





## General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.  
LOR = Limit of reporting  
^ = This result is computed from individual analyte detections at or above the level of reporting  
ø = ALS is not NATA accredited for these tests.  
~ = Indicates an estimated value.

- EK061G, EK067G: Poor spike recovery for TKN and TP due to matrix interferences(confirmed by re-analysis).
- ED007 and ED008: When Exchangeable Al is reported from these methods, it should be noted that Rayment & Lyons (2011) suggests Exchange Acidity by 1M KCl - Method 15G1 (ED005) is a more suitable method for the determination of exchange acidity (H<sup>+</sup> + Al<sup>3+</sup>).



## Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)		Sample ID		native grove site 1 150-600mm	native grove site 2 150-600mm	native grove site 3 150-600mm	native grove site 4 150-600mm	----
Sampling date / time				22-Jun-2021 00:00	22-Jun-2021 00:00	22-Jun-2021 00:00	22-Jun-2021 00:00	----
Compound	CAS Number	LOR	Unit	ES2123228-001	ES2123228-002	ES2123228-003	ES2123228-004	-----
				Result	Result	Result	Result	----
<b>EA002: pH 1:5 (Soils)</b>								
pH Value	----	0.1	pH Unit	6.0	6.4	6.3	6.0	----
<b>EA010: Conductivity (1:5)</b>								
Electrical Conductivity @ 25°C	----	1	µS/cm	11	11	6	7	----
<b>EA055: Moisture Content (Dried @ 105-110°C)</b>								
Moisture Content	----	1.0	%	7.0	6.2	6.8	7.1	----
<b>ED007: Exchangeable Cations</b>								
Exchangeable Calcium	----	0.1	meq/100g	0.3	<0.1	<0.1	0.6	----
Exchangeable Magnesium	----	0.1	meq/100g	0.7	0.5	0.8	0.9	----
Exchangeable Potassium	----	0.1	meq/100g	0.2	0.1	0.1	0.2	----
Exchangeable Sodium	----	0.1	meq/100g	<0.1	0.1	<0.1	<0.1	----
Cation Exchange Capacity	----	0.1	meq/100g	1.3	0.8	1.1	1.8	----
Exchangeable Aluminium	----	0.1	meq/100g	<0.1	<0.1	<0.1	<0.1	----
Exchangeable Sodium Percent	----	0.1	%	5.0	15.4	6.2	1.6	----
<b>EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser</b>								
Nitrite + Nitrate as N (Sol.)	----	0.1	mg/kg	0.6	0.5	0.6	0.8	----
<b>EK061G: Total Kjeldahl Nitrogen By Discrete Analyser</b>								
Total Kjeldahl Nitrogen as N	----	20	mg/kg	230	140	180	320	----
<b>EK062: Total Nitrogen as N (TKN + NOx)</b>								
^ Total Nitrogen as N	----	20	mg/kg	230	140	180	320	----
<b>EK067G: Total Phosphorus as P by Discrete Analyser</b>								
Total Phosphorus as P	----	2	mg/kg	152	123	124	149	----
<b>EK072: Phosphate Sorption Capacity</b>								
Phosphate Sorption Capacity	----	250	mg P sorbed/kg	<250	<250	<250	308	----
<b>EP004: Organic Matter</b>								
Total Organic Carbon	----	0.5	%	<0.5	<0.5	<0.5	0.6	----