Project Name: Moora Wongan Hills land resources survey

Project Code: MRA Site ID: 1187 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 Data

Map Ref.:Rainfall:No DataNorthing/Long.:6560026 AMG zone: 50Runoff:No DataEasting/Lat.:447221 Datum: AGD84Drainage:Well drained

<u>Geology</u>

 Exposure Type:
 Soil pit
 Conf. Sub. is Parent. Mat.:
 No Data

 Geol. Ref.:
 No Data
 Substrate Material:
 No Data

Landform

Rel/Slope Class:Undulating rises 9-30m 3-10%Pattern Type:Low hillsMorph. Type:Lower-slopeRelief:No DataElem. Type:HillslopeSlope Category:No Data

Slope: 4 % Aspect: 270 degrees

Surface Soil Condition Soft

Erosion

Soil Classification

 Australian Soil Classification:
 Mapping Unit:
 N/A

 Sodic Mesotrophic Brown Chromosol
 Principal Profile Form:
 N/A

 ASC Confidence:
 Great Soil Group:
 N/A

Confidence level not specified

Site Disturbance

Vegetation

Surface Coarse Fragments 10-20%, , , Quartz

Profile Morphology

A1c 0 - 0.1 m Dark greyish brown (10YR4/2-Moist); ; Loamy fine sand; , Granular; Sandy (grains

prominent) fabric; 20-

50%, angular, Quartz, coarse fragments; 10-20%, subangular, Ironstone, coarse

fragments; Strongly

water repellent, "Field pH 4.9 (pH meter); Diffuse change to -

A2c 0.1 - 0.35 m

50%, angular,

Very dark greyish brown (10YR3/2-Moist); ; Clayey sand; Weak grade of structure, ; 20-Quartz, coarse fragments; 10-20%, subangular, Ironstone, coarse fragments; Field pH 4.3

(pH meter);

Clear change to -

B21t 0.35 - 0.6 m

blocky; 10-20%,

Very pale brown (10YR7/3-Moist); ; Light clay; Moderate grade of structure, Angular

Quartz, coarse fragments; Few (2 - 10 %), Ferruginous, , Soft segregations; Field pH 5.5

(pH meter);

Diffuse change to -

B22t 0.6 - 1 m

Light grey (10YR7/2-Moist); , 10YR58, 20-50% , Distinct; Medium clay; Moderate grade of

structure,
Angular blocky; 10-20%, medium gravelly, 6-20mm, Quartz, coarse fragments; Field pH

5.6 (pH meter);

Diffuse change to -

B23tc 1 - 1.4 m

20-50%, Quartz,

Light grey (10YR7/2-Moist); , 10R36, 20-50% , Prominent; Clay loam; , Angular blocky;

coarse fragments; Field pH 4.8 (pH meter); Diffuse change to -

B24t 1.4 - 2 m White (5Y8/1-Moist): Clay loam: Massive

fragments; Field

White (5Y8/1-Moist); ; Clay loam; Massive grade of structure; 2-10%, Quartz, coarse

pH 6.5 (pH meter);

Morphological Notes

A1c gritty B24t gritty

Observation Notes

Site Notes

grey deep sandy duplex. Surface stony never wash to angular shape. greyish/brown/shallow sandy duplex

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Laboratory Test Results:

Euboratory restrictions.										
Depth	pН	1:5 EC		hangeabl	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		_		Cmol ((+)/kg			%
0 - 0.1	4.1B 5.1H	4B	1.06H	0.32	0.07	0.06	0.38J		1.51D	
0.1 - 0.35	4.1B 5H	3B	0.77H	0.2	0.04	0.04	0.39J		1.05D	
0.35 - 0.6	4.8B 5.6H	3B	0.96H	1.03	0.04	0.05	0.04J		2.08D	
0.6 - 1	5.7B 6.3H	4B	0.57H	3.09	0.08	0.17			3.91D	
1 - 1.4	4.8B 6H	4B	0.04H	1.98	0.05	0.3	0.02J		2.37D	
1.4 - 2	4.1B 5.4H	7B	0.13H	2.76	<0.02	1.32	0.14J		4.22D	
Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Tota K		Partic GV CS	le Size An FS	nalysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.1		1.38D		190B	0.1	E				4.6
6.5 0.1 - 0.35 5.7		1.17D								3.7
0.35 - 0.6 37		0.2D								3.3
0.6 - 1 51.0		0.06D								9.5

2.7

11.6

ahoratory	Analyeas	Completed	for this	nrofila

51.9 1 - 1.4 30.4 1.4 - 2 33

0.04D

0.05D

	15_NR_AL 15_NR_BSa 15_NR_CMR 15_NR_K 15_NR_MN 15E1_AL 15E1_CA	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 AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
S	alts	
	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
	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
	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
	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

Moora Wongan Hills land resources survey **Project Name:**

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P10_NR_Saa P10_NR_Z P10106_150 Sand (%) - Not recorded arithmetic difference, auto generated Silt (%) - Not recorded 106 to 150u particle size analysis, (method not recorded) 150 to 130u particle size analysis, (method not recorded)
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)
600 to 1000u particle size analysis, (method not recorded) P10150_180 P10180_300 P10300_600 P106001000