Project Name: Jerramungup soils inventory (=JER LRS)

Project Code: Observation ID: 1 JSI Site ID: 1157

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Tim Overheu Locality:

Date Desc.: 09/11/94 Elevation: 248 metres Map Ref.: Rainfall: 400

Northing/Long.: 6253062 AMG zone: 50 Runoff: No Data

682501 Datum: AGD84 Drainage: Imperfectly drained Easting/Lat.:

Geology

ExposureType: Auger boring Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: **Substrate Material:** No Data No Data

Land Form

Rel/Slope Class: Gently undulating plains <9m 1-3% Pattern Type: Plain

Morph. Type: Simple-slope Relief: No Data Plain Slope Category: No Data Elem. Type: Slope: Aspect: No Data %

Condition Surface Soil Hardsetting

(wind); (scald) (sheet) (rill) (mass) (qully) **Erosion:**

(stbank) (tunnel)

Soil Classification

Australian Soil Classification: N/A Mapping Unit: Mesotrophic Mottled-Mesonatric Grey Sodosol **Principal Profile Form:** Dy5.42 **ASC Confidence: Great Soil Group:** Solodized

solonetz

All necessary analytical data are available.

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

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

0 - 0.1 m Dark greyish brown (10YR4/2-Moist); , 0-0%; Sandy loam; Single grain grade of structure; Sandy

(grains prominent) fabric; Dry; Very weak consistence; 0-2%, fine gravelly, 2-6mm,

angular, Quartz, coarse fragments; Field pH 6.8 (pH meter); Abrupt change to -

A21 structure; Sandy

Light brownish grey (10YR6/2-Moist); , 0-0%; Coarse sand; Single grain grade of 0.1 - 0.3 m

(grains prominent) fabric; Dry; Very weak consistence; 2-10%, fine gravelly, 2-6mm,

angular, Quartz,

coarse fragments; Field pH 6.9 (pH meter); Abrupt change to -

0.2 - 0.55 m B21

Medium clay;

Light brownish grey (2.5Y6/2-Moist); Mottles, 5YR58, 10-20%, 15-30mm, Prominent;

Strong grade of structure, 50-100 mm, Columnar; Smooth-ped fabric; Moderately moist;

Very firm

consistence; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 6.7

(pH meter); Clear change to -

0.55 - 0.75 m **B22**

medium clay; Strong

Light olive grey (5Y6/2-Moist); Mottles, 5YR56, 10-20%, 30-mm, Prominent; Light

grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist;

Very firm consistence; 0-2%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Field

pH 6.7 (pH

meter); Abrupt change to -

C 0.75 - 1.4 m

White (10YR8/2-Moist); Mottles, 10YR68, 2-10%, 15-30mm, Distinct; Moderately moist;

Field pH 6.8

Firm

consistence; 2-10%, coarse gravelly, 20-60mm, subangular, Granulite, coarse fragments;

(pH meter);

Morphological Notes

Observation Notes

Site Notes

Relatively high point in the landscape overlooking areas to the south similar to a yate soil, gritty red/brown loam over clay(maybe buried horizon

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Laboratory Test Results:

Depth	рН	1:5 EC	Ex Ca	changeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	- Cu	···g			(+)/kg			%
0 - 0.1	4.3B 5.2H	5B	1.1H	0.27	0.14	0.15	0.3J		1.66D	
0.1 - 0.25	4.6B 5.4H	2B	0.29H	0.19	0.04	0.04	0.09J		0.56D	
0.25 - 0.55	4.9B 5.7H	40B	0.74H	3.4	0.16	1.5	0.11J		5.8D	
0.55 - 0.75	6.9B 7.8H	52B	0.54A	2.8	0.25	2			5.59D	
0.75 - 1.4	6.8B 7.2H	240B	0.38E	2.4	0.18	1.2			4.16D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	G۷		ze Analysis S Silt
m	%	%	mg/kg	%	%	%	Mg/m3		•	%
0 - 0.1 4.6		1.07D		84B	0.065E	0.92A				4.2
0.1 - 0.25 2.6		0.25D		21B	0.013E	1A				3.2
0.25 - 0.55 53.7		0.27D		31B	0.022E	0.65A				2.5
0.55 - 0.75 47.4		0.05D		20B	0.009E	0.89A				3.6
0.75 - 1.4 28.5		0.05D		21B	<0.005E	1A				8.3

Laboratory Analyses Completed for this profile

15_NR_BSa 15_NR_CMR 15A1_CA	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	
	salts
15A1_CEC 15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_MN salts	Exchangeable bases (Mn2+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15C1_CA pretreatment for	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
	soluble salts
15E1_AL 15E1_CA salts	Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_K 15E1_MG 15E1_MN 15E1_NA 15J BASES	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Sum of Bases
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
	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

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Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen - semimicro Kjeldahl, steam distillation Total Phosphorus (ppm) - semimicro kjeldahl, automated colour 6A1_UC 7A1 9A3

9H1 Anion storage capacity

P10_1m2m 1000 to 2000u particle size analysis, (method not recorded) P10_20_75 P10_75_106 P10_NR_C 20 to 75u particle size analysis, (method not recorded) 75 to 106u particle size analysis, (method not recorded)
Clay (%) - Not recorded

P10_NR_Saa Sand (%) - Not recorded arithmetic difference, auto generated

Silt (%) - Not recorded

P10_NR_Z P10106_150 106 to 150u particle size analysis, (method not recorded) 150 to 180u particle size analysis, (method not recorded) 180 to 300u particle size analysis, (method not recorded) P10150_180 P10180_300 P10300_600 300 to 600u particle size analysis, (method not recorded) P106001000 600 to 1000u particle size analysis, (method not recorded)