

Project Name: Three Springs Latham land resources survey
Project Code: TSL **Site ID:** 0323 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Christopher Grose	Locality:	
Date Desc.:	09/08/93	Elevation:	300 metres
Map Ref.:		Rainfall:	No Data
Northing/Long.:	6736214 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	447788 Datum: AGD84	Drainage:	Moderately well drained

Geology

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

Landform

Rel/Slope Class: Gently undulating rises 9-30m 1-3% **Pattern Type:** Hills

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

Surface Soil Condition Firm, Hardsetting

Erosion

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Ferric Calcic Red Dermosol		Principal Profile Form:	Gn4.13
ASC Confidence:		Great Soil Group:	N/A
Confidence level not specified			

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments ; 2-10%, , angular, Granulite

Profile Morphology

Ap	0 - 0.15 m	Dark brown (7.5YR3/3-Moist); ; Sandy clay loam; Moderate grade of structure, 5-10 mm, Subangular
		blocky; Firm consistence; Field pH 7 (pH meter); Clear, Wavy change to -
B	0.15 - 0.35 m	Dark red (2.5YR3/6-Moist); ; Sandy light clay; Moderate grade of structure, 10-20 mm, Angular blocky;
		Firm consistence; Soil matrix is Slightly calcareous; Field pH 9 (pH meter); Clear, Wavy change to -
	0.35 - 0.5 m	; Strong grade of structure, 10-20 mm, Angular blocky; Very firm consistence;
	0.5 - 0.6 m	; Very strong consistence;

Morphological Notes

Cemented by iron and with coatings of CaCO₃ on upper surface - Coffee Rock.
Cemented weathered granite.

Observation Notes

Site Notes

Ferric calcic red dermosol.

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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 - 0.1	5.8B 6.6H	7B	5.07A	1.29	0.72	0.13			7.21D	
0.25 - 0.45	8.3B 9.2H 8.3B	22B	5.81E 5.81E	3.74 3.74	0.12 0.12	1.55 1.55		14B 14B	11.22D 11.22D	11.07
0.25 - 0.45	9.2H 8.3B 9.2H 8.3B 9.2H	22B	5.81E 5.81E	3.74 3.74	0.12 0.12	1.55 1.55		14B 14B	11.22D 11.22D	11.07

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 - 0.1		1.04D		210B	0.081E			6.8
19.4								
0.25 - 0.45	2C	0.42D		120B	0.039E			6.5
44.4								
	2C	0.42D		120B	0.039E			6.5
	44.4							
0.25 - 0.45	2C	0.42D		120B	0.039E			6.5
44.4								
	2C	0.42D		120B	0.039E			6.5
	44.4							

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
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
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

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7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)
P106001000	600 to 1000u particle size analysis, (method not recorded)