

Project Name: Moora Wongan Hills land resources survey
Project Code: MRA **Site ID:** 0505 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Mir Frahmmand	Locality:	
Date Desc.:	01/01/95	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6640671 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	470779 Datum: AGD84	Drainage:	No Data

Geology

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

Landform

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Sodic Eutrophic Red Kandosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1	0 - 0.15 m	Reddish brown (5YR4/4-Moist); ; Clay loam; Moderate grade of structure, Polyhedral; Field pH 8.5 (pH meter); Clear change to -
A2	0.15 - 0.3 m	Reddish brown (5YR4/4-Moist); ; Clay loam; Moderate grade of structure, Polyhedral; Diffuse change to -
B11t	0.3 - 0.6 m	Reddish brown (5YR4/4-Moist); ; Light clay; Weak grade of structure, Polyhedral; Diffuse change to -
B2tc	0.6 - 0.8 m	Reddish brown (5YR4/4-Moist); ; Light clay; Moderate grade of structure, Angular blocky; 20-50%, Quartz, coarse fragments; 10-20%, Scoria, coarse fragments; Clear change to -
B22t	0.8 - 1.2 m	Reddish brown (5YR4/4-Moist); ; Light clay; Strong grade of structure, Angular blocky; Diffuse change to -
B23t	1.2 - 1.4 m	Yellowish red (5YR4/6-Moist); ; Light clay; Moderate grade of structure, Angular blocky; Field pH 8.8 (pH meter);

Morphological Notes

B11t	slickensides
B23t	All layers slacking

Observation Notes

Site Notes

Crab holes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP
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m	dS/m		Cmol (+)/kg							%
0 - 0.15	7.9B 8.6H	27B	17.61E	3.87	2.91	0.26		22B	24.65D	1.18
0.15 - 0.3	8B 8.7H	14B	17.41E	3.27	1.99	0.2		23B	22.87D	0.87
0.3 - 0.6	8B 8.8H	15B	20.3E	4.25	1.12	0.49		27B	26.16D	1.81
0.6 - 0.8	8B 8.6H	44B	15.22E	7.66	0.58	1.25		24B	24.71D	5.21
0.8 - 1.2	8.3B 9.1H	92B	8.46E	8.33	0.48	4.26		23B	21.53D	18.52
1.2 - 1.4	8.3B 8.9H	160B	6.37E	8.25	0.6	6.15		21B	21.37D	29.29

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis	GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3					%
0 - 0.15 36.2	12C	1.32D		300B	0.141E							15.8
0.15 - 0.3 31.8	8C											13.4
0.3 - 0.6 37.3		0.85D										10.7
0.6 - 0.8 40.2	3C	0.38D										9.6
0.8 - 1.2 38.4	4C	0.16D										7.3
1.2 - 1.4 39.8	2C	0.13D										7.1

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
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	and measured clay
15N1_a	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
18A1_NR	Bicarbonate-extractable potassium (not recorded)
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
9H1	Anion storage capacity

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P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
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)