

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 1153 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Tim Overheu	Locality:	
Date Desc.:	22/11/94	Elevation:	100 metres
Map Ref.:		Rainfall:	550
Northing/Long.:	6197094 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	677951 Datum: AGD84	Drainage:	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
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Morph. Type:	No Data	Relief:	5 metres
Elem. Type:	Dunecrest	Slope Category:	No Data
Slope:	2 %	Aspect:	No Data

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Acidic Arenic Bleached-Orthic Tenosol		Principal Profile Form:	Uc2.21
ASC Confidence:		Great Soil Group:	N/A
All necessary analytical data are available.			

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

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

Ap	0 - 0.13 m	Dark grey (10YR4/1-Moist); , 0-0% ; Loamy fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Strongly water repellent, "Field pH 6.5 (pH meter); Abrupt change to -
A21e	0.13 - 0.56 m prominent)	Pale red (2.5YR6/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Field pH 5.2 (pH meter); Gradual change to -
A22e	0.56 - 1.45 m prominent)	Light grey (10YR7/2-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; Field pH 5.8 (pH meter); Clear change to -
B21	1.45 - 1.6 m grain grade of	Light red (2.5YR7/6-Moist); Mottles, 10YR68, 2-10% , 0-5mm, Faint; Fine sand; Single structure; Sandy (grains prominent) fabric; Moderately moist; Loose consistence; Field pH 6.2 (pH meter); Abrupt change to -
A3b	1.6 - 1.7 m structure; Sandy	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Clayey sand; Single grain grade of (grains prominent) fabric; Moderately moist; Loose consistence; Many (20 - 50 %), Ferruginous,
		Medium (2 -6 mm), Concretions; Field pH 6.2 (pH meter);

Morphological Notes

A22e FOR ANALYSES, SAND (A22)HORIZON WAS SUBDIVIDED (56-100), (100-145).

Observation Notes

Site Notes

Much rock. Silstone scattered on surface, see card for diagram.

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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 - 0.13	5.2B 6.1H	12B	2.6H	0.66	0.25	0.23	0.04J		3.74D	
0.13 - 0.56	4.4B 5.2H	2B	0.12H	0.04	0.02	0.08	0.04J		0.26D	
0.56 - 1	4.5B 5.1H	1B	0.02H	0.02	<0.02	0.04	0.04J		0.09D	
1 - 1.45	4.8B 5.2H	1B	<0.02H	0.03	<0.02	0.03	0.03J		0.08D	
1.45 - 1.6	4.9B 5.4H	1B	0.05H	0.03	0.03	0.05	0.1J		0.16D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS Silt %
0 - 0.13		1.16D		52B	0.065E	0.03A		1.1
0.5								
0.13 - 0.56		0.14D		<10B	0.009E	0.02A		1.9
0.9								
0.56 - 1		0.08D		<10B	0.006E	0.02A		1.3
0.2								
1 - 1.45		0.05D		<10B	0.006E	0.01A		1.1
0.2								
1.45 - 1.6		0.08D		13B	0.01E	0.02A		1.3
0.9								

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
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
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)
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)

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P106001000 600 to 1000u particle size analysis, (method not recorded)