SWEP PTY. LTD. ANALYTICAL LABORATORIES

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REPORT ON SAMPLE OF DOLOMITE

FILE NO : 2007153315 **DATE ISSUED :** 22/07/2020

MIRIWINNI LIME PTY LTD
ATT: JENNY & MAX
PO BOX 2
MIRIWINNI, QLD 4871

CLIENT ID : MIR010
PHONE : 07 4067 6133

REFERENCE :

REFERENCE ID :
PHONE :

SAMPLE ID : DOLOMITE
ANALYSIS REQUIRED : Full

DATE RECEIVED : 21/07/2020

ITEMS	ABBREVIATION	UNIT	RESULTS
TOTAL CALCIUM	Ca	%	**18.5**
TOTAL MAGNESIUM	Mg	%	**10.2**
TOTAL SODIUM	Na	%	**0.0195**
TOTAL POTASSIUM	K	%	**0.0535**
TOTAL NITROGEN	N	ppm	**174**
TOTAL PHOSPHORUS	P	ppm	**32.5**
TOTAL IRON	Fe	ppm	**4480**
TOTAL MANGANESE	Mn	ppm	**86.4**
TOTAL ZINC	Zn	ppm	**12.3**
TOTAL COPPER	Cu	ppm	**5.25**
TOTAL COBALT	Co	ppm	**2.12**
TOTAL BORON	B	ppm	**6**
TOTAL SULPHUR	S	%	**0.00777**
TOTAL MOLYBDENUM	Mo	ppm	**0.221**
CALCIUM CARBONATE	$CaCO_3$	%	**46.25**
	(Calculated from Total Calcium)		
MAGNESIUM CARBONATE	$MgCO_3$	%	**35.7**
	(Calculated from Total Magnesium)		
MATERIAL > 2mm		%	**0**
MATERIAL 1.00 - 2.00 mm		%	**0**
MATERIAL 0.85 - 1.00 mm		%	**0**
MATERIAL 0.30 - 0.85 mm		%	**40**
MATERIAL 0.075 - 0.30 mm		%	**39**
MATERIAL < 0.075mm		%	**21**
Electrical Conductivity		µS/cm	**185**
pH		(1:5 Water)	**9.19**

SWEP Analytical Laboratories
45 - 47 / 174 Bridge Road
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ITEMS	ABBREVIATION	UNIT	RESULTS
NEUTRALISING VALUE	NV	%	**88.73**
EFFECTIVE NEUTRALISING VALUE	ENV	%	**74.53**
MOISTURE CONTENT	MC	%	**3.84**

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 CaCo3 + (2.5 x MgO).

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

ITEMS	ANALYTICAL METHODS
TOTAL CALCIUM	HCl Evaporation, ICPAES
TOTAL MAGNESIUM	HCl Evaporation, ICPAES
TOTAL SODIUM	HCl Evaporation, ICPAES
TOTAL POTASSIUM	HCl Evaporation, ICPAES
TOTAL NITROGEN	Dumas method, LECO
TOTAL PHOSPHORUS	HCl Evaporation, ICPAES
TOTAL IRON	HCl Evaporation, ICPAES
TOTAL MANGANESE	HCl Evaporation, ICPAES
TOTAL ZINC	HCl Evaporation, ICPAES
TOTAL COPPER	HCl Evaporation, ICPAES
TOTAL COBALT	HCl Evaporation, ICPAES
TOTAL BORON	HCl Evaporation, ICPAES
TOTAL SULPHUR	HCl Evaporation, ICPAES
TOTAL MOLYBDENUM	HCl Evaporation, ICPAES
CALCIUM CARBONATE	Calculated from Total Calcium
MAGNESIUM CARBONATE	Calculated from Total Magnesium
Electrical Conductivity	Method 3A1, water extract*
pH	Method 4A1, water supension*
MOISTURE CONTENT	Gravimetric method

* Rayment, G.E. & Lyons, D.J. (2011). Soil Chemical Methods - Australasia. CSIRO Publishing, 150 Oxford Street, Collingwood Vic 3066, Australia.

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