

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 1156 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Tim Overheu	Locality:	
Date Desc.:	22/11/94	Elevation:	No Data
Map Ref.:		Rainfall:	420
Northing/Long.:	6234203 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	665737 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 rises 9-30m 1-3% **Pattern Type:** Rises

Morph. Type:	Simple-slope	Relief:	No Data
Elem. Type:	Hillslope	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:		Mapping Unit:	N/A
N/A		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Limited clearing, for example selective logging

Vegetation:

Surface Coarse 10-20%, medium gravelly, 6-20mm, subangular, Granulite; 10-20%, , subrounded, Granite

Profile

Ap	0 - 0.12 m	Dark yellowish brown (10YR3/4-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Sandy rock
A31	0.12 - 0.25 m	Brown (7.5YR4/4-Moist); , 0-0% ; Sandy clay loam; Single grain grade of structure; Sandy (unidentified), prominent) fabric; Dry; 2-10%, medium gravelly, 6-20mm, subrounded, Igneous rock coarse fragments; Field pH 6.5 (pH meter); Clear change to -
A32	0.25 - 0.5 m	Strong brown (7.5YR4/5-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; prominent) fabric; Dry; 2-10%, medium gravelly, 6-20mm, subrounded, Igneous rock coarse fragments; Field pH 7.2 (pH meter); Gradual change to -
B21	0.5 - 0.75 m	Dark red (2.5YR3/6-Moist); Mottles, 2.5YR48, 10-20% , 5-15mm, Prominent; Light grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moderately moist; 2-10%, medium gravelly, 6-20mm, subrounded, Igneous rock (unidentified), coarse fragments; Field pH 7.8 (pH meter); Abrupt change to -
D	0.75 - 1.07 m	Red (2.5YR5/6-Moist); ; Light medium clay; Moderately moist; Field pH 8.6 (pH meter);

Morphological Notes

Observation Notes

Site Notes

Midslope of a drainage depression. Gritty yate loam. This area drains into the gairdner r. Eion mcrae

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.12	5.2B 5.8H	15B	5.6H	1.9	0.49	0.24	0.04J		8.23D	
0.12 - 0.25	5.5B 6.4H	6B	1.7H	0.82	0.28	0.2	0.02J		3D	
0.25 - 0.5	5.8B 6.7H	4B	0.94A	0.66	0.16	0.32			2.08D	
0.5 - 0.75	5.8B 6.8H	30B	3.5A	7.8	0.32	2.8			14.42D	
0.75 - 1.1	7.2B 8.2H	40B	3.3E	7.5	0.37	5		17B	16.17D	29.41

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.12		2.46D		250B	0.195E	2.3A		5.4
4.2								
0.12 - 0.25		0.3D		71B	0.028E	2.4A		4.6
3.5								
0.25 - 0.5		0.13D		48B	0.015E	2.3A		5.1
3.3								
0.5 - 0.75		0.21D		31B	0.024E	1.3A		7
29.8								
0.75 - 1.1	<2C	0.13D		54B	0.01E	1.7A		6.7
15.5								

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_CMV	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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_CEC	CEC - 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

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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
19B_NR	Calcium Carbonate (CaCO3) - 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
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)