

Project Name: Katanning land resources survey
Project Code: KLC **Site ID:** 1552 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By: Heather Percy	Locality:
Date Desc.: 03/11/93	Elevation: 287 metres
Map Ref.:	Rainfall: No Data
Northing/Long.: 6296780 AMG zone: 50	Runoff: No Data
Easting/Lat.: 581640 Datum: AGD84	Drainage: Poorly 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 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: Dy2.13
	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

A1p 0 - 0.1 m Dry; Field pH 6	Dark greyish brown (10YR4/2-Moist); , 0-0% ; Clayey sand; Massive grade of structure; (Raupach); Abrupt change to -
B21 0.1 - 0.15 m Massive	Brown (10YR5/3-Moist); Mottles, 5YR54, 2-10% , 0-5mm, Faint; Sandy light medium clay; grade of structure; Dry; Field pH 8 (Raupach); Abrupt change to -
B22 0.15 - 0.3 m structure; (Raupach); Clear	Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of Rough-ped fabric; Moderately moist; Soil matrix is Slightly calcareous; Field pH 9 change to -
B23 0.3 - 0.4 m structure; mm), Soft to -	Light brownish grey (2.5Y6/3-Moist); , 0-0% ; Sandy light medium clay; Moderate grade of Rough-ped fabric; Moderately moist; Common (10 - 20 %), Calcareous, Coarse (6 - 20 segregations; Soil matrix is Slightly calcareous; Field pH 9.5 (Raupach); Gradual change to -
B24 0.4 - 0.65 m light medium Calcareous, (Raupach); Abrupt	Light brownish grey (2.5Y6/3-Moist); Mottles, 10YR66, 10-20% , 5-15mm, Distinct; Sandy clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; Few (2 - 10 %), Medium (2 -6 mm), Nodules; Soil matrix is Moderately calcareous; Field pH 9.5 change to -
B25k 0.65 - 0.85 m light medium gravelly, 6- Coarse (6 - 20 mm), segregations; Soil matrix is	Light brownish grey (2.5Y6/2-Moist); Mottles, 10YR56, 10-20% , 5-15mm, Distinct; Sandy clay; Moderate grade of structure; Rough-ped fabric; Moderately moist; 10-20%, medium 20mm, subrounded, Calcrete, coarse fragments; Common (10 - 20 %), Calcareous, Nodules; Common (10 - 20 %), Calcareous, Very coarse (20 - 60 mm), Soft Moderately calcareous; Field pH 9.5 (Raupach);

Morphological Notes

A1p pH<6
 B21 Hard top
 B25k Stopped by coarse carbonate nodules

Observation Notes**Site Notes**

Site along the Datatine Road, on Buddy O'Donnell's property, near a piezometer nest. Water table within 100cm of surface (approx)

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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	8.5B									
0.1 - 0.3	7.9B 8.9H	58B	2.72E	5.83	0.07	6.7		13B	15.32D	51.54
0.1 - 0.3	7.9B 8.9H	58B	2.72E	5.83	0.07	6.7		13B	15.32D	51.54
0.1 - 0.3	7.9B 8.9H	58B	2.72E	5.83	0.07	6.7		13B	15.32D	51.54
0.15 - 0.25	8.2B									
0.4 - 0.5	5.2B									

Depth	CaCO ₃	Organic C Clay	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	%	mg/kg	%	%	%	Mg/m ³	GV CS FS Silt
0 - 0.1								
0.1 - 0.3	<2C							64.5I 3
0.1 - 0.3	<2C							64.5I 3
0.1 - 0.3	<2C							64.5I 3
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_CMR 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