Project Name: Moora Wongan Hills land resources survey

Project Code: Observation ID: 1 MRA Site ID: 0011

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Mir Frahmand Locality:

Date Desc.: 03/03/95 Elevation: No Data Map Ref.: Rainfall: No Data

Northing/Long.: 6592650 AMG zone: 50 Runoff: No Data Easting/Lat.: 438350 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: No Data Pattern Type: No Data Mid-slope Relief: No Data Morph. Type: Elem. Type: Hillslope **Slope Category:** No Data Slope: 2 % Aspect: 135 degrees

Surface Soil Condition Hardsetting

Erosion

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Sodic Mesotrophic Grey 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

Dark grey (10YR4/1-Moist); ; Sandy loam; , ; Dry; Field pH 6.8 (pH meter); Clear change Α1 0 - 0.05 m to -

0.05 - 0.3 m Greyish brown (10YR5/2-Moist); ; Clay loam; Massive grade of structure; Dry; Field pH B2t

7.5 (pH meter);

Diffuse change to -Greyish brown (10YR5/2-Moist); ; Medium clay; Dry; Field pH 7.8 (pH meter); Diffuse

B21t 0.3 - 0.6 m change to -

Light grey (10YR7/2-Moist); , 5YR46; Medium clay; Massive grade of structure; Dry; 50-

B22tc 0.6 - 0.9 m 90%, angular,

Ironstone, coarse fragments; Field pH 6.1 (pH meter); Diffuse change to -

B23t 0.9 - 1 m Very pale brown (10YR7/4-Moist); ; Medium clay; Massive grade of structure; Dry;

Morphological Notes

Disp B2t B21t Disp

Observation Notes

Site Notes

Surface cracking 2mm wide. side of pit cracking but sealed on the top. Column block Lenticular

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Laboratory Test Results:

Depth	pН	oH 1:5 EC	E Ca	exchangeable Cations Mg K		Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ou	my	IX.		Cmol (+)/kg			%
0 - 0.05	5.5B 6.1H	24B	5.42H	2.45	0.48	0.34	0.02J		8.69D	
0.05 - 0.3	6B 7H	12B	4.46A	3.4	0.22	0.74			8.82D	
0.3 - 0.6	5.7B	19B	1.7A	3.65	0.36	1.61			7.32D	

	6.8H							
0.6 - 0.9	4.5B 5.4H	28B	1.09H	3.43	0.43	1.88	0.11J	6.83D
	0							

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle Size CS FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.05 17.2		2.15D		200B	0.113E					10.4
0.05 - 0.3 30		1.35D		99B	0.053E					8.2
0.3 - 0.6 46.2		0.36D		58B	0.025E					8.1
0.6 - 0.9 53.2		0.29D		65B	0.019E					10.5

Laboratory Analyses Completed for this profile

15_NR_BSa 15_NR_CMR 15A1_CA for soluble	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_CEC 15A1_K for soluble	salts Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment .
15A1_MG for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15E1_AL 15E1_CA	salts Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
salts 15E1_K 15E1_MG 15E1_MN 15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES 15L1_a Sum of Cations	Sum of Bases Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_a 15N1_b 3_NR 4_NR	and measured clay Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded
4B_AL_NR 4B1 6A1_UC 7A1 9A3	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen - semimicro Kjeldahl, steam distillation Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9H1 P10_1m2m P10_20_75 P10_75_106	Anion storage capacity 1000 to 2000u particle size analysis, (method not recorded) 20 to 75u particle size analysis, (method not recorded) 75 to 106u particle size analysis, (method not recorded)

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P10_NR_C
P10_NR_Saa
P10_NR_Saa
P10_NR_Z
Silt (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z
P10106_150
P10150_180
P10180_300
P10180_300
P10300_600
P10300_600
P106001000
P106001000

Clay (%) - Not recorded
arithmetic difference, auto generated
Silt (%) - Not recorded
arithmetic difference, auto generated
solution in the corded arithmetic difference, auto generated arithme