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5	Ľ			B	OR	EHC	)LI	E ENGINEERING LOG			HOLE	NO : CURVE 22_BH0
LIENT :	TRAN	SPO	RT AND	MAIN I	ROAD	S		POSITION : E: 359389, N: 8137542 (56 MG/	A94)	I	PAGE : 2	2 OF 3
ROJEC	T : BL/	ACK S	SPOT PR	ROJEC	Т			SURFACE ELEVATION : 112.6 (AHD)		l	DATE DR	ILLED: 6/8/13 TO 6/8/13
OB NO :								DIP / AZIMUTH : 90°				BY : JP
OCATIO	N : KE			(CAIR	NS - N	/AREEE	3A)				CHECKE	OBY:AJ
		DRIL		1	1		7	MATER	RIAL		1	
& CASING WATER	DRILLING PENETRATION	GROUND WATER LEVELS	SAMPLES & FIELD TESTS	RL (m)	DEPTH (m)	GRAPHIC LOG	CLASSIFICATION SYMBOL	MATERIAL DESCRIPTION Soil Type, Colour, Plasticity or Particle Characterist Secondary and Minor Components	MOISTURE	CONSISTENCY		STRUCTURE & Other Observations
98 1	VH	01		-106.6	- 6.0 - - - - -			GNEISS: Grey, orange, brown, grey brown, extrem to highly weathered extremely low to low strength, appearing as SILTY GRAVEL (GM), fine to mediur grained angular gravel, fine to coarse grained sand (continued)	mely , im	VD		VEATHERED ROCK VEATHERED ROCK
*					-	<u></u>		6.70m Continued as Cored Drill Hole				
				105.6-	7.0  							
				104.6-	- - - - - 8.0 -							
				- 103.6-	- - - - - - - - - - - - - - - -							
				-	-							
				102.6-	-  - - - -							
				101.6-	_ _ _ 11.0							
					_							
				-	- - -							
S Auge D/T Aug D/V Aug /B Was /B Was E Very E Easy	Id Auger er Screv ger Drill Jer Drill Shbore PRILLIN Easy	v TC-bit V-bit G PEN F Fi H Ha IDWAT	RR RO AT Air HQ HC NQ NC NMLC NI ETRATION rm VH ard ER SYMB <sup>I</sup>	Very I	ring	ES Env EW Env HP Hanv HV Hanv (P: Peak N SPT HW SPT	d Pen d Pen d Van Su F blows	ample U Undisturbed Tube Sample L r Sample W Water Sample MD etrometer MOISTURE CONDITION D Shear D = Dry M = Moist W = Wet VD	DENSITY (S Very Loose Loose Medium De Dense Very Dense Compact	0 4 nse 1 3 5	- 4 - 10	CONSISTENCY (Su) {N-value}   VS Very Soft < 12 kPa {0

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			Ľ/			BOREHOLE E				JG				104
				ND MAI	N ROADS	POSITION : E: 359 SURFACE ELEVA			GA94)		PAGE : DATE DF		3 : 6/8/13 TO 6/8/13	
JOB NO				11(001	-01	DIP / AZIMUTH :		10)			LOGGED			
OCAT	ION : M	ENNE	EDY H	WY (CA	IRNS - MAREEB	A)					CHECKE	DBY:	AJ	
	DRILL	ING				MATERIAL						DEFECT	S & COMMENTS	
DRILLING WATER DETAIL	HIR TCR/RQD	(E) צר 106.6	1 1 1 9 DEPTH (m)	GRAPHIC LOG	(texture, fab	DESCRIPTION PE : Colour, Grain size, Strr ric, mineral composition, ha cementation, etc as applic	ardness	Weathering	ESTIMATED S Is(50 ○ - Ax ○ - Diam	) ial	DEFECT SPACING (mm)	obser	ription of joints, seams, defects, additional vations and comments	GENERAL
		-	_		START CORING A	T 6.70m								
	82% TCR 20% RQD	105.6-	- 7.0  			wn, dark grey, distinctly foliated at	30° to 40°,	MW				6.81 6.82 6.90 6.93 7.03 7.05 7.06 7.08 7.10 7.10 7.13 7.14	SS 50° GC IR RF 90 mm JT 50° CU RF JT 90° CU RF JT 70° ST RF JT 70° IR RF JT 70° IR RF JT 70° IR RF JT 70° IR RF JT 90° IR RF JT 90° IR RF JT 50° CH IR RF 3 mm JT 20° IR RF JT 80° IR RF JT 80° IR RF JT 80° IR RF	
			-		0000000000	(= = 0 = 0=)						7.28	JT 70° IR VR JT 40° UN VR	R ing
	7.95	104.6-	- 8.0 -	$\times$	CORE LOSS 0.14r GNEISS: Dark grey	n (7.73-7.87) , grey, distinctly foliated at 40° to	50°, schistose.	MW				7.40 7.43 7.52 7.54 7.54 7.56	UT 80° IR RF UT 80° UN RF JT 80° IR RF JT 80° IR RF JT 0 - 30° CH UN RF 5 m JT 60° IR RF SS 70° IR VR 100 mm	JT 30° -90° IR RF 10 - 30 mm spacing
	100% TCR 70% RQD	-	- - -									8.00 8.19 8.28 8.52 8.59 8.63 8.63 8.63	JT 60° CH IR RF JT 60° UN RF JT 80° UN RF VN 50° QZ IR RF JT 40° PR RF JT 40° UN RF JT 90° IR RF JT 80 - 90° IR RF	
	9.10	103.6-	- 9.0 -		Terminated Cored	Drill Hole at 9.10 m						8.95	JT 70° PR RF JT 20° CU RF JT 90° IR RF	
		- 102.6-	- - - - - - - - - - - - -											
		101.6-	- - - - - - - - - - - - -											
NQ	(rc GR V = V	Coring ng core ru core ru ck fract OUNDV Vater lev	un > 100 ion only VATER vel (stati	PQ F rered mm long measure SYMBOL	d) S		TESTS nv Soil Sample nv Water Sample	CZ Crus DB Drill FZ Frac JT Joint	shed Seam shed Zone Break stured Zone d Seam ar Zone	CN Clea CT Coa SN Stai VR Ven POL Po RF Ro S Sm	ating IR Ir in PR P leer ST S Un U	urved regular lanar tepped ndulated	ROCK STRENGTH (Is   0-0.03 Extremely   0.03-0.1 Very Low   0.1-0.3 Low   0.3-1.0 Medium   1.0-3.0 High   3.0-10 Very High	Low

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Client: Transport and Main Roads	
Project: Black Spot	
drawn AJ	
date 14/08/2013 Core Photograph – Curve 22_BH04	
scale NTS Project no. CB24735.04 Photo No: Curve 22_BH04	1 of 1