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

**Project Code:** Observation ID: 1 JSI Site ID: 1150

Agriculture Western Australia Agency Name:

Site Information

Desc. By: Tim Overheu Locality:

Date Desc.: 140 metres 30/11/94 Elevation: Map Ref.: Rainfall: 500

No Data Northing/Long.: 6208061 AMG zone: 50 Runoff: 689536 Datum: AGD84 Drainage: Poorly drained Easting/Lat.:

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 plains <9m 1-3% Pattern Type: Plain

Morph. Type: No Data Relief: 6 metres Plain Slope Category: No Data Elem. Type: Aspect: Slope: 3 % No Data

Surface Soil Condition Poached, Hardsetting (wind); (scald) (sheet) (rill) (mass) (gully) **Erosion:** (stbank) (tunnel)

Soil Classification

**Australian Soil Classification:** N/A Mapping Unit: Epihypersodic Pedal Hypercalcic Calcarosol **Principal Profile Form:** Db3.13 ASC Confidence: **Great Soil Group:** N/A

Analytical data are incomplete but reasonable confidence.

Site Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

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

10%, , subangular, Dolerite

**Profile** 

Аp 0 - 0.08 m Dark brown (10YR3/3-Moist); , 0-0%; Sandy loam; Single grain grade of structure; Sandy

(grains prominent) fabric; Dry; Weak consistence; 2-10%, medium gravelly, 6-20mm, subangular,

Igneous rock

(unidentified), coarse fragments; Field pH 8.2 (pH meter); Sharp change to -

Light yellowish brown (10YR6/4-Moist); , 0-0%; Light medium clay; Moderate grade of B21 0.08 - 0.32 m

structure, 2-5

mm, Polyhedral; Rough-ped fabric; Dry; Very firm consistence; 0-2%, medium gravelly, 6-

20mm.

subangular, Igneous rock (unidentified), coarse fragments; Field pH 9.2 (pH meter);

Abrupt change to -

0.32 - 0.55 m Pale brown (10YR6/3-Moist); , 0-0%; Light clay; Massive grade of structure; Sandy

(grains prominent) fabric; Dry; Weak consistence; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Soft

segregations;

Soil matrix is Highly calcareous; Field pH 9.7 (pH meter); Abrupt change to -

B21 0.55 - 1.35 m

Olive brown (2.5Y4/4-Moist); Mottles, 10YR63, 0-2%, 0-5mm, Faint; Medium clay; Strong grade of

structure, 10-20 mm, Polyhedral; Rough-ped fabric; Moderately moist; Firm consistence; 0-2%, fine

gravelly, 2-6mm, angular, Igneous rock (unidentified), coarse fragments; Soil matrix is

Slightly calcareous; Field pH 9.2 (pH meter); Abrupt change to -

1.35 - 1.7 m

Brown (7.5YR4/3-Moist); , 0-0%; Light medium clay; Moderately moist; Weak consistence; 2-10%,

medium gravelly, 6-20mm, angular, Igneous rock (unidentified), coarse fragments; Soil matrix is Slightly

calcareous; Field pH 8.9 (pH meter);

**Morphological Notes** 

LAYER OF SOFT LIME - POSSIBLY LIKE SITE 1145, SEASONALY WATERLOGGED R22tk

SLIKCEN SIDES ON CUTANS. LAYER SPLIT OVER 2 FOR SAMPLING (55-95-135)

С THIS LAYER WAS GRITTY AND MINERALISED = CF: T.HOLDMAN'S.

## **Observation Notes**

## **Site Notes**

B21

Moderately deep gravel, much the same as last site, but no a3 horizon a typical sandplain soil, perhaps more representative than the last site. At 100cm, could be an a3 horizon? Hp1=level to very gently undulating upper coastl sandplain.

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI Site ID: 1150
Agency Name: Agriculture Western Australia Observation 1

## **Laboratory Test Results:**

Depth	рН	1:5 EC	Ca E	xchangeab Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	ou	y	I.		(+)/kg			%
0 - 0.08	7.7B 8.4H	28B	12E	6.4	0.89	0.77		21B	20.06D	3.67
0.08 - 0.32	8.5B 9.3H	60B	6.3E	10	0.96	4.1		22B	21.36D	18.64
0.32 - 0.55	8.9B 9.8H	110B	3.6E	9.5	0.96	7.3		22B	21.36D	33.18
0.55 - 0.92	8.7B 9.3H	180B	2.4E	15	1.3	11		29B	29.7D	37.93
0.92 - 1.35	8.4B 9H	190B	1.4E	15	1.3	12		30B	29.7D	40.00

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle CS	Size FS	Analysis Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.08 21.6	2C	1.64D		160B	0.122E	0.43A					3.7
0.08 - 0.32 29.7	3C	0.21D		19B	0.019E	0.5A					2.4
0.32 - 0.55 52.1	35C	0.22D		14B	0.013E	0.46A					9
0.55 - 0.92 41.9	8C	0.12D		12B	0.01E	1A					7.9
0.92 - 1.35 38.7	2C	0.1D		10B	0.006E	1.1A					2.6

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

	<del></del>
12C1 15_NR_BSa 15_NR_CMR 15C1_CA pretreatment for	Calcium chloride extractable boron - manual colour Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available Exchangeable bases (Ca/Mg ratio) - Not recorded Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, soluble salts
15C1_CEC 15C1_K soluble salts	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_MG soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15C1_NA soluble salts	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
15J_BASES 15L1_a Sum of Cations 15N1_a 15N1_b 17A1 19B_NR 3_NR 4_NR	Sum of Bases Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using and measured clay Exchangeable sodium percentage (ESP) - Auto calculated from available using CEC Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations Total Potassium - X-ray fluorescence Calcium Carbonate (CaCO3) - Not recorded Electrical conductivity or soluble salts - Not recorded pH of soil - Not recorded
4B1 6A1_UC 7A1 9A3	pH of 1:5 soil/0.01M calcium chloride extract - direct Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen - semimicro Kjeldahl, steam distillation Total Phosphorus (ppm) - semimicro kjeldahl, automated colour

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

Project Name: Jerramungup soils inventory (=JER LRS)

Project Code: JSI Site ID: 1150 Observation 1

Agency Name: Agriculture Western Australia

P10\_NR\_Saa Sand (%) - Not recorded arithmetic difference, auto generated Silt (%) - Not recorded 106 to 150u particle size analysis, (method not recorded) 150 to 180u particle size analysis, (method not recorded) 180 to 300u particle size analysis, (method not recorded) 10300\_600 300 to 600u particle size analysis, (method not recorded) 106001000 600 to 1000u particle size analysis, (method not recorded)