

**Project Name:** Jerramungup soils inventory (=JER LRS)  
**Project Code:** JSI **Site ID:** 0511 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Tim Overheu	<b>Locality:</b>	
<b>Date Desc.:</b>	16/03/94	<b>Elevation:</b>	65 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	500
<b>Northing/Long.:</b>	6203700 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	705350 Datum: AGD84	<b>Drainage:</b>	Poorly drained

#### Geology

<b>ExposureType:</b>	Auger boring	<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>	Level plain <9m <1%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	1 %	<b>Aspect:</b>	No Data

#### Surface Soil Condition Cracking

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

#### Soil Classification

<b>Australian Soil Classification:</b>	<b>Mapping Unit:</b>	N/A
Subnatic Yellow Sodosol	<b>Principal Profile Form:</b>	N/A
<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** 10-20%, medium gravelly, 6-20mm, subrounded, Gravel; 2-10%, , subrounded, Limestone

#### Profile

Apd 0 - 0.15 m mm, Polyhedral;  mm),	Dark grey (2.5Y4/1-Moist); , 0-0% ; Sandy clay loam; Moderate grade of structure, 2-5 Rough-ped fabric; Dry; Very firm consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Field pH 7.8 (pH meter); Abrupt change to -
B21tk 0.15 - 0.4 m clay; Strong Very few (0 - 2 8.8 (pH	Light yellowish brown (2.5Y6/4-Moist); , 2.5Y78, 2-10% , 0-5mm, Distinct; Sandy medium grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Dry; Very firm consistence; %), Calcareous, Fine (0 - 2 mm), Concretions; Soil matrix is Slightly calcareous; Field pH meter); Clear change to -
B22tk 0.4 - 0.6 m grade of structure, %), 9.1 (pH	Pale olive (5Y6/4-Moist); , 5Y82, 2-10% , 0-5mm, Faint; Light medium clay; Moderate 5-10 mm, Polyhedral; Rough-ped fabric; Moderately moist; Firm consistence; Few (2 - 10 Calcareous, Fine (0 - 2 mm), Concretions; Soil matrix is Moderately calcareous; Field pH meter);

#### Morphological Notes

#### Observation Notes

#### Site Notes

Upland plain before valley slopes of bremer river. Bertola's property. Profile; pit was dug to 50cm and augered rest of way. Clay very similar to the dempster s.s. Not enough a21 to collect for analysis.

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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	6.4B 7.2H	14B	9.84A	2.8	0.67	0.66		12J	13.97D	5.50
0.15 - 0.4	7B 8.4H	13B	14.41E	7.17	1.39	2.28		28J	25.25D	8.14
0.4 - 0.6	8.2B 9.2H	32B	11.89E	7.5	1.43	3.64		26J	24.46D	14.00

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		1.79D		220B	0.133E			4.2
18.1								
0.15 - 0.4	<2C	0.7D		45B	0.043E			5.3
54.9								
0.4 - 0.6	<2C	0.34D		41B	0.031E			3
54.4								

**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_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_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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,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_BASES	Sum of Bases
15L1_a	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using and measured clay
Sum of Cations	
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 (CaCO3) - 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
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)

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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)