Project Name: **Three Springs Latham land resources survey**
Project Code: **TSL** **Site ID:** **0697** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Christopher Grose	**Locality:**	
Date Desc.:	22/03/94	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6731437 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	372187 Datum: AGD84	**Drainage:**	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 rises 9-30m 3-10%	**Pattern Type:**	Hills
Morph. Type:	Flat	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	1 %	**Aspect:**	No Data

Surface Soil Condition

Loose

Erosion

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

Soil Classification

Australian Soil Classification:
Petroferric Yellow Kandosol

ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Gn2.41
Great Soil Group: N/A

Site Disturbance

Cultivation. Rainfed

Vegetation

Surface Coarse Fragments

10-20%, , rounded, Ironstone

Profile Morphology

Ap 0 - 0.15 m Dark yellowish brown (10YR4/4-Moist); ; Fine sandy clay loam; Weak grade of structure, 20-50 mm, Platy;
Dry; Very weak consistence; 20-50%, Ironstone, coarse fragments; Field pH 5.1 (pH meter); Clear
change to -

B 0.15 - 0.75 m Yellowish brown (10YR5/6-Moist); ; Clay loam, sandy; Dry; Very weak consistence; 50-90%, Ironstone,
coarse fragments; Field pH 6.8 (pH meter); Abrupt, Wavy change to -

C 0.75 - 1.6 m ; Dry; 50-90%, Ironstone, coarse fragments;

Morphological Notes

B	20cm - 50cm
C	Laterite

Observation Notes

Site Notes

Almost level area in area of indulating low hills.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	4.8B 5.6H	4B	2.4H	0.8	0.3	0.11	0.11J		3.61D	
0.15 - 0.4	5.6B 6.3H	2B	3H	1.3	0.02	0.11	<0.02J		4.43D	
0.4 - 0.75	6.1B 6.8H	2B	3.2A	1.9	0.04	0.09			5.23D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
		Clay									
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.1 12		1.2D		260B	0.08E				79I		9
0.15 - 0.4 23.5		0.31D		58B	0.024E				66I		10.5
0.4 - 0.75 26		0.25D		53B	0.019E				63.5I		10.5

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_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