

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 2315 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 12/04/95	Elevation: 310 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6298670 AMG zone: 50	Runoff: No Data
Easting/Lat.: 515400 Datum: AGD84	Drainage: Rapidly 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: No Data	Pattern Type: Rises
Morph. Type: Upper-slope	Relief: 30 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 3 %	Aspect: 135 degrees

Surface Soil Condition Loose

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: Uc2.12
	Great Soil Group: N/A

Site Highly disturbed, for example, quarrying, roadworks, mining, landfill, urban

Vegetation:

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

Profile

A11 Loose	0 - 0.08 m	Dark grey (10YR4/1-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Dry; consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Water repellent; Field pH 6 (Raupach); Abrupt, Wavy change to -
A12	0.08 - 0.25 m	Grey (10YR5/1-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Dry; Loose consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Water repellent; Field pH 5 (Raupach); Clear, Wavy change to -
A21e Loose	0.25 - 0.5 m	Light grey (10YR7/2-Moist); , 0-0% ; Coarse sand; Single grain grade of structure; Dry; consistence; 10-20%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 6.5 (Raupach); Diffuse, Smooth change to -
A22e	0.5 - 1 m	Very pale brown (10YR7/3-Moist); Mottles, 10YR66, 2-10% , 30-mm, Distinct; Coarse grain grade of structure; Moderately moist; Loose consistence; 20-50%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 7 (Raupach); Abrupt, Wavy change to -
Bcm	1 - 1.3 m	Yellowish brown (10YR5/6-Moist); Mechanical, 10YR73, 10-20% , 15-30mm, Distinct; structure; Dry; Very strong consistence; 20-50%, medium gravelly, 6-20mm, subangular, , fragments; 20-50%, coarse gravelly, 20-60mm, subangular, , coarse fragments; Very Ferruginous, Coarse (6 - 20 mm), Nodules; Field pH 6.5 (Raupach);

Morphological Notes

A21e	CEC %clay
A22e	CEC %clay
Bcm	White sand matrix - CKS

Observation Notes

Site Notes

Soil pit in Wedgecarrup catchment

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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 5.7H	2B								
0 - 0.1	4.6B 5.7H	2B								
0.4 - 0.5	4.5B 5.6H	1B	0.87H	2.9	0.03	1.2	0.04J		5D	
0.4 - 0.5	4.5B 5.6H	1B	0.87H	2.9	0.03	1.2	0.04J		5D	
0.5 - 0.8	4.9B 5.9H	1B	0.05H	<0.02	<0.02	<0.02	0.02J		0.08D	
0.5 - 0.8	4.9B 5.9H	1B	0.05H	<0.02	<0.02	<0.02	0.02J		0.08D	
0.8 - 1	5.2B 6.1H	1B	0.04H	<0.02	<0.02	<0.02	0.02J		0.07D	
0.8 - 1	5.2B 6.1H	1B	0.04H	<0.02	<0.02	<0.02	0.02J		0.07D	
1 - 1.3	5.5B 6.5H	1B	0.4H	0.35	0.11	0.02	0.02J		0.88D	
1 - 1.3	5.5B 6.5H	1B	0.4H	0.35	0.11	0.02	0.02J		0.88D	
1 - 1.3	5.5B 6.5H	1B	0.4H	0.35	0.11	0.02	0.02J		0.88D	

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.1		0.82D		43B	0.035E			
0 - 0.1		0.82D		43B	0.035E			
0.4 - 0.5								99.5I 0
0.4 - 0.5								99.5I 0
0.5 - 0.8								99.5I 0
0.5 - 0.8								99.5I 0
0.8 - 1								99I 0
0.8 - 1								99I 0
1 - 1.3								92.5I 1
1 - 1.3								92.5I 1
1 - 1.3								92.5I 1

Laboratory Analyses Completed for this profile

13C1_AL Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
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
18A1_NR	Bicarbonate-extractable potassium (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
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9B_NR	Bicarbonate-extractable phosphorus (not recorded)
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