup>2</sup>
	BORON	<b>0.08</b>	<b>0.08</b>	g/m <sup>2</sup>

**NOTES:**

- Gypsum Requirement is to increase the Calcium and Sulphur and decrease the Exchangeable Sodium and/or the Exchangeable Magnesium in the soil.
- Lime Requirement is to increase the Calcium and decrease the hydrogen in the soil.
- We advise that Lime should be applied first in Autumn then followed by Fertiliser in Spring.