

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 0621 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Tim Overheu	Locality:
Date Desc.: 06/05/94	Elevation: 118 metres
Map Ref.:	Rainfall: 600
Northing/Long.: 6187010 AMG zone: 50	Runoff: No Data
Easting/Lat.: 653211 Datum: AGD84	Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: Level plain <9m <1%	Pattern Type: Sand plain
Morph. Type: Flat	Relief: 5 metres
Elem. Type: Plain	Slope Category: No Data
Slope: %	Aspect: No Data

Surface Soil Condition

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

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Dy5.8
	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, subrounded, Gravel; 10-20%, , subrounded, Ferricrete

Profile

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy fine sand; Single grain grade of structure;
Medium (2 -6		Sandy (grains prominent) fabric; Dry; Loose consistence; Very few (0 - 2 %), Ferruginous, mm), Concretions; Water repellent; Abrupt change to -
A21	0.1 - 0.2 m	Light brownish grey (10YR6/2-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; Abrupt change to -
A22	0.2 - 0.5 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Fine sand; Single grain grade of
structure; Sandy		(grains prominent) fabric; Dry; Loose consistence; Many (20 - 50 %), Ferruginous, Coarse
(6 - 20 mm),		Concretions; Sharp change to -
B1	0.5 - 1.2 m	Brownish yellow (10YR6/8-Moist); , 7.5YR58, 20-50% , 0-5mm, Distinct; Clayey sand;
Massive grade of		structure; Sandy (grains prominent) fabric; Dry; Very firm consistence; 2-10%, coarse
gravelly, 20-		60mm, subrounded, Ferricrete, coarse fragments; Very many (50 - 100 %), Ferruginous,
Medium (2 -6		mm), Concretions;
B21	1.2 - 1.6 m	Olive yellow (2.5Y6/6-Moist); Mottles, 2.5YR48, 20-50% , 30-mm, Prominent; Light
medium clay;		Moderately moist; Firm consistence; 0-2%, coarse gravelly, 20-60mm, subangular,
Siltstone, coarse		fragments; Soil matrix is Slightly calcareous;

Morphological Notes

Observation Notes

Site Notes

Level plain, chillinup land system. Soil is very similar to last site except conglomerate is far more prominent.

Shallow gravelly sand over
conglomerate over clay and siltstone (refer to diagram)

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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 - 0.1	4.6B 5.7H	5B	2.39H	0.55	0.13	0.06	0.23J		3.13D	
0.1 - 0.2	4.5B 5.6H	2B	0.58H	0.13	<0.02	0.02	0.29J		0.74D	
0.2 - 0.5	4.6B 5.6H	2B	0.65H	0.13	0.02	0.05	0.32J		0.85D	
0.5 - 1.2	5.8B 6.2H	6B	0.8H	0.66	0.16	0.36	0.02J		1.98D	
1.2 - 1.6	6.4B 7.3H	12B	1.38A	3.96	0.45	1.48		6J	7.27D	24.67

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 - 0.1		1.71D		140B	0.118E			0.6
3.3								
0.1 - 0.2		0.57D		38B	0.029E			0.6
4.1								
0.2 - 0.5		0.64D		41B	0.031E			0.6
5.7								
0.5 - 1.2		0.4D		43B	0.021E			3.2
7.2								
1.2 - 1.6		0.1D		34B	0.01E			4.7
63.8								

Laboratory Analyses Completed for this profile

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_CMV	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
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
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

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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)