

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 1143 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Tim Overheu	Locality:	
Date Desc.:	25/10/94	Elevation:	160 metres
Map Ref.:		Rainfall:	485
Northing/Long.:	6213600 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	688271 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: Gently undulating rises 9-30m 1-3% **Pattern Type:** Rises

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

Surface Soil Condition Hardsetting, Hardsetting

Erosion: (wind); (mass) (stbank)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Mottled-Sodic Calcareous Brown Dermosol		Principal Profile Form:	Dy3
ASC Confidence:		Great Soil Group:	N/A
All necessary analytical data are available.			

Site Cultivation. Rainfed

Vegetation:

Surface Coarse 20-50%, medium gravelly, 6-20mm, subangular, Igneous rock (unidentified); 2-10%, , subangular, Igneous rock (unidentified)

Profile

Ap	0 - 0.07 m	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy loam; Single grain grade of structure; Sandy
		(grains prominent) fabric; Dry; Weak consistence; Field pH 6.1 (pH meter); Sharp change to -
B21	0.07 - 0.3 m	Red (2.5YR5/6-Moist); , 2-10% , 0-5mm, Faint; Clay loam, sandy; Moderate grade of structure, 10-20
		mm, Prismatic; Strong grade of structure, 5-10 mm, Subangular blocky; Rough-ped fabric; Dry; Very firm
		consistence; Soil matrix is Slightly calcareous; Field pH 8.3 (pH meter); Clear change to -
B22	0.3 - 0.52 m	Brownish yellow (10YR6/6-Moist); ; Light medium clay; Moderate grade of structure, 5-10 mm,
		Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Soil matrix is Slightly
		calcareous; Field pH 9.3 (pH meter); Clear change to -
B23	0.52 - 1.05 m	Yellow (10YR7/8-Moist); Mottles, 10YR72, 20-50% , 0-5mm, Distinct; Mottles, 10YR68, 2-10% , 0-5mm,
		Distinct; Sandy light medium clay; Moderate grade of structure, 2-5 mm, Subangular
		blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Soil matrix is Slightly calcareous; Field pH 9
		(pH meter); Clear change to -
C	1.05 - 1.4 m	Brownish yellow (10YR6/8-Moist); Mottles, 2.5YR48, 10-20% , 30-mm, Prominent; Light medium clay;
		Firm consistence; Soil matrix is Slightly calcareous; Field pH 8.1 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Yate depression / swamp. Sandy gravel over reddish yellow domed clay. Top soil is more of a loam than sand.

Typical lower sandplain
country.

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 1143 **Observation** 1
Agency Name: Agriculture Western Australia

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 - 0.07	5B	28B	4.8H	1.9	0.24	0.37	0.08J		7.31D	
	5.6H									
0.07 - 0.3	7.3B	42B	3.9E	7.8	0.88	3.4		18B	15.98D	18.89
	8.2H									
0.3 - 0.52	8.1B	60B	1.9E	6.6	1.2	6.2		19B	15.9D	32.63
	9H									
0.52 - 1.05	7.9B	69B	0.93E	5.9	1.1	6.2		17B	14.13D	36.47
	8.8H									
1.05 - 1.4	7.6B	120B	0.46E	4.6	0.74	5.7		13B	11.5D	43.85
	8.4H									

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 - 0.07		1.8D		240B	0.134E	0.27A		3.7
0.07 - 0.3	<2C	0.34D		36B	0.029E	0.57A		2.4
0.3 - 0.52	<2C	0.07D		20B	0.008E	0.64A		3.1
0.52 - 1.05	<2C	0.05D		20B	0.007E	0.55A		3.2
1.05 - 1.4	<2C	0.05D		20B	0.006E	0.54A		9.2

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_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	
	soluble salts
15C1_CEC	CEC - 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
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

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 1143 **Observation** 1
Agency Name: Agriculture Western Australia

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)