Project Name: Moora Wongan Hills land resources survey

Observation ID: 1 **Project Code:** MRA Site ID: 0516

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Mir Frahmand Locality:

Date Desc.: No Data 24/03/97 Elevation: Map Ref.: Rainfall: No Data

Northing/Long.: 6670269 AMG zone: 50 Runoff: No Data

426902 Datum: AGD84 Drainage: Moderately well drained Easting/Lat.:

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: **Substrate Material:** No Data No Data

Landform

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

Morph. Type: Relief: No Data Lower-slope Slope Category: No Data Elem. Type: Footslope 1 % Aspect: 135 degrees Slope:

Surface Soil Condition Soft

Erosion

Soil Classification

Australian Soil Classification: Mapping Unit: N/A Principal Profile Form: Mottled-Sodic Mesotrophic Brown Kandosol N/A **ASC Confidence: Great Soil Group:** N/A

Confidence level not specified

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

Α1 0 - 0.15 m Dark yellowish brown (10YR4/4-Moist); ; Clayey sand; Massive grade of structure; Sandy

(grains

prominent) fabric; Dry; Field pH 5.6 (pH meter); Clear change to -

B1tc 0.15 - 0.45 m

fabric; Dry; 20-

Yellowish brown (10YR5/8-Moist); ; Fine sandy loam; Massive grade of structure; Earthy

50%, subrounded, Ironstone, coarse fragments; Field pH 4.8 (pH meter); Diffuse change

to -

B2c 0.45 - 1 m Yellowish brown (10YR5/8-Moist); ; Fine sandy loam; , ; Earthy fabric; Dry; 50-90%,

subrounded.

Ironstone, coarse fragments; Field pH 5.8 (pH meter); Diffuse change to -

1 - 1.4 m B21

Yellowish brown (10YR5/8-Moist); , 5YR58, 2-10%; Fine sandy loam; , ; Earthy fabric;

Moist; 10-20%,

subrounded, Ironstone, coarse fragments; Field pH 5.7 (pH meter); Diffuse change to -Yellowish brown (10YR5/8-Moist); , 5YR58, 20-50%; Fine sandy loam; Earthy fabric;

B22 1.4 - 1.7 m

Moist; Field pH 5.9

B23 1.7 - 2 m (pH meter); Diffuse change to -

Yellowish brown (10YR5/8-Moist); , 5YR58, 20-50%; Fine sandy loam; , Polyhedral;

Earthy fabric; 2-

10%, Ironstone, coarse fragments; Few (2 - 10 %), Sulphurous, Medium (2 -6 mm),

Concretions; Field

pH 6.3 (pH meter);

Morphological Notes

B1tc f-m B₂c f-m B21 f-m

Observation Notes

Site Notes

Brown loamy earth. Some mottled are soft gravel. Had 1-2 tonnes of lime 2-3 years ago the pH was 4.6

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Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeat Mg	hangeable Cations Mg K		Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	ou	mg K			Na Acidity Cmol (+)/kg			%
0 - 0.17	5.3B 6.2H	12B	1.57H	0.65	0.21	0.31	0.02J		2.74D	
0.17 - 0.55	4.7B 5.4H	5B	0.75H	0.25	0.04	0.07			1.11D	
0.55 - 0.9	5.7B 6.1H	9B	1.2H	0.77	<0.02	0.25			2.23D	
0.9 - 1.6	5.7B 6.1H	27B	0.78H	0.97	<0.02	0.33			2.09D	
1.6 - 1.9	5.9B 6.5H	20B	0.71A	1.14	0.05	0.69			2.59D	

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 - 0.17 7.7		0.88D		160B	0.067	≣					5.8
0.17 - 0.55 17.2		0.14D									5.4
0.55 - 0.9 18.2		0.11D									5.3
0.9 - 1.6 18.2		0.1D									6.3
1.6 - 1.9 17.3		0.07D									6.6

Laboratory Analyses Completed for this profile

15_NR_AL 15_NR_BSa 15_NR_CMR 15_NR_K 15_NR_K 15_NR_MN 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 Exchangeable bases (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	nt
salts	
15A1_CEC Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble sa Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble	
salts	
15A1_MG Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble	nt
salts	
15A1_NA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble	nt
salts	
15E1_AL Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts 15E1_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble	ble
salts	
15E1_K 15E1_MG 15E1_MN 15E1_NA 15E1_NA 15J BASES Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salt 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 Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts	ts
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 Cation	s

18A1_NR 3_NR 4_NR 4B_AL_NR 4B1 Bicarbonate-extractable potassium (not recorded)
Electrical conductivity or soluble salts - Not recorded
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

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Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen - semimicro Kjeldahl, steam distillation 6A1_UC

7A1 9A3 Total Phosphorus (ppm) - semimicro kjeldahl, automated colour

Bicarbonate-extractable phosphorus (not recorded) 9B_NR

9H1 Anion storage capacity

P10_1m2m 1000 to 2000u particle size analysis, (method not recorded) P10_20_75 P10_75_106 P10_NR_C 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_Saa

P10_NR_Z Silt (%) - Not recorded

P10106_150 P10150_180 106 to 150u particle size analysis, (method not recorded) 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)