

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 0539 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Tim Overheu	Locality:
Date Desc.: 22/03/94	Elevation: 16 metres
Map Ref.:	Rainfall: 600
Northing/Long.: 6187500 AMG zone: 50	Runoff: No Data
Easting/Lat.: 712800 Datum: AGD84	Drainage: Well drained

Geology

ExposureType: Soil pit	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: No Data

Land Form

Rel/Slope Class: Undulating plains <9m 3-10%	Pattern Type: Dunefield
Morph. Type: Simple-slope	Relief: No Data
Elem. Type: Duneslope	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:	Mapping Unit: N/A
Basic Regolithic Bleached-Orthic Tenosol	Principal Profile Form: Uc2.21
ASC Confidence:	Great Soil Group: Siliceous sand

Site Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse No surface coarse fragments; 2-10%, , subangular, Siltstone

Profile

Ap	0 - 0.25 m	Greyish brown (10YR5/2-Moist); , 0-0% ; Loamy fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Water repellent; Field pH 5.5 (pH meter);
A21 (grains)	0.25 - 0.7 m	Light grey (10YR7/2-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Sandy prominent) fabric; Moderately moist; Loose consistence; Field pH 6 (pH meter);
B21 (grains)	0.7 - 1.1 m	Olive yellow (2.5Y6/8-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Sandy prominent) fabric; Moderately moist; Loose consistence; Field pH 6.5 (pH meter);
C prominent)	1.1 - 1.2 m	White (10YR8/2-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Sandy (grains fabric; Moderately moist; Loose consistence; Field pH 6.5 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Effectively very much the same as last site and similar to site 527. Very flat landscape - looks like it would be very water logged during wet season. Profile; sand blown over a clay developing from the siltstone. Cutans present very distin

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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 - 0.28	4.8B 5.8H	4B	2.66H	0.57	<0.02	0.05	0.04J		3.29D	
0.28 - 0.7	5B 6.1H	1B	0.73H	0.15	<0.02	<0.02	0.06J		0.9D	
0.7 - 1.1	5.9B 6.8H	1B	0.38A	0.14	<0.02	0.02		<1J	0.55D	

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 - 0.28		1.02D		28B	0.064E			1.3
0.28 - 0.7		0.26D		16B	0.018E			0.9
0.7 - 1.1		0.15D		14B	0.011E			0.2

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
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

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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)