

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 0451 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Tim Overheu	Locality:	
Date Desc.:	21/02/94	Elevation:	20 metres
Map Ref.:		Rainfall:	600
Northing/Long.:	6190450 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	718300 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 rises 9-30m 1-3% **Pattern Type:** Sand plain

Morph. Type:	Mid-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:	Calcareous Arenic Grey-Orthic Tenosol	Mapping Unit:	N/A
ASC Confidence:	Analytical data are incomplete but reasonable confidence.	Principal Profile Form:	N/A
		Great Soil Group:	Calcareous sand

Site No effective disturbance other than grazing by hoofed animals

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1	0 - 0.25 m	Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy fine sand; Single grain grade of structure; Sandy (pH meter);
		(grains prominent) fabric; Dry; Loose consistence; Strongly water repellent, "Field pH 7.5
		Clear change to -
A21	0.25 - 0.5 m	Brown (10YR5/3-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Soil matrix is Slightly calcareous; Water repellent; Field pH 9 (pH meter);
		Gradual change to -
B21	0.5 - 1.1 m	Very pale brown (10YR7/3-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Soil matrix is Highly calcareous; Field pH 9.5 (pH meter);
		Gradual change to -
C	1.1 - 1.5 m	Pale yellow (2.5Y7/4-Moist); , 0-0% ; Clayey fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; Soil matrix is Highly calcareous; Field pH 9.7 (pH meter);

Morphological Notes

Observation Notes

Site Notes

From here it is hard to see but i think i am still on the sand plain plateau before the breakaway into the Pallinup catchment. Profile; must be a good soil to make dams out of with a damsite very nearby. Gravelly sand/columnar red/brown cl

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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 - 0.25	6.9B 7.7H	6B	5.9A	0.5	0.06	0.1		2J	6.56D	5.00
0.25 - 0.5	8B 9H	7B	1.84E	0.09	0.03	<0.02		2J	1.97D	
0.5 - 1.1	8.3B 9.3H	6B	1.98E	0.05	0.02	<0.02		1J	2.06D	
1.1 - 1.5	8.4B 9.5H	6B	1.53E	0.03	<0.02	<0.02		1J	1.58D	

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0 - 0.25	<2C	1.08D		24B	0.08E			
1.6								0.9
0.25 - 0.5	<2C	0.41D		21B	0.031E			0.6
1.5								
0.5 - 1.1	10C	0.24D		41B	0.023E			2.3
3.6								
1.1 - 1.5	10C	0.12D		41B	0.013E			1.5
3								

Laboratory Analyses Completed for this profile

12C1	Calcium chloride extractable boron - manual colour
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 (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_K	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15C1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15J_BA	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
19B_NR	Calcium Carbonate (CaCO ₃) - 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	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)