Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **1775** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 23/06/94
Map Ref.:
Northing/Long.: 6325530 AMG zone: 50
Easting/Lat.: 482040 Datum: AGD84
Locality:
Elevation: 320 metres
Rainfall: No Data
Runoff: No Data
Drainage: Moderately well drained

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10%
Pattern Type: Low hills

Morph. Type: Upper-slope
Elem. Type: Hillslope
Slope: 2 %
Relief: 30 metres
Slope Category: No Data
Aspect: 45 degrees

Surface Soil Condition Soft

Erosion: (wind); (sheet) (rill) (gully)

Soil Classification

Australian Soil Classification:
Mottled Magnesic-Natric Yellow Kurosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Dy5.22
Great Soil Group: N/A

Site Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse 20-50%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile

A1 0 - 0.1 m Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Loamy coarse sand; Single grain grade of structure;
Moist; 10-20%, medium gravelly, 6-20mm, subangular, , coarse fragments; Field pH 6 (Raupach);
Abrupt, Wavy change to -

A2 0.1 - 0.25 m Brown (10YR4/3-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Wet; 10-20%, medium
gravelly, 6-20mm, subangular, , coarse fragments; Field pH 6 (Raupach); Abrupt change to -

B2 0.25 - 0.4 m Light yellowish brown (10YR6/4-Moist); Mottles, 10YR36, 20-50% , 15-30mm, Prominent; Light medium
clay; Strong grade of structure; Smooth-ped fabric; Moderately moist; Field pH 5.5 (Raupach); Gradual
change to -

B3 0.4 - 0.7 m Light brownish grey (10YR6/2-Moist); , 2.5YR44, 10-20% , 15-30mm, Distinct; Medium clay; Strong
grade of structure; Smooth-ped fabric; Dry; Field pH 7 (Raupach);

Morphological Notes

B2 Kaolinitic clay
B3 Kaolinitic clay

Observation Notes

Site Notes

Site is 10m downslope of a subdued breakaway

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations	Exchangeable	CEC	ECEC	ESP

m		dS/m	Ca	Mg	K	Na	Acidity	Cmol (+)/kg				%
0.25 - 0.4	4.2B 4.8H	49B	0.29H	0.73	0.19	0.68	0.02J			1.89D		

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt
m	%	Clay %	mg/kg	%	%	%	Mg/m3			%	
0.25 - 0.4 60									33.5I		6.5

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
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
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded