

COPYRIGHT NOTICE

This geotechnical log and its associated data (the Document) is licensed by Queensland Hydro Pty Ltd under the [Creative Commons Attribution 4.0 Licence](#) (CC BY 4.0). When reusing the Document, in whole or in part, please attribute as follows: "(c) *Queensland Hydro Pty Ltd 2025, licensed under the CC BY 4.0 Licence, prepared by WSP*". This licence does not apply to logos or trademarks.

LIMITATION OF LIABILITY

The CC BY 4.0 Licence contains a comprehensive Disclaimer of Warranties and Limitation of Liability. In addition, please note that this Document was prepared for Queensland Hydro Pty Ltd use only. Reuse of the Document by anyone for any other purpose could result in error and/or loss. You should obtain professional advice before making decisions based on the contents of the Document.

When reproducing any part of this Document, you must also reproduce this limitation of liability notice in addition to the italicised attribution statement above.

Retrieved from the Queensland Geotechnical Database <http://qgd.org.au/>



TEST PIT: TPUA-19

Sheet 1 of 1

Project: Pioneer-Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Upper Reservoir

Coords: 658216.1 m E 7667478.1 m N MGA2020-55

Contractor: Graeme Harte

Machine: 16t excavator Bucket Size: 0.9 m toothed

Date: 13/6/2024

Logged: PT

Excavation				Sampling		Field Material Description												
METHOD	EXCAVATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED	GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION	MOISTURE CONDITION	CONSISTENCY DENSITY	DCP TEST						
												Blows per 100 mm						
												0	5	10	15	20	25	
E			0.0	0.10	D 0.00-0.10 m			CI	Sandy CLAY: high plasticity, dark brown, sand is fine to medium grained.	w=PL	F							
			0.40	B 0.40-0.60 m		CL-ML	Clayey SILT: low to medium plasticity, brown and red brown, with fine to medium grained sand; (RESIDUAL SOIL).	w=PL	St									
			0.5															
			1.0							w=PL								
			1.5	1.50	D 1.60-1.70 m													
E	Groundwater Not Encountered		2.0															
			2.40	B 2.50-2.80 m		CI	Silty CLAY: medium plasticity, pale brown, trace fine grained sand; (RESIDUAL SOIL).		VSt									
			3.0															
			3.5	D 3.10-3.20 m					w<PL									
			4.0	3.90	D 4.20-4.30 m		CL-ML	Clayey SILT: low to medium plasticity, red brown, trace fine grained sand; (RESIDUAL SOIL).										
			4.5															
			5.0							w<PL								
			Hole Terminated at 5.00 m Target depth. Backfilled.														Checked	GEM
																	Date	30/11/2024
			Comments															

WSP-AU 5.06.1 LUB GLB Log IS AU TEST PIT 3C PIONEER_NIP 20240608 TH_GEM_04072024.GPJ <<DrawingFile>> 8/7/2024 19:28 10.03.00.09 Datagel Lab and In Situ Tool - DGD [Lib: WSP 5.06.1 2023-06-14 Proj: WSP 5.04.1 2023-06-14]



TPUA-19 - 1: Test pit excavation



TPUA-19 - 2: Test pit excavated spoil



TITLE	Queensland Hydro
	Netherdale
	Pioneer-Burdekin Pumped Hydro Energy
	Storage
	Photos - TPUA-19

DRAWN	TH	DATE	8/7/2024
CHECKED	GEM	DATE	30/11/2024
SCALE	Not To Scale		A4
PROJECT No	PS138693	FIGURE No	1/1

P:\PHES\L1B\GLB_G4\74 PHOTO TEST PIT 2 PER PAGE AAP TPUA-08.GPJ - <DrawingFile> 23/5/2024 09:57 10/03/00.05 D:\ppl\Lab and in Situ_Tod - DGD [Lib: WSP 5.07 2 2023 10-30 Proj: WSP 5.04 1 2023-06-14