Project Name: Moora Wongan Hills land resources survey

Project Code: MRA Site ID: 1185 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Mir Frahmand Locality:

Date Desc.:18/03/97Elevation:No DataMap Ref.:Rainfall:No Data

Northing/Long.: 6560800 AMG zone: 50 Runoff: No Data
Easting/Lat.: 448300 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:No DataRelief:No DataElem. Type:HillslopeSlope Category:No DataSlope:2 %Aspect:No Data

**Surface Soil Condition** 

**Erosion** 

**Soil Classification** 

 Australian Soil Classification:
 Mapping Unit:
 N/A

 Acidic-Mottled Mesotrophic Yellow 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 - 0.1 m Grey (10YR5/1-Moist); Clayey sand; Massive grade of structure; Field pH 4.5 (pH

meter); Clear change to -

B1 0.1 - 0.3 m Pale brown (10YR6/3-Moist); ; Clayey coarse sand; Massive grade of structure; Field pH

4.8 (pH meter); Diffuse change to -

B12 0.3 - 0.5 m Very pale brown (10YR7/3-Moist); ; Clayey coarse sand; Massive grade of structure; Field

pH 4.9 (pH meter); Clear change to -

B2c 0.5 - 0.7 m Very pale brown (10YR8/3-Moist); , 7.5YR56, 10-20% , Distinct; Sandy loam; Weak grade

of structure,

Angular blocky; 2-10%, subrounded, Quartz, coarse fragments; 50-90%, subrounded,

Ironstone, coarse fragments; Field pH 5.7 (pH meter); Diffuse change to -

B21t 0.7 - 1.1 m Very pale brown (10YR8/3-Moist); , 7.5YR46, 10-20% , Distinct; Sandy clay loam; Weak

grade of structure, Angular blocky; Field pH 6.1 (pH meter); Diffuse change to -

B22t 1.1 - 1.6 m Reddish yellow (5YR6/6-Moist); , 2.5YR36, 20-50%; Light clay; Weak grade of structure, Angular blocky;

Field pH 5.7 (pH meter); Diffuse change to -

B3t 1.6 - 2 m Light grey (10YR7/2-Moist); , 2.5YR36, 20-50% , Distinct; Heavy clay; Massive grade of

pH 4.8 (pH meter);

**Morphological Notes** 

A1 f-m sand B1 m-k sand B3t gritty

**Observation Notes** 

Site Notes

structure; Field

Grey deep sandy duplex Acid yellow sandy earth

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## **Laboratory Test Results:**

Depth	pН	1:5 EC	Ex Ca	changeable Cations Mg K		Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	ou .	g		Cmol	•			%
0 - 0.1	4.2B 4.9H	4B	0.41H	0.07	<0.02	0.03	0.19J		0.52D	
0.1 - 0.3	4.3B 4.9H	1B	0.08H	<0.02	<0.02	<0.02	0.12J		0.11D	
0.3 - 0.5	4.4B 5H	1B	0.05H	<0.02	<0.02	<0.02	0.12J		0.08D	
0.5 - 0.6	4.2B 5H	2B	0.51H	0.12	<0.02	<0.02	0.16J		0.65D	
0.6 - 0.7	5.4B 6H	2B	1.05H	0.27	0.02	0.03			1.37D	
0.7 - 1.1	5.8B 6.3H	3B	1.14H	0.97	<0.02	0.04			2.16D	
1.1 - 1.6	4.5B 5.1H	3B	0.2H	1.19	<0.02	0.05	0.09J		1.45D	
1.6 - 2	6B 6.6H	43B	0.64A	3.75	<0.02	1.68			6.08D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle CS	Size FS	Analysis Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 1.5		0.46D		83B	0.034E	•					1.5
0.1 - 0.3 1.3		0.1D									1.6
0.3 - 0.5 1.5		0.06D									1.2
0.5 - 0.6 14.9		0.09D									1.3
0.6 - 0.7 17.6		0.09D									0.9
0.7 - 1.1 22.9		0.09D									2.2
1.1 - 1.6 33.2		0.07D									5.3
1.6 - 2 61.4		0.04D									10.5

## **Laboratory Analyses Completed for this profile**

15_NR_AL 15_NR_BSa 15_NR_CMR	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
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_CEC 15A1_MG for soluble	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
	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\_NA 15J\_BASES 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, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Sum of Bases

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15L1\_a Sum of Cations Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using

and measured clay

15N1\_a

Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations 15N1\_b

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

Organic carbon (%) - Uncorrected Walkley and Black method 6A1\_UC Total nitrogen - semimicro Kjeldahl, steam distillation 7A1

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 106 to 150u particle size analysis, (method not recorded) P10106\_150 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)