

Project Name: Moora Wongan Hills land resources survey
Project Code: MRA **Site ID:** 0187 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Mir Frahmmand
Date Desc.: 12/08/96
Map Ref.:
Northing/Long.: 6708500 AMG zone: 50
Easting/Lat.: 447800 Datum: AGD84
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

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

Landform

Rel/Slope Class: No Data
Morph. Type: Mid-slope
Elem. Type: No Data
Slope: 2 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: 135 degrees

Surface Soil Condition Hardsetting

Erosion

Soil Classification

Australian Soil Classification: Sodic Petrocalcic Red Dermosol
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

Vegetation

Surface Coarse Fragments

Profile Morphology

A1t 0 - 0.05 m Dark red (2.5YR3/6-Moist); ; Light clay; , Platy; Dry; Water repellent; Field pH 7 (pH meter); Clear
 change to -
 B1t 0.05 - 0.25 m Red (2.5YR4/6-Moist); ; Light medium clay; , Polyhedral; Moist; Soil matrix is Highly calcareous; Field
 pH 7.7 (pH meter); Diffuse change to -
 B2t 0.25 - 0.45 m Red (2.5YR4/6-Moist); ; Light medium clay; , Polyhedral; Moist; Soil matrix is Highly calcareous; Field
 pH 8.5 (pH meter); Diffuse change to -
 B22t 0.45 - 0.75 m Red (2.5YR4/8-Moist); ; Medium clay; , Angular blocky; Moist; Soil matrix is Highly calcareous; Field pH
 8.7 (pH meter); Sharp change to -
 Cm 0.75 - m ; Calcrete, Moderately cemented, Massive;

Morphological Notes

Observation Notes

Site Notes

45-75cm KC fragments angular shape 2-40mm. fine roots up to 40 cm. clayey soil/pan

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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				Cmol (+)/kg				%
0 - 0.05	7.4B 8.3H	35B	5.2E	2.68	2.83	0.79		12B	11.5D	6.58
0.05 - 0.25	8.2B 8.6H	170B	4.7E	3.5	4.08	0.99		12B	13.27D	8.25
0.25 - 0.45	8.5B	240B	2.76E	4.05	4.91	1.58		12B	13.3D	13.17

0.45 - 0.75	8.9H 8.5B 9H	240B	2.29E	3.22	4.28	1.98		10B	11.77D	19.80
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Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m ³			%	
0 - 0.05 34.6		1.03D		200B	0.083E						5.1
0.05 - 0.25 43.2	<2C	0.67D									5.3
0.25 - 0.45 49.1	6C	0.35D									7.7
0.45 - 0.75 43.4	15C	0.27D									8.7

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CM	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	
15C1_CEC	soluble salts
15C1_K	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15J_BASES	Sum of Bases
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	
15N1_a	and measured clay
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
18A1_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
19B_NR	Bicarbonate-extractable potassium (not recorded)
3_NR	Calcium Carbonate (CaCO ₃) - Not recorded
4_NR	Electrical conductivity or soluble salts - Not recorded
4B1	pH of soil - Not recorded
6A1_UC	pH of 1:5 soil/0.01M calcium chloride extract - direct
7A1	Organic carbon (%) - Uncorrected Walkley and Black method
9A3	Total nitrogen - semimicro Kjeldahl, steam distillation
9B_NR	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9H1	Bicarbonate-extractable phosphorus (not recorded)
P10_1m2m	Anion storage capacity
P10_20_75	1000 to 2000u particle size analysis, (method not recorded)
P10_75_106	20 to 75u particle size analysis, (method not recorded)
P10_NR_C	75 to 106u particle size analysis, (method not recorded)
P10_NR_Saa	Clay (%) - Not recorded
P10_NR_Z	Sand (%) - Not recorded arithmetic difference, auto generated
P10106_150	Silt (%) - Not recorded
	106 to 150u particle size analysis, (method not recorded)

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P10150_180 150 to 180u particle size analysis, (method not recorded)
P10180_300 180 to 300u particle size analysis, (method not recorded)
P10300_600 300 to 600u particle size analysis, (method not recorded)
P106001000 600 to 1000u particle size analysis, (method not recorded)