

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 1151 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Tim Overheu	Locality:	
Date Desc.:	02/12/94	Elevation:	No Data
Map Ref.:		Rainfall:	500
Northing/Long.:	6210077 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	700338 Datum: AGD84	Drainage:	Moderately 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:	Undulating rises 9-30m 3-10%	Pattern Type:	Rises
Morph. Type:	Upper-slope	Relief:	15 metres
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	5 %	Aspect:	45 degrees

Surface Soil Condition Loose

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

Soil Classification

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

solonetz

All necessary analytical data are available.

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

Vegetation:

Surface Coarse 2-10%, medium gravelly, 6-20mm, subrounded, Gravel; 2-10%, , subangular, Siltstone

Profile

Ap	0 - 0.08 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy fine sand; Single grain grade of structure; Sandy
		(grains prominent) fabric; Dry; Loose consistence; 2-10%, medium gravelly, 6-20mm, subangular,
		Siltstone, coarse fragments; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Concretions; Water repellent; Field pH 6.2 (pH meter); Abrupt change to -
A21	0.08 - 0.32 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Sandy
		(grains prominent) fabric; Dry; Loose consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm),
		Concretions; Field pH 6.4 (pH meter); Abrupt, Tongued change to -
B21	0.12 - 0.4 m	Strong brown (7.5YR5/8-Moist); Mottles, 5YR68, 0-2% , 0-5mm, Faint; Medium clay; Strong grade of
		structure, 50-100 mm, Columnar; Smooth-ped fabric; Dry; Very firm consistence; Very few (0 - 2 %),
		Ferruginous, Fine (0 - 2 mm), Concretions; Field pH 6 (pH meter); Clear change to -
B22	0.4 - 0.8 m	Strong brown (7.5YR5/8-Moist); Mottles, 5YR58, 2-10% , 0-5mm, Distinct; Light medium clay; Moderate
		grade of structure, 2-5 mm, Polyhedral; Rough-ped fabric; Moderately moist; Firm consistence; 20-50%,
		medium gravelly, 6-20mm, angular, Siltstone, coarse fragments; Field pH 5.6 (pH meter); Clear change
		to -
C	0.8 - 1.3 m	Yellowish brown (10YR5/8-Moist); Mottles, 5YR58, 10-20% , 0-5mm, Prominent; Light clay; Weak grade
		of structure; Moderately moist; Firm consistence; 20-50%, cobbly, 60-200mm, subangular, Siltstone,
		coarse fragments; Field pH 4.7 (pH meter);

Morphological Notes

Ap GRAVELLY

A21	GRAVELLY. SOIL PEEL!	
B21	TOP OF CLAY HORIZON ORGANICALLY STAINED	Upper depth was 12
B22	SPONGEOLITE SPICULES VERY DISTINCT IN B22 / C HORIZON	
C	SILSTONE FLOATERS, OVER A D HORIZON ?	

Observation Notes

Site Notes

A dolerite soil, but not the distinct red type found further north, but an incipid brownish colour. Stock has trampled surface when wet, and possibly some cultivation at one stage has increased the surface texture. 90% of tuckers farm (toge

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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 - 0.08	5B 6H	10B	2.3H	0.88	0.21	0.36	0.09J		3.75D	
0.08 - 0.2	4.9B 6.4H	4B	0.64H	0.53	0.06	0.45	0.05J		1.68D	
0.2 - 0.4	5.8B 6.8H	37B	1.4A	7.1	0.46	4.2		13B	13.16D	32.31
0.4 - 0.8	4.6B 5.3H	110B	1.3H	10	0.31	8.5	0.07J		20.11D	
0.8 - 1.3	4B 4.4H	220B	0.95H	9.3	0.23	6.6	0.46J		17.08D	

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 - 0.08		1.71D		110B	0.106E	0.3A		2.1
2.5								
0.08 - 0.2		0.66D		35B	0.029E	0.29A		2.1
2.1								
0.2 - 0.4		0.36D		24B	0.018E	0.4A		1.8
26								
0.4 - 0.8		0.26D		38B	0.009E	1.1A		7.7
39.5								
0.8 - 1.3		0.21D		38B	0.011E	1.5A		8.9
29								

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
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_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
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
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
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

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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)