

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 0624 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Tim Overheu	Locality:
Date Desc.: 06/05/94	Elevation: 110 metres
Map Ref.:	Rainfall: 585
Northing/Long.: 6192356 AMG zone: 50	Runoff: No Data
Easting/Lat.: 661794 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: Undulating rises 9-30m 3-10%	Pattern Type: Rises
Morph. Type: Lower-slope	Relief: 15 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: %	Aspect: No Data

Surface Soil Condition Cracking, Hardsetting

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

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: N/A
	Great Soil Group: N/A

Site Cultivation. Rainfed

Vegetation:

Surface Coarse 0-2%, medium gravelly, 6-20mm, subrounded, Gravel; 0-2%, , angular, Quartz

Profile

<p>A1 0 - 0.08 m 5 mm, 6-20mm, Concretions;</p>	<p>Strong brown (7.5YR4/6-Moist); , 0-0% ; Sandy clay loam; Moderate grade of structure, 2- Subangular blocky; Smooth-ped fabric; Dry; Firm consistence; 10-20%, medium gravelly, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Clear change to -</p>
<p>B1 0.08 - 0.16 m Strong grade of Clear change to -</p>	<p>Red (2.5YR5/6-Moist); Mottles, 10YR56, 0-2% , 5-15mm, Distinct; Clay loam, sandy; structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Dry; Very firm consistence;</p>
<p>B21tk 0.16 - 0.38 m grade of Highly calcareous;</p>	<p>Pink (5YR7/3-Moist); Mottles, 10YR66, 10-20% , 0-5mm, Distinct; Light clay; Massive structure; Sandy (grains prominent) fabric; Dry; Very firm consistence; Soil matrix is Gradual change to -</p>
<p>2B22tk 0.38 - 1.8 m medium clay; Weak consistence; Slightly</p>	<p>Yellowish red (5YR5/6-Moist); Mottles, 2.5YR48, 20-50% , 30-mm, Prominent; Light Strong grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Moderately moist; 0-2%, coarse gravelly, 20-60mm, subrounded, Gravel, coarse fragments; Soil matrix is calcareous;</p>

Morphological Notes

2B22tk 2ND MOTTLE = A,C,D, 5Y 4,3,R: STRUCTURE - PEDALITY = A; GRADE = V; 2ND MOTTLE - FABRIC = G; PANS - TYPE = Z; SOIL WATER STATUS = T; 2ND MOTTLE - COARSE FRAGMENTS = N.

Observation Notes

Site Notes

A road side reserve alongside boat harbour road. Gravelly sand over yellow clay developing a spongelite. No boulder laterite in this one as on others in the wellstead area. New series? Good fawn to light tan skins on the cutans in b21.

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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 - 0.08	7.9B 9H	26B	10.3E	6.88	0.78	2.06		20J	20.02D	10.30
0.08 - 0.16	8.5B 9.5H	42B	9.33E	12.44	1.02	4.94		26J	27.73D	19.00
0.16 - 0.38	8.8B 10.1H	51B	2.72E	10.58	0.57	6.2		18J	20.07D	34.44
0.38 - 0.65	9.2B 10.2H	62B	2.14E	11.44	0.61	11.96		23J	26.15D	52.00
0.65 - 1.2	8.7B 9.6H	79B	0.76E	7.13	0.47	9.7			18.06D	
1.2 - 1.5	5.6B 6.5H	100B	0.42A	7.28	0.36	9.09		18J	17.15D	50.50

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 - 0.08	1C	1.41D		190B	0.115E			
33.2								4.6
0.08 - 0.16	7C	0.57D		61B	0.041E			4.9
57.4								
0.16 - 0.38	29C	0.28D		46B	0.02E			15.7
42.3								
0.38 - 0.65	2C	0.14D		52B	0.01E			11.4
35.2								
0.65 - 1.2	<2C	0.05D		110B	0.006E			9.8
21.9								
1.2 - 1.5		0.14D		100B	0.006E			10.1
21								

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	

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 (CaCO3) - Not recorded
3_NR	Electrical conductivity or soluble salts - Not recorded

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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)