REF No 24404

SKM

BOREHOLE No. BHP1

GDA94

Sheet 1 of 1

Project: Alinta Crossing	Client: Transend Networks	Driller: KMR Drilling	Northings: 5445762.0mN	Logged: ARE
Location: Bell Bay Power Station	Start - Finish Date: 07/08 - 07/08/07	Rig: Explore 50	Eastings: 492071.0mE	Checked: DJS
Job No: VT30282.2	Bore dia: 100mm	Surface Conditions: Cleared land	RL: 16.0m AHD	Oriented: -90

LAB DATA		MINOR DEFECT DATA		FIELD DATA				ROCK DESCRIPTION	ROCK CONDITION		COMMENTS
dry density (t/m³)	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
				Suv=7 Sur=3					CLAY (CH) brown, angular fragments of fresh dolerite	VS	M	Hollow Stem Auger Regolith Dolerite Overburden
				1/10+/- (N=10/30mm)					CLAY (CH) mottled dark grey, brown, angular fragments of fresh dolerite	S	M	
									CORE LOSS 0.7 - 0.95m			SPT Hammer double bouncing Auger refusal at 0.95m
		Sv90(Fe)3(ro)	RQD 0%	0.95			1	0%	DOLERITE (FR) medium grained, dark blue, massive	H		HQ3 diamond drilling from 0.95m Jurassic Dolerite Bedrock
		Sh0(Fe)1(ro) Sv80(Fe)1(ro)		1.05								
		Sv20(Fe)1(ro) Sv80(Fe)1(ro)	RQD 0%					0%				
				2.00			2					
		Sv90(Fe)1(ro)										
		Sv75(Fe)3(ro)							DOLERITE (DW)	M		
			RQD 26%					0%		H		
		Sv30(Fe)1(ro) Sv60(CH)3(sm)										
							3		DOLERITE (DW)	M		
		Sv80(Fe)1(ro)		3.15						H		
		Sv75(Fe)1(ro)	RQD 81%					0%				
							4		Borehole terminated at 3.95m in fresh massive dolerite bedrock as defined by scope of works. Borehole backfilled with cement to surface level.			
							5					

LABORATORY DATA
UCN Unconfined Comp. Strength (MPa)
UCS Unconfined Comp. Strength (MPa)
TQN Unconsolidated Undrained Triaxial
TQS Unconsolidated Undrained Triaxial
N = Natural S = Saturated

GROUNDWATER SYMBOLS
= Water level (static)
= Water level (during drilling)
= Outflow / Inflow

MINOR DEFECT DATA (<10mm thickness)
B Bedding plane joint
Sv Sub-vertical joint
Sh Sub-horizontal joint
T Transverse to bedding plane
RQD % core run >100mm long

FIELD DATA ABBREVIATIONS
Is(50) Point Load Index (MPa)
N SPT blows per 300mm
FPM Field permeability (packer)

FIELD DATA SYMBOLS
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

MAJOR DEFECT DATA (>10mm thickness)
SH Sheared seam
CR Crushed seam
NF Infilled seam
EW Extremely Weathered seam

MOISTURE CONDITION
D = Dry M = Moist W = Wet

ROCK STRENGTH (Is(50) Point Load Index)

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

SKM 001 ROCK DRILL SITES ALINTA.GPJ SKM_001_20060209.GDT 19/9/07