Project Name: CAN
Project Code: CAN **Site ID:** CP127 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (VIC)

Site Information

Desc. By:	C.L. Watson	**Locality:**	Middle Hillgay Road above very deep gully
Date Desc.:	13/10/78	**Elevation:**	80 metres
Map Ref.:	Sheet No. : SJ7222 1:100000	**Rainfall:**	670
Northing/Long.:	141.633333333333	**Runoff:**	Moderately rapid
Easting/Lat.:	-37.6333333333333	**Drainage:**	Imperfectly drained

Geology

ExposureType:	No Data	**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:	Upper-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	Gently inclined
Slope:	5 %	**Aspect:**	0 degrees

Surface Soil Condition (dry): Self-mulching, Cracking

Erosion:

Soil Classification

Australian Soil Classification:
Episodic Self-Mulching Black Vertosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Mapping Unit: N/A
Principal Profile Form: Ug5.15
Great Soil Group: Black earth

Site Disturbance: Cultivation. Rainfed

Vegetation: Low Strata - Sod grass, , . *Species includes - Phalaris aquatica

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Silty medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Weak consistence; Field pH 6 (pH meter); Gradual change to -
0.1 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); , 10YR43, 2-10% ; , 2-10% ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Field pH 6.3 (pH meter);
0.2 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); , 10YR43, 2-10% ; , 2-10% ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Field pH 6.7 (pH meter);
0.3 - 0.4 m	Very dark greyish brown (10YR3/2-Moist); , 10YR43, 2-10% ; , 2-10% ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Field pH 7.1 (pH meter); Sharp change to -
0.4 - 0.5 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Field pH 7.5 (pH meter);
0.5 - 0.6 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Field pH 7.8 (pH meter);
0.6 - 0.7 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Field pH 7.8 (pH meter); Sharp change to -
0.7 - 0.8 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Firm consistence; Field pH 8 (pH meter);
0.8 - 0.9 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Firm consistence; Field pH 8 (pH meter);
0.9 - 1 m	Dark greyish brown (10YR4/2-Moist); ; Medium heavy clay; Strong grade of structure, 2-5 mm, Angular blocky; Firm consistence; Field pH 7.9 (pH meter); Gradual change to -
1 - 1.1 m	Reddish brown (2.5YR5/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Field pH 7.7 (pH meter);

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1.1 - 1.2 m	Reddish brown (2.5YR5/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Field pH 7.7 (pH meter);
1.2 - 1.3 m	Reddish brown (2.5YR5/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Field pH 7.7 (pH meter);
1.3 - 1.4 m	Reddish brown (2.5YR5/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Field pH 7.7 (pH meter);
1.4 - 1.5 m	Reddish brown (2.5YR5/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Field pH 7.7 (pH meter);
1.5 - 1.6 m	Reddish brown (2.5YR5/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Field pH 7.6 (pH meter);
1.6 - 1.7 m	Reddish brown (2.5YR5/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Field pH 7.8 (pH meter);
1.7 - 1.8 m	Reddish brown (2.5YR5/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Very weak consistence; Moderately plastic; Field pH 7.6 (pH meter); Sharp change to -
1.8 - 1.9 m	Yellowish brown (10YR5/6-Moist); , 10YR61, 20-50% ; , 10YR21, 20-50% ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Weak consistence; Field pH 7.7 (pH meter);
1.9 - 2 m	Yellowish brown (10YR5/6-Moist); , 10YR61, 20-50% ; , 10YR21, 20-50% ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Weak consistence; Field pH 7.7 (pH meter);

Morphological Notes

Observation Notes

SHINY SURFACES >10CM

Site Notes

COLERAINE

Project Name: CAN
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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	6A	0.09A	4.9K	9	0.92	1.9	22.9B	39.6J		4.80
0.1 - 0.2	6.3A	0.12A								
0.2 - 0.3	6.7A	0.17A								
0.3 - 0.4	7.1A	0.25A								
0.4 - 0.5	7.5A	0.39A								
0.5 - 0.6	7.8A	0.62A								
0.6 - 0.7	7.8A	0.84A								
0.7 - 0.8	8A	1.02A								
0.8 - 0.9	8A	1.4A								
0.9 - 1	7.9A	1.5A								
1 - 1.1	7.7A	1.6A								
1.1 - 1.2	7.7A	1.7A								
1.2 - 1.3	7.7A	1.7A								
1.3 - 1.4	7.7A	1.7A								
1.4 - 1.5	7.7A	1.7A								
1.5 - 1.6	7.6A	1.6A								
1.6 - 1.7	7.8A	1.6A								
1.7 - 1.8	7.6A	1.5A								
1.8 - 1.9	7.7A	1.01A								
1.9 - 2	7.7A	0.88A								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		2.39D							4D	23	22	46
0.1 - 0.2												
0.2 - 0.3												
0.3 - 0.4												
0.4 - 0.5												
0.5 - 0.6												
0.6 - 0.7												
0.7 - 0.8												
0.8 - 0.9												
0.9 - 1												
1 - 1.1												
1.1 - 1.2												
1.2 - 1.3												
1.3 - 1.4												
1.4 - 1.5												
1.5 - 1.6												
1.6 - 1.7												
1.7 - 1.8												
1.8 - 1.9												
1.9 - 2												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	
m		g/g - m3/m3						mm/h	mm/h
0 - 0.1								0.21B	

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0.1 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.6
0.6 - 0.7
0.7 - 0.8
0.8 - 0.9
0.9 - 1
1 - 1.1
1.1 - 1.2
1.2 - 1.3
1.3 - 1.4
1.4 - 1.5
1.5 - 1.6
1.6 - 1.7
1.7 - 1.8
1.8 - 1.9
1.9 - 2

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
15G_C_AL1	Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance
P3B_GV_15	15 BAR Moisture g/g - Gravimetric using pressure plate