**Project Name:** Jerramungup soils inventory (=JER LRS)

**Project Code:** Observation ID: 1 JSI Site ID: 0487

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Tim Overheu Locality:

Date Desc.: 04/03/94 Elevation: 170 metres Map Ref.: Rainfall: 400

No Data Northing/Long.: 6227980 AMG zone: 50 Runoff: Easting/Lat.: 690750 Datum: AGD84 Drainage: Moderately well drained

Geology

ExposureType: Auger boring 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 Relief. No Data Morph. Type: Lower-slope Elem. Type: Hillslope Slope Category: No Data Slope: Aspect: No Data

Surface Soil Condition Firm

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

(stbank) (tunnel)

**Soil Classification** 

**Australian Soil Classification:** Mapping Unit: N/A **Principal Profile Form:** N/A Acidic Lithic Yellow-Orthic Tenosol **ASC Confidence: Great Soil Group:** N/A

No analytical data are available but confidence is fair.

Site Cultivation. Rainfed

Vegetation:

Surface Coarse 20-50%, medium gravelly, 6-20mm, angular, Igneous rock (unidentified); 20-50%, angular, Igneous rock (unidentified)

**Profile** 

0 - 0.1 m Dark greyish brown (10YR4/2-Moist); , 0-0%; Loamy sand; Single grain grade of

structure; Sandy

(grains prominent) fabric; Dry; Loose consistence; 50-90%, coarse gravelly, 20-60mm,

angular, Igneous

rock (unidentified), coarse fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm),

Concretions;

Strongly water repellent, "Field pH 4.8 (pH meter); Abrupt change to -

0.1 - 0.35 m А3

(grains

Brownish yellow (10YR6/6-Moist); , 0-0%; Sand; Single grain grade of structure; Sandy prominent) fabric; Dry; Loose consistence; 50-90%, coarse gravelly, 20-60mm, angular,

Granite, coarse

fragments; Common (10 - 20 %), Ferruginous, Medium (2 -6 mm), Concretions; Water

repellent; Field

pH 4.5 (pH meter); Diffuse change to -

B31 0.35 - 0.4 m

Sandy (grains

Brownish yellow (10YR6/8-Moist); , 0-0%; Clayey sand; Massive grade of structure;

prominent) fabric; Dry; Loose consistence; 90-100%, cobbly, 60-200mm, angular,

Granite, coarse

fragments; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Concretions; Field pH 4.5

(pH meter);

Diffuse change to -

С 0.4 - mweak

, 0-0%; Clayey sand; Massive grade of structure; Sandy (grains prominent) fabric; Very

consistence; 90-100%, cobbly, 60-200mm, angular, Granite, coarse fragments; Field pH

4.1 (pH meter);

Morphological Notes

TEXTURE; COARSE SAND (KS) A3 B31 TEXTURE; COARSE CLAY/SAND (KCS) TEXTURE; COARSE CLAY/SAND (KCS)

**Observation Notes** 

**Site Notes** 

On the boundary of two soil/landscapes. 2 = valley slope. Have driven over coarse ground. Basic rock not dolerite adamelite? Profile; totally unsuitable for cropping. Very rocky surface/igneous-quartz. Possibly c horizon is only a floater.

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## **Laboratory Test Results:**

Depth	рН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (	+)/kg			%
0 - 0.1	4.5B 5.2H	11B	2.55H	0.72	0.29	0.12	0.27J		3.68D	
0.1 - 0.45	4.7B 5.8H	2B	1.43H	0.36	0.06	0.02	0.12J		1.87D	
Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Tota K	al Bulk Density		icle Size A	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.1 4.4		1.86D		170B	0.13	2E				4.8
0.1 - 0.45 4.8		0.64D		76B	0.03	6E				4.1

## **Laboratory Analyses Completed for this profile**

15_NR_BSa 15_NR_CMR 15E1_AL 15E1_CA	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
salts	
15E1_K 15E1_MG 15E1_MN 15E1_NA 15J_BASES	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
15N1_b 3_NR	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations 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 9A3	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3 9H1	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour Anion storage capacity
P10 1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_1112111	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)