

**Project Name:** Three Springs Latham land resources survey  
**Project Code:** TSL **Site ID:** 0780 **Observation ID:** 1  
**Agency Name:** Agriculture Western Australia

#### Site Information

<b>Desc. By:</b>	Christopher Grose	<b>Locality:</b>	
<b>Date Desc.:</b>	14/04/94	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>		<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6693878 AMG zone: 50	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	377957 Datum: AGD84	<b>Drainage:</b>	Rapidly 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

#### Landform

<b>Rel/Slope Class:</b>	Undulating plains <9m 3-10%	<b>Pattern Type:</b>	Plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	No Data
<b>Slope:</b>	%	<b>Aspect:</b>	No Data

**Surface Soil Condition** Loose

#### Erosion

#### Soil Classification

<b>Australian Soil Classification:</b>		<b>Mapping Unit:</b>	N/A
N/A		<b>Principal Profile Form:</b>	Uc4.21
<b>ASC Confidence:</b>		<b>Great Soil Group:</b>	N/A
Confidence level not specified			

**Site Disturbance** No effective disturbance other than grazing by hoofed animals

#### Vegetation

**Surface Coarse Fragments** No surface coarse fragments

#### Profile Morphology

Ap	0 - 0.05 m	Brown (10YR4/3-Moist); ; Loamy sand; Very weak consistence; Field pH 6 (pH meter);
A2	0.05 - 0.4 m	Brownish yellow (10YR6/6-Moist); ; Clayey sand; Earthy fabric; Very weak consistence; Field pH 6 (pH meter);
B21	0.4 - 1 m	Brownish yellow (10YR6/8-Moist); Mottles, 10YR83, 2-10% , 5-15mm, Faint; Clayey sand; Earthy fabric; Very weak consistence; Field pH 6.3 (pH meter);
B22	1 - 1.5 m	Brownish yellow (10YR6/8-Moist); Mottles, 10YR83, 2-10% , 5-15mm, Faint; Clayey sand; Earthy fabric; Very weak consistence; Field pH 6.3 (pH meter);
B3	1.5 - 1.75 m	Yellow (10YR7/6-Moist); Mottles, 10YR81, 10-20% , 5-15mm, Distinct; Clayey sand; Sandy (grains prominent) fabric; Very weak consistence; 50-90%, fine gravelly, 2-6mm, Ironstone, coarse fragments;
C?	1.75 - 2.1 m	White (10YR8/1-Moist); Mottles, 10YR58, 10-20% , 5-15mm, Distinct; Clayey sand; Sandy (grains prominent) fabric; Very weak consistence; 50-90%, fine gravelly, 2-6mm, Quartz, coarse fragments; Field pH 6.2 (pH meter);
	2.1 - m	; Clayey sand;

#### Morphological Notes

#### Observation Notes

#### Site Notes

60% of gravels in layer5 are fine gravel upto 4mm in size. All gravel in layer 6 is less than 5mm in size. Roots penetrating to 2m.

**Project Name:** Three Springs Latham land resources survey  
**Project Code:** TSL **Site ID:** 0780 **Observation** 1  
**Agency Name:** Agriculture Western Australia

**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 - 0.05	6.4B 6.8H	3B	0.63A	0.2	0.05	0.02			0.9D	
0.2 - 0.4	5.8B 6.7H	1B	0.44A	0.16	0.05	<0.02			0.66D	
0.6 - 0.8	6B 6.7H	1B	0.32A	0.18	0.04	<0.02			0.55D	
1.15 - 1.35	6B 6.5H	1B	0.24A	0.19	0.03	<0.02			0.47D	
1.5 - 1.75	5.9B 6.5H	1B	0.26A	0.18	0.03	0.02			0.49D	
1.8 - 2	5.8B 6.4H	1B	0.21H	0.14	<0.02	0.02	<0.02J		0.38D	

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 - 0.05 3		0.44D		25B	0.023E			94.5I 2.5
0.2 - 0.4 3.5		0.13D		13B	0.01E			95I 1.5
0.6 - 0.8 4.5		0.09D		12B	0.007E			94I 1.5
1.15 - 1.35 4		0.06D		10B	0.005E			94.5I 1.5
1.5 - 1.75 4.5		0.06D		10B	0.005E			94I 1.5
1.8 - 2 4		0.06D		13B	0.005E			95I 1

**Laboratory Analyses Completed for this profile**

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15A1_CA for soluble	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
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA salts	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 Sum of Cations	Exchangeable bases Base saturation percentage (BSP) - 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
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - 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

**Project Name:** Three Springs Latham land resources survey  
**Project Code:** TSL                      **Site ID:** 0780                      **Observation** 1  
**Agency Name:** Agriculture Western Australia

9A3                      Total Phosphorus (ppm) - semimicro kjeldahl, automated colour  
P10\_NR\_C              Clay (%) - Not recorded  
P10\_NR\_S              Sand (%) - Not recorded  
P10\_NR\_Z              Silt (%) - Not recorded