Project Name: Project Code: Agency Name:	JSI	ramungup soils i Sit riculture Westerr	e ID:	1155		bservatio	n ID:	1		
Site Information Desc. By:		Verheu		Locality:						
Date Desc.:	29/11/			Elevation:		No Data				
Map Ref.: Northing/Long.:	62427	715 AMG zone: 50		Rainfall: Runoff:		400 No Data				
Easting/Lat.: Geology	68045	59 Datum: AGD84		Drainage:		Moderatel	y well dı	rained		
ExposureType: Geol. Ref.:	Existii No Da	ng vertical exposure ata	•	Conf. Sub. is Substrate Ma			No Data No Data			
Land Form Rel/Slope Class:	Gentl	y undulating rises 9-	-30m 1-3	3%		Pattern T	ype:	Rises		
Morph. Type:	Mid-s			Relief: Slope Categ	0.71	No Data				
Elem. Type: Slope:	Hillslo 2 %			Aspect:	ory:	No Data 90 degree	S			
Surface Soil Co										
(stba	nk) (tu	ald) (sheet) (rill) (m nnel)	nass) (gi	ully)						
Soil Classificat Australian Soil C						1 l it-		N1/A		
		atric Red Sodosol				ng Unit: pal Profile F	Form:	N/A N/A		
ASC Confidence	-	data are available.		(Great \$	Soil Group	:	N/A		
<u>Site</u>	•	ltivation. Rainfed								
Vegetation:	_	0.400/						le (unisle stiffe	4). 0	
Surface Coarse 10%, , subangular,		s rock (unidentified)		avelly, 6-20mm	i, subai	ngular, Igne	eous roc	K (Unidentifie	d); 2-	
Profile				N 0.004 0						
Ap 0 - 0.14 r Sandy (grains	m	Dark brown (7.5YR						-		
subangular, Quartz,		prominent) fabric; I	Dry; Very	weak consiste	ence; 2	-10%, medi	um grav	/elly, 6-20mm	ι,	
		coarse fragments; Field pH 6.7 (pH meter); Clear change to -								
A21 0.14 - 0.2 of structure;	28 m	Dark reddish brown (5YR3/3-Moist); , 0-0% ; Coarse sandy clay loam; Single grain grade								
20mm,		Sandy (grains prominent) fabric; Dry; Very weak consistence; 2-10%, medium gravelly, 6-								
		subangular, Igneous rock (unidentified), coarse fragments; Field pH 6.5 (pH meter);								
Sharp change to -										
A3 0.28 - 0.4 Sandy (grains	46 m	Dark brown (7.5YR	83/4-Mois	st); , 0-0% ; Cla	iyey sa	nd; Single g	grain gra	ade of structu	re;	
Igneous rock		prominent) fabric; Dry; Loose consistence; 2-10%, medium gravelly, 6-20mm, subangular,								
Igneous rock		(unidentified), coarse fragments; Field pH 6.5 (pH meter); Sharp change to -								
B21b 0.46 - 0.6	68 m	n Dark reddish brown (5YR3/4-Moist); , 2.5YR48, 10-20% , 5-15mm, Distinct; Coarse sandy								
medium clay;		Massive grade of s	structure;	Sandy (grains	promir	nent) fabric;	Modera	ately moist; V	ery firm	
consistence; 2-		10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 7 (pH								
meter); Clear		change to -								
B3 0.68 - 1.2	25 m	Reddish brown (5Y	′R5/3-Mc	oist); Mottles, 2	.5Y62,	10-20% , 3	0-mm, [Distinct; Sand	y light	
medium clay;		Massive grade of s	structure;	Sandy (grains	promir	nent) fabric;	Modera	ately moist; F	irm	
consistence; 2-		10%, cobbly, 60-20			•	, .				
Abrupt change		to -	, 50		.,			, (þ.	···/,	
B4b 1.25 - 1.3	35 m	Brown (10YR5/3-N	laist): 2	5Y36 10-20%	5-15	mm Disting	t liaht	medium clav		
D-TO 1.20-1.3	00 111		1013t), , Z	.5150, 10-20%	, 5-15	, נוסטוונים	л, Light	inculuin cidy	J.	

Moderate grade of

structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm

consistence; 2-10%,

cobbly, 60-200mm, subangular, Igneous rock (unidentified), coarse fragments; Field pH

8.2 (pH meter);

Morphological Notes A3 B21b B4b

Discontinuity at A3/2B21. Organic staining or leached zone? app. 2cm ALSO Mottles FMD 2.5YR 4/8 Very greasy

Observation Notes Site Notes

Project Name: Project Code: Agency Name: Jerramungup soils inventory (=JER LRS) JSI Site ID: 1155 Observation ID: 1 Agriculture Western Australia

A deep sand over weathering laterite alturnative classification uc2.21 depth of sand = deep sand, but clay at 100cm; dy ?? [lab data suggests sandy duplex]

Project Name:	Jerramungup se	oils invento	ory (=JER LRS)		
Project Code:	JSI	Site ID:	1155	Observation	1
Agency Name:	Agriculture Wes	stern Austr	alia		

Laboratory Test Results:

Depth	рН	1:5 EC	E: Ca	xchangeab Mq	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	Wig	n		(+)/kg			%
0 - 0.14	5B 6H	10B	4.2H	0.82	0.37	0.58	0.06J		5.97D	
0.14 - 0.28	5.6B 6.3H	18B	2.8H	1.1	0.25	0.78	0.03J		4.93D	
0.28 - 0.46	6.1B 6.8H	20B	1.4A	0.95	0.18	0.4			2.93D	
0.46 - 0.68	6.4B 7.4H	40B	6.1A	9.9	0.76	3.4			20.16D	
0.68 - 1.25	7.4B 8.5H	22B	3E	5.3	0.48	4.2		14B	12.98D	30.00
1.25 - 1.35	7.3B 8.4H	46B	7.8E	16	1.2	14		44B	39D	31.82

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV I	Particle CS	Size FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.14 6.3		1.09D		120B	0.082E	1.6A					6.8
0.14 - 0.28		0.38D		89B	0.035E	1.8A					5.3
0.28 - 0.46 6.9		0.28D		84B	0.03E	1.7A					4.4
0.46 - 0.68 53.4		0.48D		67B	0.068E	1.5A					5.6
0.68 - 1.25 16.4	<2C	0.06D		120B	0.007E	2.1A					4.9
1.25 - 1.35 70.8	<2C	0.08D		50B	0.02E	1A					8.8

Laboratory Analyses Completed for this profile

12C1 15_NR_BSa 15_NR_CMR 15A1_CA for soluble	Calcium chloride extractable boron - manual colour Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - 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 salts
15A1_MG for soluble	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
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_CEC 15C1_K soluble salts	soluble salts CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for

soluble salts

	ble AI - by compulsive exchange, no pretreatment for soluble salts ble bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
salts	
15E1_K Exchangeat	ble bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG Exchangeat	ble bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MN Exchangeat	ble bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts
15E1_NA Exchangeat	ble bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Project Name: Project Code: Agency Name:	Jerramungup soils inventory (=JER LRS) JSI Site ID: 1155 Observation 1 Agriculture Western Australia
15J_BASES	Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1 a	and measured clay Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
17A1	Total Potassium - X-ray fluorescence
19B_NR	Calcium Carbonate (CaCO3) - 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 9A3	Total nitrogen - semimicro Kjeldahl, steam distillation Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
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
P10106_150	106 to 150u particle size analysis, (method not recorded)
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)