



**SWEP**  
PTY. LTD.

**ANALYTICAL  
LABORATORIES**

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**REPORT ON SAMPLE OF LIME**

FILE NO : 1809138182

MARTINS LIME  
PO BOX 202

CLIENT ID : MAR200  
PHONE : 0408 077 076

WALCHA, NSW 2354

SAMPLE ID : SAMPLE A

ANALYSIS REQUIRED : Lime quality

ITEMS	ABBREVIATION	RESULTS
Results of analysis on sample on dry weight basis:		
pH (1:5 Water)		<b>9.03</b>
Electrical Conductivity	EC $\mu\text{S/cm}$	<b>165</b>
TOTAL CALCIUM	Ca %	<b>36.2</b>
TOTAL MAGNESIUM	Mg %	<b>0.315</b>
TOTAL SODIUM	Na %	<b>0.02</b>
CALCIUM CARBONATE	CaCO <sub>3</sub> %	<b>90.5</b>
	(Calculated from Total Calcium)	
MAGNESIUM CARBONATE	MgCO <sub>3</sub> %	<b>1.1</b>
	(Calculated from Total Magnesium)	
MOISTURE CONTENT	MC %	<b>0.3</b>
MATERIAL > 2mm	%	<b>0</b>
MATERIAL 1.00 - 2.00 mm	%	<b>0</b>
MATERIAL 0.85 - 1.00 mm	%	<b>0</b>
MATERIAL 0.30 - 0.85 mm	%	<b>0</b>
MATERIAL 0.075 - 0.30 mm	%	<b>90.2</b>
MATERIAL < 0.075mm	%	<b>9.8</b>
NEUTRALISING VALUE	NV %	<b>91.81</b>
EFFECTIVE NEUTRALISING VALUE	ENV %	<b>91.81</b>

**Notes on Neutralising Value**

Neutralising Value is a measure of the amount of acidity a material can neutralise, or in the case of lime, its total liming value. An approximation of Neutralising Value can be made by  $\text{CaCO}_3 + (2.5 \times \text{MgO})$ .

Effective Neutralising Value is a calculated adjustment of the Neutralising Value, using the fineness of the lime. Lime retained on an 850  $\mu\text{m}$  sieve (the coarser fraction) is estimated to be only 10% effective (fully utilised in the short term). Lime in the 300-850  $\mu\text{m}$  sieve range (medium sized fraction) is estimated to be only 60% effective, while lime passing the 300  $\mu\text{m}$  sieve (finer fraction) is estimated to be 100% effective.

Where a lime has a low Effective Neutralising Value (due to a high proportion of coarse fraction), further grinding should increase its effectiveness to change the pH.