



BORING LOG

APPENDIX II

DATE(S):
2010-05-04 to 2010-05-26

SITE No:
GEOCAM

BORING No:
BH-29-10

PROJECT: Geotechnical investigations
ABC Dam, Quebec

LOCATION: BPRG
GROUND ELEVATION: 152.70 m (Geodesic)
DRILL: L-38 (PQ-3)

COORDINATES:
E: m
N: m

CHAINING: m
OFFSET: m
BORING ANGLE: 90°

DONE BY: C. Tan
VERIFIED BY: M. Lupien
APPROVED BY: G. Lessard

STATE	TYPE OF SAMPLE	%RQD	(2) TESTS	Concrete/rock open contact (CB)	Contact (CT)	Armature (FI)
INTACT	SC: Split corer	0 to 25%: very bad	f _c : compressive strength		Alteration contact (DY)	
REMOLDED	TW: Thin wall sampler	25 to 50%: bad	c: cohesion		Connected construction joint (JS)	
LOST	CT: Corer tube	50 to 75%: average	phi(peak): friction angle at peak		Open construction joint (JO)	
CORE	WS: Wash	75 to 90%: good	phi(res): residual friction angle		Fissure (FS)	
	MA: Manual	90 to 100%: excellent				

* For an explanation on the orientation of structures, see the note in appendix.

Depth (meters)	SAMPLES					BACKFLOW (%)	ELEV. DEPTH (m)	STRATIGRAPHY	PIEZOMETERS	IMAGES			DIP STRUCTURES	OPENING (mm)	WATER INJECTION TESTS FLOW (l/min/m)
	STATE	TYPE AND NUMBER	CALIBER	REC. %	N-RQD %					PHOTOS	OPTICAL	ACOUSTIC			
51		CT-36	PQ-3	100	100	5-10									46
52		CT-37	PQ-3	100	100	<5	101.31 51.39	Bedrock (fault breccia): concrete/rock partially open contact. Light pink to brownish pink gneiss, fine to medium grain size, fine to medium materials, light to very high alteration (hematization, epidotization and chloritization). From 51.04 to 51.84 m, permeability test: $k=6.4 \times 10^{-7}$ cm/s Medium to very high fracturing, very varied orientation of the fractures. Presence of hematite and/or chlorite and/or epidote in filling the open fractures. Many veins and stringers of varied composition (quartz, epidote, calcite, hematite) that intersect the gneiss in varied directions.					10.4	29	
53		CT-38	PQ-3	87	0	10-20		At 53.55 m, dilatometer test: 5 GPa.					2.0	33	
54		VI-39A CT-39 VI-40A	PQ-3 HQ-3	61 53	0 21	50 100		At 54.00 m, dilatometer test: 12 GPa.						54	

Remark: