

Project Name: Moora Wongan Hills land resources survey
Project Code: MRA **Site ID:** 0501 **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.:	6640086 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	473570 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:	1 %	Aspect:	No Data

Surface Soil Condition Hardsetting

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Epicalcareous Epipedal Red Vertosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1tk	0 - 0.1 m	Dark reddish brown (5YR3/4-Moist); ; Light clay; , Angular blocky; Soil matrix is Moderately calcareous;
		Field pH 8.4 (pH meter); Clear change to -
A2tk	0.1 - 0.25 m	Red (2.5YR4/8-Moist); ; Light medium clay; , Angular blocky; Common (10 - 20 %),
Calcareous, , Soft		segregations; Soil matrix is Very highly calcareous; Diffuse change to -
A21tk	0.25 - 0.5 m	Yellowish red (5YR4/6-Moist); ; Light medium clay; , Angular blocky; Rough-ped fabric;
Many (20 - 50		%), Calcareous, , Soft segregations; Soil matrix is Very highly calcareous; Field pH 9.5
(pH meter);		Diffuse change to -
B1tk	0.5 - 0.85 m	Yellowish red (5YR4/6-Moist); ; Light medium clay; , Angular blocky; Soil matrix is Very
highly		calcareous; Diffuse change to -
B2tk	0.85 - 1.2 m	Yellowish red (5YR5/6-Moist); ; Light medium clay; Massive grade of structure, Angular
blocky; Soil		matrix is Very highly calcareous; Field pH 7.3 (pH meter); Diffuse change to -
B2tk	1.2 - 1.4 m	Reddish brown (5YR5/4-Moist); ; Light medium clay; Massive grade of structure; Soil
matrix is Very		highly calcareous; Diffuse change to -
	1.4 - m	;

Morphological Notes

B2tk gritty

Observation Notes

Site Notes

Cracking surface

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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 - 0.1	7.3B 8.1H	10B	10.95E	3.74	0.89	0.25		18B	15.83D	1.39
0.1 - 0.25	8B 8.9H	13B	12.48E	6.28	0.33	0.72		21B	19.81D	3.43
0.25 - 0.5	8.3B 9.3H	18B	9.71E	7.06	0.27	1.56		20B	18.6D	7.80
0.5 - 0.85	8.6B 9.6H	43B	4.38E	7.77	0.48	3.93		17B	16.56D	23.12
0.85 - 1.2	7.4B 8.4H	46B	2.44E	5.18	0.53	4.83		15B	12.98D	32.20
1.2 - 1.4	4.8B 5.7H	51B	1.66H	4.16	0.31	4.11	0.14J		10.24D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.1		0.67D		120B	0.063E			7.2
36.4								
0.1 - 0.25	4C	0.63D						7.1
41								
0.25 - 0.5	8C	0.47D						8.3
42.9								
0.5 - 0.85	10C	0.17D						7.9
41								
0.85 - 1.2	<2C	0.12D						6.8
37.5								
1.2 - 1.4		0.14D						3.8
40.4								

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - 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	
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
salts	
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no 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

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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
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)