Project Name: Jerramungup soils inventory (=JER LRS)

Project Code: JSI Site ID: 1162 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Tim Overheu Locality:

Date Desc.:16/11/94Elevation:323 metresMap Ref.:Rainfall:400

Northing/Long.: 6258885 AMG zone: 50 Runoff: No Data

Easting/Lat.: 677920 Datum: AGD84 Drainage: Moderately well drained

Geology

ExposureType:Existing vertical exposureConf. Sub. is Parent. Mat.:No DataGeol. Ref.:No DataSubstrate Material:No Data

Land Form

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

Morph. Type:Simple-slopeRelief:No DataElem. Type:PlainSlope Category:No DataSlope:%Aspect:No Data

 Surface Soil Condition
 Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:Mapping Unit:N/AHypercalcic Hypernatric Grey SodosolPrincipal Profile Form:Dy3.13ASC Confidence:Great Soil Group:N/A

All necessary analytical data are available.

<u>Site</u> Extensive clearing, for example poisoning, ringbarking

Vegetation:

<u>Surface Coarse</u> 2-10%, medium gravelly, 6-20mm, subangular, Quartz; 0-2%, , subangular,

Silcrete

Profile

Ap 0 - 0.06 m Dark grey (10YR4/1-Moist); , 0-0%; Clay loam; Strong grade of structure, 5-10 mm,

Subangular blocky;

Smooth-ped fabric; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, subangular,

Quartz, coarse fragments; Field pH 8 (pH meter); Abrupt change to -

B21 0.06 - 0.55 m

mm, Subangular

Pale olive (5Y6/3-Moist); , 0-0%; Medium heavy clay; Moderate grade of structure, 5-10

blocky; Smooth-ped fabric; Moderately moist; Field pH 8.9 (pH meter); Clear change to -

B22 0.55 - 1.4 m

clay; Strong

 $Pale\ yellow\ (2.5Y7/4-Moist);\ Mottles,\ 5YR58,\ 10\text{-}20\%\ ,\ 5\text{-}15\text{mm},\ Distinct;\ Medium\ heavy}$

grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist;

Field pH 8.2 (pH

meter); Clear change to -

C 1.4 - 1.8 m

Light yellowish brown (2.5Y6/4-Moist); Mottles, 10YR68, 10-20%, 5-15mm, Distinct;

Medium heavy clay;

Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately

moist; Field pH

4.7 (pH meter);

Morphological Notes

Ap Grey loamy clayey sand B21 OLIVE YELLOW SANDY CLAY

B22 THIS HORIZON AND ONE BELOW HAVE A VERY SMOOTH TALCY TEXTURE C ALSO MOTTLES CMD 10YR 8/2 B. ALSO CALCAREOUS MATERIAL PRESENT.

Observation Notes

Site Notes

Except for the sand drift, this soil is similar to the soil down to keith thomas' roadway. Distinctly columnar. Looks like a mix between anexer

and 2b series. Sand drift piled up along fence with several sandy layers.common soil up along nt

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Laboratory Test Results:

Depth	pН	1:5 EC	Ca E	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m		9			(+)/kg			%
0 - 0.06	6.3B 7.2H	28B	5.5A	4.9	0.51	0.99			11.9D	
0.06 - 0.55	8.7B 9.5H	120B	1.8E	6.1	0.94	6.4		14B	15.24D	45.71
0.55 - 1.4	7.5B 8H	240B	0.56A	4.6	0.76	5.5			11.42D	
1.4 - 1.8	5.4B 5.4H	390B	0.41	4.8	0.29	3.7	<0.02J		9.2D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle CS	Size FS	Analysis Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0 - 0.06 17.1		1.55D		140B	0.1E	0.78A					4.2
0.06 - 0.55 43.4	<2C	0.08D		24B	0.013E	0.91A					3.4
0.55 - 1.4 59.8	<2C	0.14D		41B	<0.005E	0.5A					15.7
1.4 - 1.8 56		0.13D		39B	<0.005E	0.05A					32

Laboratory Analyses Completed for this profile

12C1 15_NR_BSa 15_NR_CMR 15A1_CA for soluble	Calcium chloride extractable boron - manual colour 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
15A1_CEC 15A1_K for soluble	salts 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
15A1_MG for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15A1_NA for soluble	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
15C1_CA pretreatment for	salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
15C1_CEC 15C1_MG soluble salts	soluble salts CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
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 15L1 a	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 Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations 15N1_a	and measured clay Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC

15N1_b 17A1 19B_NR 3_NR 4_NR 4B_AL_NR Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations Total Potassium - X-ray fluorescence Calcium Carbonate (CaCO3) - Not recorded Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded

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pH of 1:5 soil/0.01M calcium chloride extract - direct Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen - semimicro Kjeldahl, steam distillation 6A1_UC 7A1

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 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

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

P10_NR_Z Silt (%) - Not recorded

P10106_150 P10150_180 106 to 150u particle size analysis, (method not recorded) 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)