Project Name: Three Springs Latham land resources survey

Project Code: TSL Site ID: 0326 Observation ID: 1

Agency Name: Agriculture Western Australia

Site Information

Desc. By: Christopher Grose Locality:

Date Desc.:10/08/93Elevation:260 metresMap Ref.:Rainfall:No Data

Northing/Long.: 6716506 AMG zone: 50 Runoff: No Data Easting/Lat.: 389900 Datum: AGD84 Drainage: No Data

<u>Geology</u>

ExposureType:Auger boringConf. Sub. is Parent. Mat.:No DataGeol. Ref.:No DataSubstrate Material:No Data

**Landform** 

Rel/Slope Class: Level plain <9m <1% Pattern Type: Plain Relief: No Data Morph. Type: Flat Elem. Type: Plain **Slope Category:** No Data Slope: % Aspect: No Data

Surface Soil Condition Firm, Hardsetting

**Erosion** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AHaplic Eutrophic Red ChromosolPrincipal Profile Form:Dr2.11ASC Confidence:Great Soil Group:N/A

Confidence level not specified

Site Disturbance Cultivation. Rainfed

**Vegetation** 

Surface Coarse Fragments

**Profile Morphology** 

A1 0 - 0.1 m Dark reddish brown (5YR3/4-Moist); ; Loam; Moderate grade of structure, 5-10 mm,

Subangular blocky;

Firm consistence; Field pH 6 (pH meter);

B1 0.1 - 0.35 m Reddish brown (2.5YR4/4-Moist); ; Medium clay; Weak grade of structure, 20-50 mm,

Prismatic; Firm consistence; Field pH 7 (pH meter);

B21 0.35 - 0.85 m Red (10R4/6-Moist); ; Medium clay; Weak grade of structure, 20-50 mm, Angular blocky;

Firm

consistence; Few (2 - 10 %), Ferromanganiferous, Fine (0 - 2 mm), Nodules; Field pH 6

(pH meter);

B22 0.85 - 1.3 m Weak red (10R4/4-Moist); ; Light clay; Very strong consistence; Manganiferous pan,

Moderately

cemented, Massive; Field pH 6 (pH meter);

1.3 - m ; Light clay;

**Morphological Notes** 

B21 Bottom varies between 45 and 90 cm.

B22 Moderately cemented by Fe/Mn. Crushes to give a LC texture. Occasional SiO2 and chert

pebbles to 2cm. Occasional roots to base of layer 3. Very occasional roots in layer 4.

Observation Notes

**Site Notes** 

[marginal duplex from lab data]

Three Springs Latham land resources survey

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## **Laboratory Test Results:**

Depth	рН	1:5 EC	Ca Ex	xchangeable Cations Mg K		Na	Exchangeable Na Acidity	CEC	ECEC	ESP
m		dS/m	Ou	my	IX.		(+)/kg			%
0 - 0.1	5.4B 6.3H	6B	4.18H	1.26	0.9	0.16	0.02J		6.5D	
0.2 - 0.3	6.1B 7.1H	6B	5.33A	1.45	0.47	0.38			7.63D	
0.5 - 0.6	6.1B 6.8H	8B	5.61A	1.96	0.09	0.34			8D	
1 - 1.1	6.1B 7.5H	4B	5.69A	2.96	0.09	0.64			9.38D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	icle Size Analysis S FS Silt
m	%	%	mg/kg	%	%	%	Mg/m3	%
0 - 0.1 14.3		0.8D		140B	0.062E			10.1
0.2 - 0.3 27.8		0.54D		120B	0.033E			12.1
0.5 - 0.6 30.3		0.19D		110B	0.02E			12.3
1 - 1.1 38.5		0.1D		89B	0.013E			10.6

## **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
15A1_CEC 15A1_K for soluble	salts 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
15A1_MG for soluble	salts 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
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 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
15L1_a Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
15N1_a 15N1_b 3_NR 4_NR 4B_AL_NR 4B1 6A1_UC 7A1 9A3	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  Electrical conductivity or soluble salts - Not recorded  pH of soil - Not recorded  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

9H1 P10\_1m2m P10\_20\_75 P10\_75\_106 Anion storage capacity 1000 to 2000u particle size analysis, (method not recorded) 20 to 75u particle size analysis, (method not recorded) 75 to 106u particle size analysis, (method not recorded) Project Name: Three Springs Latham land resources survey

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P10\_NR\_C
P10\_NR\_Saa
P10\_NR\_Saa
P10\_NR\_Z
Silt (%) - Not recorded arithmetic difference, auto generated
P10\_NR\_Z
P10106\_150
P10150\_180
P10180\_300
P10180\_300
P10300\_600
P10300\_600
P106001000
P106001000

Clay (%) - Not recorded
Silt (%) - Not recorded arithmetic difference, auto generated
silt (%) - Not recorded
P10100\_150
P10100\_15