

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0810 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy
Date Desc.: 21/05/93
Map Ref.:
Northing/Long.: 6244320 AMG zone: 50
Easting/Lat.: 542740 Datum: AGD84
Locality:
Elevation: 312 metres
Rainfall: No Data
Runoff: No Data
Drainage: Imperfectly drained

Geology

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

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Upper-slope
Elem. Type: Hillslope
Slope: 3 %
Pattern Type: Rises
Relief: 20 metres
Slope Category: No Data
Aspect: 225 degrees

Surface Soil Condition Hardsetting, Hardsetting

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

Soil Classification

Australian Soil Classification: N/A
Mapping Unit: N/A
Principal Profile Form: Dy3.13
ASC Confidence: Confidence level not specified
Great Soil Group: N/A

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

Vegetation:

Surface Coarse No surface coarse fragments; 2-10%, , subangular, Granite

Profile

A1 0 - 0.12 m structure, 20-50 mm, angular, Quartz, change to -	Very dark greyish brown (10YR3/2-Moist); , 0-0% ; Sandy clay loam; Weak grade of Subangular blocky; Rough-ped fabric; Firm consistence; 2-10%, fine gravelly, 2-6mm, coarse fragments; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Sharp, Wavy
B2t 0.12 - 0.4 m Light medium gravelly, 2-6mm, roots; Abrupt	Light yellowish brown (10YR6/4-Moist); Mottles, 7.5YR56, 20-50% , 5-15mm, Distinct; clay; Moderate grade of structure; Rough-ped fabric; Very firm consistence; 0-2%, fine angular, Quartz, coarse fragments; Field pH 7.5 (Raupach); Common, very fine (0-1mm) change to -
B3 0.4 - 0.5 m medium clay;	White (10YR8/1-Moist); Substrate influence, 10YR63, 20-50% , 15-30mm, Distinct; Light Weak grade of structure; Rough-ped fabric; Dry; Field pH 8.5 (Raupach);

Morphological Notes

A1 Parting to strong granular (size 3) very slight dispersion
 B2t Cutans, many district topsoil- 10yr3/2
 B3 Kaolinised clay

Observation Notes

Site Notes

Flat Rocks Road - site 50 metres downslope of gravelly crest/upper slope (Ca4) unit

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Cations	Na	Exchangeable	CEC	ECEC	ESP
m		dS/m		Mg K	Acidity				%
					Cmol (+)/kg				

0 - 0.1	5.7B										
0.12 - 0.32	6.5B 8H	12B	0.64E	2.6	0.13	2.02		9B	5.39D	22.44	
0.12 - 0.32	6.5B 8H	12B	0.64E	2.6	0.13	2.02		9B	5.39D	22.44	
0.12 - 0.32	6.5B 8H	12B	0.64E	2.6	0.13	2.02		9B	5.39D	22.44	
0.15 - 0.25	6.4B										
0.4 - 0.5	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									
0.12 - 0.32	<2C							52.5I	6
41.5									
0.12 - 0.32	<2C							52.5I	6
41.5									
0.12 - 0.32	<2C							52.5I	6
41.5									
0.15 - 0.25									
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_CMV	Exchangeable bases (Ca/Mg ratio) - Not recorded
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5,
pretreatment for	soluble salts
15C1_CEC	CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for
soluble salts	
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, 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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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