

SOIL ANALYSIS

Agent: Nutrien Ag Solutions - Goulburn
Agent Address: PO Box 182,
 GOULBURN, NSW, 2580
Client: Wingecarribee Shire Council
Test Set or Quotation: SS1
Barcode: 110919293
Batch Number: 34036
Submission ID: 108927

Report Date: 09/06/2023
Sampling Date: 26/05/2023
Date Received: 31/05/2023
Sample Name: SRLX Paddock
Crop: Pasture
Sample Depth: 0-10
GPS Start: NA
GPS End: NA

Analyte		Unit	Desired Level	Level Found	c.mol/kg	Very Low	Low	Acceptable	High	Excessive
	ECEC	cmol/kg	5.00-25.0	16.7						
	Organic Carbon (W&B) ²	% (40°C)	0.90-1.80	5.98						
	pH 1:5 water	pH units	6.50-7.50	6.93						
	pH CaCl2 (following 4A1)	pH units	5.50-6.50	6.42						
Extractable N-P-K-S	Nitrate - N (2M KCl)	mg/kg	20-50	6.6						
	Ammonium - N (2M KCl)	mg/kg	2.0-10	8.0						
	Colwell Phosphorus	mg/kg	33-46	220						
	PBI + Col P		35-70	127						
	Colwell Potassium	mg/kg	150-220	550						
	KCl Sulfur (S)	mg/kg	8.0-20	27						
Exchangeable cations	Calcium (Ca) - AmmAc	mg/kg	1000-2000	2380	11.9					
	Magnesium (Mg) - AmmAc	mg/kg	150-200	381	3.14					
	Potassium (K) - AmmAc	mg/kg	150-220	535	1.37					
	Sodium (Na) - AmmAc	mg/kg	15.0-120	84.3	0.367					
	Exchangeable aluminium	cmol/kg	0.10-0.35	<0.02						
	Exchangeable hydrogen	cmol/kg	0.10-0.35	<0.02						
Salt	Salinity EC 1:5	dS/m	0.025-0.15	0.21						
Ratios	Ca:Mg Ratio		2.0-8.0	3.8						
	K:Mg Ratio		0.10-0.50	0.44						
	GTRI		0.02-0.07	0.09						
		Unit	Desired Level	Level Found						
Exch. cation %	Calcium	%	60.0-80.0	70.9						
	Magnesium	%	10.0-20.0	18.8						
	Potassium	%	3.0-8.0	8.2						
	Sodium	%	0.5-6.0	2.2						
	Aluminium	%	0.5-10	0.0						
	Hydrogen	%	0.3-5.0	0.0						

NOTE¹: Eurofins APAL will review published literature for crop desired levels, and reserves the right to make changes to this information in test reports as and when these reviews are conducted.

NOTE²: Walkley and Black Organic Carbon % (40°C) data presented in this test report have been obtained by a combination of laboratory wet chemistry and the equivalent modelled result from Mid-Infrared Diffuse Reflectance Spectroscopy and Partial Least Squares Regression (PLSR) analysis. An explanatory technical note is available upon request. The exception is for quoted work that specifically required laboratory wet chemistry.

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Report Date: 09/06/2023
Sampling Date: 26/05/2023
Date Received: 31/05/2023
Sample Name: Elva Front
Crop: Pasture
Sample Depth: 0-10
GPS Start: NA
GPS End: NA

		Analyte	Unit	Desired Level	Level Found	c.mol/kg	Very Low	Low	Acceptable	High	Excessive
		ECEC	cmol/kg	5.00-25.0	7.74						
		Organic Carbon (W&B) ²	% (40°C)	0.70-1.40	3.88						
		pH 1:5 water	pH units	6.50-7.50	6.19						
		pH CaCl2 (following 4A1)	pH units	5.50-6.50	5.28						
Extractable N-P-K-S	Nitrate - N (2M KCl)	mg/kg	20-50	5.1							
	Ammonium - N (2M KCl)	mg/kg	2.0-10	9.2							
	Colwell Phosphorus	mg/kg	30-43	44							
	PBI + Col P		35-70	100							
	Colwell Potassium	mg/kg	130-190	280							
	KCl Sulfur (S)	mg/kg	8.0-20	6.1							
Exchangeable cations	Calcium (Ca) - AmmAc	mg/kg	800-1500	1160	5.80						
	Magnesium (Mg) - AmmAc	mg/kg	100-150	146	1.20						
	Potassium (K) - AmmAc	mg/kg	130-190	255	0.651						
	Sodium (Na) - AmmAc	mg/kg	15.0-70.0	20.9	0.091						
	Exchangeable aluminium	cmol/kg	0.10-0.35	<0.02							
	Exchangeable hydrogen	cmol/kg	0.10-0.35	<0.02							
Salt	Salinity EC 1:5	dS/m	0.025-0.15	0.067							
Ratios	Ca:Mg Ratio		2.0-8.0	4.8							
	K:Mg Ratio		0.10-0.50	0.54							
	GTRI		0.02-0.07	0.09							
		Unit	Desired Level	Level Found							
Exch. cation %	Calcium	%	60.0-80.0	74.9							
	Magnesium	%	10.0-20.0	15.5							
	Potassium	%	3.0-8.0	8.4							
	Sodium	%	0.5-6.0	1.2							
	Aluminium	%	0.5-10	0.0							
	Hydrogen	%	0.3-5.0	0.0							

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Date Received: 31/05/2023
Sample Name: Elva Back
Crop: Pasture
Sample Depth: 0-10
GPS Start: NA
GPS End: NA

		Analyte	Unit	Desired Level	Level Found	c.mol/kg	Very Low	Low	Acceptable	High	Excessive
		ECEC	cmol/kg	5.00-25.0	8.70						
		Organic Carbon (W&B) ²	% (40°C)	0.90-1.80	4.40						
		pH 1:5 water	pH units	6.50-7.50	6.05						
		pH CaCl2 (following 4A1)	pH units	5.50-6.50	5.24						
Extractable N-P-K-S	Nitrate - N (2M KCl)	mg/kg	20-50	9.3							
	Ammonium - N (2M KCl)	mg/kg	2.0-10	12							
	Colwell Phosphorus	mg/kg	33-46	94							
	PBI + Col P		35-70	106							
	Colwell Potassium	mg/kg	150-220	300							
	KCl Sulfur (S)	mg/kg	8.0-20	11							
Exchangeable cations	Calcium (Ca) - AmmAc	mg/kg	1000-2000	1200	5.98						
	Magnesium (Mg) - AmmAc	mg/kg	150-200	213	1.75						
	Potassium (K) - AmmAc	mg/kg	150-220	265	0.677						
	Sodium (Na) - AmmAc	mg/kg	15.0-120	66.0	0.287						
	Exchangeable aluminium	cmol/kg	0.10-0.35	<0.02							
	Exchangeable hydrogen	cmol/kg	0.10-0.35	<0.02							
Salt	Salinity EC 1:5	dS/m	0.025-0.15	0.12							
Ratios	Ca:Mg Ratio		2.0-8.0	3.4							
	K:Mg Ratio		0.10-0.50	0.39							
	GTRI		0.02-0.07	0.09							
		Unit	Desired Level	Level Found							
Exch. cation %	Calcium	%	60.0-80.0	68.8							
	Magnesium	%	10.0-20.0	20.1							
	Potassium	%	3.0-8.0	7.8							
	Sodium	%	0.5-6.0	3.3							
	Aluminium	%	0.5-10	0.0							
	Hydrogen	%	0.3-5.0	0.0							

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