Project Name: **Jerramungup soils inventory (=JER LRS)**
Project Code: **JSI** **Site ID:** **0128** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Tim Overheu	**Locality:**	
Date Desc.:	28/04/93	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6284820 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	749130 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 plains <9m 1-3% **Pattern Type:** Plain

Morph. Type:	Lower-slope	**Relief:**	No Data
Elem. Type:	Fan	**Slope Category:**	No Data
Slope:	%	**Aspect:**	No Data

Surface Soil Condition

Loose

Erosion:

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

Soil Classification

Australian Soil Classification: N/A
ASC Confidence: Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dy5.23
Great Soil Group: Solodized solonetz

Site

Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse

No surface coarse fragments; No surface coarse fragments

Profile

Ap 0 - 0.15 m Dark grey (10YR4/1-Moist); , 0-0% ; Loamy fine sand; Sandy (grains prominent) fabric; Dry; Loose consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Water repellent; Field pH 6.6 (pH meter);

A21 0.15 - 0.27 m Pinkish grey (7.5YR6/2-Moist); , 0-0% ; Fine sand; Sandy (grains prominent) fabric; Dry; Loose consistence; Field pH 7.6 (pH meter);

B21 0.27 - 0.5 m Yellowish brown (10YR5/4-Moist); , 10YR61, 10-20% , 5-15mm, Prominent; Light medium clay; Moderate grade of structure, 50-100 mm, Columnar; Weak grade of structure, 2-5 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Very firm consistence; Field pH 9.2 (pH meter);

B22 0.5 - 1.8 m Brownish yellow (10YR6/6-Moist); , 10YR56, 10-20% , 5-15mm, Prominent; , 10YR72; Light clay; Moderately moist; Firm consistence; 0-2%, stony, 200-600mm, subrounded, Calcrete, coarse fragments; Field pH 10 (pH meter);

Morphological Notes

B21 ALSO STRUCTURE PW2 SB R

Observation Notes

Site Notes

Wr03 deep sand/domed clay dave eberts. Along paddock mdry-koornong rd sand/clay

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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 - 0.15	4.9B 6H	7B	1.62H	0.39	0.07	0.26	0.04J		2.34D	
0.15 - 0.27	5.8B 7.3H	2B	0.37A	0.16	0.02	0.16		1J	0.71D	16.00
0.27 - 0.5	8.2B 9.2H	59B	0.39E	4.15	0.94	6.92		12J	12.4D	57.67

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.15		0.89D		55B	0.073E						2.3
2.3											
0.15 - 0.27		0.18D		11B	0.013E						2.5
1.3											
0.27 - 0.5	<2C	0.03D		20B	0.004E						7.1
39											

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 ($CaCO_3$) - 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

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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)