



**BOREHOLE No. GTBH3**

Sheet 1 of 3

Project: Tamar Valley Power Station  
 Location: Tamar Valley  
 Job No: VV03886

Client: Alinta  
 Start - Finish Date: 23/01/07 - 23/01/07  
 Bore dia: 150mm / 90mm

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

Northings: mN  
 Eastings: mE  
 RL: m (AHD)

Logged: A.E.  
 Checked:  
 Oriented: -90

LAB DATA		MINOR DEFECT DATA		FIELD DATA		ROCK DESCRIPTION		ROCK CONDITION		COMMENTS
dry density (t/m <sup>3</sup> )	moisture content (%)	minor defect description: type, dip/dip direction, colour, coating, thickness (mm), roughness	minor defect spacing (mm) 5 20 100 500 2000	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  major defect description - type, dip, colour, filling, thickness (mm), roughness	rock or soil strength	moisture condition	drilling method, well construction, water and additional observations
							SAND (SM) dark grey, fine grained	MD	D	Hollow stem auger 150mm dia
				2/4/4 (N=8)			IRON PAN red lateritic surface made up of a ferritic cemented gravel between 0.3 to 0.4m depth	H	D	
							DOLERITE extremely weathered, mottled brown, orange, grey, with high plasticity clay and ironstone nodules <50mm in size			
							CORELOSS 2.3 to 2.6m			Auger Refusal at 2.3m HQ3 diamond drilling 90mm dia
							fresh, dark blue, medium grained			
							extremely weathered, mottled grey, brown, orange, with high plasticity clay			
		JO Fe3mm					extremely weathered, light grey, some iron staining, with high plasticity clay			
							fresh, dark blue, medium grained weathered seam with iron staining			
		J60 Fe					CORELOSS 4.7 to 4.95m			

SKM 001 ROCK TAMAR VALLEY POWER STATION BOREHOLE LOGS 30.01.07.GPJ SKM\_001\_20060209.GDT 1/31/07

<p><b>LABORATORY DATA</b></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><b>GROUNDWATER SYMBOLS</b></p> <p>▽ = Water level (static)                  ▽ = Water level (during drilling)                  ◀▶ = Outflow / Inflow</p>	<p><b>MINOR DEFECT DATA</b>                  (&lt;10mm thickness)</p> <p>B Bedding plane joint                  Sv Sub-vertical joint                  Sh Sub-horizontal joint                  T Transverse to bedding plane                  RQD % core run &gt;100mm long</p> <p><b>FIELD DATA ABBREVIATIONS</b></p> <p>Is(50) Point Load Index (MPa)                  N SPT blows per 300mm                  FPM Field permeability (packer)</p>	<p><b>FIELD DATA SYMBOLS</b></p> <p>⊃ Packer Interval                  ⊙ Point Load Test                  ▽ Standard Penetration Test (SPT top = start of N blowcount)                  ▨ Core recovered                  ▨ % Core Loss per Run                  ▨ Large core &gt;100mm long                  ● Small core &lt;100mm long</p>	<p><b>MAJOR DEFECT DATA</b>                  (&gt;10mm thickness)</p> <p>SH Sheared seam                  CR Crushed seam                  NF Infilled seam                  EW Extremely Weathered seam</p> <p><b>MOISTURE CONDITION</b></p> <p>D = Dry M = Moist W = Wet</p>	<p><b>ROCK STRENGTH</b>                  (Is(50) Point Load Index)</p> <p>EL Ext. low &lt;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 &gt;10</p>
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# BOREHOLE No. GTBH3

Sheet 2 of 3

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dry density (t/m <sup>3</sup> )	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 of soil strength	moisture condition	drilling method, well construction, water and additional observations
			5 20 100 500 2000						extremely weathered, mottled grey, brown, with high plasticity clay and iron staining (continued)			
									moderately weathered, dark blue, brown, orange			
							6		extremely weathered, mottled grey, brown, orange with high plasticity clay and dark green secondary minerals			
									iron band 100mm thick			
							7		fresh Dolerite 7.05 to 7.35m depth			
							8		highly weathered, brown, grey, light green			
									extremely weathered, mottled brown, orange, light green, with high plasticity clay			
									fresh, dark blue, medium grained			
		J75 Fe					9		highly weathered, brown, orange, grey, iron staining			
		J75 Fe							fresh, dark blue, medium grained			
									moderately weathered, dark blue, brown, with iron staining			
									fresh, dark blue, medium grained			
							10					

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