

Project Name: Three Springs Latham land resources survey
Project Code: TSL **Site ID:** 0830 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Christopher Grose	Locality:	
Date Desc.:	05/08/94	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6719951 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	332633 Datum: AGD84	Drainage:	Rapidly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Landform

Rel/Slope Class: Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type:	Upper-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition Loose

Erosion

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Basic Arenic Bleached-Orthic Tenosol	Principal Profile Form:	Uc5.11
ASC Confidence:	Great Soil Group:	N/A
All necessary analytical data are available.		

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments No surface coarse fragments

Profile Morphology

Ap	0 - 0.05 m	Weak red (2.5YR4/1-Moist); ; Sand; Sandy (grains prominent) fabric; Loose consistence; Water repellent; Field pH 6.7 (pH meter); Gradual change to -
A2	0.05 - 0.15 m	Grey (10YR5/1-Moist); ; Sand; Sandy (grains prominent) fabric; Loose consistence; Strongly water repellent, "Field pH 6.9 (pH meter); Clear change to -
A1b	0.15 - 0.28 m	Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Sandy (grains prominent) fabric; Very weak consistence; Field pH 6 (pH meter); Diffuse change to -
A2b	0.28 - 0.49 m	Brownish yellow (10YR6/6-Moist); ; Clayey sand; Sandy (grains prominent) fabric; Very weak consistence; Field pH 7 (pH meter); Gradual change to -
B2	0.49 - 1.55 m	Brownish yellow (10YR6/8-Moist); ; Clayey sand; Sandy (grains prominent) fabric; Very weak consistence; Field pH 7.1 (pH meter);
	1.55 - m	; Clayey sand;

Morphological Notes

Observation Notes

Site Notes

Roots to 1.5 m. Marn mass of roots in top 30 cm, Soil pit dug as a "deep white sand" but wasn't.. Considered a poor soil by farmers.

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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	5.6B 6.2H	8B	2H	0.41	0.05	0.04	<0.02J		2.5D	
0.05 - 0.15	5B 5.8H	2B	0.69H	0.09	0.02	0.02	<0.02J		0.82D	
0.15 - 0.28	5.1B 5.9H	2B	0.88H	0.12	0.02	<0.02	<0.02J		1.03D	
0.28 - 0.49	5.3B 6.1H	2B	0.5H	0.08	<0.02	0.03	<0.02J		0.62D	
0.49 - 1	5.6B 6.2H	2B	0.53H	0.15	0.02	0.03	<0.02J		0.73D	
1 - 1.5	6B 6.6H	2B	0.54A	0.33	0.07	0.02			0.96D	

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		1.03D		110B	0.078E			97I 1
0.05 - 0.15		0.37D		53B	0.016E			97I 0.5
0.15 - 0.28		0.52D		42B	0.034E			98I 0.5
0.28 - 0.49		0.15D		56B	0.008E			94.5I 1
0.49 - 1		0.11D		46B	0.007E			88I 1
1 - 1.5		0.06D		36B	0.008E			83I 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	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_CEC	Exchangeable bases (CEC) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment
for soluble	salts
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	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	Exchangeable bases Base saturation percentage (BSP) - Auto calculated from available using
Sum of Cations	
	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
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

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7A1 Total nitrogen - semimicro Kjeldahl, steam distillation
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