Project Name: Moora Wongan Hills land resources survey

Project Code: MRA Site ID: 1184 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Mir Frahmand Locality:

Date Desc.:18/03/96Elevation:No DataMap Ref.:Rainfall:No DataNorthing/Long.:6561197 AMG zone: 50Runoff:No Data

Northing/Long.: 6561197 AMG zone: 50 Runoff: No Data Easting/Lat.: 448535 Datum: AGD84 Drainage: No Data

Geology

ExposureType:Soil pitConf. Sub. is Parent. Mat.:No DataGeol. Ref.:No DataSubstrate Material:No Data

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% Pattern Type: Rises

Morph. Type:Lower-slopeRelief:No DataElem. Type:HillslopeSlope Category:No DataSlope:2 %Aspect:No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:Mapping Unit:N/AHaplic Mesotrophic Brown ChromosolPrincipal Profile Form:N/AASC Confidence:Great Soil Group:N/A

Confidence level not specified

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

A1 0 - 0.1 m Dark greyish brown (10YR4/2-Moist); Loamy fine sand; , ; Dry; Field pH 6.2 (pH meter);

Clear change

B1t 0.1 - 0.3 m Brownish yellow (10YR6/6-Moist); , 7.5YR58, 2-10% , Distinct; Light clay; Dry; Field pH

5.4 (pH meter);

Diffuse change to -

B12t 0.3 - 0.6 m Yellowish brown (10YR5/6-Moist); ; Light medium clay; Moderate grade of structure, Angular blocky;

to -

Dry; Field pH 5.8 (pH meter); Diffuse change to -

B2t 0.6 - 1 m Brownish yellow (10YR6/6-Moist); ; Medium heavy clay; Moderate grade of structure,

Angular blocky;

Dry; Field pH 6 (pH meter); Diffuse change to -

B21t 1 - 1.2 m Brownish yellow (10YR6/6-Moist); , 10YR72, 2-10% , Faint; Heavy clay; Massive grade of structure;

Moist; Field pH 6.1 (pH meter); Diffuse change to -

B22t 1.2 - 1.6 m Light grey (10YR7/2-Moist); , 2.5YR48, 20-50% , Distinct; , 10YR58, 10-20% , Distinct;

Heavy clay; ,

Angular blocky; Moist; Field pH 6 (pH meter);

B3t 1.6 - 2 m Light grey (10YR7/2-Moist); , 2.5YR48, 20-50%; , 10YR58, 10-20%; Heavy clay; Moist;

Field pH 6.1 (pH meter);

Morphological Notes

B1t f-s B12t f-s

Observation Notes

Site Notes

slaking clay

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Laboratory To	est Results:
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Depth	рН	1:5 EC	Ex Ca	changeab Mg	ole Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		J			(+)/kg			%
0 - 0.1	4.4B 5.2H	6B	1.4H	0.41	0.13	0.06	0.4J		2D	
0.1 - 0.3	4.6B 5.5H	4B	1.26H	0.6	0.02	0.07	0.13J		1.95D	
0.3 - 0.6	5.6B 6H	6B	1.6H	1.51	0.02	0.15			3.28D	
0.6 - 1	5.9B 6.6H	15B	0.94A	3.26	<0.02	0.89			5.1D	
1 - 1.2	6.2B 6.9H	27B	0.78A	3.74	0.02	1.17			5.71D	
1.2 - 1.6	6.3B 7H	34B	0.74A	3.88	<0.02	1.46			6.09D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle CS	Size FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 10		1.48D		220B	0.107	E					5.7
0.1 - 0.3 34.6		0.28D									3
0.3 - 0.6 54.5		0.16D									4.8
0.6 - 1 60.7		0.11D									3.8
1 - 1.2 62.3		0.05D									4.9
1.2 - 1.6 65.1		0.04D									5.4

Laboratory Analyses Completed for this profile

15_NR_AL 15_NR_BSa 15_NR_CMR 15_NR_K 15_NR_MN 15A1_CA for soluble	Aluminium Cation - meq per 100g of soil - Not recorded Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_CEC 15A1_K	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
for soluble	
	salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15E1_AL 15E1_CA	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	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
15E1_NA 15J BASES	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 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)
3_NR	Electrical conductivity or soluble salts - Not recorded

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4_NR pH of soil - Not recorded

Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct 4B_AL_NR

4B1

6A1_UC Organic carbon (%) - Uncorrected Walkley and Black method

7A1 Total nitrogen - semimicro Kjeldahl, steam distillation

9A3 Total Phosphorus (ppm) - semimicro kjeldahl, automated colour Bicarbonate-extractable phosphorus (not recorded)

9B_NR Anion storage capacity 9H1

1000 to 2000u particle size analysis, (method not recorded) P10_1m2m P10_20_75 P10_75_106 20 to 75u particle size analysis, (method not recorded) 75 to 106u particle size analysis, (method not recorded)

Clay (%) - Not recorded
Sand (%) - Not recorded arithmetic difference, auto generated

P10_NR_C P10_NR_Saa P10_NR_Z Silt (%) - Not recorded

106 to 150u particle size analysis, (method not recorded) P10106_150 150 to 180u particle size analysis, (method not recorded) 180 to 300u particle size analysis, (method not recorded) 300 to 600u particle size analysis, (method not recorded) P10150_180 P10180_300 P10300_600 P106001000 600 to 1000u particle size analysis, (method not recorded)