Project Name: Three Springs Latham land resources survey

Project Code: TSL Site ID: 0698 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Christopher Grose Locality:

Date Desc.:22/03/93Elevation:No DataMap Ref.:Rainfall:No Data

Northing/Long.: 6731826 AMG zone: 50 Runoff: No Data Easting/Lat.: 374784 Datum: AGD84 Drainage: Well drained

<u>Geology</u>

ExposureType:Soil pitConf. Sub. is Parent. Mat.:No DataGeol. Ref.:No DataSubstrate Material:No Data

**Landform** 

Rel/Slope Class:Undulating plains <9m 3-10%</th>Pattern Type:PlainMorph. Type:Mid-slopeRelief:No DataElem. Type:PlainSlope Category:No DataSlope:%Aspect:No Data

Surface Soil Condition Firm

**Erosion** (wind); (scald) (sheet) (wave) (rill) (mass)

(gully) (stbank) (tunnel)

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AHaplic Calcic Red ChromosolPrincipal Profile Form:Dr4.13ASC Confidence:Great Soil Group:N/A

Confidence level not specified

Site Disturbance Cultivation. Rainfed

Vegetation

**Surface Coarse Fragments** 

**Profile Morphology** 

Ap 0 - 0.15 m Dark reddish brown (5YR3/4-Moist); Clay loam, sandy; Moderate grade of structure, 5-

10 mm,

Subangular blocky; Rough-ped fabric; Weak consistence; Field pH 6.4 (pH meter); Clear

change to -

B1 0.15 - 0.6 m Dark red (2.5YR3/6-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Angular

blocky; Rough-

ped fabric; Weak consistence; Soil matrix is Slightly calcareous; Field pH 7.5 (pH meter);

Gradual

change to -

B2 0.6 - 0.98 m

Rough-ped

Red~(2.5YR4/6-Moist);~; Light~clay;~Strong~grade~of~structure,~20-50~mm,~Angular~blocky;

fabric; Weak consistence; Soil matrix is Slightly calcareous; Field pH 7.5 (pH meter);

Gradual, Wavy

change to -

B22t 0.98 - 1.6 m

matrix is

Red (2.5YR4/6-Moist); ; Light medium clay; Rough-ped fabric; Weak consistence; Soil

Moderately calcareous; Field pH 9 (pH meter);

1.6 - m ; Light medium clay;

**Morphological Notes** 

Ap Structure in layer 1 - very coarse plately breaking to medium subangular blocky.

B1 Ferromongonese concretions evident in layers 2, 3 & 4. Roots penetrating to at least 100

cm.

B2 Structure in layer 3 breaking from size 5 to 2. Clay cutons evident on ped faces in layers 3

& 4.

B22t Some corbonate accumulations in layer 4.

**Observation Notes** 

**Site Notes** 

[doubtful duplex]

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## **Laboratory Test Results:**

Depth	рН	1:5 EC	Ca	Exchangeal Mg	ble Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	<b>o</b> u	9			(+)/kg			%
0 - 0.1	5.4B 6.3H	5B	6.4H	1 2.1	1	0.21	<0.02J		9.71D	
0.2 - 0.5	6.4B 7.4H	8B	10A	3.7	0.74	1			15.44D	
0.65 - 0.95	6.4B 7.5H	9B	11A	3.8	0.58	1.5			16.88D	
1 - 1.3	7.7B 8.5H	17B	10E	3	0.48	1.7		19B	15.18D	8.95

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density		Size Analysis FS Silt
m	%	%	mg/kg	%	%	%	Mg/m3		%
0 - 0.1 23.5		1.1D		280B	0.07E			561	20.5
0.2 - 0.5 50.5		0.46D		210B	0.054E			331	16.5
0.65 - 0.95 51		0.17D		160B	0.031E			311	18
1 - 1.3 45.5	2C	0.09D		140B	0.021E			35.51	19

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

	, , , , , , , , , , , , , , , , , , ,
15_NR_BSa 15_NR_CMR 15A1_CA for soluble	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+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_CEC 15A1_K for soluble	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_MG for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15A1_NA for soluble	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
	salts
15C1_CA pretreatment for	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
15E1_AL 15E1_CA salts	Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_K 15E1_MG 15E1_MN 15E1_NA	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

15J_BASES 15L1 a	Sum of Bases Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	Exchangeable bases base saturation percentage (bot ) - Auto calculated from available using
	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
4_NR	pH of soil - Not recorded

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4B\_AL\_NR 4B1 6A1\_UC 7A1

9A3

Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded 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 Clay (%) - Not recorded Sand (%) - Not recorded Silt (%) - Not recorded P10\_NR\_C P10\_NR\_S P10\_NR\_Z