

**Project Name:** Jerramungup soils inventory (=JER LRS)  
**Project Code:** JSI **Site ID:** 0488 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Tim Overheu	<b>Locality:</b>	
<b>Date Desc.:</b>	04/03/94	<b>Elevation:</b>	180 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	400
<b>Northing/Long.:</b>	6230400 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	691000 Datum: AGD84	<b>Drainage:</b>	Well drained

#### Geology

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

#### Land Form

<b>Rel/Slope Class:</b>	Undulating rises 9-30m 3-10%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Upper-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	No Data
<b>Slope:</b>	5 %	<b>Aspect:</b>	No Data

#### Surface Soil Condition Loose

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

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Ferric Dystrophic Yellow Chromosol	<b>Principal Profile Form:</b>	Uc2.12
<b>ASC Confidence:</b>	<b>Great Soil Group:</b>	N/A

Analytical data are incomplete but reasonable confidence.

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

#### Vegetation:

**Surface Coarse** 0-2%, medium gravelly, 6-20mm, subrounded, Gravel; 0-2%, , subrounded, Gravel

#### Profile

Ap	0 - 0.15 m	Grey (10YR6/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent)
		fabric; Dry; Loose consistence; Strongly water repellent, "Field pH 4.8 (pH meter); Abrupt change to -
A21	0.15 - 0.5 m	Light grey (10YR7/1-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent)
		fabric; Dry; Loose consistence; Field pH 4.2 (pH meter); Clear change to -
A3	0.5 - 0.85 m	Very pale brown (10YR7/3-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; 50-90%, medium gravelly, 6-20mm, subangular, Ferricrete,
		coarse fragments; Field pH 4.9 (pH meter); Diffuse change to -
B21	0.85 - 1 m	Brownish yellow (10YR6/6-Moist); , 0-0% ; Sandy light clay; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; 50-90%, medium gravelly, 6-20mm, subangular,
		Ferricrete, coarse fragments; Field pH 4.9 (pH meter);

#### Morphological Notes

Ap	LOAMY COARSE SAND (LKS)
A21	COARSE SAND (KS).
A3	COARSE SAND (KS)
B21	COARSE SANDY CLAY (KSC)

#### Observation Notes

#### Site Notes

Notes; rocky duplex soil on valley slopes of gairdner river. Numerous small rock outcrops around the site. Profile; pretty much the same as the last site. Rocky surfaced duplex soil. Rock thr

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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 - 0.15	5.1B 6H	3B	1.11H	0.24	0.06	0.05	0.02J		1.46D	
0.15 - 0.5	4.6B 5.9H	1B	0.27H	0.07	<0.02	<0.02	0.08J		0.36D	
0.5 - 1	4.8B 5.9H	1B	0.16H	0.03	<0.02	0.03	0.05J		0.23D	

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 - 0.15		0.61D		61B	0.034E			1.7
1.3								
0.15 - 0.5		0.19D		19B	0.008E			1.4
0.9								
0.5 - 1		0.12D		20B	0.007E			1.6
0.7								

**Laboratory Analyses Completed for this profile**

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	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
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)
P106001000	600 to 1000u particle size analysis, (method not recorded)

