

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 1358 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 27/09/93	Elevation: 290 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6324470 AMG zone: 50	Runoff: No Data
Easting/Lat.: 571280 Datum: AGD84	Drainage: Imperfectly 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: Level plain <9m <1%	Pattern Type: Alluvial plain
Morph. Type: Flat	Relief: 2 metres
Elem. Type: Plain	Slope Category: No Data
Slope: 0 %	Aspect: No Data

Surface Soil Condition Firm

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

Soil Classification

Australian Soil Classification:	Mapping Unit: N/A
Calcic Mottled-Hypenatric Grey Sodosol	Principal Profile Form: Dy5.23
ASC Confidence:	Great Soil Group: N/A
Confidence level not specified	

Site No effective disturbance. Natural

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

A1	0 - 0.05 m	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moderately
A21	0.05 - 0.1 m	Yellowish brown (10YR5/4-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moderately
A22	0.1 - 0.15 m	Light yellowish brown (10YR6/4-Moist); , 0-0% ; Clayey sand; Single grain grade of structure; Moderately moist; Field pH 6 (Raupach); Common, coarse (>5mm) roots; Abrupt, Wavy change to -
B21	0.15 - 0.45 m	Light brownish grey (2.5Y6/2-Moist); Mottles, 2.5Y64, 20-50% , 15-30mm, Distinct; Sandy light medium
		clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Field pH 5.5 (Raupach); Abrupt change to -
B22k	0.45 - 0.65 m	Light yellowish brown (2.5Y6/4-Moist); Mottles, 2.5Y66, 10-20% , 15-30mm, Distinct; Sandy light medium
		clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Common (10 - 20 %), Calcareous, Coarse (6 - 20 mm), Nodules; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach); Clear change to -
B3	0.65 - 1 m	Light brownish grey (10YR6/2-Moist); Mottles, 10YR58, 10-20% , 15-30mm, Distinct; Sandy light clay; Weak grade of structure; Rough-ped fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 8.5 (Raupach);

Morphological Notes

Observation Notes

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Observation 1

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	5.3B									
0 - 0.1	5.3B									
0.15 - 0.35	5.7B	97B	1.78H	5.49	0.06	3.16	0.02J		10.49D	
0.15 - 0.35	5.7B	97B	1.78H	5.49	0.06	3.16	0.02J		10.49D	
0.15 - 0.25	4.4B									
0.35 - 0.45	7.1B									

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 - 0.1								
0.15 - 0.35								63.5I 4
0.15 - 0.35								63.5I 4
0.15 - 0.25								
0.35 - 0.45								

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