

Project Name: NST
Project Code: NST **Site ID:** P134 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (WA)

Site Information

Desc. By: E. Bettenay **Locality:** 55 chains west from a point 50 chains north from intersection of roads Nos. 5881 and 7134 on Gnowangerup Road:
Date Desc.: 30/07/52 **Elevation:** No Data
Map Ref.: Sheet No. : 2529 1:100000 **Rainfall:** 380
Northing/Long.: 118.056666666667 **Runoff:** Slow
Easting/Lat.: -34.2525 **Drainage:** Poorly drained

Geology

Exposure Type: 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: Plain **Slope Category:** Gently inclined
Slope: 0 % **Aspect:** No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: **Mapping Unit:** N/A
Gypsic Mesonatric Red Sodosol **Principal Profile Form:** N/A
ASC Confidence: **Great Soil Group:** Solodized solonetz
Analytical data are incomplete but reasonable confidence.

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation: Low Strata - Shrub, 0.51-1m, Sparse. *Species includes - None recorded
Tall Strata - Tree mallee, , . *Species includes - Eucalyptus species

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.04 m	Brown (10YR4/3-Moist); ; Sand; Single grain grade of structure; Moderately moist; Very weak consistence; 2-10%, Quartz, coarse fragments; Field pH 7 (pH meter); Clear, Irregular change to -
B1	0.04 - 0.18 m	Reddish brown (5YR4/4-Moist); ; Sandy medium clay (Light); Weak grade of structure, Columnar; Moderately moist; Weak consistence; Moderately plastic; Normal plasticity; 2-10%, Quartz, coarse fragments; Field pH 7.5 (pH meter); Diffuse change to -
B2	0.18 - 0.36 m	Reddish brown (5YR4/4-Moist); , 10YR5/6; Sandy medium clay (Light); Moist; Weak consistence; 2-10%, Gravel, coarse fragments; Field pH 8 (pH meter); Diffuse, Irregular change to -
B3	0.36 - 0.96 m	Light brown (7.5YR6/4-Moist); ; Heavy clay; Moderately moist; Weak consistence; 2-10%, Gravel, coarse fragments; Many (20 - 50 %), Gypseous, , Veins; Field pH 8 (pH meter);
B3	0.96 - 1.22 m	Light brown (7.5YR6/4-Moist); ; Heavy clay; Moderately moist; Weak consistence; 2-10%, Gravel, coarse fragments; Many (20 - 50 %), Gypseous, , Veins; Field pH 8 (pH meter);
B4	1.22 - 1.65 m	Yellowish brown (10YR5/8-Moist); ; Heavy clay; Weak consistence; 0-2%, Gravel, coarse fragments; Field pH 7.5 (pH meter);
C	1.65 - 2.06 m	Brown (10YR5/3-Moist); , 5Y5/2; Sandy medium clay; 2-10%, Substrate material, coarse fragments;

Morphological Notes

Observation Notes

36-96CM LARGE AMOUNTS OF SOFT POWDERY LIME:165-206CM FRACTION IS W'D MEDIUM GRAINED BASIC ROCK:

Site Notes

PLANTAGENET LD

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na Cmol (+)/kg	Acidity		%
0 - 0.04	7.4A	0.116A	6K	5.1	0.41	0.64		12.2B	
0.04 - 0.18	8.2A	0.58A	8.1K	11.7	0.89	6.05		26.7B	
0.18 - 0.36	9.3A	1.33A							
0.36 - 0.96	9.4A	1.88A							
	9.2A	2.13A							
0.36 - 0.96	9.4A	1.88A							
	9.2A	2.13A							
1.22 - 1.65	8.5A	1.88A							
1.65 - 2.06	8.6A	1.51A							

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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