Project Name: Moora Wongan Hills land resources survey

Project Code: MRA Site ID: 0506 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Mir Frahmand Locality:

Date Desc.:01/01/95Elevation:No DataMap Ref.:Rainfall:No DataNorthing/Long.:6640650 AMG zone: 50Runoff:No DataEasting/Lat.:470210 Datum: AGD84Drainage:No Data

Geology

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

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

Landform

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

Morph. Type:FlatRelief:No DataElem. Type:PlainSlope Category:No DataSlope:1 %Aspect:No Data

Surface Soil Condition

Erosion

Soil Classification

Australian Soil Classification:Mapping Unit:N/AFerric-Sodic Eutrophic Brown KandosolPrincipal Profile Form:N/AASC Confidence:Great Soil Group:N/A

Confidence level not specified

Site Disturbance

Vegetation

Surface Coarse Fragments

Profile Morphology

Dark yellowish brown (10YR4/4-Moist); ; Sandy loam; Field pH 5.4 (pH meter); Clear Α1 0 - 0.05 m change to -Α2 0.05 - 0.3 m Yellowish brown (10YR5/4-Moist); ; Sandy clay loam; Diffuse change to -A21 0.3 - 0.7 m Yellowish brown (10YR5/8-Moist); ; Sandy clay loam; Abrupt change to -A22c 0.7 - 1 m Brownish yellow (10YR6/6-Moist); ; Clay loam; Gradual change to -Brownish yellow (10YR6/6-Moist); , 5YR66; Clay loam; Field pH 6.6 (pH meter); B2t 1 - 1.6 m

Morphological Notes
Observation Notes

Site Notes

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Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	ou .	9	.,	Cmol (+)/kg				%
0 - 0.05	4.6B 5.8H	4B	1.38H	0.72	0.5	0.1	0.16J		2.7D	
0.05 - 0.3	4.1B 5.2H	3B	1.23H	0.51	0.28	0.04	0.54J		2.06D	
0.3 - 0.7	5.2B 6H	3B	2.14H	1.3	0.06	0.15			3.65D	
0.7 - 1	5.7B 6.8H	5B	2.04A	3.07	0.08	0.38			5.57D	
1 - 1.6	5.6B 6.8H	7B	1.03A	3.58	0.2	1.2			6.01D	

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 - 0.05 13.5		0.66D		71B	0.061	≣					6.7
0.05 - 0.3 20.9		0.3D									6.6
0.3 - 0.7 25.9		0.14D									7.4
0.7 - 1 34.8		0.15D									8.5
1 - 1.6 29.8		0.06D									8.3

Laboratory Analyses Completed for this profile

15_NR_AL 15_NR_BSa 15_NR_CMR 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 (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 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
ioi soluble	salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
ioi soluble	salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15E1 AL	Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts
15E1_AE	Exchangeable bases (Ca2+,Mq2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
salts	
15E1_K 15E1_MG	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
15E1_MN 15E1_NA	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	Sum of Bases
15L1 a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	
	and measured clay
15N1_a 15N1_b 18A1_NR 3_NR 4_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations Bicarbonate-extractable potassium (not recorded) Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded
4B_AL_NR 4B1	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method

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Total nitrogen - semimicro Kjeldahl, steam distillation Total Phosphorus (ppm) - semimicro kjeldahl, automated colour Bicarbonate-extractable phosphorus (not recorded)

9A3 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

P10_NR_Saa Sand (%) - Not recorded arithmetic difference, auto generated

Silt (%) - Not recorded

P10_NR_Z P10106_150 106 to 150u particle size analysis, (method not recorded) 150 to 180u particle size analysis, (method not recorded) 180 to 300u particle size analysis, (method not recorded) P10150_180 P10180_300 P10300_600 300 to 600u particle size analysis, (method not recorded) P106001000 600 to 1000u particle size analysis, (method not recorded)