Project Name: **Jerramungup soils inventory (=JER LRS)**
Project Code: **JSI** **Site ID:** **1148** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Tim Overheu	**Locality:**	
Date Desc.:	17/11/94	**Elevation:**	120 metres
Map Ref.:		**Rainfall:**	500
Northing/Long.:	6203284 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	681387 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: Gently undulating plains <9m 1-3% **Pattern Type:** Plain

Morph. Type:	No Data	**Relief:**	2 metres
Elem. Type:	Plain	**Slope Category:**	No Data
Slope:	2 %	**Aspect:**	No Data

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification:
Ferric-Sodic Mesotrophic Yellow Chromosol
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dy5.82
Great Soil Group: N/A

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

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

Ap 0 - 0.08 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy fine sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Concretions; Strongly water repellent, "Field pH 6.6 (pH meter); Abrupt change to -

A21 0.08 - 0.11 m Brown (10YR5/3-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 6.9 (pH meter); Clear change to -

A22 0.11 - 0.28 m Light yellowish brown (10YR6/4-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; Very many (50 - 100 %), Ferruginous, Very coarse (20 - 60 mm), Concretions; Field pH 7.4 (pH meter); Clear change to -

A3 0.28 - 0.38 m Very pale brown (10YR7/4-Moist); , 0-0% ; Sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Very weak consistence; Very many (50 - 100 %), Ferruginous, Medium (2 -6 mm), Concretions; Field pH 7.6 (pH meter); Clear change to -

B21 0.38 - 0.7 m Brownish yellow (10YR6/6-Moist); Mottles, 10YR72, 2-10% , 0-5mm, Distinct; Clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moderately moist; Firm consistence; 2-10%, coarse gravelly, 20-60mm, subangular, Gravel, coarse fragments; Common (10 - 20 %), Ferruginous, Fine (0 - 2 mm), Concretions; Field pH 7.6 (pH meter); Abrupt change to -

B22 0.7 - 1.1 m Brownish yellow (10YR6/8-Moist); Mottles, 10YR72, 20-50% , 15-30mm, Distinct; Light medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; Firm consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Field pH 7.6

(pH meter);

Morphological Notes

A22 GRAVEL IN A2 HORIZONS ARE MIXED IN SIZES, MOSTLY 5-10MM.

Observation Notes

Site Notes

Shallow red/brown domed clay, with a distict acumulation layer of carbonate possibly suggesting that site is often inundated for long part of
season. Canola growing in adjacent padocks. Couldn't get enough of a21 for a sample. Granite frag

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.08	4.8B 5.5H	11B	3.3H	0.97	0.22	0.2	0.15J		4.69D	
0.11 - 0.28	5.1B 6H	6B	1.5H	0.55	0.19	0.17	0.08J		2.41D	
0.28 - 0.38	5.8B 6.6H	9B	1.4A	1.5	0.32	0.53			3.75D	
0.38 - 0.7	6B 6.6H	9B	1.5A	2.3	0.34	0.69			4.83D	
0.7 - 1.1	6.1B 6.8H	9B	1.5A	2.7	0.3	0.86			5.36D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.08 4.1		2.66D		110B	0.197E	0.13A					4.5
0.11 - 0.28 8		0.66D		34B	0.038E	0.15A					2.7
0.28 - 0.38 26		0.25D		30B	0.02E	0.21A					3
0.38 - 0.7 36.2		0.24D		30B	0.018E	0.27A					4.2
0.7 - 1.1 34.7		0.16D		42B	0.012E	0.2A					5.3

Laboratory Analyses Completed for this profile

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
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_CEC	Exchangeable bases (CEC) - 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
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)