



# SWEP ANALYTICAL LABORATORIES

PTY. LTD.

ABN 26 005 031 569

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## REPORT ON SAMPLE OF SOIL

FILE NO : 2004151013

DATE ISSUED 4/05/2020

WINDRIDGE FARMS  
PO BOX 50  
YOUNG, NSW 2594

CLIENT ID : WIN031  
PHONE : 02 6382 1311

admin@windridge.com.au

SAMPLE ID : BOTTOM MIDDLE  
DEPTH OF SAMPLE (cm): 0 to 10  
LAND USE : PASTURE

REFERENCE :  
PHONE :  
DATE RECEIVED : 22/04/2020  
ANALYSIS REQUIRED : Type Templemore

ITEMS			RESULTS	DESIRABLE LEVEL
pH(1:5 Water)			5.3	5.5-7.5
pH(1:5 0.01M CaCl <sub>2</sub> )			4.73	
Electrical Conductivity	EC	µS/cm	425	< 300
NITRATE + NITRITE (oxidised Nitrogen)		mg/kg	96.5	22
AVAILABLE PHOSPHORUS (Colwell)	P	mg/kg	27.8	40
TOTAL ORGANIC CARBON	OC	%	0.9	1.5 - 2
EXCHANGEABLE ALUMINIUM	Al	meq/100g of soil	0.01	
EXCHANGEABLE CALCIUM	Ca	meq/100g of soil	1.54	3.70
EXCHANGEABLE MAGNESIUM	Mg	meq/100g of soil	0.34	0.85
EXCHANGEABLE SODIUM	Na	meq/100g of soil	0.35	< 0.28
EXCHANGEABLE POTASSIUM	K	meq/100g of soil	0.68	0.28
EXCHANGEABLE HYDROGEN	H	meq/100g of soil	3.68	< 0.85
CHLORIDE	Cl	mg/kg	492	
CATION EXCHANGE CAPACITY	CEC	meq/100g of soil	6.59	
EXCHANGEABLE SODIUM PERCENTAGE ESP			5.31	< 5
OLSEN PHOSPHORUS	P	mg/kg	9.99	

**ANALYTICAL METHODS**

Items	Methods
pH (1:5 Water)	4A1
pH (1:5 CaCl <sub>2</sub> )	4B1
Electrical conductivity (1:5 Water)	3A1
Nitrate	Copper-cadmium reductor column at a pH of 8.0
Nitrite	Adaptation of EPA Diazotization method 354.1
Available Phosphorus	Colwell extractable, 9B1
Total Organic Carbon	High frequency induction furnace, 6B3
Extractable Aluminium	15G1
Exchangeable Calcium	15D3 or 15A1
Exchangeable Magnesium	15D3 or 15A1
Exchangeable Sodium	15D3 or 15A1
Exchangeable Potassium	15D3 or 15A1
Exchangeable Hydrogen Chloride	Barium Chloride-Triethanolamine method* 5A1

For numbered test methods:

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

\*Peech, M., Cowan, R.L. & Baker, J.H. (1962). Soil Science Society American Procedures, A critical study of the Barium chloride-Triethanolamine and ammonium acetate methods for determining exchangeable Hydrogen of soils.



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## REPORT ON SAMPLE OF SOIL

FILE NO : 2004151014

DATE ISSUED 6/05/2020

WINDRIDGE FARMS  
PO BOX 50  
YOUNG, NSW 2594

CLIENT ID : WIN031  
PHONE : 02 6382 1311

admin@windridge.com.au

SAMPLE ID : CHIMNEY  
DEPTH OF SAMPLE (cm): 0 to 10  
LAND USE : PASTURE

REFERENCE :  
PHONE :  
DATE RECEIVED : 22/04/2020  
ANALYSIS REQUIRED : Type Templemore

ITEMS	RESULTS	DESIRABLE LEVEL
pH(1:5 Water)	6	5.5-7.5
pH(1:5 0.01M CaCl <sub>2</sub> )	5.49	
Electrical Conductivity EC $\mu$ S/cm	82.5	< 300
NITRATE + NITRITE (oxidised Nitrogen) mg/kg	21.3	22
AVAILABLE PHOSPHORUS (Colwell) P mg/kg	70.8	40
TOTAL ORGANIC CARBON OC %	0.975	1.5 - 2
EXCHANGEABLE ALUMINIUM Al meq/100g of soil	0.00	
EXCHANGEABLE CALCIUM Ca meq/100g of soil	3.77	4.95
EXCHANGEABLE MAGNESIUM Mg meq/100g of soil	0.56	1.14
EXCHANGEABLE SODIUM Na meq/100g of soil	0.03	< 0.38
EXCHANGEABLE POTASSIUM K meq/100g of soil	0.71	0.38
EXCHANGEABLE HYDROGEN H meq/100g of soil	3.52	< 1.14
CHLORIDE Cl mg/kg	182	
CATION EXCHANGE CAPACITY CEC meq/100g of soil	8.59	
EXCHANGEABLE SODIUM PERCENTAGE ESP	0.35	< 5
OLSEN PHOSPHOROUS P mg/kg	26.7	

**ANALYTICAL METHODS**

Items	Methods
pH (1:5 Water)	4A1
pH (1:5 CaCl <sub>2</sub> )	4B1
Electrical conductivity (1:5 Water)	3A1
Nitrate	Copper-cadmium reductor column at a pH of 8.0
Nitrite	Adaptation of EPA Diazotization method 354.1
Available Phosphorus	Colwell extractable, 9B1
Total Organic Carbon	High frequency induction furnace, 6B3
Extractable Aluminium	15G1
Exchangeable Calcium	15D3 or 15A1
Exchangeable Magnesium	15D3 or 15A1
Exchangeable Sodium	15D3 or 15A1
Exchangeable Potassium	15D3 or 15A1
Exchangeable Hydrogen Chloride	Barium Chloride-Triethanolamine method* 5A1

For numbered test methods:

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