Project Name: Project Code: Agency Name	MR	ora Wongan I A riculture Wes	Site ID:	0520		oservatic	on ID:	1			
Site Informatic Desc. By: Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	Mir Fr 04/04 66812	rahmand /97 248 AMG zone: 5 55 Datum: AGD		Locality: Elevation: Rainfall: Runoff: Drainage:		No Data No Data No Data Well drain	ned				
Geology ExposureType: Geol. Ref.:	Soil p No D			Conf. Sub. i Substrate N			No Data No Data				
<u>Landform</u> Rel/Slope Class	: Gentl	y undulating rise	es 9-30m 1-3	%		Pattern 1	Гуре:		Rises		
Morph. Type: Elem. Type: Slope:	Lowe Foots 2 %	r-slope slope		Relief: Slope Categ Aspect:	gory:	No Data No Data 270 degr	ees				
Surface Soil C	onditio	on Soft	İ								
Erosion	( <b>1</b>										
Soil Classifica Australian Soil ( Acidic Duric Brow ASC Confidenc Confidence level	Classific vn Kand e:	osol			Princip	ng Unit: bal Profile Soil Group		N/A N/A N/A			
Site Disturban	ce										
Vegetation Surface Coars	e Frag	ments									
Profile Morpho	ology										
A1 0 - 0.05 m (pH meter);		Brown (10YR4/3-Moist); ; Clayey sand; Massive grade of structure; Moist; Field pH 4.9									
(pri meter),		Clear, Smooth change to -									
A2 0.05 - 0 Smooth change	.15 m	; Fine sandy loam; Massive grade of structure; Moist; Field pH 4.1 (pH meter); Diffuse,									
Ũ		to -									
B1 0.15 - 0 Dry; Field pH 4	.4 m	Brownish yellow (10YR6/6-Moist); ; Clay loam, fine sandy; Massive grade of structure;									
		(pH meter); Diffuse, Smooth change to -									
B2t 0.4 - 0.6		Reddish yellow (7.5YR6/8-Moist); Substrate influence, 2.5YR46, 10-20% , 5-15mm,									
Distinct; Sandy cla to -	IJ	loam; Massive	grade of stru	cture; Dry; Fie	eld pH 4	l.1 (pH me	ter); Diffu	use, Sr	nooth change		
B21t 0.6 - 0.8 pH 4.1 (pH	3 m	Strong brown (7.5YR5/8-Moist); ; Sandy clay loam; Massive grade of structure; Dry; Field									
F (F		meter); Diffuse	, Smooth cha	inge to -							
B22t 0.8 - 1.2 Moderately moist;		Reddish brown (5YR5/4-Moist); ; Sandy clay loam; Massive grade of structure;									
		pH 5.3 (pH meter); Abrupt, Irregular change to -									
Bcw 1.2 - 1.8 angular,	3 m	Yellowish red (	5YR5/6-Mois	t); ; Clayey sa	and; Dry	; 50-90%,	medium	gravel	ly, 6-20mm,		
meter); Sharp		Ironstone, coa	rse fragments	; Silcrete, We	eakly ce	mented, M	assive; F	Field pl	H 5.9 (pH		
_		change to -									
Cm 1.8 - m		; Silcrete, Wea	kly cemented	l, Massive;							
Morphological	Notes										
A2 B1		f-m f-m									
B2t		f-m									

	1 111
B2t	f-m
B21t	f-m
B22t	f-m

Bcw Cm **Observation Notes** 

Silcrate nodules contains magnesium about 5% Duricrust

Project Name:	Moora Wongan	h Hills land	resource	s survey	
Project Code:	MRA	Site ID:	0520	Observation ID:	1
Agency Name:	Agriculture We	stern Austr	alia		

## Site Notes

Grey/ brown deep loamy duplex.

Project Name:	Moora Wongan	Hills land r	resources	s survey	
Project Code:	MRA	Site ID:	0520	Observation	1
Agency Name:	Agriculture Wes	tern Austr	alia		

## Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeab Mq	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	<b>U</b> a	ing	N		(+)/kg			%
0 - 0.05	5B 5.9H	6B	1.39H	0.31	0.19	0.06	0.05J		1.95D	
0.05 - 0.15	4.2B 5.2H	4B	0.88H	0.19	0.06	0.1	0.4J		1.23D	
0.15 - 0.4	4B 4.6H	5B	0.5H	0.11	0.03	0.05	0.89J		0.69D	
0.4 - 0.6	3.9B 4.4H	6B	0.7H	0.25	0.04	0.04	0.96J		1.03D	
0.6 - 0.8	4B 4.5H	6B	0.82H	0.38	0.03	0.02	0.63J		1.25D	
0.8 - 1.2	4.5B 5.4H	4B	1.62H	1.11	0.12	0.02	0.04J		2.87D	
1.2 - 1.8	6.1B 7.6H	2B	2.41H	1.89	1.06	0.12			5.48D	

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 10.6		0.95D		160B	0.056E						4.5
0.05 - 0.15 15.5		0.78D									4
0.15 - 0.4 21.5		0.34D									4.5
0.4 - 0.6 23.2		0.22D									4.9
0.6 - 0.8 26.7		0.18D									5.2
0.8 - 1.2 21.3		0.15D									8.1
1.2 - 1.8 5.6		0.05D									2.4

## Laboratory Analyses Completed for this profile

15_NR_BSa 15_NR_CMR	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded
15_NR_MN	Exchangeable bases (Mn++) - meq per 100g of soil - Not recorded
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	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	
	salts
15A1_NA	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 CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble

## salts

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_MN	Exchangeable bases (Mn2+) 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
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

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 15N1\_a 15N1\_b 18A1\_NR 3\_NR

Project Name: Project Code: Agency Name:	MRA Site ID: 0520 Observation 1
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
P10_NR_Z	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	160 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)