

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 0622 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Tim Overheu	Locality:	
Date Desc.:	06/05/94	Elevation:	104 metres
Map Ref.:		Rainfall:	600
Northing/Long.:	6187390 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	653610 Datum: AGD84	Drainage:	Moderately well 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: Gently undulating plains <9m 1-3% **Pattern Type:** Sand plain

Morph. Type:	No Data	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 0-2%, medium gravelly, 6-20mm, subrounded, Gravel; No surface coarse fragments

Profile

A1	0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Loamy fine sand; Single grain grade of structure; Sandy (0 - 2 mm),
		(grains prominent) fabric; Dry; Loose consistence; Very few (0 - 2 %), Ferruginous, Fine Concretions; Strongly 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 mm),
		prominent) fabric; Dry; Loose consistence; Many (20 - 50 %), Ferruginous, Medium (2 -6 mm), Concretions; Abrupt change to -
A3	0.2 - 0.6 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Fine sand; Single grain grade of structure; Sandy subangular, Concretions;
		(grains prominent) fabric; Dry; Loose consistence; 20-50%, medium gravelly, 6-20mm, Ferricrete, coarse fragments; Very many (50 - 100 %), Ferruginous, Medium (2 -6 mm), Sharp change to -
B21	0.6 - 1 m	Olive yellow (2.5Y6/8-Moist); Mottles, 10YR72, 10-20% , 15-30mm, Distinct; Light medium clay; Strong Firm consistence;
		grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Sharp change to -
B22	1 - 1.2 m	Light grey (10YR7/2-Moist); Mottles, 2.5YR56, 10-20% , 5-15mm, Prominent; Sandy light medium clay; moist; Very firm
		Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments;

Morphological Notes

Observation Notes

Site Notes

Shallow gravel on chris gilmours, pretty much the same as on bill o'mearahs. Thus only limited samples taken for comparison (photograph taken). Grey sand over conglomerate ironstone (indurated layer) over clay. In the b21 (clay horizon) t

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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	5.1B 5.8H	21B	5.74H	1.11	0.31	0.42	0.04J		7.58D	
0.2 - 0.6	6.4B 7.9H	5B	1.29A	1.29	0.16	0.51		2J	3.25D	25.50
0.6 - 1	8.4B 9.2H	53B	1.51E	2.72	0.68	2.5		8J	7.41D	31.25
1 - 1.2	8.4B 9.1H	74B	0.97E	2.21	0.56	2.34		5J	6.08D	46.80

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		3.34D		270B	0.255E			
0.2 - 0.6		0.62D		41B	0.04E			
0.6 - 1	1C	0.26D		25B	0.018E			
1 - 1.2	<2C	0.05D		12B	0.005E			

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	
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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded

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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)
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)