Project Name: **Katanning land resources survey**
Project Code: **KLC** **Site ID:** **2310** **Observation ID:** **1**
Agency Name: **Agriculture Western Australia**

Site Information

Desc. By:	Heather Percy	**Locality:**	
Date Desc.:	28/02/95	**Elevation:**	325 metres
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	6265070 AMG zone: 50	**Runoff:**	No Data
Easting/Lat.:	542480 Datum: AGD84	**Drainage:**	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	**Pattern Type:**	Rises
Morph. Type:	Mid-slope	**Relief:**	15 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	4 %	**Aspect:**	270 degrees

Surface Soil Condition Loose

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

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Dy5.41
Great Soil Group: N/A

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

Vegetation:

Surface Coarse 10-20%, medium gravelly, 6-20mm, angular, Quartz; No surface coarse fragments

Profile

A1p 0 - 0.15 m Very dark grey (10YR3/1-Moist); , 0-0% ; Loamy sand; Single grain grade of structure; Dry; Loose consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 5.5 (Raupach); Many, very fine (0-1mm) roots; Sharp, Smooth change to -

A21 0.15 - 0.3 m Brown (10YR5/3-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Moderately moist; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 10-20%, medium gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6.5 (Raupach); Many, very fine (0-1mm) roots; Clear change to -

A22e 0.3 - 0.42 m Light yellowish brown (10YR6/4-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; Moderately moist; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 10-20%, fine gravelly, 2-6mm, subrounded, , coarse fragments; Field pH 7 (Raupach); Few, very fine (0-1mm) roots; Clear, Wavy change to -

B2 0.42 - 0.55 m Light brownish grey (10YR6/2-Moist); Mottles, 2.5YR46, 20-50% , 15-30mm, Distinct; Medium clay; Moderate grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Dry; Field pH 6.5 (Raupach); Few, very fine (0-1mm) roots; Clear, Wavy change to -

B3 0.55 - 0.75 m Light grey (10YR7/2-Moist); Mottles, 2.5YR46, 20-50% , 15-30mm, Distinct; Light clay; Weak grade of structure, 10-20 mm, Polyhedral; Dry; Field pH 6 (Raupach);

Morphological Notes

B2 Some white feldspar minerals
B3 White feldspar minerals common

Observation Notes

Site Notes

Soil pit on Bronte Rundle's farm "Ucarro". Joint CSIRO/Ag. Dept. experiment site. Some gully erosion nearby.

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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	4.6B									
0.15 - 0.25	4.9B									
0.42 - 0.55	5.4B	6B	1.2A	8.6	0.05	1.1			10.95D	
	6.8H									
0.42 - 0.55	5.4B	6B	1.2A	8.6	0.05	1.1			10.95D	
	6.8H									
0.45 - 0.55	5.3B									

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											
0.15 - 0.25											
0.42 - 0.55									36I		4.5
59.5											
0.42 - 0.55									36I		4.5
59.5											
0.45 - 0.55											

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
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
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