

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 1165 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Tim Overheu	Locality:	
Date Desc.:	23/11/94	Elevation:	220 metres
Map Ref.:		Rainfall:	480
Northing/Long.:	6212809 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	671956 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:** Sand plain

Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition Loose

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:	Dy5.82
		Great Soil Group:	N/A

Site Cultivation. Rainfed

Vegetation:

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

Profile

Ap	0 - 0.14 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy fine sand; Single grain grade of structure;
Ferruginous, Medium (2		Sandy (grains prominent) fabric; Dry; Loose consistence; Common (10 - 20 %), -6 mm), Concretions; Field pH 6.2 (pH meter); Abrupt change to -
A21	0.14 - 0.43 m	Light yellowish brown (2.5Y6/4-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Sandy
Medium (2 -6		(grains prominent) fabric; Dry; Loose consistence; Very many (50 - 100 %), Ferruginous, mm), Concretions; Field pH 7 (pH meter); Clear change to -
B21	0.43 - 0.63 m	Brownish yellow (10YR6/6-Moist); Mottles, 10YR58, 10-20% , 0-5mm, Distinct; Light medium clay;
consistence; Many		Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Weak
change to -		(20 - 50 %), Ferruginous, Fine (0 - 2 mm), Concretions; Field pH 6.8 (pH meter); Clear
B22	0.63 - 1.22 m	Brownish yellow (10YR6/8-Moist); Mottles, 10YR63, 10-20% , 5-15mm, Prominent; Light medium clay;
Moderately moist; Weak		Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; consistence; Field pH 6.9 (pH meter);

Morphological Notes

Ap NOT WATER REPELLANT AS PER ADJACENT SITE 1145

Observation Notes

Site Notes

Site is on a floodplain between a creekline and valley slope. Deep, fine, loamy sand.

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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 - 0.14	4.8B 5.6H	6B	1.8H	0.51	0.17	0.2	0.1J		2.68D	
0.14 - 0.43	5.8B 7H	6B	0.91A	2	0.12	0.9			3.93D	
0.43 - 0.63	5.9B 7.1H	8B	0.95A	2.8	0.12	1.3			5.17D	
0.63 - 1.22	6.4B 7.8H	9B	1.6A	6.1	0.2	3.3			11.2D	

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 - 0.14		0.82D		44B	0.051E	0.47A		4.6
0.14 - 0.43		0.25D		24B	0.018E	0.36A		4.8
0.43 - 0.63		0.21D		24B	0.022E	0.25A		4
0.63 - 1.22		0.09D		30B	0.009E	0.27A		6.7

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	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_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 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
17A1	Total Potassium - X-ray fluorescence
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
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)

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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)