

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 1061 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Tim Overheu	Locality:	
Date Desc.:	27/09/94	Elevation:	337 metres
Map Ref.:		Rainfall:	325
Northing/Long.:	6333937 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	753736 Datum: AGD84	Drainage:	Moderately well drained

Geology

ExposureType:	Existing vertical exposure	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

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

Morph. Type:	No Data	Relief:	5 metres
Elem. Type:	Plain	Slope Category:	No Data
Slope:	2 %	Aspect:	270 degrees

Surface Soil Condition Soft

Erosion: (wind); (scald) (sheet) (rill) (mass) (gully)
(stbank) (tunnel)

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dy5.81
		Great Soil Group:	No suitable group

Site Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse 2-10%, medium gravelly, 6-20mm, subrounded, Gravel; No surface coarse fragments

Profile

Ap 0 - 0.12 m	Dark yellowish brown (10YR3/4-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; Water repellent; Field pH 6.8 (pH meter); Sharp change to -
B1 0.12 - 0.33 m	Yellowish brown (10YR5/8-Moist); Mottles, 10YR62, 2-10% , 5-15mm, Faint; Clayey sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 5.9 (pH meter); Clear change to -
B21 0.33 - 0.6 m	Brownish yellow (10YR6/8-Moist); Mottles, 10YR73, 2-10% , 0-5mm, Faint; Sandy clay loam; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 5.8 (pH meter); Abrupt change to -
2A21b 0.6 - 0.7 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Sandy clay loam; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Field pH 5 (pH meter);
2B21b 0.7 - 1.3 m	Yellowish brown (10YR5/6-Moist); Mottles, 5YR58, 20-50% , 5-15mm, Prominent; Sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak consistence; Field pH 5.5 (pH meter); Clear change to -
2B22b 1.3 - 1.6 m	Brownish yellow (10YR6/8-Moist); Mottles, 5YR58, 20-50% , 5-15mm, Prominent; Sandy light clay; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Weak consistence; 10-20%, cobbly,

60-200mm, subangular, Silcrete, coarse fragments; Field pH 6.1 (pH meter);

Morphological Notes

B21

OTHER COARSE FRAGMENTS = 15/1/A/QZ.

2B22b

OTHER COARSE FRAGMENTS = 35/1/A/QZ.

Observation Notes

Site Notes

Level to gently undulating plain possibly with some crab-hole country. Soil occurs as a complex - possibly small mounds - with a red loam earth on the outer rim and very gently inclined valley slope. Kopi soil complex (also on loc 1611 - t.

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.12	5.5B 6.8H	4B	2.9A	0.74	0.3	0.08		4J	4.02D	2.00
0.12 - 0.33	4.2B 5H	5B	0.94H	0.38	0.06	0.06	0.28J		1.44D	
0.33 - 0.6	4.1B 4.8H	5B	0.56H	0.33	0.04	0.04	0.42J		0.97D	
0.6 - 1.3	4.6B 5.4H	6B	0.45H	1.5	0.03	0.22	0.15J		2.2D	
1.3 - 1.6	4.7B 5.4H	6B	0.34H	1.7	0.02	0.29	0.06J		2.35D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.12		1.1D		93B	0.065E			3.2
0.12 - 0.33		0.26D		22B	0.024E			3.5
0.33 - 0.6		0.14D		15B	0.015E			2.9
0.6 - 1.3		0.16D		22B	0.017E			2.3
1.3 - 1.6		0.17D		18B	0.014E			4.1

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 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 Al - 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
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
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	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9H1	Anion storage capacity

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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)