

Project Name: APL
Project Code: APL **Site ID:** H273 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (TAS)

Site Information

Desc. By:	K.D. Nicholls	Locality:	Sammys Orchard
Date Desc.:	23/04/70	Elevation:	No Data
Map Ref.:		Rainfall:	800
Northing/Long.:	147.0666667	Runoff:	Slow
Easting/Lat.:	-42.99166667	Drainage:	Poorly drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	Auger boring, 1.4 m deep,Mudstone

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Terrace (alluvial)
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Eutrophic Mottled-Mesonatric Grey Sodosol		Principal Profile Form:	Dy3.42
ASC Confidence:		Great Soil Group:	Solodic soil
No analytical data are available but confidence is fair.			

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments:

Profile Morphology

Ap	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Sandy loam; Weak grade of structure, 2-5 mm, Subangular blocky; Moderately moist; Firm consistence; Non-plastic; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Diffuse change to -
A1	0.1 - 0.13 m	Dark greyish brown (10YR4/2-Moist); Light grey (10YR7/2-Dry); ; Sandy loam; Weak grade of structure, 2-5 mm, Subangular blocky; Moderately moist; Firm consistence; Non-plastic; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Clear change to -
A1A2	0.13 - 0.2 m	Dark greyish brown (10YR4/2-Moist); Light grey (10YR7/2-Dry); ; Sandy loam (Heavy); Weak grade of structure, 2-5 mm, Subangular blocky; Moderately moist; Very firm consistence; Non-plastic;
A2	0.2 - 0.24 m	Grey (10YR6/1-Dry); ; Sandy loam (Heavy); Massive grade of structure; Common (1-5 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Non-plastic; Few (2 - 10 %), Ferruginous, , ; Sharp, Tongued change to -
BA2	0.24 - 0.3 m	Dark greyish brown (10YR4/2-Moist); , 7.5YR56; Medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 20-50 mm, Subangular blocky; Fine, (0 - 5) mm crack; Moist; Firm consistence; Slightly plastic; Normal plasticity;
B	0.3 - 0.4 m	Dark greyish brown (2.5Y4/2-Moist); , 7.5YR58; Medium heavy clay; Moderate grade of structure, 50-100 mm, Prismatic; Moderate grade of structure, 20-50 mm, Subangular blocky; Fine, (0 - 5) mm crack; Moist; Very plastic; Normal plasticity; FewDiffuse change to -
B	0.4 - 0.5 m	Dark greyish brown (2.5Y4/2-Moist); , 7.5YR58; Medium heavy clay; Weak grade of structure, 50-100 mm, Prismatic; Weak grade of structure, 20-50 mm, Subangular blocky; Fine, (0 - 5) mm crack; Moist; Moderately plastic; Normal plasticity; FewDiffuse change to -
B	0.5 - 0.6 m	Strong brown (7.5YR5/8-Moist); , 2.5Y62; Medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Moist; Moderately plastic; Normal plasticity; Diffuse change to -
BC	0.6 - 0.7 m	Strong brown (7.5YR5/8-Moist); , 2.5Y62; Medium clay; Massive grade of structure; Moist; Moderately plastic; Normal plasticity; Diffuse change to -
BC	0.7 - 0.8 m	Strong brown (7.5YR5/8-Moist); , 2.5Y62; Medium clay; Massive grade of structure; Moist; Firm consistence; Non-plastic; Diffuse change to -

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C	0.8 - 1 m	Light brownish grey (2.5Y6/2-Moist); , 7.5YR58; , 10YR56; Heavy clay; Massive grade of structure; Moist; Weak consistence; Non-plastic; Common (10 - 20 %), Manganiferous, , Concretions; Diffuse change to -
	1.1 - 1.3 m	Light brownish grey (2.5Y6/2-Moist); , 7.5YR58; , 10YR56; Sandy light clay; Massive grade of structure; Weak consistence; Non-plastic; Few (2 - 10 %), Manganiferous, , Concretions; Diffuse change to -

Morphological Notes

Observation Notes

110-130CM RESIDUAL STRUCTURE OF HIGHLY W'D DR BOULDERS:ODD DR GV 20-200MM SCATTERED THROUGH PROFILE:

Site Notes

SAMMYS ORCHARD

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[illegible]

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Laboratory Analyses Completed for this profile

2_LOI	Loss on Ignition (%)
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
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
MIN_EC	Exchange Capacity - Minerology
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
XRD_C_Gt	Goethite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_K2O	K2O - X-Ray Diffraction or Clay Fraction (air dry)
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction
XRD_C_Vm	Vermiculite - X-Ray Diffraction