Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **0072** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By: Heather Percy
Date Desc.: 25/10/91
Map Ref.:
Northing/Long.: 6261740 AMG zone: 50
Easting/Lat.: 587520 Datum: AGD84
Locality:
Elevation: 320 metres
Rainfall: No Data
Runoff: No Data
Drainage: Moderately well drained

Geology

ExposureType: Existing vertical exposure
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

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

Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 2 %
Relief: 20 metres
Slope Category: No Data
Aspect: 270 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification:
Mesotrophic Hypernatric Brown Sodosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.
Mapping Unit: N/A
Principal Profile Form: Dy2.42
Great Soil Group: N/A

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

Vegetation:

Surface Coarse 2-10%, medium gravelly, 6-20mm, rounded, Ironstone; No surface coarse fragments

Profile

A11 0 - 0.02 m Grey (10YR5/1-Moist); , 0-0% ; Clayey fine sand; Single grain grade of structure; Dry; 0-2%, Quartz, coarse fragments; Water repellent; Field pH 6 (Raupach); Abundant, fine (1-2mm) roots; Sharp, Smooth change to -

A12 0.02 - 0.09 m Brown (10YR5/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; 10-20%, coarse fragments; Field pH 6 (Raupach); Many, medium (2-5mm) roots; Abrupt change to -

A2e 0.09 - 0.11 m Pale brown (10YR6/3-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Dry; 20-50%, Quartz, coarse fragments; Field pH 6 (Raupach); Common, medium (2-5mm) roots; Abrupt change to -

B21 0.11 - 0.4 m Strong brown (7.5YR5/6-Moist); , 0-0% ; Sandy medium clay; Moderate grade of structure; Rough-ped fabric; Dry; Field pH 5.5 (Raupach); Few, fine (1-2mm) roots; Gradual change to -

B22 0.4 - 0.6 m Light yellowish brown (10YR6/4-Moist); Mottles, 10YR71, 2-10% , 5-15mm, Faint; Medium clay; Strong grade of structure; Smooth-ped fabric; Dry; Soil matrix is Slightly calcareous; Field pH 7.5 (Raupach);

Morphological Notes

A11	F A QZ & M R GC
A12	F A QZ & M R GC
A2e	F A QZ & M R GC
B21	SAMPLED

Observation Notes

Site Notes

V. Sandy gravel immediately downslope (gravel pit)

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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							%
0.11 - 0.4	4.5B 5.3H	27B	0.64H	2.3	0.18	1.22	0.22J		4.34D	
0.11 - 0.4	4.5B 5.3H	27B	0.64H	2.3	0.18	1.22	0.22J		4.34D	

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			%	
0.11 - 0.4 34									63I		3
0.11 - 0.4 34									63I		3

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_gt2m	> 2mm particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded