Project Name: **Jerramungup soils inventory (=JER LRS)**
Project Code: **JSI** **Site ID:** **0483** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Tim Overheu
Date Desc.: 03/03/94
Map Ref.:
Northing/Long.: 6226100 AMG zone: 50
Easting/Lat.: 687600 Datum: AGD84
Locality:
Elevation: 218 metres
Rainfall: 400
Runoff: No Data
Drainage: Moderately well drained

Geology

ExposureType: Soil pit
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Crest
Elem. Type: Hillcrest
Slope: 8 %
Pattern Type: Rises
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification:
Eutrophic Mesonatric Red Sodosol
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Dr
Great Soil Group: N/A

Site Cultivation. Rainfed

Vegetation:

Surface Coarse 0-2%, medium gravelly, 6-20mm, angular, Igneous rock (unidentified); 2-10%, , angular, Igneous rock (unidentified)

Profile

Ap 0 - 0.12 m Dark greyish brown (10YR4/2-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; 10-20%, cobbly, 60-200mm, angular, Quartz, coarse fragments; Few (2 - 10 %), , , ; Strongly water repellent, "Field pH 6.5 (pH meter); Clear change to -

A3 0.12 - 0.2 m Brown (7.5YR5/4-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Sandy (grains prominent) fabric; Dry; Loose consistence; 20-50%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Concretions; Field pH 6.5 (pH meter); Abrupt change to -

B21 0.2 - 0.4 m Yellowish red (5YR5/8-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Field pH 7.5 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Notes; on an upland plateau between the bremer and gairdner rivers. Good vertical exposure samples taken for analysis. Rock outcrop 500m
n/e.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.12	5B 5.9H	8B	2.4H	1.02	0.24	0.13	0.06J		3.79D	
0.12 - 0.2	4.8B 5.9H	6B	1.64H	0.78	0.2	0.13	0.1J		2.75D	
0.2 - 0.4	5.2B 6.6H	9B	0.99A	3.55	0.25	1.28		6J	6.07D	21.33

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.12 3.2		1.55D		180B	0.126E						3.6
0.12 - 0.2 5.6		1.14D		110B	0.077E						3.8
0.2 - 0.4 39.4		0.51D		39B	0.036E						4.9

Laboratory Analyses Completed for this profile

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
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
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
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

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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)