

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 1159 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Tim Overheu	Locality:	
Date Desc.:	28/11/94	Elevation:	250 metres
Map Ref.:		Rainfall:	385
Northing/Long.:	6257510 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	672986 Datum: AGD84	Drainage:	Imperfectly 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:** Plain

Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition Hardsetting

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

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mesotrophic Mesonatric Yellow Sodosol		Principal Profile Form:	Dy5.42
ASC Confidence:		Great Soil Group:	Solodized

solonetz

No analytical data are available but confidence is fair.

Site Cultivation. Rainfed

Vegetation:

Surface Coarse 2-10%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile

Ap	0 - 0.12 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy subangular, Quartz, coarse fragments; Field pH 6.5 (pH meter); Abrupt change to -
A21	0.12 - 0.3 m	Light grey (10YR7/2-Moist); , 7.5YR78, 0-2% , 0-5mm; Sand; Strong grade of structure, Columnar; Smooth-ped fabric; Dry; Very firm consistence; Field pH 6.2 (pH meter); Abrupt, Tongued change to -
B21	0.15 - 0.45 m	Brownish yellow (10YR6/6-Moist); , 7.5YR78, 0-2% , 0-5mm; Light medium clay; Strong grade of structure, 20-50 mm, Columnar; Smooth-ped fabric; Moderately moist; Very firm consistence; Field pH 6.9 (pH meter); Clear change to -
B22	0.45 - 0.75 m	Brownish yellow (10YR6/6-Moist); , 10YR81, 2-10% , 5-15mm, Faint; Moderately moist; Firm consistence; Field pH 6.5 (pH meter); Clear change to -
B23	0.75 - 1.2 m	Very pale brown (10YR7/4-Moist); , 2.5YR58; Moderately moist; Firm consistence; Field pH 5.5 (pH meter); Sharp change to -
R	1.2 - 1.4 m	Rock

Morphological Notes

Ap ALSO Coarse fragments - 21U G
 A21 occurs as a thin veneer over the tops of the clay domes
 B21 Domes may have Sec. struc- rough polyhedral structure, medium size
 R Same bedrock as at site 1157

Observation Notes

Site Notes

Fluvial/colluvial landscape over deeply weathered kaolinitic clay zone a sandy clay loam, very hard digging,

backhoe hit granitic layer at 80cm

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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 - 0.12	4.6B	4B								
	5.4H									
0.12 - 0.25	4.9B	6B								
	6H									
0.25 - 0.45	5.2B	87B								
	6H									
0.45 - 0.75	5.8B	30B								
	6.8H									
0.75 - 1.2	5B	94B								
	5.6H									
1.2 - 1.4	5B	98B								
	5.6H									

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 - 0.12		1D		75B	0.042E	0.46A		93I	3.5
3.5									
0.12 - 0.25		0.58D		34B	0.019E	0.52A		91I	5.5
3.5									
0.25 - 0.45		0.27D		25B	0.011E	0.56A		53.5I	4.5
42									
0.45 - 0.75		0.73D		28B	0.024E	0.52A		66.5I	5
28.5									
0.75 - 1.2		0.11D		25B	0.014E	0.91A		58.5I	4.5
37									
1.2 - 1.4		0.2D		44B	0.009E	0.59A		53.5I	11
35.5									

Laboratory Analyses Completed for this profile

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_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded