

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 2309 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 28/02/95	Elevation: 320 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6264980 AMG zone: 50	Runoff: No Data
Easting/Lat.: 542280 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: Lower-slope	Relief: 10 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 4 %	Aspect: 270 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Dy3.41
	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

<p>A11 0 - 0.12 m structure; Dry; 2-10%, fine Gradual, Smooth</p>	<p>Very dark grey (10YR3/1-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of Loose consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; gravelly, 2-6mm, rounded, , coarse fragments; Water repellent; Field pH 5.5 (Raupach); change to -</p>
<p>A12 0.12 - 0.22 m structure; Dry; fragments; 2-10%, fine change to -</p>	<p>Dark greyish brown (10YR4/2-Moist); , 0-0% ; Clayey coarse sand; Massive grade of Very weak consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse gravelly, 2-6mm, rounded, , coarse fragments; Field pH 6 (Raupach); Clear, Wavy</p>
<p>A21j 0.22 - 0.32 m Dry; 10-20%, rounded, , Field pH 6</p>	<p>Greyish brown (10YR5/2-Moist); , 0-0% ; Clayey coarse sand; Massive grade of structure; fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, coarse fragments; 2-10%, medium gravelly, 6-20mm, subrounded, , coarse fragments; (Raupach); Abrupt, Wavy change to -</p>
<p>A22e 0.32 - 0.35 m Dry; Loose 20%, medium Smooth change to -</p>	<p>Light grey (10YR7/2-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 10- gravelly, 6-20mm, subrounded, , coarse fragments; Field pH 6.5 (Raupach); Sharp,</p>
<p>B2t 0.35 - 0.5 m Medium clay; consistence; Field</p>	<p>Light brownish grey (10YR6/2-Moist); Mottles, 7.5YR56, 20-50% , 5-15mm, Distinct; Moderate grade of structure, 20-50 mm, Polyhedral; Rough-ped fabric; Dry; Strong pH 6 (Raupach); Clear change to -</p>
<p>B3 0.5 - 0.7 m</p>	<p>Brownish yellow (10YR6/6-Moist); Mottles, 2.5YR46, 20-50% , 15-30mm, Distinct; Coarse</p>

sandy light
 Dry; 10-20%, fine
 20mm, subrounded,
 C 0.7 - 1 m
 Coarse sandy clay
 gravelly, 6-
 coarse fragments;

clay; Weak grade of structure, 20-50 mm, Polyhedral; Sandy (grains prominent) fabric;
 gravelly, 2-6mm, subangular, Quartz, coarse fragments; 20-50%, medium gravelly, 6-
 , coarse fragments; Field pH 5.5 (Raupach); Gradual change to -
 Light brownish grey (10YR6/2-Moist); Mottles, 2.5YR4/6, 20-50% , 15-30mm, Distinct;
 loam; Massive grade of structure; Sandy (grains prominent) fabric; Dry; 20-50%, medium
 20mm, angular, Quartz, coarse fragments; 20-50%, fine gravelly, 2-6mm, rounded, ,
 Field pH 6 (Raupach);

Morphological Notes

C Weathered granite

Observation Notes

Site Notes

Soil pit at Bronte Rundle's farm "Ucarro". Pit on lower slope in CSIRO/Dept. Agriculture experiment.

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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	4.6B									
0.15 - 0.25	4.7B									
0.35 - 0.5	5B	8B	0.08A	3	0.08	1.3			4.46D	
	6.6H									
0.35 - 0.5	5B	8B	0.08A	3	0.08	1.3			4.46D	
	6.6H									
0.4 - 0.5	4.7B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size	Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS	Silt
0 - 0.1									
0.15 - 0.25									
0.35 - 0.5								64I	5.5
30.5									
0.35 - 0.5								64I	5.5
30.5									
0.4 - 0.5									

Laboratory Analyses Completed for this profile

15_NR_BSa Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
 15_NR_CMRR 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

	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