

Project Name: Three Springs Latham land resources survey
Project Code: TSL **Site ID:** 0829 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Christopher Grose	Locality:	
Date Desc.:	04/08/94	Elevation:	No Data
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6712673 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	339282 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:	3 %	Aspect:	No Data

Surface Soil Condition Loose

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Basic Regolithic Yellow-Orthic Tenosol		Principal Profile Form:	Uc4.21
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 - 0.2 m	Brown (10YR4/3-Moist); ; Loamy sand; Sandy (grains prominent) fabric; Loose consistence; Water repellent; Field pH 7.1 (pH meter); Clear change to -
A2 weak	0.2 - 0.38 m	Yellowish brown (10YR5/4-Moist); ; Clayey sand; Sandy (grains prominent) fabric; Very consistence; Field pH 7.1 (pH meter); Clear change to -
B1 weak	0.38 - 0.7 m	Brownish yellow (10YR6/8-Moist); ; Clayey sand; Sandy (grains prominent) fabric; Very consistence; Field pH 7.4 (pH meter); Gradual change to -
B2 pH 7.1 (pH	0.7 - 1.3 m	Brownish yellow (10YR6/8-Moist); ; Loamy sand; Sandy (grains prominent) fabric; Field meter); Gradual change to -
	1.3 - m	; Loamy sand;

Morphological Notes

Observation Notes

Site Notes

coarse roots to 1 m. Mass root mass in a horizon.

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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 - 0.2	4.8B 5.7H	2B	1.1H	0.16	<0.02	0.02	<0.02J		1.29D	
0.2 - 0.38	5.4B 6.2H	1B	0.38H	0.14	<0.02	0.02	<0.02J		0.55D	
0.38 - 0.7	5.4B 6.2H	1B	0.35H	0.09	<0.02	<0.02	<0.02J		0.46D	
0.75 - 1.2	5.7B 6.4H	1B	0.44A	0.17	0.05	<0.02			0.67D	

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 - 0.2		0.57D		23B	0.025E			95.5I	1.5
0.2 - 0.38		0.1D		14B	0.006E			95.5I	1
0.38 - 0.7		0.09D		12B	0.005E			92.5I	1
0.75 - 1.2		0.1D		15B	0.006E			90I	0.5

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMRR	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
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