Project Name: BRK

Project Code: BRK Site ID: H112 Observation ID: 1

Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By: G.M. Dimmock Locality: On Malahide paddock 40m north from south

boundary:in proposed lanewaybetween experimental

paddocks:

 Date Desc.:
 26/04/55
 Elevation:
 No Data

 Map Ref.:
 Rainfall:
 790

 Northing/Long.:
 148.0316667
 Runoff:
 Rapid

Easting/Lat.: -41.60833333 Drainage: Imperfectly drained

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: No Data Substrate Material: Unconsolidated material (unidentified)

Land Form

Rel/Slope Class: Gently undulating plains <9m Pattern Type: Terrace (alluvial)

1-3%

Morph. Type:FlatRelief:0 metresElem. Type:LeveeSlope Category:Gently inclinedSlope:0 %Aspect:No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AEutrophic Petroferric Grey SodosolPrincipal Profile Form:Dy3.72

ASC Confidence: Great Soil Group: Gleyed podzolic

All necessary analytical data are available.

Site Disturbance: Complete clearing. Pasture, native or improved, but never cultivated

Vegetation:

Surface Coarse Fragments:

Profile Morphology									
	A11	0 - 0.05 m	Greyish brown (10YR5/2-Moist); ; Fine sandy loam; Weak grade of structure, 2-5 mm, Granular; Moderately moist; Weak consistence; Diffuse change to -						
	A12	0.05 - 0.1 m	Greyish brown (10YR5/2-Moist); ; Fine sandy loam; Weak grade of structure, 2-5 mm, Granular; Moderately moist; Firm consistence; 2-10%, Gravel, coarse fragments; Diffuse change to -						
	A21	0.13 - 0.2 m	Greyish brown (10YR5/2-Moist); , 10YR72; Fine sandy loam; Dry; Very firm consistence; 2-10%, rounded, Gravel, coarse fragments; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Diffuse change to -						
	A22	0.2 - 0.33 m	Light grey (10YR7/1-Moist); , 10YR62, 2-10%; , 2-10%; Fine sandy loam (Light); Common (1-5 per 100mm2) Fine (1-2mm) macropores, Dry; Very firm consistence; 10-20%, medium gravelly, 6-20mm, Quartz, coarse fragments; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Concretions; Ortstein, Strongly cemented, Massive; Sharp, Irregular change to -						
	В	0.34 - 0.53 m	Dark greyish brown (10YR4/2-Moist); , 10YR58; Heavy clay; Weak grade of structure, 50-100 mm, Prismatic; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Diffuse change to -						
	В	0.53 - 0.71 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Massive grade of structure; Moderately moist; Very firm consistence; 2-10%, Gravel, coarse fragments;						
	В	0.71 - 0.86 m	Dark greyish brown (10YR4/2-Moist); ; Heavy clay; Massive grade of structure; Moderately moist; Very firm consistence; 2-10%, medium gravelly, 6-20mm, rounded, Quartz, coarse fragments;						
	ВС	0.96 - 1.09 m	Yellowish brown (10YR5/8-Moist); , 10YR42; , 5Y31; Heavy clay; Moderately moist; Firm consistence; 2-10%, coarse gravelly, 20-60mm, Dolerite, coarse fragments;						
	С	1.09 - 1.17 m	Yellowish brown (10YR5/8-Moist); , 10YR42; , 5Y31; Heavy clay; Moderately moist; Very weak						

consistence; 2-10%, coarse gravelly, 20-60mm, Dolerite, coarse fragments;

Morphological Notes

Observation Notes

13-33CM <10% <2MM SOFT BLACK CONCRETIONS:

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Site Notes CORNWALL

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Laboratory	Test Re	esults:										
Depth	рН	1:5 EC		hangeable			Exchangeable	CEC	E	CEC	E	SP
m		dS/m	Са	Mg	К	Na Acidity Cmol (+)/kg					9	6
0 - 0.05 0.05 - 0.1	5.6A 5.1A		8.1H 7.9H	2.6 2	1.82 0.66	0.7 0.33	11.8E 12.9E			25B 3.8B		
0.13 - 0.2 0.2 - 0.33	5.4A 6.1A		6.8H 3.5H	1.2 0.91	0.26 0.09	0.41 0.15	9.2E 3.6E		8	7.9B 3.3B		
0.34 - 0.53			12H 15H	14.3 14.1	0.11	2.7 3.8	11.5E 8.3E		4	0.6B 1.3B		
0.71 - 0.86 0.96 - 1.09 1.09 - 1.17	6.6A 7.2A 7.3A		9H 9.8H 14.6H	6.6 6.1 16.6	0.13 0.11 0.05	4.5 5.2 6.4	5.7E 2.9E 3.9E		24	5.9B 4.1B 1.6B		
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	rticle S	ize A	nalysis	
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS I	FS %	Silt (Clay
0 - 0.05		4.37F 3.5D		0.039	0.37	'6A		0	9B	43	22	18
0.05 - 0.1		3.55F 2.9D		0.028	0.30)6A		4	9D	43	22	20
0.13 - 0.2 0.2 - 0.33		0.74F			0.05	55A		18	12D	46	24	17
0.34 - 0.53		0.6D 0.97F 0.6D		0.0120	0.08	89A		9	6B	13	6	74
0.53 - 0.71 0.71 - 0.86 0.96 - 1.09		0.02										
1.09 - 1.17								19	32D	24	8	38
Depth	COLE	Sat.	Grav 0.05 Bar	imetric/Volumetric V 0.1 Bar 0.5 Bar		Vater Contents 1 Bar 5 Bar		15 Bar			K unsat	
m				g/g	g - m3/m3	3			mm/h		mm/h	
0 - 0.05 0.05 - 0.1 0.13 - 0.2 0.2 - 0.33 0.34 - 0.53 0.53 - 0.71 0.71 - 0.86 0.96 - 1.09 1.09 - 1.17												

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Laboratory Analyses Completed for this profile

15E1_CA Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_K 15E1_MG Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_NA Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts

Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0 15G1_H 15J_H Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)

2_LOI Loss on Ignition (%) Air-dry moisture content 2A1 4A1 pH of 1:5 soil/water suspension

5A2 Chloride - 1:5 soil/water extract, automated colour

6_DC

Organic carbon (%) - Dry combustion
Organic carbon (%) - Uncorrected Walkley and Black method 6A1_UC Total nitrogen - semimicro Kjeldahl , automated colour 7A2

9A_HCL Total element - P(%) - By boiling HCI

P10_GRAV Gravel (%)

P10_PB_C P10_PB_CS Clay (%) - Plummet balance Coarse sand (%) - Plummet balance P10_PB_FS Fine sand (%) - Plummet balance P10_PB_Z Silt (%) - Plummet balance

P10A1_C Clay (%) - Pipette P10A1_CS Coarse sand (%) - Pipette P10A1_FS P10A1_Z Fine sand (%) - Pipette
Silt (%) - Pipette