

**Project Name:** Jerramungup soils inventory (=JER LRS)  
**Project Code:** JSI **Site ID:** 1145 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Tim Overheu	<b>Locality:</b>	
<b>Date Desc.:</b>	23/11/94	<b>Elevation:</b>	220 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	400
<b>Northing/Long.:</b>	6212824 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	672009 Datum: AGD84	<b>Drainage:</b>	Moderately well drained

#### Geology

<b>ExposureType:</b>	Existing vertical exposure	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	No Data

#### Land Form

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Sand plain
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<b>Morph. Type:</b>	No Data	<b>Relief:</b>	5 metres
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	2 %	<b>Aspect:</b>	No Data

#### Surface Soil Condition Loose

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

#### Soil Classification

<b>Australian Soil Classification:</b>	Ferric Mottled-Hypernatric Yellow Sodosol Thick Moderately gravelly Sandy Clayey Deep	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	All necessary analytical data are available.	<b>Principal Profile Form:</b>	Dy5.82
<b>Site</b>	Cultivation. Rainfed	<b>Great Soil Group:</b>	N/A

#### Vegetation:

**Surface Coarse** 20-50%, medium gravelly, 6-20mm, subrounded, Gravel; 2-10%, , subrounded, Gravel

#### Profile

Ap 0 - 0.1 m structure; Sandy Medium (2 -6 mm),	Very dark greyish brown (2.5Y3/2-Moist); , 0-0% ; Loamy sand; Single grain grade of (grains prominent) fabric; Dry; Loose consistence; Many (20 - 50 %), Ferruginous, Concretions; Water repellent; Field pH 6.8 (pH meter); Abrupt change to -
A21 0.1 - 0.43 m Sandy (grains (2 -6 mm),	Light yellowish brown (2.5Y6/4-Moist); , 0-0% ; Sand; Single grain grade of structure; prominent) fabric; Dry; Loose consistence; Very many (50 - 100 %), Ferruginous, Medium Concretions; Field pH 6.9 (pH meter); Clear change to -
B21 0.43 - 0.92 m medium clay; Common (10 - 20 to -	Brownish yellow (10YR6/8-Moist); Mottles, 7.5YR5/6, 10-20% , 5-15mm, Distinct; Light Massive grade of structure; Sandy (grains prominent) fabric; Dry; Weak consistence; %, Ferruginous, Medium (2 -6 mm), Concretions; Field pH 7.6 (pH meter); Clear change to -
B22 0.92 - 1.25 m clay; Moderate Firm	Light grey (10YR7/2-Moist); Mottles, 10YR6/8, 10-20% , 5-15mm, Distinct; Light medium grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Moderately moist; consistence; Field pH 6.9 (pH meter);

#### Morphological Notes

A21	A21 SPORADICALLY BLEACHED.
B21	YELLOW CLAY
B22	ALSO A WHITE MOTTLE 10YR 8/2 - GREY YELLOW CLAY (TYPICAL SP CLAY)

#### Observation Notes

#### Site Notes

Landscape adjacent the old coastal escarpment. Site on the upper slope of dissected drainage country. Rock types and landform distinctly

illustrates a turbid sedimentary environment. Rocky duplex soil, typical soil for upper slopes of a dra

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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 - 0.11	4.9B 5.6H	15B	3.2H	0.66	0.15	0.4	0.16J		4.41D	
0.11 - 0.43	5.4B 6.4H	5B	0.73H	0.57	0.03	0.29	0.05J		1.62D	
0.43 - 0.92	6.4B 7.8H	12B	1.1A	5.7	0.25	3.4			10.45D	
0.92 - 1.25	6.6B 7.8H	18B	0.61A	4.8	0.26	3.8			9.47D	

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 - 0.11		1.83D		160B	0.141E	0.34A		3.7
3.3								
0.11 - 0.43		0.29D		29B	0.026E	0.42A		3.2
6.8								
0.43 - 0.92		0.07D		28B	0.014E	0.22A		5.4
37.9								
0.92 - 1.25		0.02D		24B	0.008E	0.41A		7.9
32.7								

**Laboratory Analyses Completed for this profile**

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
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_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
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
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
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)

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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)