Project Name: **Three Springs Latham land resources survey**
Project Code: **TSL** **Site ID:** **0321** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Cameron Weeks
Date Desc.: 09/08/93
Map Ref.:
Northing/Long.: 6731942 AMG zone: 50
Easting/Lat.: 447777 Datum: AGD84
Locality:
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: Well drained

Geology

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

Landform

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

Morph. Type: Crest
Elem. Type: Hillcrest
Slope: 1 %
Relief: No Data
Slope Category: No Data
Aspect: No Data

Surface Soil Condition

Hardsetting, Hardsetting

Erosion

Soil Classification

Australian Soil Classification:
Haplic Eutrophic Brown Kandosol
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Gn4.31
Great Soil Group: N/A

Site Disturbance

Cultivation. Rainfed

Vegetation

Surface Coarse Fragments

Profile Morphology

Ap 0 - 0.12 m Brown (10YR4/3-Moist); ; Sandy clay loam; Moderate grade of structure, 20-50 mm, Subangular blocky; Moist; Weak consistence; Soil matrix is Slightly calcareous; Field pH 7.2 (pH meter); Clear, Wavy change to -

B1 0.12 - 0.43 m Brown (7.5YR4/4-Moist); , 10YR43, 20-50% , 5-15mm, Faint; Sandy light clay; Weak grade of structure, 10-20 mm, Subangular blocky; Moist; Very firm consistence; 10-20%, Quartz, coarse fragments; Silcrete, Weakly cemented; Field pH 7.2 (pH meter); Gradual, Wavy change to -

B2 0.43 - 0.6 m Brown (7.5YR4/4-Moist); Mottles, 10YR53, 10-20% , 5-15mm, Distinct; Sandy light clay; Weak grade of structure, 10-20 mm, Angular blocky; Moist; Firm consistence; Field pH 6.3 (pH meter); Clear, Irregular change to -

R 0.6 - m Rock

Morphological Notes

Ap Common fine roots.
B1 Texture variable depending on amount of quartz grains. Layer appears to be weakly cemented. Common fine roots.
B2 Large roots from previous vegetation extend into this layer. More coarse material than layer 2.

Observation Notes

Site Notes

Remnants of old tree roots in 2nd and 3rd layers.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	6.3B 7.2H	12B	4.39A	1.73	0.78	0.61			7.51D	
0.25 - 0.35	6B 6.7H	34B	2.99A	3.44	0.6	1.04			8.07D	
0.5 - 0.6	5.6B 6.2H	51B	3.68H	4.22	0.57	1.48	0.02J		9.95D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
		Clay						GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 20.1		1.1D		230B	0.068E						7.5
0.25 - 0.35 43.2		0.61D		82B	0.039E						4.4
0.5 - 0.6 53.6		0.65D		90B	0.044E						3.5

Laboratory Analyses Completed for this profile

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

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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)