

Project Name: Three Springs Latham land resources survey
Project Code: TSL **Site ID:** 0691 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Christopher Grose	Locality:
Date Desc.: 21/03/94	Elevation: No Data
Map Ref.:	Rainfall: No Data
Northing/Long.: 6723113 AMG zone: 50	Runoff: No Data
Easting/Lat.: 370967 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: Undulating plains <9m 3-10%	Pattern Type: Plain
Morph. Type: Lower-slope	Relief: No Data
Elem. Type: Plain	Slope Category: No Data
Slope: %	Aspect: No Data

Surface Soil Condition Soft

Erosion (wind); (scald) (sheet) (wave) (rill) (mass)
(gully) (stbank) (tunnel)

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Bleached-Mottled Mesotrophic Yellow Chromosol	Principal Profile Form: Dy5.42
ASC Confidence:	Great Soil Group: N/A
No analytical data are available but confidence is fair.	

Site Disturbance Cultivation. Rainfed

Vegetation

Surface Coarse Fragments

Profile Morphology

Ap	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Loamy sand; Weak grade of structure, 20-50 mm; Earthy fabric;
		Dry; Very weak consistence; Water repellent; Field pH 5.8 (pH meter); Clear change to -
A2e	0.1 - 0.55 m	Pale brown (10YR6/3-Moist); ; Clayey sand; Earthy fabric; Dry; Very weak consistence;
	Field pH 5.5 (pH	meter); Abrupt, Wavy change to -
B1	0.55 - 1.05 m	Yellowish brown (10YR5/8-Moist); , 10YR72, 20-50% , 15-30mm, Prominent; Sandy clay loam; Dry; Firm
		consistence; 20-50%, Ironstone, coarse fragments; Field pH 6.7 (pH meter); Diffuse change to -
B2	1.05 - 2 m	Yellowish brown (10YR5/8-Moist); , 10YR72, 10-20% , 15-30mm, Prominent; Clayey sand; Dry; Very firm
		consistence; 20-50%, Ironstone, coarse fragments; Field pH 6.9 (pH meter);
	2 - m	; Clayey sand;

Morphological Notes

Observation Notes

Site Notes

Paddock in pasture. Many grey mottles appear to be vertically oriented. Many gravels are strongly weathered.

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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	5.2B 5.9H	10B	2.5H	0.49	0.29	0.08	<0.02J		3.36D	
0.1 - 0.55	4.7B 5.5H	1B	0.25H	0.07	0.04	0.02	0.02J		0.38D	
0.55 - 1.05	6B 6.3H	4B	2H	1.7	0.18	0.1	<0.02J		3.98D	
1.15 - 1.5	6B 6.2H	21B	2.2H	2.5	0.26	0.16	<0.02J		5.12D	

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		1.17D		100B	0.101E			94I 2.5
0.1 - 0.55		0.1D		22B	0.01E			96.5I 1.5
0.55 - 1.05		0.08D		37B	0.011E			57.5I 4
1.15 - 1.5		0.05D		39B	0.011E			41I 4.5

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
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
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