

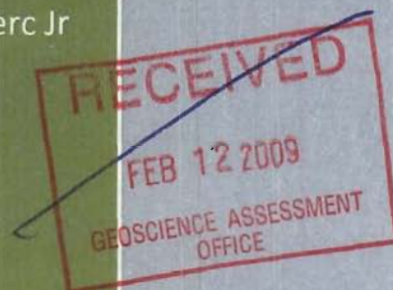
VILLENEUVE CONSTRUCTION CO. LTD.

2.40538

Technical Report

Assessment Work Performed on Mining Claims #
4205611 in Harmon Township.

Gilles Leclerc Jr



2009



Technical Report
For
Assessment Work Performed on Mining Claim
#4205611

Prepared By:

Gilles Leclerc Jr

For

C. Villeneuve Construction Co. Ltd.
1533 Hwy 11 West, P.O. Box 1720
Hearst, Ontario
POL 1N0

February 6th, 2009

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Summary

The holders of the land covered by the survey is C. Villeneuve Construction Co. Ltd. which is located at 1533 Hwy 11 West, Hearst, Ontario, P0L 1N0.

The mining claim #4205611 on which the drilling work was performed is located in Harmon Township approximately 78 km North of Kapuskasing accessible by Fred Flatt Road.

- UTM, N.A.D. 83, Zone 17, Harmon Township

The workers accessed the site by going thru Kapuskasing using Gurney Road, then Fred Flatt Road as per figure #2.

The supervising of the survey was done by Roch Lapointe, representing C. Villeneuve Construction Co. Ltd.. The drilling runner was Kevin Martineau and drilling helper was Yvan Letourneau. The machinery was floated by Marc Gaudreau. The work was done from May 14th, 2007 to May 27th, 2008.

The Drilling consisted of a Dozer clearing a trail for the drilling machine. Then the diamond drill performed four holes in the mining claim boundaries then extracted the caissons for further analyses of the rock and overburden contained in the area. The water table was registered for future reference.

The drill holes logs

The drilling contractor, Norex Drilling Limited, drilled 4 holes within the mining claim 4205611 from the 14th to the 27th of May, 2009. The drill sample materials were stored in the Villeneuve Construction garage until they were sent to TBT Engineering on the 15th of December, 2008 for testing. TBT Engineering is located at Corporate & Engineering Office Suite 200 - 101 N. Syndicate Avenue, Thunder Bay, ON P7C 3V4, Tel: (807) 624-5160, Fax: (807) 624-5161. Below is a summary of the Bore Hole Logs, also included are the foreman daily reports filled by Kevin Martineau from appendix #1 thru #11.

Bore hole #1 was located at coordinates 416541E and 5543511N as per the map in figure #1. The 1-1/2" hole was drilled vertically on the 15th of May, 2007, to a depth of 29 meters from original ground. The overburden in drill hole #1 was of 2.8 meters. The penetration of the drill hole in bedrock was of 26.2m. The drill hole section are from appendix #12 to #14.

Bore hole #2 was located at coordinates 416223E and 5543772N as per the map in figure #1. The 1-1/2" hole was drilled vertically from the 17th to the 23 of May, to a depth of 29m from original ground. The overburden in drill hole #2 is non- existing since the hole was done on a rock surface. The penetration of the drill hole in bedrock was of 29m. The drill hole section are from appendix #15 to #17.

Bore hole #3 was located at coordinates 416537E and 5543822N as per the map in figure #1. The 1-1/2" hole was drilled vertically on the 23rd of May, 2009, to a depth of 29m from original ground. The overburden in drill hole #3 was of 2.8 meters. The penetration of the drill hole in bedrock was of 26.2 meters. The drill hole section are from appendix #18 to #20.

Bore hole #4 was located at coordinates 416392E and 5543640N as per the map in figure #1. The hole 1-1/2" was drilled vertically from the 16th to the 17th of May, 2009 to a depth of 41 meters from original ground. The core size was of 2" diameter. The overburden in drill hole #4 was of 9.5 meters. The penetration of the drill hole in bedrock was of 31.5m. The drill hole section are from appendix #21 to #24.

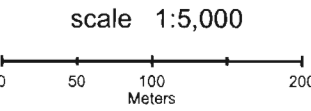
Figure 1

Claim # 4205611
Drilling Plan

Legend

- Claim Corner
- Bore Hole
- Primary Road
- Secondary Road
- Tertiary Road
- Claim # 4205611
- Water Body

Township: Harmon
Projection: UTM Zone 17N
Nad 83
Declination: 10° 9' West



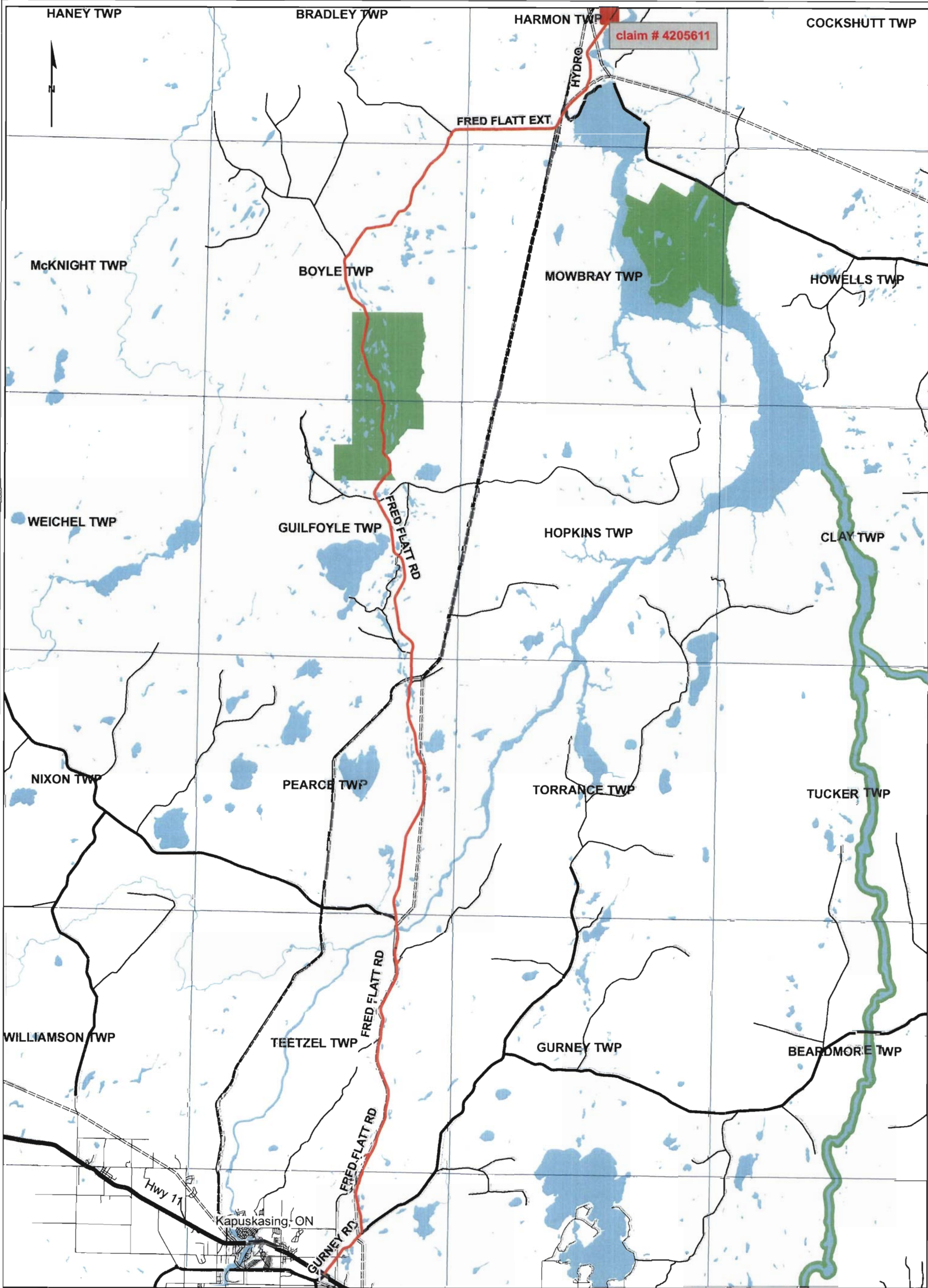


Figure 2

Legend

- Road to Claim
- Highway
- Municipal / Primary / Secondary
- Transmission Line
- Railway
- Claim # 4205611
- Township Boundary
- Water Body
- Provincial Park / OLL

Projection: UTM Zone 17N
Nad 83
Declination: 10° 9' West

scale 1:200,000

0 2.5 5 10
Kilometers

Claim # 4205611
Key Map



7210 Highway 101 East
Porcupine, Ontario, Canada P0N 1C0
Tel: (705) 235-2222 - Fax (705) 235-2806

FOREMAN'S DAILY REPORT

COMPANY: Villanova Construction DRILL NO. 03 DATE May 14 2007

PROJECT/LOCATION: _____

[illegible]


CONTRACTOR REPRESENTATIVE

APPROVED

COMPANY REPRESENTATIVE

TPP 07-0423

NOREX
DRILLING

7210 Highway 101 East
Porcupine, Ontario, Canada P0N 1C0
Tel: (705) 235-2222 - Fax (705) 235-2806

FOREMAN'S DAILY REPORT

[illegible]

COMPANY: VILLAGE VUL CONSTRUCTION DRILL NO. C-3 DATE MAY 15 2007

PROJECT/LOCATION: _____

[illegible]

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FOREMAN'S DAILY REPORT

COMPANY: Villeneuve Construction DRILL NO. 3 DATE May 15 2007

PROJECT/LOCATION:

[illegible]

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FOREMAN'S DAILY REPORT

HOLE NO.	METRES		TOTAL	CASING	SIZE	CORE RECOVERED	HEX BARREL	
	FROM	TO						
Ville 44	0	23	23	9.5	NW	13.5		

COMPANY: Villeneuve Construction DRILL NO. 3 DATE May 16 2007

PROJECT/LOCATION: Hq-Mon pit

NAME	RUNNER HELPER	TOTAL TIME	METRES	DRILLING	CASING	WATERLINE	MOVING	CEMENTING	DRILLING CEMENT	DOWNTIME & STANDBY	REPAIRS & SERVICING	TESTS QTY.	REAMING	PULLING CASING	TRAVEL TIME	DOZER HOURS	DRILL HOURS
K. Villeneuve	R	12	23	4.5	2	52.5									2.5	2.5	4
Y. Villeneuve	H	12	23	4.5	2	52.5									2.5	2.5	4

REMARKS <u>- pull rods & casing</u> <u>- move drill & pump, into hole</u>				SUPPLIES TO BE CHARGED TO COMPANY				
				HOLE #	SIZE	SIZE	SIZE	SIZE
				CASING	SIZE	SIZE	SIZE	SIZE
				3m x	3			
				1.5m x				
				2ft x	2	NW		
				REPAIRS & SERVICING	1			
				Mud # Bags	1			
				Cement Qty				
				Polymer Qty				
				DIAMONDS				
				TYPE	SIZE	BIT NO.	REASON FOR CHARGE	
				Shovel	NW		Leave	
MOBILE EQUIPMENT OPERATOR'S REPORT				DOZER NO.	SKIDDER NO.	MUSKEG NO.		
				LENGTH OF WATER LINE		600	METRES/FEET	
				DISTANCE MOVED		1500	METRES/FEET	
				TESTS	AT		METRES/FEET	
					AT		METRES/FEET	

[Signature]
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FOREMAN'S DAILY REPORT

HOLE NO.	METRES		TOTAL	CASING	SIZE	CORE RECOVERED	HEX BARREL	
	FROM	TO						
V.14 #2	2.8	26	24.2					

COMPANY: Villeneuve Construction DRILL NO. 3 DATE 22 May 2007

PROJECT/LOCATION: Harcourt Pit

NAME	RUNNER HELPER	TOTAL TIME	METRES	DRILLING	CASING	WATERLINE	MOVING	CEMENTING	DRILLING CEMENT	DOWNTIME & STANDBY	REPAIRS & SERVICING	TESTS QTY	REAMING	PULLING CASING	TRAVEL TIME	DOZER HOURS	DRILL HOURS
K Martineau	R	13:24	25			1										45	75
M. Lefebvre	R	13:24	25			1										45	75

REMARKS

Start up water line + drills

SUPPLIES TO BE CHARGED TO COMPANY

HOLE #	SIZE	SIZE	SIZE	SIZE
CASING				
3m x				
1.5m x				
2ft x				
Mud # Bags				
Cement Qty				
Polymer Qty				

DIAMONDS

TYPE	SIZE	BIT NO.	REASON FOR CHARGE

MOBILE EQUIPMENT OPERATOR'S REPORT

DOZER NO. SKIDDER NO. MUSKEG NO.

LENGTH OF WATER LINE	METRES/FEET
DISTANCE MOVED	METRES/FEET
TESTS	AT METRES/FEET
	AT METRES/FEET

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FOREMAN'S DAILY REPORT

HOLE NO.	METRES		TOTAL	CASING	SIZE	CORE RECOVERED	HEX BARREL	
	FROM	TO						
U.116 #2	26	29	3					
U.116 #3	28	29		2.8	NW 26.2			

COMPANY: Villeneuve Construction DRILL NO. 3 DATE May 23 2007

PROJECT/LOCATION: Harmen Pit

NAME	RUNNER HELPER	TOTAL TIME	METRES	DRILLING	CASING	WATERLINE	MOVING	CEMENTING	DRILLING CEMENT	DOWNTIME & STANDBY	REPAIRS & SERVICING	TESTS QTY.	REAMING	PULLING CASING	TRAVEL TIME	DOZER HOURS	DRILL HOURS	
K. Macdonald	R	12	32	7.5	1	1									25	1	7	
G. Jetterson	H	12	32	7.5	1	1									25	1	7	

REMARKS

SUPPLIES TO BE CHARGED TO COMPANY

HOLE #	U.116 #3				
CASING	SIZE	SIZE	SIZE	SIZE	SIZE
3m x					
1.5m x					
2ft x	4	NW			
CASING	1				
Mud # Bags	1				
Cement Qty					
Polymer Qty					

DIAMONDS

TYPE	SIZE	BIT NO.	REASON FOR CHARGE
Shovel	NW		Left in hole

MOBILE EQUIPMENT OPERATOR'S REPORT

DOZER
NO.

SKIDDER
NO.

MUSKEG
NO.

LENGTH OF WATER LINE	1600	METRES/FEET
DISTANCE MOVED	1600	METRES/FEET
TESTS	AT	METRES/FEET
	AT	METRES/FEET

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Porcupine, Ontario, Canada P0N 1C0
Tel: (705) 235-2222 - Fax (705) 235-2806

FOREMAN'S DAILY REPORT

COMPANY Villeneuve Construction DRILL NO. 3 DATE May 24 2007

PROJECT/LOCATION: Harmen Pit

[illegible]


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Porcupine, Ontario, Canada P0N 1C0
Tel: (705) 235-2222 - Fax (705) 235-2806

FOREMAN'S DAILY REPORT

[illegible]

COMPANY: VILLENEUVE CONSTRUCTION DRILL NO. DATE May 21 2007

PROJECT/LOCATION:

[illegible]


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Porcupine, Ontario, Canada P0N 1C0
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FOREMAN'S DAILY REPORT

[illegible]

COMPANY: VILLAGE VUE CONSTRUCTION DRILL NO. DATE MAY 27 2022

PROJECT/LOCATION:


[illegible]






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Strength (MPa) VH = Very High = >200 H = High = 50-200 M = Medium = 15-50 L = Low = 4-15 VL = Very Low = 1-4				Discontinuity type B = Bedding joint J = Cross Joint F = Fault S = Shear Plane				Spacing VW = Very wide = >3m W = Wide = 1-3m M = Moderate = 0.3-1m C = Close = 5-30cm VC = Very close = <5cm				Aperture O = Open C = Closed F = Filled				<div> TBT ENGINEERING CONSULTING GROUP</div> <div>FIELD CORE LOG Project #: 09-016 Borehole #: 07-01 Page 1/3 Client: Villeneuve Logger: Dave Gauthier Site: Date: 27 JAN 09</div>			
Weathering U = Unweathered = No signs S = Slightly = Oxidized M = Moderately = Discoloured H = Highly = Friable C = Completely = Soil-like				Orientation F = Flat = 0-20° D = Dipping = 20-50° V = Near Vertical = >50°				Roughness RU = Rough undulating RP = Rough planar SU = Smooth undulating SP = Smooth planar LU = Slicksided undulating LP = Slicksided planar				Filling T = Tight, hard O = Oxidized SA = Slightly altered, clay free S = Sandy, clay free Si = Sandy, silty, minor clay NC = Non-softening clay SC = Swelling, softening clay							


DEPTH FROM	BOX/RUN	% REC	% RQD	DEPTH TO	Rock code/graphic	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	DISCONTINUITIES							OCCASIONAL FEATURES	DRILLING OBSERVATIONS
									# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING		
0m		95%	87%	3m		GNEISS (w/ garnet, biotite) Med grey/white, banded, Variable interlocking texture	H	S	2	J	F	M	RP	O	~	40 cm pegmatitic granite (qtz + plag + k- spar) lens, gradational	~
	2.84 m		2.49 m	J						V	~	SU	C	~			
3m		100%	85%	6m		GNEISS (w/ garnet, biotite) Med grey/white, banded, Variable interlocking texture	H	S	3	J	F	W	RP	O	~	Some hydrothermal alteration, qtz veining, some joint filling/alteration	~
	3.06 m		2.54 m	J						V	~	RU	O	~			
				J						D	W	~	C	SA			
6m		100%	82%	9m		GNEISS (w/ garnet, biotite) Med grey/white, banded, Variable interlocking texture	H	U	2	J	F	W	RP	O	~	Some hydrothermal alteration, some qtz veining	~
	3.02 m		2.48 m	J						D	W	~	C/ O	SA			
9m		100%	91%	12m		GNEISS (w/ garnet, biotite) Med grey/white-pink, banded, Variable interlocking texture	H	U	2	J	F	M	RP	O	~	Some hydrothermal alteration, qtz vein breccias, zones of porphyritic garnet	~
	3.04 m		2.78 m	J						V	~	~	C	SA			






Strength (MPa) VH = Very High = >200 H = High = 50-200 M = Medium = 15-50 L = Low = 4-15 VL = Very Low = 1-4				Discontinuity type B = Bedding joint J = Cross Joint F = Fault S = Shear Plane				Spacing VW = Very wide = >3m W = Wide = 1-3m M = Moderate = 0.3-1m C = Close = 5-30cm VC = Very close = <5cm				Aperture O = Open C = Closed F = Filled				<div> TBT ENGINEERING CONSULTING GROUP</div> <div>FIELD CORE LOG Project #: 09-016 Borehole #: 07-01 Page 2/3 Client: Villeneuve Logger: Dave Gauthier Site: Date: 27 JAN 09</div>			
Weathering U = Unweathered = No signs S = Slightly = Oxidized M = Moderately = Discoloured H = Highly = Friable C = Completely = Soil-like				Orientation F = Flat = 0-20° D = Dipping = 20-50° V = Near Vertical = >50°				Roughness RU = Rough undulating RP = Rough planar SU = Smooth undulating SP = Smooth planar LU = Slickensided undulating LP = Slickensided planar				Filling T = Tight, hard O = Oxidized SA = Slightly altered, clay free S = Sandy, Clay free Si = Sandy, silty, minor clay NC = Non-softening clay SC = Swelling, softening clay							




DEPTH FROM	BOX/R/JN	% REC	% RQD	DEPTH TO	Rock code: <i>qz+plag+biot</i>	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	DISCONTINUITIES							OCCASIONAL FEATURES	DRILLING OBSERVATIONS
									# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING		
12m		3.06 m 100%	2.63 m 86%	15m		GNEISS (w/ garnet, biotite) Med grey/white-pink, banded, Variable interlocking texture	H	U	1	J	F	M/C	RP	O	T	10 cm pegmatitic qtz+plag lens (granitic)	~
15m		2.99 m 99%	2.71 m 91%	18m		GNEISS (w/ garnet, biotite) Med grey/white-pink, banded, Variable interlocking texture	H	U	1	J	F	M/C	RP	O	T	20 cm pegmatitic granite lens (qtz+plag+k-spar)	~
18m		3.00 m 100%	2.82 m 94%	21m		GNEISS (w/ garnet, biotite) Med grey/white-pink, banded, Variable interlocking texture	H	U	1	J	F	M/C	RP	O	T	Numerous thin pegmatitic granite (qtz+plag+k-spar) lenses	~
21m		2.78 m 93%	2.62 m 94%	24m		GNEISS (no garnet, w/ biotite) Med-dark grey/white-pink, banded, Variable interlocking texture	H	U	2	J	F	M/C	RP	O	T	Hydrothermal alteration haloes around thin qtz veins, some thin pegmatitic lenses	~
										J	D	M	RP	C	T		


Strength (MPa) VH = Very High = >200 H = High = 50-200 M = Medium = 15-50 L = Low = 4-15 VL = Very Low = 1-4				Discontinuity type B = Bedding joint J = Cross Joint F = Fault S = Shear Plane		Spacing VW = Very wide = >3m W = Wide = 1-3m M = Moderate = 0.3-1m C = Close = 5-30cm VC = Very close = <5cm		Aperture O = Open C = Closed F = Filled		Filling T = Tight, hard O = Oxidized SA = Slightly altered, clay free S = Sandy, Clay free Si = Sandy, silty, minor clay NC = Non-softening clay SC = Swelling, softening clay		 TBT ENGINEERING CONSULTING GROUP					
Weathering U = Unweathered = No signs S = Slightly = Oxidized M = Moderately = Discoloured H = Highly = Friable C = Completely = Soil-like										Orientation F = Flat = 0-20° D = Dipping = 20-50° V = Near Vertical = >50°		Roughness RU = Rough undulating RP = Rough planar SU = Smooth undulating SP = Smooth planar LU = Slickensided undulating LP = Slickensided planar		FIELD CORE LOG Project #: 09-016 Borehole #: 07-01 Page 3/3 Client: Villeneuve Logger: Dave Gauthier Site: Date: 27 JAN 09			
DEPTH FROM	BOX/RUN	% REC	% RQD	DEPTH TO	Rock code/ltaphc	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	# OF SETS	DISCONTINUITIES						OCCASIONAL FEATURES	DRILLING OBSERVATIONS
										TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING		
24m		296 m 99%	2.53 m 84%	27m		GNEISS (no garnet, w/biotite) Med-dark grey/white-pink, banded, Variable interlocking texture	H	U	1	J	D	M	RP	O	T	Thin pegmatitic qtz veins, no alteration halo	
27m		2.26 m 100%	2.08 m 100%	29m EOH		GNEISS (no garnet, w/biotite) Med-dark grey/white-yellow, banded, variable interlocking texture	H	U	0							28.5-29.0 m pegmatitic granite zone, granoblastic, some potassic alteration	





Strength (MPa) VH = Very High = >200 H = High = 50-200 M = Medium = 15-50 L = Low = 4-15 VL = Very Low = 1-4				Discontinuity type B = Bedding joint I = Cross Joint F = Fault S = Shear Plane				Spacing VW = Very wide = >3m W = Wide = 1-3m M = Moderate = 0.3-1m C = Close = 0-30cm VC = Very close = <5cm				Aperture O = Open C = Closed F = Filled				Filling T = Tight, hard O = Oxidized SA = Slightly altered, clay free S = Sandy, Clay free Si = Sandy, silty, minor clay NC = Non-softening clay SC = Swelling, softening clay				Roughness RU = Rough undulating RP = Rough planar SU = Smooth undulating SP = Smooth planar LL = Slickensided or undulating LP = Slickensided planar				Orientation F = Flat = 0-20° D = Dipping = 20-50° V = Near Vertical = >50°				Weathering U = Unweathered = No signs S = Slightly = Oxidized M = Moderately = Discoloured H = Highly = Friable C = Completely = Soil-like															
<div><div></div><div>TBT ENGINEERING CONSULTING GROUP</div></div>																				FIELD CORE LOG				Project #: 09-016				Borehole #: 07-02 Page 2/3				Client: Villeneuve				Logger: Dave Gauthier				Date: 28 JAN 09			
DEPT-FRUV		BOX/RUN		% REC		% ROD		DEPT-FTO		Rock code/Graphic		GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)				STRENGTH (est.)		WEATHERING		DISCONTINUITIES						OCCASIONAL FEATURES		DRILLING OBSERVATIONS															
																				# OF SETS		TYPE(S)		Orientation		SPACING		Roughness		APERTURE		FILLING											
13.6m		2.93 m		98%		2.37 m		79%		15 Gm		GNEISS (no garnet, w/ bitotite, k-spar), Med grey/white, banded, variable interlocking texture				I		J		1		J		F		M/C		RP		O		T		5-15cm pegmatitic granitic lenses		~							
16.6m		3.00 m		100%		2.58 m		86%		19 Gm		GNEISS (no garnet, w/ bitotite, k-spar), Med grey/white-purple, fine banding, interlocking, schistose in mafic (dark) bands				I		J		2		J		F		M/L		RP		O		T		Numerous thin pegmatitic lenses, rare coarse grain zones, late flaky biotite near 14m		~							
19.6m		3.10 m		100%		2.95 m		95%		22.6m		Migmatitic GNEISS (no garnet, w/ bitotite), med grey/white, variably banded, interlocking, schistose in mafic (dark) parts, coarse grained in felsic (light)				H		J		2		J		F		M		RP		O		T		One 10cm granitic vein, intrusive, sharp contact		~							
22.6m		3.08 m		100%		2.86 m		93%		25.6m		GNEISS (w/ garnet, bitotite, k-spar) Med grey/white-pink, banded, variable interlocking texture				H/M		U/S		2		J		F		M		RP		O		T		Few pegmatitic granitic lenses, fractured/altered zone 23.9- 24.1m, dipping and vertical		~							






Strength (MPa) VH = Very High = >200 H = High = 50-200 M = Medium = 15-50 L = Low = 4-15 VL = Very Low = 1-4				Discontinuity type B = Bedding joint J = Cross Joint F = Fault S = Shear Plane				Spacing VW = Very wide = >3m W = Wide = 1-3m M = Moderate = 0.3-1m C = Close = 5-30cm VC = Very close = <5cm				Aperture O = Open C = Closed F = Filled				<div> TBT ENGINEERING CONSULTING GROUP</div> <div>FIELD CORE LOG Project #: 09-016 Borehole #: 07-03 Page 1/3 Client: Villeneuve Logger: Dave Gauthier Site: Date: 29 JAN 09</div>			
Weathering U = Unweathered = No signs S = Slightly = Oxidized M = Moderately = Discoloured H = Highly = Friable C = Completely = Soil-like				Orientation F = Flat = 0-20° D = Dipping = 20-50° V = Near Vertical = >50°				Roughness RU = Rough undulating RP = Rough planar SU = Smooth undulating SP = Smooth planar LU = Slickensided undulating LP = Slickensided planar				Filling T = Tight, hard O = Oxidized SA = Slightly altered, clay free S = Sandy, Clay free Si = Sandy, silty, minor clay NC = Non-softening clay SC = Swelling, softening clay							
DEPTH FROM	BOX/RUN	% REC	% RQD	DEPTH TO	Rock code/symbol	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING	OCCASIONAL FEATURES	DRILLING OBSERVATIONS		
0m				2.8m		Overburden/Casing											~		
2.8m		100%	87%	5m		GNEISS (w/ garnet, biotite) Med grey/white-yellow-pink, banded, interlocking Mica – platy, pleochroic, brown	H/ M	S/ M	2	J J	F V	C ~	RP RU	O/ C	T SA	Fractured, oxidized Thin qtz veins w/ hydrothermal alteration halo, CG granite lenses, 30-40cm qtz vein w/ sulphides @ 4.5m	~		
5m		97%	90%	8m		GNEISS (w/ garnet, biotite) Med grey/white-pink, banded, interlocking	H	U	2	J J	F V	M/ C ~	RP RU	O C	T T	Pegmatitic granite lenses, some pure qtz Thin qtz veins w/ hydrothermal alteration haloes	~		
8m		97%	89%	11m		GNEISS (w/ garnet, biotite) Med grey/white-pink, banded, interlocking [more schistose/no garnet near 10m]	H	U	2	J J	F V	M/ C ~	RP RU	O/ C C	T T/ O	No pegmatite, CG granite lenses, CG felsic (light) bands w/ k-spar	~		


Strength (MPa) VH = Very High = >200 H = High = 50-200 M = Medium = 15-50 L = Low = 4-15 VL = Very Low = 1-4				Discontinuity type B = Bedding joint J = Cross Joint F = Fault S = Shear Plane				Spacing VW = Very wide = >3m W = Wide = 1-3m M = Moderate = 0.3-1m C = Close = 5-30cm VC = Very close = <5cm				Aperture O = Open C = Closed F = Filled				<div> TBT ENGINEERING CONSULTING GROUP</div> <div>FIELD CORE LOG Project #: 09-016 Borehole #: 07-03 Page 2/3 Client: Villeneuve Logger: Dave Gauthier Site: Date: 29 JAN 09</div>			
Weathering U = Unweathered = No signs S = Slightly = Oxidized M = Moderately = Discoloured H = Highly = Friable C = Completely = Soil-like				Orientation F = Flat = 0-20° D = Dipping = 20-50° V = Near Vertical = >50°				Roughness RU = Rough undulating RP = Rough planar SU = Smooth undulating SP = Smooth planar LU = Slickensided undulating LP = Slickensided planar				Filling T = Tight, hard O = Oxidized SA = Slightly altered, clay free S = Sandy, Clay free Si = Sandy, silty, minor clay NC = Non-softening clay SC = Swelling, softening clay							
DEPTH FROM	BOX/RUN	% REC	% RQD	DEPTH TO	Rock code/graphic	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	DISCONTINUITIES							OCCASIONAL FEATURES	DRILLING OBSERVATIONS		
									# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING				
11m		2.82 m 94%	2.44 m 81%	14m		[more schistose/no garnet near 11m] GNEISS (w/ garnet, biotite) Med grey/white-pink, banded, interlocking	H	U	2	J	F	C	RP	O/C	T	Pegmatitic granite and qtz lenses, 5-20cm thick; CG felsic bands; compact mafic bands; fracture associated w/ qtz veins	~		
							J	V	~	RU	C	T							
14m		3.12 m 100%	2.97 m 95%	17m		GNEISS (w/ garnet, biotite) Med grey/white-pink, banded, interlocking	H	U	2	J	F	C	RP	O	T	No pegmatite, CG granite felsic bands	~		
							J	V	~	RU	C	T							
17m		2.90 m 97%	2.43 m 81%	20m		GNEISS (w/ garnet, biotite) Med grey/white-greenish, banded, interlocking	H	U	2	J	F	C	RP	O	T	No pegmatite, some vertical fracture, rare thin qtz veins w/ hydrothermal alteration halos, some chloritic alteration	~		
							J	V	~	RU	O/C	SA							
20m		2.99 m 99%	2.92 m 97%	23m		GNEISS (w/ garnet, biotite) Med grey/white-pink, banded, interlocking, w/ thick CG granite lenses	H	U	1	J	F	C	RP	O	T	No qtz veins, no pegmatite, some thin schistose/no garnet zones	~		


Strength (MPa)		Discontinuity type		Spacing		Aperture		 TBT ENGINEERING CONSULTING GROUP									
VH = Very High = >200 H = High = 50-200 M = Medium = 15-50 L = Low = 4-15 VL = Very Low = 1-4		B = Bedding joint J = Cross Joint F = Fault S = Shear Plane		VW = Very wide = >3m W = Wide = 1-3m M = Moderate = 0.3-1m C = Close = 5-30cm VC = Very close = <5cm		O = Open C = Closed F = Filled											
Weathering		Orientation		Roughness		Filling		FIELD CORE LOG									
U = Unweathered = No signs S = Slightly = Oxidized M = Moderately = Discoloured H = Highly = Friable C = Completely = Soil-like		F = Flat = 0-20° D = Dipping = 20-50° V = Near Vertical = >50°		RU = Rough undulating RP = Rough planar SU = Smooth undulating SP = Smooth planar LU = Slickensided undulating LP = Slickensided planar		T = Tight, hard O = Oxidized SA = Slightly altered, clay free S = Sandy, Clay free Si = Sandy, silty, minor clay NC = Non-softening clay SC = Swelling, softening clay		Project #: 09-016 Borehole #: 07-03 Page 3/3 Client: Villeneuve Site: Date: 29 JAN 09 Logger: Dave Gauthier									
DEPTH FROM	BOX/RUN	% REC	% RQD	DEPTH TO	Rock code/graphic	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING	OCCASIONAL FEATURES	DRILLING OBSERVATIONS
23m		98% 2.95 m	92% 2.75 m	26m		GNEISS (w/ garnet, biotite) Med grey/white, banded, interlocking	H	U	1	J	F	C	RP	O	T	No k-spar, no pegmatite, no thick felsic lenses	
26m		96% 2.87 m	86% 2.58 m	29m EOH		GNEISS (w/ garnet, biotite) Med grey/white-pink, banded, interlocking	H	U	1	J	F	C	RP	O	T	30cm CG granite lens, no pegmatite, more felsic bands than previous interval	

Strength (MPa) VH = Very High = >200 H = High = 50-200 M = Medium = 15-50 L = Low = 4-15 VL = Very Low = 1-4				Discontinuity type B = Bedding joint J = Cross Joint F = Fault S = Shear Plane				Spacing VW = Very wide = >3m W = Wide = 1-3m M = Moderate = 0.3-1m C = Close = 5-30cm VC = Very close = <5cm				Aperture O = Open C = Closed F = Filled				<div> TBT ENGINEERING CONSULTING GROUP</div> <div>FIELD CORE LOG Project #: 09-016 Borehole #: 07-04 Page 1/4 Client: Villeneuve Logger: Dave Gauthier Site: Date: 29 JAN 09</div>			
Weathering U = Unweathered = No signs S = Slightly = Oxidized M = Moderately = Discoloured H = Highly = Friable C = Completely = Soil-like				Orientation F = Flat = 0-20° D = Dipping = 20-50° V = Near Vertical = >50°				Roughness RU = Rough undulating RP = Rough planar SU = Smooth undulating SP = Smooth planar LU = Slickensided undulating LP = Slickensided planar				Filling T = Tight, hard O = Oxidized SA = Slightly altered, clay free S = Sandy, Clay free Si = Sandy, silty, minor clay NC = Non-softening clay SC = Swelling, softening clay							

DEPTH FROM	BOX/RUN	% REC	% RQD	DEPTH TO	Rock code/graphic	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	DISCONTINUITIES							OCCASIONAL FEATURES	DRILLING OBSERVATIONS
									# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING		
0m				9.75m		Overburden/Casing											~
9.75m		1.25 m 100%	1.03 m 82%	11m		GNEISS (w/ garnet, biotite) Med grey/white, banded, interlocking	H/ M	S	1	J	F	C	RP	O	T	One narrow zone of chlorite alteration associated with dipping fracture, parallell w/ fabric	~
11m		2.64 m 88%	1.71 m 57%	14m		GNEISS (w/ garnet, biotite) Med grey/white-pink, banded, interlocking	H/ M	S/ M	2	J	F	C	RP	O	T	Several zones of fracture and chlorite alteration, some hydrothermal, w/oxidation	~
14m		2.82 m 94%	2.48 m 83%	17m		GNEISS (w/ garnet, biotite) Med grey/white-pink, banded, interlocking [some garnet free zones]	H	U	2	J	F	C	RP	O	T	Some hydrothermal alt. associated w/ dipping joints 1m thick pegmatitic gran. w/o banding	~

Strength (MPa) VH = Very High = >200 H = High = 50-200 M = Medium = 15-50 L = Low = 4-15 VL = Very Low = 1-4				Discontinuity type B = Bedding joint J = Cross Joint F = Fault S = Shear Plane				Spacing VW = Very wide = >3m W = Wide = 1-3m M = Moderate = 0.3-1m C = Close = 5-30cm VC = Very close = <5cm				Aperture O = Open C = Closed F = Filled				<div> TBT ENGINEERING CONSULTING GROUP</div> <div>FIELD CORE LOG Project #: 09-016 Borehole #: 07-04 Page 2/4 Client: Villeneuve Logger: Dave Gauthier Site: Date: 29 JAN 09</div>			
Weathering U = Unweathered = No signs S = Slightly = Oxidized M = Moderately = Discoloured H = Highly = Friable C = Completely = Soil-like				Orientation F = Flat = 0-20° D = Dipping = 20-50° V = Near Vertical = >50°				Roughness RU = Rough undulating RP = Rough planar SU = Smooth undulating SP = Smooth planar LU = Slickensided undulating LP = Slickensided planar				Filling T = Tight, hard O = Oxidized SA = Slightly altered, clay free S = Sandy, Clay free Si = Sandy, silty, minor clay NC = Non-softening clay SC = Swelling, softening clay							
DEPTH FROM	BOX/RUN	% REC	% RQD	DEPTH TO	Rock code/graphic	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING	OCCASIONAL FEATURES	DRILLING OBSERVATIONS		
17m		2.89 m 96%	2.32 m 77%	20m		GNEISS (w/ garnet, biotite) Med grey/white, banded, interlocking	H	U	2	J	F	M	RP	O	T	Numerous thin qtz veins w/hydrothermal alteration halo, ass. w/dipping joint CG qtz/granite w/sulphides @20m	~		
				J						D	M	SP	C	T					
20m		2.91 m 97%	2.43 m 81%	23m		GNEISS (w/ garnet, biotite) Med grey/white, banded, interlocking	H	S	2	J	F	M	RP	O	O/SA	Rusty dipping fracture, some w/ chlorite alt. Some flat fracture, oxidized Some slight shears	~		
				J/S						D	M	RP	O	O/SA					
23m		2.93 m 98%	2.41 m 80%	26m		GNEISS (w/ garnet, biotite) Med grey/white-pink, banded, interlocking	H	J	2	J	F	M	RP	O	O/SA	Dipping, highly oxidized shears or joints, some open Some hydrothermal alt. Thin granite, CG lenses	~		
				S/J						D	M	RP	O/C	O/SA					
26m		2.89 m 96%	2.43 m 81%	29m		Migmatitic GNEISS (no garnet, w/biotite), Med grey/white-pink, banded, interlocking, CG granite lenses [increasing alteration to 29m, finer grain, darker, more veining]	H	S	2	J	F	M	RP	O	O/SA	Numerous altered veins/shears towards 29m, not hydrothermal, sericitized/chloritized	~		
				J						D	W	RP	O/C	SA/NC					

Strength (MPa) VH = Very High = >200 H = High = 50-200 M = Medium = 15-50 L = Low = 4-15 VL = Very Low = 1-4				Discontinuity type B = Bedding joint J = Cross Joint F = Fault S = Shear Plane				Spacing VW = Very wide = >3m W = Wide = 1-3m M = Moderate = 0.3-1m C = Close = 5-30cm VC = Very close = <5cm				Aperture O = Open C = Closed F = Filled				<div> TBT ENGINEERING CONSULTING GROUP</div> <div>FIELD CORE LOG Project #: 09-016 Borehole #: 07-04 Page 3/4 Client: Villeneuve Logger: Dave Gauthier Site: Date: 29 JAN 09</div>			
Weathering U = Unweathered = No signs S = Slightly = Oxidized M = Moderately = Discoloured H = Highly = Friable C = Completely = Soil-like				Orientation F = Flat = 0-20° D = Dipping = 20-50° V = Near Vertical = >50°				Roughness RU = Rough undulating RP = Rough planar SU = Smooth undulating SP = Smooth planar LU = Slickensided undulating LP = Slickensided planar				Filling T = Tight, hard O = Oxidized SA = Slightly altered, clay free S = Sandy, Clay free Si = Sandy, silty, minor clay NC = Non-softening clay SC = Swelling, softening clay							
DEPTH FROM	BOX/RUN	% REC	% RQD	DEPTH TO	Rock code/graphic	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING	OCCASIONAL FEATURES	DRILLING OBSERVATIONS		
29m		1.55 m 100%	1.42 m 90%	30.55 m		GNEISS (no garnet, w/ biotite) Med grey/white, finely banded, interlocking, no thick felsic zones	H	S	2	J	F	M	RP	O	T	Increasing alteration toward 30m, greenschist-type, chloritized and sercitized, tight filled fracture	~		
30.55m			VERY POOR	31.4 m		SHEAR/ALTERATION ZONE Not competent, extremely friable, black-green, chloritized, dipping fabric	VL	C									~		
31.4		0.6 m 100%	0.6 m 100%	32m		GNEISS (no garnet, w/ biotite) Med grey/white, finely banded, interlocking CG mafics in felsic zones	H	S	1	J	F	~	RP	O/C	T	Not altered ass. w/ SZ	~		
32m		2.88 m 96%	2.62 m 87%	35m		GNEISS (no garnet, w/ biotite) Med grey/white, finely banded, interlocking CG mafics in felsic zones	H/M	S/H	2	J	F	M	RP	O/C	T	Minor zone of friable/completely wx shear/fracture CG mafic blasts in felsic zones, one fx ass. w/gran intrusive	~		

Strength (MPa) VH = Very High = >200 H = High = 50-200 M = Medium = 15-50 L = Low = 4-15 VL = Very Low = 1-4				Discontinuity type B = Bedding joint J = Cross Joint F = Fault S = Shear Plane		Spacing VW = Very wide = >3m W = Wide = 1-3m M = Moderate = 0.3-1m C = Close = 5-30cm VC = Very close = <5cm		Aperture O = Open C = Closed F = Filled		Filling T = Tight, hard O = Oxidized SA = Slightly altered, clay free S = Sandy, clay free Si = Sandy, silty, minor clay NC = Non-softening clay SC = Swelling, softening clay		 TBT ENGINEERING CONSULTING GROUP					
Weathering U = Unweathered = No signs S = Slightly = Oxidized M = Moderately = Discoloured H = Highly = Friable C = Completely = Soil-like												Orientation F = Flat = 0-20° D = Dipping = 20-50° V = Near Vertical = >50°		Roughness RU = Rough undulating RP = Rough planar SU = Smooth undulating SP = Smooth planar LU = Slickensided undulating LP = Slickensided planar		FIELD CORE LOG Project #: 09-016 Borehole #: 07-04 Page 4/4 Client: Villeneuve Logger: Dave Gauthier Site: Date: 29 JAN 09	
DEPTH FROM	BOX/RUN	% REC	% RQD	DEPTH TO	Rock code/graphic	GENERAL DESCRIPTION (Rock type(s), %, colour, texture, etc.)	STRENGTH (est)	WEATHERING	DISCONTINUITIES							OCCASIONAL FEATURES	DRILLING OBSERVATIONS
									# OF SETS	TYPE(S)	Orientation	SPACING	Roughness	APERTURE	FILLING		
35m		100%	93%	38m		GNEISS (no garnet) Nearing granoblastic granite – coarse banding, me-dk grey/pinkish white, interlocking	H	U	2	J/S	F	M	RP	O	SA	CG mafics in granite phases Segregation and banding subtle but present, only minor k- spar	~
	3.04 m	2.85 m			J					D	W	RU	C/O	T			
38m		64%	57%	41m EOH		GNEISS (no garnet) Nearing granoblastic granite – coarse banding, me-dk grey/pinkish white, interlocking	H	U	2	J	F	M	RP	O	T	10cm pegmatitic granite lens, segregation and banding subtle No recovery 40-41m	~
	1.92 m	1.72 m			J					D	W-M	RU	C	T			