

Project Name: Forest Nitrogen, S.A.
Project Code: FN **Site ID:** A468 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	Malcolm J. Wright	Locality:	
Date Desc.:	27/11/56	Elevation:	427 metres
Map Ref.:		Rainfall:	710
Northing/Long.:	138.95	Runoff:	Rapid
Easting/Lat.:	-34.7333333333333	Drainage:	Well drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Hills
Morph. Type:	Lower-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Chromosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	Red podzolic soil

All necessary analytical data are available.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Tall Strata - Tree, 12.01-20m, - *Species includes - Pinus radiata

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.08 m	Dark greyish brown (10YR4/2-Moist); ; Fine sandy loam; Firm consistence; 2-10%, Gravel, coarse fragments; Abundant, coarse (>5mm) roots; Diffuse change to -
A1/A2	0.08 - 0.18 m	Greyish brown (10YR5/2-Moist); ; Fine sandy loam; Firm consistence; 2-10%, Gravel, coarse fragments; Sharp change to -
A2	0.18 - 0.23 m	Greyish brown (2.5Y5/2-Moist); ; Fine sandy loam; Firm consistence; 20-50%, Gravel, coarse fragments; Many, fine (1-2mm) roots; Sharp, Irregular change to -
B1	0.23 - 0.3 m	Yellowish red (5YR4/8-Moist); ; Medium clay; , Polyhedral; Very weak consistence; 2-10%, Gravel, coarse fragments; Diffuse change to -
B2	0.3 - 0.38 m	Yellowish red (5YR4/6-Moist); ; Medium clay; , Angular blocky; , Granular; Very weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
B2C1	0.38 - 0.53 m	Yellowish red (5YR5/6-Moist); , 10YR5/6; Medium clay; , Granular; Very weak consistence; 0-2%, Gravel, coarse fragments; Common, fine (1-2mm) roots; Diffuse change to -
C	0.53 - 0.93 m	; Clay loam, fine sandy; Very weak consistence; 0-2%, Gravel, coarse fragments; Diffuse change to -
C	0.93 - 1.5 m	, 20-50% , Prominent; , 20-50% , Prominent; Very weak consistence;
C	1.5 - 1.95 m	, 20-50% , Prominent; , 20-50% , Prominent; Clay loam; Very weak consistence;

Morphological Notes

Observation Notes

Site Notes

ADELAIDE

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Comol (+)/kg				%
0 - 0.08	5.4H	0.017C	2.9K	1.1	0.21	0.17	12D			
0.08 - 0.18	5.5H	0.01C								
0.18 - 0.23	5.7H	0.01C								
0.23 - 0.3	6.1H	0.014C	5.4K	4	0.51	0.29	7.5D			
0.3 - 0.38	6.2H	0.022C								
0.38 - 0.53	6.5H	0.02C								
0.53 - 0.93	6.7H	0.017C								
0.93 - 1.5	6.9H	0.025C								
1.5 - 1.95	7.1H	0.055C								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.08		2.2E		0.011F	0.11B			1	13C	68	5	10
0.08 - 0.18								7	12C	71	6	10
0.18 - 0.23								41	13C	67	7	11
0.23 - 0.3		0.95E		0.01F	0.061B			1	5C	35	6	52
0.3 - 0.38									2C	24	6	66
0.38 - 0.53												
0.53 - 0.93									2C	64	5	27
0.93 - 1.5												
1.5 - 1.95				0.005F								

[illegible]

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded