Project Name: NST
Project Code: NST **Site ID:** P125 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (WA)

Site Information

Desc. By: T.R. Poutsma
Locality: .5 chain north from west end of access `shed' track:6.4KM and 30 chainswest from Gnowangerup Road:
Date Desc.: 18/07/52
Elevation: No Data
Map Ref.: Sheet No. : 2429 1:100000
Rainfall: 380
Northing/Long.: 117.993055555556
Runoff: Rapid
Easting/Lat.: -34.2341666666667
Drainage: Poorly drained

Geology

ExposureType: Soil pit
Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data
Substrate Material: Igneous rock (unidentified)

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3%
Pattern Type: Peneplain
Morph. Type: Mid-slope
Relief: No Data
Elem. Type: No Data
Slope Category: Gently inclined
Slope: 0 %
Aspect: No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Eutrophic Mottled-Hypernatric Grey Sodosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:
Low Strata - Shrub, , . *Species includes - None recorded
Mid Strata - , , Very sparse. *Species includes - None recorded
Tall Strata - Tree mallee, , . *Species includes - Eucalyptus species

Surface Coarse Fragments: 10-20%, , , Substrate material

Profile Morphology

A1	0 - 0.05 m	Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Single grain grade of structure; Moist; Very weak consistence; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), ; Field pH 6 (pH meter); Clear, Irregular change to -
A2	0.05 - 0.3 m	Very pale brown (10YR7/3-Moist); ; Sand; Single grain grade of structure; Moist; Very weak consistence; Very many (50 - 100 %), Ferruginous, Medium (2 -6 mm), ; Field pH 5.5 (pH meter); Clear, Irregular change to -
B1	0.3 - 0.48 m	Grey (10YR6/1-Moist); , 10YR66; , 2.5YR44; Fine sandy medium clay; Weak grade of structure, Columnar; Moist; Weak consistence; 10-20%, Gravel, coarse fragments; Field pH 7 (pH meter); Diffuse change to -
B2	0.48 - 0.81 m	Light grey (10YR7/1-Moist); , 2.5YR36; Heavy clay; Massive grade of structure; Moist; Weak consistence; 2-10%, Gravel, coarse fragments; Field pH 7.5 (pH meter);
B3	0.89 - 1.57 m	Light grey (10YR7/1-Moist); , 2.5YR36; , 10YR58; Heavy clay; Massive grade of structure; Moist; Weak consistence; 2-10%, Gravel, coarse fragments; Field pH 5.5 (pH meter);

Morphological Notes

Observation Notes

>157CM W'D ROCK FRAGMENTS INCREASING:AT 30CM IS 12MM OF HIGHLY LEACHED SANDY HORIZON BETWEEN CLAY DOMES:

Site Notes

PLANTAGENET LD

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.05	6.1A	0.033A								
0.05 - 0.3	5.9A	0.015A								
0.3 - 0.48	6.9A	0.318A	1.2K	5.5	0.1	3.56			10.4B	
0.48 - 0.81	7.7A	0.839A	1.5K	5.8	0.17	4.72			12.2B	
0.89 - 1.57	5.5A	1.33A	1.5K	5.2	0.26	5.78			12.7B	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.05												
0.05 - 0.3												
0.3 - 0.48												
0.48 - 0.81												
0.89 - 1.57												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.05									
0.05 - 0.3									
0.3 - 0.48									
0.48 - 0.81									
0.89 - 1.57									

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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_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
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour