



BOREHOLE No. GTBH1

Sheet 1 of 3

Project: Tamar Valley Power Station
 Location: Tamar Valley
 Job No: VW03886

Client: Alinta
 Start - Finish Date: 22/01/07 - 22/01/07
 Bore dia: 150mm / 90mm

Driller: KMR Drilling
 Rig: Hydra Power Scout
 Surface Conditions: Grass

Northings: mN5447882
 Eastings: mE4905426
 Logged: A.E.
 Checked:
 RL: m (AHD) Oriented: -90

LAB DATA		MINOR DEFECT DATA		FIELD DATA		ROCK DESCRIPTION		ROCK CONDITION		COMMENTS	
dry density (t/m ³)	moisture content (%)	minor defect description: type, dip/dip direction, colour, coating, thickness (mm), roughness	minor defect spacing (mm)	field & other tests	sample type field tests	ground water depth (m)	graphic log	rock type, degree of weathering, colour, grain size, texture and fabric, structure, angle of bedding dip, geological formation	rock or soil strength	moisture condition	drilling method, well construction, water and additional observations
			5 20 100 500 2000					Silty CLAY (CH) orange, brown, red, grey, high plasticity, ironstone nodules, erratic, black organic material	F	M	Hollow stem auger 150mm dia
				Suv=234kPA Sur=217kPA	X	1					
				47/9 (N=16)	●						
				Suv=157kPA Sur=107kPA	X	3					
				5/7/10 (N=17)	●	4					
						5					

SKM 001 ROCK TAMAR VALLEY POWER STATION BOREHOLE LOGS 30.01.07.GPJ SKM_001_20060209.GDT 1/31/07

<p>LABORATORY DATA</p> <p>UCN Unconfined Comp. Strength (MPa) UCS Unconfined Comp. Strength (MPa) TQN Unconsolidated Undrained Triaxial TQS Unconsolidated Undrained Triaxial N = Natural S = Saturated</p> <p>GROUNDWATER SYMBOLS</p> <p>▼ = Water level (static) ▽ = Water level (during drilling) ◀▶ = Outflow / Inflow</p>	<p>MINOR DEFECT DATA (<10mm thickness)</p> <p>B Bedding plane joint Sv Sub-vertical joint Sh Sub-horizontal joint T Transverse to bedding plane RQD % core run >100mm long</p> <p>FIELD DATA ABBREVIATIONS</p> <p>Is(50) Point Load Index (MPa) N SPT blows per 300mm FPM Field permeability (packer)</p>	<p>FIELD DATA SYMBOLS</p> <p>⊃ Packer Interval ● Point Load Test ▽ Standard Penetration Test (SPT top = start of N blowcount) ◻ Core recovered ◻ % Core Loss per Run ◻ Large core >100mm long ● Small core <100mm long</p>	<p>MAJOR DEFECT DATA (>10mm thickness)</p> <p>SH Sheared seam CR Crushed seam NF Infilled seam EW Extremely Weathered seam</p> <p>MOISTURE CONDITION</p> <p>D = Dry M = Moist W = Wet</p>	<p>ROCK STRENGTH (Is(50) Point Load Index)</p> <p>EL Ext. low <0.03 VL Very low 0.03-0.1 L Low 0.1-0.3 M Medium 0.3-1.0 H High 1.0-3.0 VH Very high 3-10 EH Ext. high >10</p>
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			5 20 100 500 2000					Silty CLAY (CH) orange, brown, red, grey, high plasticity, ironstone nodules, erratic, black organic material (continued)			
				6/10/7 (N=17)				Clayey SAND (SC) light grey mottled with orange, with black organic pigments, <2mm in size	MD	M	
				10/10/9 (N=19)				Silty CLAY (CH) brown, high plasticity, with fine Basalt fragments, <4mm in size			
		J60 Fe2mm J60 Fe1mm						DOLERITE slightly weathered, dark blue, medium grained, iron staining, fractured <1mm			
								moderately weathered (MW), with disseminated olivine green in colour			
								extremely weathered (XW), with mottled light grey, brown, orange, high plasticity clay and light green clayey sand			
		J45 1mm						fresh, dark blue, medium grained			
								extremely weathered (XW), with brown clay			
								moderately weathered (MW), dark blue, brown, medium grained, with cross cutting fractures			

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								Bore hole terminated at 10.05m		Bore hole back filled with Clay (CH)	
						11					
						12					
						13					
						14					
						15					

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