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BOREHOLE: BHLR-11

Project: Pioneer-Burdekin PHES
Location: Netherdale/Dalrymple Heights
Client: Queensland Hydro
Job No.: PS138693

Position: Lower Reservoir
Coords: 658096.6 m E 7662651.7 m N MGA2020-55
Surface RL: 247.0 m AHD
Contractor: Twin Hills Drilling Drill Rig: Hanjin D&B-8DTM
Inclination: -88° Direction: 000°

Sheet 1 of 5
Date Started: 23/4/2024
Date Completed: 30/4/2024
Logged: SB

Drilling				Sampling		Field Material Description							
METHOD	PENETRATION RESISTANCE	WATER	DEPTH (metres)	DEPTH RL	SAMPLE OR FIELD TEST	RECOVERED GRAPHIC LOG	GROUP SYMBOL	SOIL/ROCK MATERIAL DESCRIPTION		MOISTURE CONDITION	CONSISTENCY DENSITY	STRUCTURE AND ADDITIONAL OBSERVATIONS	
ADV			0	246.98			SW	SAND: fine to coarse grained, white, pale orange and pale brown, with low plasticity silt; trace medium plasticity clay.	M	L		COLLUVIAL SOIL	
			0.50										
			246.48	SPT 0.50-0.95 m 2,3,4 N=7 0.50-0.95 m	SM		Silty SAND: fine to coarse grained, pale brown and pale orange, silt is low plasticity; with medium plasticity clay; trace rootlets.	RESIDUAL SOIL					
			1										
			2										
			2.00										
			244.98	SPT 2.00-2.45 m 5,6,9 N=15 2.00-2.45 m			Pale brown and pale orange and pale grey.	MD					
			3										
			4										
			3.80										
WB			243.18	SPT 3.50-3.95 m 8,10,18 N=28 3.50-3.95 m				Red brown and pale grey, medium to coarse grained, with medium to high plasticity clay; trace coarse grained gravel.		D			
			5							MD			
			5.20										
			241.78	SPT 5.20-5.42 m 20,30/70mm 5.20-5.42 m	SW	SAND: fine to coarse grained, pale orange and pale brown, with silt; with medium plasticity clay.	D						
			6										
			7							VD			
			8										
			9										
			9.00										
			Continued as Cored Borehole										
Comments													
Checked GEM Date 2/12/2024													



BOREHOLE: BHLR-11

Project:	Pioneer-Burdekin PHES	Position:	Lower Reservoir	Sheet	2 OF 5
Location:	Netherdale/Dalrymple Heights	Coords:	658096.6 m E 7662651.7 m N MGA2020-55	Date Started:	23/4/2024
Client:	Queensland Hydro	Surface RL:	247.0 m AHD	Date Completed:	30/4/2024
Job No.:	PS138693	Contractor:	Twin Hills Drilling Drill Rig: Hanjin D&B-8DTM	Logged:	SB
		Inclination:	-88° Direction: 000°		

Drilling					Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)		AVERAGE DEFECT SPACING (mm)
				0								
				1								
				2								
				3								
				4								
				5								
				6								
				7								
				8								
				9	9.00 237.99		Continuation from non-cored borehole NO CORE 0.50m (9.00-9.50)					
HQ3		55	0	9.50 237.49			SC Gravelly Clayey SAND: fine to coarse grained, brown and pale grey, clay is medium plasticity; gravel is fine grained, sub-angular; with silt. very dense.	RS				
				10								

PPHES LIB_REV0.GLB Log IS AU CORED BOREHOLE 3 BHLR-11_241201_2.GPJ <DrawingFile>> 2/12/2024 14:18 10.03.00.09 Datagel Lab and in Silu Tool - DGD [Lib: WSP 5.07.2 2023-10-30 Proj: WSP 5.04.1 2023-06-14]



BOREHOLE: BHLR-11

Project: Pioneer-Burdekin PHES

Location: Netherdale/Dalrymple Heights

Client: Queensland Hydro

Job No.: PS138693

Position: Lower Reservoir

Coords: 658096.6 m E 7662651.7 m N MGA2020-55

Surface RL: 247.0 m AHD

Contractor: Twin Hills Drilling Drill Rig: Hanjin D&B-8DTM

Inclination: -88° Direction: 000°

Sheet 3 OF 5

Date Started: 23/4/2024

Date Completed: 30/4/2024

Logged: SB

Drilling						Field Material Description				Defect Information			
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)		
				10	236.89		NO CORE 0.35m (10.10-10.45)			10.10-10.19: SPT, blowcount 30/90mm, N=R			
				10.45	236.54		SC Gravelly Clayey SAND: fine to coarse grained, brown and pale grey, clay is medium plasticity; gravel is fine grained, sub-angular; with silt; (Extremely Weathered Granodiorite). very dense.	RS					
		77	0	11				XW					
				11.60	235.39		NO CORE 0.40m (11.60-12.00)			11.60-11.69: SPT, blowcount 30/90mm, N=R			
				12	234.99		SC Gravelly Clayey SAND: fine to medium grained, pale brown and pale grey, clay is medium plasticity; gravel is fine grained, sub-angular; with silt. dense - very dense.	RS					
		73	0	12.40	234.59		Pale grey and brown, medium to coarse grained sand, (Extremely Weathered Granodiorite).	XW					
				13	233.89		NO CORE 0.50m (13.10-13.60)			13.10-13.17: SPT, blowcount 30/70mm, N=R			
				13.60	233.39		GC Sandy Clayey GRAVEL: medium to coarse, pale grey and brown, clay is medium plasticity; sand is fine to coarse grained; (Extremely Weathered Granodiorite). very dense.	XW					
		67	23	14	232.99		GRANODIORITE: medium to coarse grained, brown and grey, crystalline, massive.	HW		13.82: J, 70°, CU, RF 13.93: J, 50°, CU, RF 13.91-14.22: J, 80 - 90°, PR, RF			
				14.40	232.39		GC Sandy Clayey GRAVEL: medium to coarse, pale grey and brown, clay is medium plasticity; sand is fine to coarse grained; (Extremely Weathered Granodiorite). very dense.	XW		14.18-14.37: J, 80°, UN, RF 14.31: J, 60°, PR, RF			
				15	231.99		NO CORE 0.40m (14.60-15.00)			14.60-14.66: SPT, blowcount 30/60mm, N=R			
				15.40	231.59		SC Clayey SAND: fine to medium grained, brown and pale brown, clay is medium plasticity; with silt; with fine grained, sub-angular gravel; (Extremely Weathered Granodiorite). very dense.	XW					
		73	0	16			GC Clayey Sandy GRAVEL: medium to coarse, sub-rounded to sub-angular, pale grey, red and brown, sand is fine to medium; clay is medium plasticity; (Extremely Weathered Granodiorite). very dense.			16.10-16.22: SPT, blowcount 30/120mm, N=R			
				16.70	230.29		GRANODIORITE: medium to coarse grained, brown and grey, crystalline, massive.	HW					
		100	55	17	229.67		SW Gravelly SAND: fine to coarse grained, sub-rounded to sub-angular, brown and pale grey, gravel is medium to coarse grained, sub-angular; trace medium plasticity clay. dense - very dense.	RS					
				18	228.89		SC Gravelly Clayey SAND: fine to coarse grained, sub-rounded to sub-angular, brown and pale grey, clay is medium plasticity; gravel is medium to coarse grained, sub-angular. dense to very dense.						
		100	0	18.36	228.63		SW Gravelly SAND: fine to coarse grained, sub-rounded to sub-angular, brown and pale grey, gravel is fine to coarse grained, sub-angular; with silt; (Extremely Weathered Granodiorite). very dense.	XW					
				19									
		100	7	20									

Comments

Checked GEM
Date 2/12/2024



BOREHOLE: BHLR-11

Project: Pioneer-Burdekin PHES

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Inclination: -88° Direction: 000°

Sheet 4 OF 5

Date Started: 23/4/2024

Date Completed: 30/4/2024

Logged: SB

Drilling					Field Material Description				Defect Information		
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
								VL-2 J M H VH EH	■ UCS - UCS		0 50 100 300 1000 3000
HO3			100	7	20		SW Gravelly SAND: fine to coarse grained, sub-rounded to sub-angular, brown and pale grey, gravel is fine to coarse grained, sub-angular; with silt; (Extremely Weathered Granodiorite). very dense.	XW		20.28: J, 80°, CU, RF 20.25-20.47: J, 70°, PR, RF, wh-mi	
					21					20.70: J x3, 20°, UN, RF 20.62-20.83: J x2, 90°, CU, RF, clay 21.03: J, 50°, PR, RF, bk-mi 21.30: J, 10°, UN, RF 21.68: J, 10°, IR, RF	
			100	73	22					22.20: J, 10°, PR, RF	
					22.20 224.79		GRANODIORITE: medium to coarse grained, brown and pale grey, crystalline, massive.	HW			
			100	90	23						
					24					23.90: J, 60°, PR, RF 24.17: J, 10°, CU, RF 24.25-24.33: J, 60°, PR, RF	
			100	80	25					24.65: J, 60°, IR, RF, wh mi 24.57-24.95: J, 80 - 90°, PR, RF	
					26					26.10: J, 70°, CU, RF 26.17: J, 45°, PR, RF	
			100	81	27					26.84: J, 20°, IR, RF 26.95: J, 30°, IR, RF	
					28					27.18: J, 60°, Fe SN, PR, RF 27.26: J, 20°, PR, RF, bk-mi 27.37: J, 10°, UN, RF 27.53: J, 20°, UN, RF 27.60: J, 10°, sand, PR, RF 27.61: J, 15°, UN, RF 27.72: J, 30°, PR, RF 27.95: J, 20°, IR, RF	
			100	70	29					28.26: J, 10°, Fe SN, UN, RF 28.63: J, 20°, PR, RF 28.94: J x2, 20°, PR, RF 29.05: J, 20°, IR, RF	
					29.55 217.45					29.37: J, 30°, IR	
			100	71	30.00		Grey and pale grey.	SW		29.87: J x2, 10°, PR, SM	

Comments

Checked GEM
Date 2/12/2024

PEPHES LIB_REV0.GLB Log IS AU CORED BOREHOLE 3 BHLR-11_241201_2.GPJ <<DrawingFile>> 2/12/2024 14:18 10.03.00.09 Datagel Lab and In Situ Tool - DGD [Lib: WSP 5.07.2 2023-10-30 Proj: WSP 5.04.1 2023-06-14]



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Sheet 5 OF 5

Date Started: 23/4/2024

Date Completed: 30/4/2024

Logged: SB

Drilling						Field Material Description			Defect Information		
METHOD	WATER	TCR	RQD	DEPTH (metres)	DEPTH RL	GRAPHIC LOG	ROCK / SOIL MATERIAL DESCRIPTION	WEATHERING	INFERRED STRENGTH (MPa)	DEFECT DESCRIPTION & Additional Observations (Core partings shown - refer to Detailed Defect Descriptions table for all logged features)	AVERAGE DEFECT SPACING (mm)
HQ3			100	71	30		GRANODIORITE: medium to coarse grained, grey and pale grey, crystalline, massive.	SW		30.33-30.45: J x4, 0 - 20°, UN, RF	
			100	60	31						
			100	60	32		Dark grey, pale grey and pale orange, moderately altered.	HW		31.64: J, 40°, PR, RF 31.73: J, 50°, CU, RF, wh mi 31.75-32.00: Js, bk mi, sand, gravel SN, UN, RF, multiple defects, various angles generally horizontal, 10-30mm spacing, rubble by drilling 31.75-32.04: J, 70°, Fe SN, IR, VR 32.35: J, 10°, PR, RF 32.47: J, 5°, IR, RF	
			100	88	33		Grey and dark grey, no alteration.	SW		32.70-32.86: J, 75°, wh mi, UN, RF, wh mi 5mm	
					34		Hole Terminated at 34.10 m Target depth. Standpipe Piezometer Installed.			33.92: J, 30°, PR, RF	
					35						
					36						
					37						
					38						
					39						
					40						

Comments

Checked GEM
Date 2/12/2024



Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHLR - 11 Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHLR-11	13.82				J		70				CU	RF					
BHLR-11	13.91	14.22			J		80	90			PR	RF					
BHLR-11	13.93				J		50				CU	RF					
BHLR-11	14.10				DB												
BHLR-11	14.18	14.37			J		80				UN	RF					
BHLR-11	14.30	14.49			hJ		80				CU	RF					wh-bk-mi
BHLR-11	14.31				J		60				PR	RF					
BHLR-11	15.41	15.58			hJ	x3	80				PR						
BHLR-11	16.85	17.10			hJ		80				UN						
BHLR-11	20.25	20.47			J		70				PR	RF					wh-mi
BHLR-11	20.28				J		80				CU	RF					
BHLR-11	20.30				hJ		80				PR	RF					wh-mi
BHLR-11	20.62	20.83			J	x2	90				CU	RF					clay
BHLR-11	20.70				J	x3	20				UN	RF					
BHLR-11	21.03				J		50				PR	RF					bk-mi
BHLR-11	21.12				hJ		50				PR	RF					bk-mi
BHLR-11	21.30				J		10				UN	RF					
BHLR-11	21.39				hJ	x2	10				PR	RF					bk mi
BHLR-11	21.50				DB												
BHLR-11	21.68				J		10				IR	RF					
BHLR-11	21.80	22.10			hJ		80				PR	RF					
BHLR-11	22.20				J		10				PR	RF					
BHLR-11	22.50				hJ		5				PR	SM					bk-mi
BHLR-11	22.70				hJ		30				PR	RF					bk-mi
BHLR-11	23.10				hJ		10				PR	RF					bk-mi
BHLR-11	23.90				J		60				PR	RF					
BHLR-11	24.00				hJ		60				PR	RF					bk-mi
BHLR-11	24.08				hJ		70				PR	RF					bk-mi
BHLR-11	24.17				J		10				CU	RF					
BHLR-11	24.25	24.33			J		60				PR	RF					
BHLR-11	24.57	24.95			J		80	90			PR	RF					
BHLR-11	24.65				J		60				IR	RF					wh mi
BHLR-11	24.70	27.85			hJ	x3	50				PR	RF					bk mi
BHLR-11	24.85				hJ		90				CU	RF					bk-mi
BHLR-11	25.10	25.20			hJ		90				CU	RF					bk-mi
BHLR-11	25.75	26.00			hJ	x5	10				PR	RF					bk mi
BHLR-11	26.08				hJ		60				PR	RF					
BHLR-11	26.10				J		70				CU	RF					
BHLR-11	26.17				J		45				PR	RF					
BHLR-11	26.20	26.42			hJ		90				PR						
BHLR-11	26.22				hJ		50				PR	SM					wh-mi
BHLR-11	26.40				hJ		45				PR	RF					bk-mi
BHLR-11	26.41				hJ		50				PR						
BHLR-11	26.56	26.70			MB	x6											
BHLR-11	26.84				J		20				IR	RF					
BHLR-11	26.95				J		30				IR	RF					
BHLR-11	27.04				hJ		20				PR	SM					bk-mi
BHLR-11	27.18				J		60		Fe	SN	PR	RF					
BHLR-11	27.26				J		20				PR	RF					bk-mi
BHLR-11	27.27				hJ		55				PR						
BHLR-11	27.30				hJ		90				CU	RF					wh mi
BHLR-11	27.37				J		10				UN	RF					
BHLR-11	27.47				hJ		10				PR	SM					bk-mi
BHLR-11	27.53				J		20				UN	RF					
BHLR-11	27.60				J		10		sand		PR	RF					
BHLR-11	27.61				J		15				UN	RF					
BHLR-11	27.72				J		30				PR	RF					
BHLR-11	27.95				J		20				IR	RF					
BHLR-11	28.02	28.10			MB	x4											
BHLR-11	28.10				hJ		45				PR	SM					bk-mi
BHLR-11	28.13				hJ		70				PR	SM					bk-mi
BHLR-11	28.26				J		10		Fe	SN	UN	RF					
BHLR-11	28.38				hJ	x2	75		wh mi		UN	RF					wh mi 2mm
BHLR-11	28.45				hJ		60				PR	SM					bk-mi
BHLR-11	28.50				hJ		20				PR	SM					bk-mi
BHLR-11	28.60	29.30			hJ		90				UN	RF					bk-mi
BHLR-11	28.63				J		20				PR	RF					
BHLR-11	28.72				hJ		50				PR	RF					bk-mi
BHLR-11	28.94				J	x2	20				PR	RF					
BHLR-11	29.05				J		20				IR	RF					
BHLR-11	29.37				J		30				IR						
BHLR-11	29.50				hJ		40				PR	RF					bk-mi
BHLR-11	29.63	29.83			hJ		85				UN	RF					wh mi 2mm
BHLR-11	29.84				hJ	x3	10				PR	SM					wh mi
BHLR-11	29.87				J	x2	10				PR	SM					
BHLR-11	29.87	30.60			hJ		80				ST	RF					wh mi 3mm
BHLR-11	30.18	30.22			hJ	x3	5				UN	RF					wh mi
BHLR-11	30.33	30.45			J	x4	0	20			UN	RF					
BHLR-11	30.82				hJ		40				PR	SM					bk-mi



Pioneer Burdekin Pumped Hydro Energy Storage: Tranche 2 – BHLR - 11 Defects List

PointID	Depth	Bottom	Fracture Set	Defect Number	Type	Type Suffix	Dip Minimum (degrees)	Dip Maximum (degrees)	Infilling Material	Aperture Observation	Planarity	Roughness	Aperture Measurement Sign	Aperture Measurement	Aperture	Spacing	Remark
BHLR-11	31.05	31.21			hJ		70				UN	RF					wh mi 3mm
BHLR-11	31.05	31.44			hJ		80				UN	SM					wh mi 3mm
BHLR-11	31.15				hJ	x2	5				PR	RF					wh mi
BHLR-11	31.18	31.23			hJ	x3	20				PR	RF					wh mi
BHLR-11	31.30				hJ	x2	50				PR	SM					wh mi
BHLR-11	31.42	31.80			hJ	x2	80				CU	RF					wh mi 3mm
BHLR-11	31.45				hJ	x4	20				PR	RF					wh mi
BHLR-11	31.64				J		40				PR	RF					
BHLR-11	31.73				J		50				CU	RF					wh mi
BHLR-11	31.75	32.00			Js				bk mi, sand, gravel	SN	UN	RF					multiple defects, various angles generally horizontal, 10-30mm spacing, rubbed by drilling
BHLR-11	31.75	32.04			J		70		Fe	SN	IR	VR					
BHLR-11	32.00				hJ		80				PR	SM					wh mi 3mm
BHLR-11	32.14				hJ		60				PR	SM					wh mi 3mm
BHLR-11	32.17				hJ		70				PR	SM					pk mi
BHLR-11	32.22				hJ		80				PR	SM					wh mi 3mm
BHLR-11	32.28				hJ		90				PR	RF					wh mi 3mm
BHLR-11	32.30				hJ		10				PR	RF					wh mi 3mm
BHLR-11	32.35				J		10				PR	RF					
BHLR-11	32.40				hJ		60				PR	RF					wh mi 3mm
BHLR-11	32.47				J		5				IR	RF					
BHLR-11	32.50				hJ		60				UN	RF					wh mi 3mm
BHLR-11	32.51	32.70			hJ		90		Fe	SN	UN	RF					wh mi 3mm
BHLR-11	32.70	32.86			J		75		wh mi		UN	RF					wh mi 5mm
BHLR-11	32.90				hJ		10				PR	SM					wh mi
BHLR-11	32.95				hJ		50				PR	SM					wh mi
BHLR-11	33.03				hJ	x2	45				CU	SM					wh mi
BHLR-11	33.05				hJ		60				PR	SM					wh mi
BHLR-11	33.25	33.38			hJ	x2	70				PR	SM					gn mi 5mm
BHLR-11	33.35				hJ		45				PR	SM					gn mi
BHLR-11	33.50				hJ	x2	55				PR	SM					gn mi
BHLR-11	33.86				hJ		30				PR	SM					wh mi
BHLR-11	33.92				J		30				PR	RF					
BHLR-11	34.00				hJ		80				PR	SM					wh mi 5mm

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PointID : BHLR-11 Depth Range: 9.00 - 13.00 m



PointID : BHLR-11 Depth Range: 13.00 - 17.00 m



TITLE
Queensland Hydro
Netherdale/Dalrymple Heights
Pioneer-Burdekin PHES
Core photo - BHLR-11

DRAWN	RC	DATE	14/11/2024
CHECKED	GEM	DATE	18/11/2024
SCALE	Not To Scale		A4
PROJECT No	PS138693		FIGURE No 1/4

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PointID : BHLR-11 Depth Range: 17.00 - 21.00 m



PointID : BHLR-11 Depth Range: 21.00 - 25.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHLR-11	DRAWN RC	DATE 14/11/2024
		CHECKED GEM	DATE 18/11/2024
		SCALE Not To Scale	A4
		PROJECT No PS138693	FIGURE No 2/4

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PointID : BHLR-11 Depth Range: 25.00 - 29.00 m



PointID : BHLR-11 Depth Range: 29.00 - 33.00 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHLR-11	DRAWN RC	DATE 14/11/2024
		CHECKED GEM	DATE 18/11/2024
		SCALE Not To Scale	A4
		PROJECT No PS138693	FIGURE No 3/4



PointID : BHLR-11 Depth Range: 33.00 - 34.10 m

	TITLE Queensland Hydro Netherdale/Dalrymple Heights Pioneer-Burdekin PHES Core photo - BHLR-11	DRAWN	RC	DATE	14/11/2024
		CHECKED	GEM	DATE	18/11/2024
		SCALE	Not To Scale		A4
		PROJECT No	PS138693		FIGURE No 4/4