

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 0221 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 22/05/92	Elevation: 290 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6268430 AMG zone: 50	Runoff: No Data
Easting/Lat.: 511960 Datum: AGD84	Drainage: Moderately well drained

Geology

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

Land Form

Rel/Slope Class: Undulating low hills 30-90m 3-10% **Pattern Type:** Low hills

Morph. Type: Mid-slope	Relief: 40 metres
Elem. Type: Hillslope	Slope Category: No Data
Slope: 3 %	Aspect: 315 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 No surface coarse fragments; No surface coarse fragments

Profile

Ap	0 - 0.13 m	Dark grey (10YR4/1-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Moderately moist; Very weak consistence; Field pH 5 (Raupach); Abundant, fine (1-2mm) roots; Clear, Wavy change to -
A2	0.13 - 0.2 m of structure; coarse	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Clayey coarse sand; Single grain grade of structure; Moderately moist; Very weak consistence; 20-50%, coarse gravelly, 20-60mm, rounded, , fragments; Field pH 5.5 (Raupach); Many, fine (1-2mm) roots; Clear change to -
B21	0.2 - 0.4 m grade of (Raupach); Many, fine	Yellow (10YR7/7-Moist); Mottles, 7.5YR68, 2-10% , 0-5mm, Distinct; Medium clay; Strong structure; Smooth-ped fabric; Moderately moist; Firm consistence; Field pH 4.5 (1-2mm) roots; Clear change to -
B22	0.4 - 0.6 m clay; Strong (Raupach);	Very pale brown (10YR7/4-Moist); Mottles, 7.5YR68, 10-20% , 15-30mm, Distinct; Light grade of structure; Rough-ped fabric; Moderately moist; Firm consistence; Field pH 4.5 Common, fine (1-2mm) roots; Clear change to -
B3	0.6 - 0.85 m Prominent; Substrate Smooth-ped to -	Very pale brown (10YR7/4-Moist); Substrate influence, 10R48, 20-50% , 15-30mm, influence, 7.5YR68, 20-50% , 15-30mm, Distinct; Clay loam; Moderate grade of structure; fabric; Moderately moist; Very firm consistence; Field pH 4.5 (Raupach); Gradual change to -
C	0.85 - 1 m Substrate influence, Moderately moist; Field pH 4.5	White (10YR8/1-Moist); Substrate influence, 10R54, 20-50% , 15-30mm, Distinct; 10R48; Clay loam, coarse sandy; Moderate grade of structure; Smooth-ped fabric; Very firm consistence; 10-20%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments;

(Raupach);

Morphological Notes

Ap Wavy horizon due to cultivation
A2 Colluvial gravel and 5% fine sub angular quartz
B21 pH 1:5 water
B3 Kaolinite clay - subplastic
C Kaolinitic clay - mottled pallid zone

Observation Notes

Site Notes

Site located in high water use catchment - 52 Creek next to piezometer site no. WW82S (Wooldridge/Wright)

Project Name: Katanning land resources survey

Project Code: KLC

Site ID: 0221

Observation 1

Agency Name: Agriculture Western Australia

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 - 0.11	4.53B									
0.14 - 0.21	4.44B									
0.2 - 0.4	4.6B	12B	1.05H	1.55	0.04	0.54	0.21J		3.18D	
	5.4H									
0.2 - 0.4	4.6B	12B	1.05H	1.55	0.04	0.54	0.21J		3.18D	
	5.4H									
0.31 - 0.41	4.25B									

Depth	CaCO3	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3				%
0 - 0.11											
0.14 - 0.21											
0.2 - 0.4									31.5l		9
59.5											
0.2 - 0.4									31.5l		9
59.5											
0.31 - 0.41											

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