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TEST PIT: TPL-09

Sheet 1 of 1

Project: Pioneer-Burdekin PHES

Position: Lower Reservoir

Location: Netherdale/Dalrymple Heights

Coords: 658139.6 m E 7667163.1 m N MGA2020-55

Client: Queensland Hydro

Contractor: Seaforth Civil

Date: 19/4/2024

Job No.: PS138693

Machine: Backhoe Bucket Size: 0.6 m toothed

Logged: NW/LH

| 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 | |
| BH | F | | 0.0 | 0.10 | D 0.00-0.10 m | | | SC | FILL Clayey SAND: fine to medium grained, brown, clay is low to medium plasticity; with fine grained gravel; trace low to medium plasticity silt; with rootlets. | D - M | L | | | | | | | | |
| | F-H | | 0.25 | | B 0.10-0.25 m D 0.10-0.25 m | | | SM | | D - VD | | | | | | | | | |
| | | | 0.40 | | B 0.25-0.40 m D 0.25-0.40 m | | | MH | FILL Silty SAND: fine to medium grained, pale-brown, with fine grained gravel; with medium plasticity clay. | VSt | | | | | | | | | |
| | | | 0.5 | | B 0.40-0.70 m D 0.40-0.70 m | | | ML | SILT: medium plasticity, dark brown, (ALLUVIAL SOIL). | St | | | | | | | | | |
| | | | | | | | | | SILT: non-plastic to low plasticity, dark brown, (ALLUVIAL SOIL). | w<PL | | | | | | | | | |
| | | | | | | | | | | S - F | | | | | | | | | |
| | | | 0.90 | | B 0.90-1.30 m D 0.90-1.30 m | | | SW | Gravelly SAND: fine to coarse grained, brown, gravel is fine to coarse grained; with igneous gravel /cobbles up to 200 mm in diameter, sub-rounded to sub-angular (ALLUVIAL SOIL). | L - MD | | | | | | | | | |
| | E-F | | 1.5 | | | | | Partial pit sidewall collapse below approximately 1.5m depth | MD - D | | | | | | | | | | |
| | H-VH | | 2.0 | | | | | | | M | | | | | | | | | |
| | | | 2.20 | | B 2.20-2.40 m D 2.20-2.40 m | | | SW | Gravelly SAND: fine to coarse grained, brown, gravel is fine to coarse grained; with igneous gravel / cobbles up to 250 mm in diameter, sub-rounded to sub-angular (ALLUVIAL SOIL). | Refusal | | | | | | | | | |
| | | | 2.70 | | D 2.70-2.90 m | | | SW | Gravelly SAND: fine to coarse grained, brown, gravel is fine to coarse grained; with medium to high plasticity clay; with igneous gravel / cobbles, with boulders up to 500 mm in diameter, sub-rounded (ALLUVIAL SOIL). | VD | | | | | | | | | |
| | | | 2.90 | | | | | | Hole Terminated at 2.90 m Terminated due to sidewall collapse and groundwater ingress. Backfilled. | | | | | | | | | | |
| 19/04/2024 16:00 | | | | | | | | | | | | | | | | | | | |
| Comments | | | | | | | | | | | | | Checked GEM | | | | | | |
| | | | | | | | | | | | | | Date 30/11/2024 | | | | | | |




TPL-09 - 1: Test pit excavation - sidewall collapse occurring at depth of water inflow



TPL-09 - 2: Test pit excavated spoil

P:\PHES\LIB\G.L.B. G4\74 PHOTO TEST PIT 2 PER PAGE AAP TPL-09.GPJ --DrawingFile-- 22/5/2024 11:04 10.03.00.09 D:\egil\Lab and In Situ Test - DGD [Lib: WSP 5.07.2 2023-10-30 Proj: WSP 5.04.1 2023-06-14]

| | | | | | | |
|---|--|---------------------|--|-----------------|--|---------------|
|  | <div>TITLE</div> <div>Queensland Hydro Netherdale Pioneer-Burdekin Pumped Hydro Energy Storage Photos - TPL-09</div> | DRAWN TH | | DATE 22/5/2024 | | |
| | | CHECKED GEM | | DATE 30/11/2024 | | |
| | | SCALE Not To Scale | | | | A4 |
| | | PROJECT No PS138693 | | | | FIGURE No 1/1 |
| | | | | | | |