Project Name: **Jerramungup soils inventory (=JER LRS)**
Project Code: **JSI** **Site ID:** **1140** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Tim Overheu
Date Desc.: 29/11/94
Map Ref.:
Northing/Long.: 6239289 AMG zone: 50
Easting/Lat.: 682273 Datum: AGD84
Locality:
Elevation: No Data
Rainfall: 400
Runoff: No Data
Drainage: Moderately well drained

Geology

ExposureType: Existing vertical exposure
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: Gently undulating rises 9-30m 1-3%
Pattern Type: Rises

Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: %
Relief: 15 metres
Slope Category: No Data
Aspect: No Data

Surface Soil Condition

Soft

Erosion:

(wind); (scald) (sheet) (rill) (gully) (stbank) (tunnel)

Soil Classification

Australian Soil Classification:
Sodic Calcic Brown Dermosol
ASC Confidence:
No analytical data are available but confidence is fair.
Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site

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

Vegetation:

Surface Coarse

2-10%, medium gravelly, 6-20mm, subangular, Igneous rock (unidentified); 2-10%, , subangular, Igneous rock (unidentified)

Profile

Ap	0 - 0.1 m	Very dark brown (10YR2/2-Moist); , 0-0% ; Sandy loam; Single grain grade of structure; Earthy fabric; Dry; Loose consistence; Field pH 6.9 (pH meter); Abrupt change to -
B1	0.1 - 0.18 m	Very dark brown (10YR2/2-Moist); , 0-0% ; Sandy light clay; Single grain grade of structure; Earthy fabric; Dry; Very weak consistence; Field pH 7.3 (pH meter); Clear, Wavy change to -
B2	0.18 - 0.2 m	; Single grain grade of structure; Earthy fabric; Dry; Abrupt change to -
2B21b	0.2 - 0.45 m	Dark brown (7.5YR3/4-Moist); Mottles, 10YR53, 2-10% , 0-5mm, Faint; Coarse sandy medium clay; Strong grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Very firm consistence; Field pH 8.1 (pH meter); Clear change to -
2B22b	0.45 - 0.66 m	Dark yellowish brown (10YR4/6-Moist); Mottles, 10YR82, 20-50% , 15-30mm, Distinct; Light clay; Moderately moist; Firm consistence; Soil matrix is Moderately calcareous; Field pH 8.6 (pH meter); Abrupt change to -
2C1b	0.66 - 1.4 m	Dark yellowish brown (10YR4/4-Moist); Mottles, 5Y42, 10-20% , 30-mm, Distinct; Clay loam, sandy; Moderately moist; Firm consistence; Field pH 8.7 (pH meter); Clear change to -
D	1.4 - 1.66 m	Olive brown (2.5Y4/4-Moist); ; Clayey coarse sand; Moderately moist; Firm consistence; Field pH 8.3 (pH meter);
	1.66 - 1.67 m	;

Morphological Notes

layer added for completeness - TG April 2012

Observation Notes

Site Notes

Upper slope within landscape. Rock outcrops are numerous. Dominant vegetation is sheoak. Sheoak soil = an orangey coloured gritty or
coarse sand over clay. This site is a shallow phase.

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Project Code: JSI **Site ID:** 1140 **Observation** 1
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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	5.7B 6.7H	8B								
0.1 - 0.25	6.2B 7.4H	4B								
0.25 - 0.45	7.1B 8.6H	12B								
0.45 - 0.66	8.5B 9.5H	48B								
0.66 - 1.4	7.6B 9.2H	10B								
1.4 - 1.66	4.6B 6.2H	8B								
1.66 - 1.66	4.6B 5.7H	20B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size CS	FS	Analysis Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.18		1.96D		150B	0.123E	1.5A			79I		13	
0.1 - 0.259		0.75D		100B	0.06E	1.4A			78.5I		12.5	
0.25 - 0.45 27.5	<2C	0.39D		69B	0.035E	1A			62.5I		10	
0.45 - 0.66 36.5	4C	0.16D		100B	0.024E	0.82A			52.5I		11	
0.66 - 1.4 12.5	<2C	0.06D		140B	0.013E	0.59A			80I		7.5	
1.4 - 1.667		0.09D		230B	0.012E	0.52A			86.5I		6.5	
1.66 - 1.66 34		0.32D		150B	0.034E	0.54A			59.5I		6.5	

Laboratory Analyses Completed for this profile

17A1	Total Potassium - X-ray fluorescence
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_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded