FACTUAL DATA REPORT. HYDROGEOLOGICAL SITE INVESTIGATION, TOUQUOY IN-PIT TAILINGS DISPOSAL

Appendix C 2021 INVESTIGATION RESULTS



C.1 SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS



SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS

SOIL DESCRIPTION

Terminology describing common soil genesis:

Rootmat	 vegetation, roots and moss with organic matter and topsoil typically forming a mattress at the ground surface
Topsoil	- mixture of soil and humus capable of supporting vegetative growth
Peat	- mixture of visible and invisible fragments of decayed organic matter
Till	- unstratified glacial deposit which may range from clay to boulders
Fill	- material below the surface identified as placed by humans (excluding buried services)

Terminology describing soil structure:

Desiccated	- having visible signs of weathering by oxidization of clay minerals, shrinkage cracks, etc.
Fissured	- having cracks, and hence a blocky structure
Varved	- composed of regular alternating layers of silt and clay
Stratified	- composed of alternating successions of different soil types, e.g. silt and sand
Layer	- > 75 mm in thickness
Seam	- 2 mm to 75 mm in thickness
Parting	- < 2 mm in thickness

Terminology describing soil types:

The classification of soil types are made on the basis of grain size and plasticity in accordance with the Unified Soil Classification System (USCS) (ASTM D 2487 or D 2488) which excludes particles larger than 75 mm. For particles larger than 75 mm, and for defining percent clay fraction in hydrometer results, definitions proposed by Canadian Foundation Engineering Manual, 4th Edition are used. The USCS provides a group symbol (e.g. SM) and group name (e.g. silty sand) for identification.

Terminology describing cobbles, boulders, and non-matrix materials (organic matter or debris):

Terminology describing materials outside the USCS, (e.g. particles larger than 75 mm, visible organic matter, and construction debris) is based upon the proportion of these materials present:

Trace, or occasional	Less than 10%		
Some	10-20%		
Frequent	> 20%		

Terminology describing compactness of cohesionless soils:

The standard terminology to describe cohesionless soils includes compactness (formerly "relative density"), as determined by the Standard Penetration Test (SPT) N-Value - also known as N-Index. The SPT N-Value is described further on page 3. A relationship between compactness condition and N-Value is shown in the following table.

Compactness Condition	SPT N-Value
Very Loose	<4
Loose	4-10
Compact	10-30
Dense	30-50
Very Dense	>50

Terminology describing consistency of cohesive soils:

The standard terminology to describe cohesive soils includes the consistency, which is based on undrained shear strength as measured by *in situ* vane tests, penetrometer tests, or unconfined compression tests. Consistency may be crudely estimated from SPT N-Value based on the correlation shown in the following table (Terzaghi and Peck, 1967). The correlation to SPT N-Value is used with caution as it is only very approximate.

Consistency	Undrained Sh	Approximate		
Consistency	kips/sq.ft.	kPa	SPT N-Value	
Very Soft	<0.25	<12.5	<2	
Soft	0.25 - 0.5	12.5 - 25	2-4	
Firm	0.5 - 1.0	25 - 50	4-8	
Stiff	1.0 - 2.0	50 – 100	8-15	
Very Stiff	2.0 - 4.0	100 - 200	15-30	
Hard	>4.0	>200	>30	

🕥 Stantec

SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS - JULY 2014

ROCK DESCRIPTION

Except where specified below, terminology for describing rock is as defined by the International Society for Rock Mechanics (ISRM) 2007 publication "The Complete ISRM Suggested Methods for Rock Characterization, Testing and Monitoring: 1974-2006"

Terminology describing rock quality:

RQD	Rock Mass Quality		Alternate (Colloquic	al) Rock Mass Quality
0-25	Very Poor Quality Poor Quality Fair Quality Good Quality		Very Severely Fractured	Crushed
25-50			Severely Fractured	Shattered or Very Blocky
50-75			Fractured	Blocky
75-90			Moderately Jointed	Sound
90-100	Excellent Quality		Intact	Very Sound

RQD (Rock Quality Designation) denotes the percentage of intact and sound rock retrieved from a borehole of any orientation. All pieces of intact and sound rock core equal to or greater than 100 mm (4 in.) long are summed and divided by the total length of the core run. RQD is determined in accordance with ASTM D6032.

SCR (Solid Core Recovery) denotes the percentage of solid core (cylindrical) retrieved from a borehole of any orientation. All pieces of solid (cylindrical) core are summed and divided by the total length of the core run (It excludes all portions of core pieces that are not fully cylindrical as well as crushed or rubble zones).

Fracture Index (FI) is defined as the number of naturally occurring fractures within a given length of core. The Fracture Index is reported as a simple count of natural occurring fractures.

Terminology describing rock with respect to discontinuity and bedding spacing:

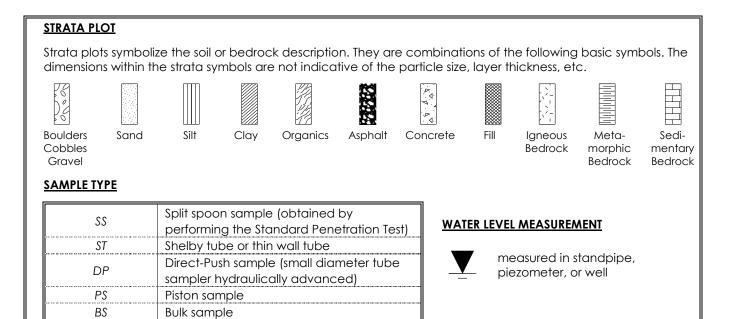
Spacing (mm)	Discontinuities	Bedding
>6000	Extremely Wide	-
2000-6000	Very Wide	Very Thick
600-2000	Wide	Thick
200-600	Moderate	Medium
60-200	Close	Thin
20-60	Very Close	Very Thin
<20	Extremely Close	Laminated
<6	-	Thinly Laminated

Terminology describing rock strength:

Strength Classification	Grade	Unconfined Compressive Strength (MPa)
Extremely Weak	RO	<1
Very Weak	R1	1 – 5
Weak	R2	5 – 25
Medium Strong	R3	25 – 50
Strong	R4	50 – 100
Very Strong	R5	100 – 250
Extremely Strong	R6	>250

Terminology describing rock weathering:

Term	Symbol	Description
Fresh	W1	No visible signs of rock weathering. Slight discoloration along major discontinuities
Slightly W2		Discoloration indicates weathering of rock on discontinuity surfaces. All the rock material may be discolored.
Moderately	W3	Less than half the rock is decomposed and/or disintegrated into soil.
Highly	W4	More than half the rock is decomposed and/or disintegrated into soil.
Completely	W5	All the rock material is decomposed and/or disintegrated into soil. The original mass structure is still largely intact.
Residual Soil	W6	All the rock converted to soil. Structure and fabric destroyed.



RECOVERY

HQ, NQ, BQ, etc.

For soil samples, the recovery is recorded as the length of the soil sample recovered. For rock core, recovery is defined as the total cumulative length of all core recovered in the core barrel divided by the length drilled and is recorded as a percentage on a per run basis.

Rock core samples obtained with the use

of standard size diamond coring bits.

N-VALUE

Numbers in this column are the field results of the Standard Penetration Test: the number of blows of a 140 pound (63.5 kg) hammer falling 30 inches (760 mm), required to drive a 2 inch (50.8 mm) O.D. split spoon sampler one foot (300 mm) into the soil. In accordance with ASTM D1586, the N-Value equals the sum of the number of blows (N) required to drive the sampler over the interval of 6 to 18 in. (150 to 450 mm). However, when a 24 in. (610 mm) sampler is used, the number of blows (N) required to drive the sampler over the interval of 6 to 18 in. (150 to 450 mm). However, when a 24 in. (300 to 610 mm) may be reported if this value is lower. For split spoon samples where insufficient penetration was achieved and N-Values cannot be presented, the number of blows are reported over sampler penetration in millimetres (e.g. 50/75). Some design methods make use of N-values corrected for various factors such as overburden pressure, energy ratio, borehole diameter, etc. No corrections have been applied to the N-values presented on the log.

DYNAMIC CONE PENETRATION TEST (DCPT)

Dynamic cone penetration tests are performed using a standard 60 degree apex cone connected to 'A' size drill rods with the same standard fall height and weight as the Standard Penetration Test. The DCPT value is the number of blows of the hammer required to drive the cone one foot (300 mm) into the soil. The DCPT is used as a probe to assess soil variability.

OTHER TESTS

S	Sieve analysis
Н	Hydrometer analysis
k	Laboratory permeability
Y	Unit weight
Gs	Specific gravity of soil particles
CD	Consolidated drained triaxial
СU	Consolidated undrained triaxial with pore
<u> </u>	pressure measurements
UU	Unconsolidated undrained triaxial
DS	Direct Shear
С	Consolidation
Qu	Unconfined compression
	Point Load Index (Ip on Borehole Record equals
Ιp	I_p (50) in which the index is corrected to a
	reference diameter of 50 mm)

	Single packer permeability test; test interval from depth shown to bottom of borehole
	Double packer permeability test; test interval as indicated
Å	Falling head permeability test using casing
Ţ	Falling head permeability test using well point or piezometer

inferred

FACTUAL DATA REPORT. HYDROGEOLOGICAL SITE INVESTIGATION, TOUQUOY IN-PIT TAILINGS DISPOSAL

C.2 BOREHOLE RECORDS (BH21-01 TO BH21-12)



F	CLIEN ROJE	ROJECT Geotechnical Investigation - Touquoy In-Pit Disposal							PAGE _1 of _2 PROJECT No. 121619250.5500 METHOD Wash Bore DATUM Geodetic				
	DATES DRILLED (mm-dd-yy) 10-19-21 to 10-22-21 WATER LEVEL 3.67m 1-24-22 INCLIN. / A										N. / AZ		
ē	Ê					S	Fo YMBOLS AN	or abbreviation D TERMS US	NOTE: is, symbols ar ED ON BORE	: nd descriptions EHOLE AND T	s refer to EST PIT RE	CORDS	WELL
DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	LOST / BROKEN CORE	TOTAL CORE %	SOLID CORE %	R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	CONSTRUCTION DETAILS
0	111.27	OVERBURDEN					20 40 50 80		80 		15 30 45 60 75	10 ⁻⁸ 10 ⁻⁷ 10 ⁻⁶	
1 2 3 4	107.57		0 0 0	1 1									
չ որություն	105.49	Fair to good quality, moderately to slightly weathered, medium grained, massive texture, light grey, GREYWACKE				=BC= =BC= =BC=	100 			4 4 4	0		
7 m	104.98 104.54	Fair quality, slightly weathered, fine grained, massive texture, dark grey, ARGILITE		ור		-BC-				6	· · · · · ·		
0 Indudududu	104.00	Fair to good quality, slightly weathered, medium grained, massive texture, light grey, GREYWACKE Good quality, fresh, fine grained, massive texture, dark grey, ARGILITE			3 HQ		87.	83	82	:6 :		1.40x10 ⁻⁶	
1 1 2	100.73	Good quality, slightly weathered to fresh, medium grained, massive texture, light grey, GREYWACKE			4					2			
3 4	98.91	Good quality, slightly weathered to fresh, fine grained, massive texture, dark grey, ARGILITE			4 HQ		90	87	80	.6.	0		
5 6		Fair to excellent quality, fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with thin to very thin intermitent lenses of ARGILITE			5 HQ		96	.90:	.84	.3	o		
7 8 9 0					6 HQ		100	93.		.6 .7 .5		2.90x10 ⁻⁸	
<u></u>					7 HQ		99	97	.94	3	ō.		
لسلسلسلسلس					8 HQ		100	95	93	3	Ō		
بأسلسلسلسلين	86.35				9 HQ		97:	.80;	62		0	4.70x10 ^{.8}	
Judnuhudunhundun		Fair to good quality, fresh, medium grained, massive texture, light grey, GREYWACKE	PPP	-	10 HQ		93:	. 85:	.70	.5 .8 .9	0		
huhuhuhuhu		- interpreted possible fault/shear zone from 33.0 m to 33.7 m.			11 HQ		96:	.73.	58	.8 10 5	Ó	5.00x10 ⁻⁹	
; -	Logged By: Reviewed By: UG11_NEW.GLB (C) STANTEC BEDROCK LOG 7 3/9/22 6:33:34 PM												

CLIEN PROJE	CCT Geotechnical Investigation - Touque				sposal			H21-	01	METHO	PAGE <u>2</u> of <u>2</u> CT No. <u>121619250.5500</u> Wash Bore
LOCAT	TION <u>Middle Musquodobit, NS</u> S DRILLED (mm-dd-yy) <u>10-19-21 to 1</u>	0-22	2-21	_		ATION: _ R LEVEL		<u>.272 m</u> 7m 1-2	24-22	DATUN INCLIN	M Geodetic
					F SYMBOLS AN	or abbreviation	NOTE: ns, symbols an ED ON BORE	nd descriptions EHOLE AND T	refer to EST PIT RE	CORDS	WELL
ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL RUN NO.		RECO TOTAL CORE %	SOLID CORE %	R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	CONSTRUCTION DETAILS
	Fair to good quality, fresh, medium grained, massive texture, light grey, GREYWACKE (continued) Good to excellent quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with thin to very thin intermitent lenses of ARGILITE End of Borehole		13 HC 14 HC 15 HC		8 8 8 8 83 83 83 83 83 83 99 99 98 99 90 90 900 90 90 90 900 90 90 90 900 90 90 90 900 90 90 90 900 90 90 90 900 90 90 90 900 90 90 90 900 90 90 90 900 90 90 90 900 90 90 90 900 90 90 90 900 90 90 90 900 90 90 90 900 90 90 90 900 90 90 90 900 90 90 90 900 90 90 90 900 90 90 90 <td< td=""><td>B B S</td><td>B R 74 74 74 74 74 74 75 75 77 77 77 77 77 77 85 77 91 91 91 91 85 86 86 86 86 86 80 80</td><td>• • • • • • • • • • • • • • • • • • •</td><td>0 0 0 0 0 0 0 0 0 0 0 0</td><td>*<u>e</u> ⁵<u>e</u> ⁶<u>e</u> ⁶<u>e</u> 5.00x10° 4.10x10° 4.10x10° 2.50x10°</td><td></td></td<>	B B S	B R 74 74 74 74 74 74 75 75 77 77 77 77 77 77 85 77 91 91 91 91 85 86 86 86 86 86 80 80	• • • • • • • • • • • • • • • • • • •	0 0 0 0 0 0 0 0 0 0 0 0	* <u>e</u> ⁵ <u>e</u> ⁶ <u>e</u> ⁶ <u>e</u> 5.00x10° 4.10x10° 4.10x10° 2.50x10°	
											Logged By: Reviewed By:

ROJE	Atlantic Mining NS Inc. Geotechnical Investigation - Tou Middle Musquodobit, NS	iquoy	In-]	Pit		oosal ELEVA	TION:		.36 m		METHO	CT No. 121619250.5500 DD Wash Bore 1 Geodetic
	S DRILLED (mm-dd-yy) 10-24-21 to	10-3	0-21	1	-	WATEF	R LEVEL	11.0	67m 1-2		INCLIN.	. / AZ
(L					S	Fo MBOLS AN	or abbreviation	NOTE: ns, symbols ar SED ON BORE	nd descriptions EHOLE AND T	EST PIT REC	CORDS	WELL
ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	LOST / BROKEN CORE	RECC TOTAL CORE %	SOLID CORE %	R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	CONSTRUCTION DETAILS
09.36	OVERBURDEN				BR(8888			5 		0 ⁻²	
		° 0 0										
04.48		- <u> </u>	:	_	BC	· · · · ·						
	Poor quality, slightly weathered, fine grained, foliated texture, light grey, GREYWACKE			1 HQ	BC BC	68:	34	.26	4	•		
					BC BC BC	70	56	40	5	o		
			Ţ	3 HQ	=BC= =BC= =BC=	84	67	57	.9 .8 .13	0	5.60x10 ⁻⁸	
			1 1	4 HQ		93:	59.	37	6 · · · · · · · · · · · · · · · · · · ·	Q		
	 interpreted possible fault/shear zone from 16.8 m to 21.4 m. at 17.0 m (0.05 m thick quartz vein noted). at 17.1 m (0.05 m thick quartz vein noted). 			5 HO	BC BC BC BC BC BC	80:	46.	26	10 ⁻ 12: 	0		
91.07	Poor to good quality, slightly weathered to fresh, medium grained, massive texture, light grey, GREYWACKE			6 HQ	-BC-	92	66	50	6 9 4	0	4.30x10 [®]	
	- at 23.2 m (0.25 m thick quartz vein noted).			7 HQ	-BC-	95	.88	79	.5 .2 10	0		
				8 HQ		92	56:	42	6 11	O		
	- at 28.3 m (0.05 m thick quartz vein noted).			9 HQ		99:		.72	8	α	3.90x10 ⁸	
				10 HQ	≡BC≡	96			4	0	2.30x10 [%]	

	CLIEN PROJE	CT Geotechnical Investigation - Touqu					posal			H21-(.36 m		METHOD	PAGE <u>2</u> of <u>2</u> No. <u>121619250.5500</u> Wash Bore Conductio
	LOCAT		0-30	0-21	l	-	ELEVA WATEF	TION: _ R LEVEL		.36 m 67m 1-2	24-22	DATUM . INCLIN. /	Geodetic AZ60 / 170
	(L					S	Fc YMBOLS AN	r abbreviation	NOTE: s, symbols an ED ON BORE	nd descriptions	refer to		
DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	LOST / BROKEN CORE	RECC TOTAL CORE %		R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	WELL CONSTRUCTION DETAILS
-35 -36 -37-	76.96	Poor to good quality, slightly weathered to fresh, medium grained, massive texture, light grey, GREYWACKE (continued)		I	11 HQ	BC	8 8 9 9 8 100 :	884 844 844 844 844 844 844 844	<u>©</u> © Q		45 75 75	10 ⁶ 10 ⁷ 10 ⁶	
-38 -39 -40		Poor to good quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermitent lenses of ARGILITE			12 HQ		97.			2		2.30x10*8	
-41 -42 -43 -43 -44		- interpreted possible fault/shear zone or quartz vein with localized shearing from 42.9 m to 44.0 m.			13 HQ	-BC- -BC-	79	63	50	2 12: 8	0		
-45 -46 -47 -47 -48		- at 46.5 m (0.1 m thick quartz vein noted).			14 HQ 15 HQ	=BC= BC	91:		60		0 	9.00x10 ⁸	
49 50 51 51	66.40	Very poor to good quality, slightly weathered to fresh, medium grained, massive texture, light grey, GREYWACKE		I		BC BC	91		.73	11: 9: 10:	0		
					17 HQ	=BC=	90	70	57	10: 5 7	Ö.		
-56 -57 -58 -58 -59					18 HQ	BC= BC= BC	70	46:	25	10: 6 8 9		4.80x10 ⁸	
60 61 61 62	56.00	End of Borehole			19 HQ	BC	97:		:83	3	0		
-63 -64 -65													
-66 -67 -68 -68 -69 -70													
-70													Logged By: Reviewed By:

	TION Middle Musquodobit, NS			it Dis 	ELEVA	TION: _		.234 m		METHC DATUM	CT No. 121619250.5500 DD Wash Bore 1 Geodetic
ATE	S DRILLED (mm-dd-yy) 11-6-21 to 1	1-1:	5-21	_		R LEVEL		9m 1-2			. / AZ90 / N/A
(L) Z		1	1		FO SYMBOLS AN	or abbreviatio	ns, symbols a SED ON BORI	nd descriptions EHOLE AND 1	s refer to EST PIT RE	CORDS	WELL
ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	LOST / BROKEN CORE	TOTAL CORE %	SOLID CORE %	R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	CONSTRUCTION DETAILS
13.23	OVERBURDEN)) ()			2000 2000 2000 2000 2000 2000 2000 200	80 80 80 80 80 80 80 80 80 80	80	5 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10 10 10 10 10 10 10 10 10 10	$\begin{smallmatrix} & & & & \\ & & & & \\ & & & & \\ & & & & $	
10.44	Poor quality, slightly weathered, fine to medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermitent lenses of ARGILITE		1 H0		95:		.69	5 8 2 8 8	¢ 		Packer Testing Not Completed from 3.0 m to 17
06.87	Possible UNDERGROUND OPENING.		HI 3 HI	-							m Depth.
05.17	Excellent quality, slightly weathered, medium grained, massive texture, light grey, GREYWACKE		4 H	5	93:	93:	93	· · · · · · · · · · · · · · · · · · ·	o		
02.17	Fair to excellent quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermitent lenses of ARGILITE		5 H	5	95:	95:		.1 .2 .0	p		
			6 H	5	100	96	.95	· · · · · · · · · · · · · · · · · · ·	Ó		
				2	99	- 99:	-99	2 2 2 2 2	Ō		
			8 H		97:	94:	.93		0	1.10x10 ⁻⁷	
	- at 26.0 m (0.05 m thick quartz vein noted).		9 H	-BC- -BC-	95:	.76.	.66		0		
			10 H)	91	-80	.73	: :4 : : :6 : : :5 : :	¢		
81.17	Door to good quality freeh, fine to medium animal failing 1		1 H0		95	88	84	:2: :5: :3:	o	4.60x10 ^{.8}	
	Poor to good quality, fresh, fine to medium grained, foliated texture, light grey to dark grey, interbedded GREYWACKE and ARGILITE		1: H	PBC-	82	63	47	15 14 .5	0		

	CLIEN							RD	В	H21-	03	PROJECT	PAGE <u>2</u> of <u>4</u> No. <u>121619250.5500</u> Wash Bore
I	LOCA	TION Middle Musquodobit, NS				-	ELEVA		o = o	.234 m		DATUM .	Geodetic
]	DATE	S DRILLED (mm-dd-yy) 11-6-21 to	11-15	5-2		-		R LEVEL			24-22		AZ / N/A
(L	(m) M		<u>-</u>			S	Fo YMBOLS AN	r abbreviatior D TERMS US	NOTE: is, symbols and ED ON BORE	d descriptions HOLE AND T	Frefer to EST PIT RE	CORDS	WELL
DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	LOST / BROKEN CORE	RECC TOTAL CORE %	SOLID CORE %	R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	 HYDRAULIC CONDUCTIVITY k, m/sec. 	CONSTRUCTION DETAILS
-35 -36 -37 -37 -38		Poor to good quality, fresh, fine to medium grained, foliated texture, light grey to dark grey, interbedded GREYWACKE and ARGILITE (continued)			13 HQ		95.	980		© ♀ ♀ & 	15 30 46 46 60 77		
-39 -40 -41					14 HQ		95:	82	.70	.5	0	2.00x10 ⁻⁸	
42	69.18	Good to excellent quality, fresh, medium grained, massive to			15 HQ		96:		:85	2	Q		
45 46 47 47 48		foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermitent lenses of ARGILITE - at 45.6 m (0.20 m thick quartz vein noted).			16 HQ 17 HQ	-BC-	99	88	.79		D	2.70x10 ^{.9}	
-49 -50 -51 -52		 - at 49.2 m (0.05 m thick quartz vein noted). - at 49.4 m (0.05 m thick quartz vein noted). 			18 HQ		999:				0		
-53 -54 -55 -55 -56					19 HQ		99:	99.		0	•		
-57 -58 -59	54.18	- at 57.3 m (0.05 m thick quartz vein noted).			20 HQ		97	.90	.85	3	D	7.60x10 ⁻⁹	
-60 -61 -62		Good quality, slightly weathered to fresh, fine to medium grained, foliated texture, light grey to dark grey, interbedded GREYWACKE and ARGILITE			21 HQ	=BC=	100	91	-84	10 ⁻ 2	Ó		
63 64	48.18	- at 62.2 m (0.05 m thick quartz vein noted).			22 HQ		94:	.85	:82	5 0 3	0		
		Fair to excellent quality, fresh, medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermitent lenses of ARGILITE - at 65.2 m (0.1 m thick quartz vein noted). - at 65.2 m (0.1 m thick quartz vein noted).			23 HQ		97.		.73		• •	4.70x10 ^{.9}	
-68 -69 -70					24 HQ		100	100	100	2	0		
													Logged By: Reviewed By:

	CLIEN	~					RD	B	H21-	03	PROJEC	PAGE <u>3</u> of <u>4</u> T No. <u>121619250.5500</u> D <u>Wash Bore</u>
	ROJE OCA	TION Middle Musquodobit, NS			<u> </u>	ELEVA	TION:		.234 m		DATUM	Geodetic
		S DRILLED (mm-dd-yy) 11-6-21 to	11-15	5-21		WATE	R LEVEL	8.5	9m 1-1	24-22	INCLIN.	/ AZ N/A
	Ê					F SYMBOLS AN	or abbreviation	NOTE: ns, symbols ar ED ON BORE	nd description	s refer to FEST PIT RE	CORDS	WELL
DEPTH (m)	TION (LITHOLOGICAL DESCRIPTION	РГОТ		į u	RECO	OVERY		щ	È "	د≽	CONSTRUCTION DETAILS
DEP.	ELEVATION (m)		STRATA PLOT	WATER LEVEL	LOST / BROKEN CORF	TOTAL	SOLID	R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	HYDRAULIC ONDUCTIVITY k, m/sec.	02.7.120
			SI	Ň	LO	CORE %	CORE %		7=8	DISCO	COND K,	
-70		Fair to excellent quality, fresh, medium grained, massive to	-			8 8 9 8		80 60 20	20 10 10 15		10 ⁻⁶	=
-71		foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermitent lenses of ARGILITE		2 H	¢	: 100 :	100	100	: 0: :	· · · · · ·	4.70x10 ⁻⁹	
-72 -		(continued)	Ē						0			
-73				2 H	Q	. 99: .	: 94: : : : : : :	: :93	:0:::	0		
-74-				_					3	· · · · · ·		
-75-				2	5							
-76-				2 H	-	95:	92			0	5.00x10 ⁻⁹	
-77 -					BC BC					· · · · · ·		
-78-		- at 77.5 m (0.05 m thick quartz vein noted).		2	7				2			
-79-			臣	2 H	Q I	99	93	92	$ \begin{array}{c} \vdots \\ \vdots \\$	0		
-80				-					0			
-81				2	2							
-82-			臣	2 H	Ž	97	97	97	: :0 : :	0		
-83	30.18	Excellent quality, slightly weathered to fresh, fine to medium							: :0: :			
-84-		grained, foliated texture, light grey to dark grey, interbedded	$\left(\left(1 \right) \right)$	2					0			
-85-		GREYWACKE and ARGILITE - at 83.9 m (0.1 m thick quartz vein noted).		2' H	Ý	98:	.95:	.95		o	1.50x10 ⁻⁹	
-86	27.18	Good to excellent quality, slightly weathered to fresh, medium							4	· · · · · ·		
-87-		grained, massive to foliated texture, light grey to dark grey,		2								
-88-		GREYWACKE with medium to very thin intermitent lenses of ARGILITE		3 H	Ŷ	97:			2	0		
-89-		- at 88.4 m (0.05 m thick quartz vein noted).	Ħ						1	· · · · · ·		=
-90-									:0::			
91			臣	3 H	ģ	99	92	90	6			
-92-			臣						: :3: :	· · · · · ·		
-93-				2	,				: 0: :			
-94-			臣	3 H	Q	98	97	97	$\begin{array}{c} \vdots \end{array} $	• • •	4.60x10 ⁻⁹	
-95-										· · · · · ·		
-96-			臣	2	2				0			
-97-	15.74	- at 96.8 m (0.6 m thick quartz vein noted).		3 H	ģ	92: :	: :88: :	: :87: :	.0	•		
-98-	10.71	Fair to excellent quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark							6	<u> </u>		
99		grey, GREYWACKE with medium to very thin intermitent lenses										
-100-		of ARGILITE		3- H	¢.	99:	. 96.	.96	:0:::	0.		
									3			
		- at 101.8 m (0.2 m thick quartz vein noted).	Ē		-				.0		1.50x10 ⁻⁹	
-103-			臣	3. H	ç	100	100	100	1	Ó		
			Ē		_				0	· · · · · ·		
-105				3 H	Ϋ́ς	100	.98	.98	:0:			
												Logged By:
												Reviewed By:

	CLIEN PROJE	Geotechnical Investigation - Touqu TION Middle Musquodobit, NS	10y	In-F	Pit		posal ELEVA	TION: _	113	H21- .234 m		. METHOE DATUM	PAGE <u>4</u> of <u>4</u> No. <u>121619250.5500</u> Wash Bore Geodetic
	DATE	S DRILLED (mm-dd-yy) 11-6-21 to 1	<u>1-1</u> :	5-21				R LEVEL	NOTE:			INCLIN. /	/ AZ90 / N/A
(E	(m) N0		5	Ē			YMBOLS AN	D TERMS US	ns, symbols ar ED ON BORE	HOLE AND T	EST PIT RE		WELL CONSTRUCTION
DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	LOST / BROKEN CORE	TOTAL CORE %	SOLID CORE %	R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	0 ^{0⁴ b⁰⁷ HYDRAULIC b⁰⁶ CONDUCTIVITY b⁰⁶ k, m/sec.}	DETAILS
-105 -106-		Fair to excellent quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, GREYWACKE with medium to very thin intermitent lenses		Ë	36 1Q		88998			0 2 2 2 0	012 012 012 012 012 012 012 012 012 012	1.50x10 ⁻⁹	
-107- 		of ARGILITE <i>(continued)</i> - at 106.9 m (0.05 m thick quartz vein noted). - at 106.9 m (0.06 m thick quartz vein noted).			37 1Q		100						
-109 					4Q					3	0		
-111- -112-		- at 111.6 m (0.16 m thick quartz vein noted).			38 1Q		88	777	74		0		
-113- 					39 1Q	-BC-	95	71	62	10		2.80x10 ⁻⁹	
-115- 					4Q					6	0		
-117-				H H	40 1Q		100	96:	.96	.5.	.O.		
-119- -120-	-6.91			4 E	41 1Q		95	.95	95	3			
-121 -122-		End of Borehole											
123- 124-													
125 126													
-127- -128-													
129 													
-131 													
133													
-135- -136- 													
137 138 139													
140										<u></u>			Logged By: Reviewed By:

(Stantec DRILL						RD	В	H21-	04	PROJEO	PAGE <u>1</u> of <u>2</u> CT No. <u>121619250.5500</u>
]]	PROJE	CT <u>Geotechnical Investigation - Touqu</u> TION <u>Middle Musquodobit, NS</u>	uoy 1 0-6-		Pit	Dis	ELEVA	TION: _	104 0.11	<u>.966 m</u> m 1-2	24-22	METHO DATUN	Wash Bore A Geodetic I. / AZ. -60 / 40
						s	Fo SYMBOLS AN	or abbreviatior	NOTE: Is, symbols ar ED ON BORE	nd descriptions	refer to		
DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	LOST / BROKEN CORE		SOLID CORE %	R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	WELL CONSTRUCTION DETAILS
-0	104.97	OVERBURDEN	0	Ţ		۵	8 8 9 9 8	· · · · 80 · · · · 80 · · · 20		5 10 15	15 15 15 15 15 15	10 ⁻⁸ 10 ⁻⁷ 10 ⁻⁶	=
-1 -2 -3	102.10		0000			DC							
-4 		Very poor to good quality, slightly weathered to fresh, fine grained, massive texture, medium strong to strong, occasionally laminated to medium bands of quartz and shale, grey, ARGILITE			1 HQ	-BC-	100	35	26	25	0		
- 6 - 7 - 7 - 8				-	2 HQ		65	33	17	13: 9 15	0		
-9 -10 -11 -11				_	3 HQ	=BC=	93	.77	.68	17 14 .6	O	4.10x10 ⁻⁸	
-12 -13 -13 -14					4 HQ		79:	49:	36	25 .6 11	:0;		
-15 - 16 - 16 - 17		- at 16.4 m (0.60 m thick quartz vein noted).			5 HQ		76.	45	30	18 20 15	ō		
-18		- at 18.1 m (0.10 m thick quartz vein noted).			6					7::			
-19 20		- at 19.2 m (0.05 m thick quartz vein noted).			Η̈́Q	BC-	93.	65.	42	14.		4.30x10 ⁻⁹	
-21 22 23 23		- at 21.9 m (0.05 m thick quartz vein noted).		-	7 HQ	-BC-	95	47	33	20	0		
-24 25 					8 HQ		90:	:66:	.38	12	.0		
-27 -28 -29 -29					9 HQ		41	32	24	25 25 25	.O.	6.10x10 ⁻⁹	
-30 -31 -31 -32						-BC-	97	45	30	11. 25 13.	0		
-33 34 34 35					11 HQ	<u> </u>	95	66-	55	15 15 .8	0	4.00x10 ⁻⁹	
		EW CLD (C) STANTEC DEDDOCK LOG 7, 2002 - 622-44 DM											Logged By: Reviewed By:

	CLIEN	CT Geotechnical Investigation - Touqu						RD		H21-	04	METHO	PAGE <u>2</u> of <u>2</u> CT No. <u>121619250.5500</u> DD <u>Wash Bore</u>
	LOCA	IION <u>Middle Musquodobit, NS</u> S DRILLED (mm-dd-yy) <u>9-30-21 to 1</u>	0-6-	-21			ELEVA	TION: _ R LEVEL		<u>.966 m</u> n 1-2	24-22	DATUN	A _ Geodetic I. / AZ60 / 40
		S DRILLED (min-du-yy)						or abbreviation					./ AZ
(m) H	(m) NO		LOT	, KEL	_			ID TERMS US	ED ON BORE			~	WELL CONSTRUCTION
DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL		LOST / BROKEN CORE	TOTAL CORE %	SOLID CORE %	R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	 HYDRAULIC CONDUCTIVIT k, m/sec. 	DETAILS
-35 -36 -37 -37 -38		Very poor to good quality, slightly weathered to fresh, fine grained, massive texture, medium strong to strong, occasionally laminated to medium bands of quartz and shale, grey, ARGILITE (continued) - broken core noted from 35.3 m to 38.3 m possibly a result of nearby underground workings.			12 IQ	BC BC BC BC BC BC BC BC	8 8 9 8 71	80 80 80 80 80 80 80 80 80 80	32	20 20 20 20 20 20 20 20 20 20	15 30 45 60 60 60	4.00x10 [°] .	
-39 -40 -41					I3 IQ	BC	64	37	29	15 15	0		
-42 43 44 44	68.15	Poor to good quality, fresh, fine to medium grained, massive to foliated texture, medium strong to strong, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermitent lenses of ARGILITE			E	BC≡ BC≡	97:	.90:	:85	.5	. O	2.20-10.9	
-45 46 		- at 43.4 m (0.4 m thick quartz vein noted).				BC- BC-	95:	.78:	.64	9 7 2	.O.	3.20x10 ⁻⁹	
-48 -49 -49 		- at 49.5 m (0.1 m thick quartz vein noted).			16 IQ		97	68	53	16	Ó		
 					17 IQ		97	78	68	7	0		
54 54 						BC= BC-	87:		48		.o	2.80x10 ^{.9}	-
-56 57 57 58					19 IQ		91	80.	.75	111. 12: 12: 12:	0		
-59					20 IQ	-	100	. 85:	:80	12	•		
-60 -61 -62	52.52	End of Borehole		E	IQ		100						
-63 64 -65 -													
-66 -67 -68 -68													
-70											<u></u>		Logged By: Reviewed By:

LIEN ROJE	CT Geotechnical Investigation - Touc	uoy	In-	Pit	Dis						METHO	T No. <u>121619250.5500</u> D <u>Wash Bore</u>
	TIONMiddle Musquodobit, NS S DRILLED (mm-dd-yy)11-1-21to	11-3-	-21		-	ELEVA WATEI	TION: _ R LEVEL		<u>.773 m</u> 4m 1-2	24-22	DATUM INCLIN	Geodetic / AZ60 / 100
	(<u>)</u> <u>)</u>					Fo	or abbreviation	NOTE: ns, symbols ar		s refer to		
EVATION (m)	LITHOLOGICAL DESCRIPTION	PLOT	EVEL	O			VERY	ED ON BORE				WELL CONSTRUCTION DETAILS
ELEVA		STRATA PLOT	WATER LEVEL	RUN NO.	LOST / BROKEN CORE	TOTAL CORE %	SOLID CORE	R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	DETAILO
108.77					BROI	<u>88888</u>	20 60 %	80 60 20	20 20 20 20 20 20 20 20 20 20 20 20 20 2	15 30 DISC 45 C	01 0 ⁹ °°′′	
	OVERBURDEN	0										
		O	V									
) O	.									
		0										
103.82	Poor quality, slightly weathered to fresh, fine grained, foliated	(1	=BC=	100		40	25			
	texture, dark grey, SHALE with very thin lenses of ARGILITE - drilling sub-parallel to foliation/bedding.			1 HQ	-BC-	100	55	40	25 >	>		
	unning sub-parallel to tonation octuang.			2 HQ	-BC-	68	48	41	10:	· · · · · · · · · · · · · · · · · · ·		
					=BC=				10			
	- interpreted possible fault/shear zone from 10.1 m to 11.0 m.				Da				20			
97.81				3 HQ	-BC-	85	55	43	10	0	1.10x10 ⁻⁸	
	Poor to good quality, moderately weathered to fresh, fine grained massive to foliated texture, occasionally laminated to medium				=BC= -BC-				4			
	bands of quartz and shale, dark grey, ARGILITE				BC BC BC=	95		.89	5	o		
									5			
				5					5			
				5 HQ		95:		63	10. 6	D:		
				6 HQ		91	72	56	8	0	6.80x10' ⁹	
	- at 21.9 m (0.25 m thick quartz vein noted).								7	· · · · · · ·		
				7 HQ	-BC-	83	45	32	20	0		
					-BC-				10.			
									12			
				8 HQ		97	55	50		0		
									8			
				9 HQ		94	76	.65	· · · · · · · · · · · · · · · · · · ·	р	5.00x10 ⁻⁹	
									9			
		(1)(1)(1)		10					4			
				10 HQ		95	75	62	5	0		
				11 HQ		99:	92:		: :2 : :		3.90x10 ⁻⁹	

]	CLIEN PROJE	CT Geotechnical Investigation - Touq TION Middle Musquodobit, NS	uoy	In-]					108	H21-05	_ METH	M Geodetic
]	DATES	S DRILLED (mm-dd-yy) 11-1-21 to 1	1-3-	-21		-		R LEVEL			_ INCLIN	N. / AZ60 / 100
DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	LOST / BROKEN CORE		or abbreviation D TERMS US OVERY SOLID CORE %	R.Q.D. %	FRACTURE INDEX PER 1 m PER 1 m DIP MIT DIP MIT CODE MIT	HYDRAULIC CONDUCTIVITY k, m/sec.	WELL CONSTRUCTION DETAILS
-35 -37 -37 -37 -37 -38 -39		Poor to good quality, moderately weathered to fresh, fine grained, massive to foliated texture, occasionally laminated to medium bands of quartz and shale, dark grey, ARGILITE (continued)			111 HQ 12 HQ 13 HQ 14 HQ 15 HQ 16 HQ 17 HQ 18 HQ		8 8 8 992 8 8 855 8 8 855 8 8 866 9 8 892 9 9 893 8 8 895 8 8 895 8 8 895 8 8 895 8 8 895 8 8 895 8 8 895 8 8 992 92 92 92 92 92 966 966 97 977 93 93	92: 92: 76: 76: 55: 55: 55: 56: 7		P P	m r m in	
	55.57	End of Borehole										
-/0 -												Logged By: Reviewed By:

Interface Inter	LIEN ROJE	Geotechnical Investigation - Touq Middle Musquodobit, NS	uoy	In-	Pit				120	H21-		METHC DATUM	PAGE <u>1</u> of <u>2</u> CT No. <u>121619250.5500</u> DD <u>Wash Bore</u> <u>1</u> Geodetic
Description Desc	ATES	S DRILLED (mm-dd-yy) 10-7-21 to	<u>10-9-</u>	-21			WATEF	R LEVEL			24-22	INCLIN	. / AZ -90 / N/A
$ \frac{1}{10^{2}} = 1$	(L) N		<u>+</u>			s	Fo YMBOLS AN	or abbreviation D TERMS US	is, symbols ar	nd descriptions	Frefer to EST PIT RE	CORDS	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ELEVATIO	LITHOLOGICAL DESCRIPTION	STRATA PLC	WATER LEVI	RUN NO.	LOST / ROKEN CORE	TOTAL CORE	SOLID CORE	R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	
$\frac{1.56}{100}$ $1.$	120.46	OVEDDIDDEN		T		BI	2 4 8 8						
$ \begin{array}{ c c c } \hline & & & & & & & & & & & & & & & & & & $	115.46	Poor to fair quality, slightly weathered to fresh, fine to medium											
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					1 HQ		73	65	53		0		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			中中		² HQ		90:	82	73	9 7 20	o.		
Good quality, slightly weathered, fine grained, massive texture, last grey, ARCILITEBack 20206Fair quality, slightly weathered, medium grained, massive texture, light grey, OREYWACKE 100 100 00 Prior quality, slightly weathered, fine grained, massive texture, light grey, OREYWACKE 100 100 00 00 Prior quality, slightly weathered to firsh, fine to medium grained, massive to foliated texture, light grey to dark grey, occasional quartz vins, GREYWACKE 100 100 00 00 100 100 00 00 00 00 00 00 100 100 100 00 00 00 100			臣			=BC=	93:	.76:	.70	8 10	0	1.10x10 ⁻⁸	
$ \begin{array}{c} \hline Good quality, slightly weathered, fine grained, massive texture, light grey, GREVWACKE Fair quality, slightly weathered, fine grained, massive texture, light grey, GREVWACKE Fair quality, slightly weathered for fresh, fine to medium grained, massive texture, light grey to dark grey, RGREVWACKE Fair quality, slightly weathered to fresh, fine to medium grained, massive texture, light grey to dark grey, GREVWACKE Fair quality, slightly weathered to fresh, fine to medium grained, massive texture, light grey to dark grey, GREVWACKE Fair quality, slightly weathered to fresh, fine to medium grained, massive texture, light grey to dark grey, GREVWACKE Fair quality, slightly weathered to fresh, fine to medium intermitent lenses of ARGILITE Fair quality, slightly weathered, fine grained, massive texture, light grey to dark grey, GREVWACKE Fair quality, slightly weathered, fine grained, massive texture, light grey to dark grey, GREVWACKE Fair quality, slightly weathered, fine grained, massive texture, light grey to dark grey, GREVWACKE Fair quality, slightly weathered, fine grained, massive texture, light grey to dark grey, GREVWACKE Fair quality, slightly weathered to fresh, fine to medium intermitent lenses of ARGILITE Fair quality, slightly weathered to fresh, fine to medium intermitent lenses of ARGILITE Fair quality, slightly weathered to fresh, fine to medium intermitent lenses of ARGILITE Fair quality, slightly weathered to fresh, fine to medium intermitent lenses of ARGILITE Fair quality, slightly weathered to fresh, fine to medium intermitent lenses of ARGILITE Fair quality, slightly weathered to fresh, fine to medium intermitent lenses of ARGILITE Fair quality, slightly weathered, fine to medium intermitent lenses of ARGILITE Fair quality, slightly weathered, fine to medium intermitent lenses of ARGILITE Fair quality, slightly weathered, fine to medium intermitent lenses of ARGILITE Fair quality, slightly weathered, fine to medium intermitent lenses of ARGILITE$	104.06						97	66	51	15	0		
In matrixFair quality, slightly weathered, fine grained, massive texture, dark grey, ARGILITEImage: a fair of texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermitent lenses of ARGILITEImage: a fair of texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermitent lenses of ARGILITEImage: a fair of texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermitent lenses of ARGILITEImage: a fair of texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermitent lenses of ARGILITEImage: a fair of texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermitent lenses of ARGILITEImage: a fair of texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermitent lenses of ARGILITEImage: a fair of texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermitent lenses of ARGILITEImage: a fair of texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermitent lenses of ARGILITEImage: a fair of texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermitent lenses of ARGILITEImage: a fair of texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermitent lenses of ARGILITEImage: a fair of texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermitent lenses of ARGILITEImage: a fair of texture, light grey to dark grey, occasional quartz veins, GREYWACKE weint lenseImage: The fair of texture, light grey to dark grey, occa	102.96					=BC=				16			
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	102.36 101.56	light grey, GREYWACKE Fair quality, slightly weathered, fine grained, massive texture,			5 HQ		96	78	70	10	0		
$ \begin{bmatrix} & & & & & & & & & & & & & & & & & & $		Poor to good quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to				=BC=	92:	70:	58	11	o	5.70x10 ^{.8}	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					7		93:	.72:	60	10:	o		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						≡BC≡	90:	82	80	5	0		
10 HQ 977 74 666 111 10 11 11 10 11 11 10 11 11 10 11 11					9 HQ		96		67	10	Ō	4.50x10 ^{.9}	
					10 HQ		97	74	66		0		

	CLIEN	~						RD	В	H21-()6	PROJEC METHO	PAGE <u>2</u> of <u>2</u> T No. <u>121619250.5500</u> Wash Bore
	LOCA	Middle Musquodobit, NS	0-9				ELEVA	TION: _		. <u>461 m</u> 5m 1-2	4-22	DATUM	
-		S DRILLED (mm-dd-yy) 10-7-21 to]								d descriptions HOLE AND TE			
DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	BROKEN CORE	RECC TOTAL CORE %	SOLID CORE %	R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	WELL CONSTRUCTION DETAILS
-35 -36 -37 -38 -39		Poor to good quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermitent lenses of ARGLLITE (<i>continued</i>) - interpreted possible fault zone from 36.1 m to 36.4 m.			11 HQ 12 HQ		8 8 8 8 8 85 97	8 8 9 0 0 79 85	8 € € 8 	∞ ≅ ₽ 8	0 15 38 38 60 60 60	10 ⁰	
-40 -41 -42 -42 -43 -43 -44					13 HQ	BC_	75:	71:		10 :8 :7	D	6.90x10 [®]	
-45 -46 -47 -47					14 HQ	BC= BC	83	52.	40	.7 .6 .8 .5	0		
	70.41	Fair to good quality, slightly weathered to fresh, medium grained, massive texture, light grey, GREYWACKE			15 HQ 16 HQ	BC	93:		77		Ó Ó	9.40x10°	
-53 -54 -55 -55 -56					17 HQ		100			2 :5 :4	Q.		
-57 -58 -59 59 	60.41				18 HQ 19 HQ		100		.87	· · · 4 · · · · · · · · · · · · · · · ·	D O	3.20x10*	
-54 -55 -57		End of Borehole											
-66 -67 -68 -68 -69 -70													
													Logged By: Reviewed By:

	Geotechnical Investigation - Touq Middle Musquodobit, NS			Pit	_	ELEVA			.93 m		DATUM	D Wash Bore Geodetic
TE	S DRILLED (mm-dd-yy) 9-25-21 to 9	9-27-	21				R LEVEL	NOTE:				/ AZ60 / 30
E) z		15	Ш		S	F0 MBOLS AN	or abbreviation	is, symbols ar ED ON BORE	nd descriptions EHOLE AND T	s refer to EST PIT REC	CORDS	WELL CONSTRUCTION
	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	LOST / BROKEN CORE	TOTAL CORE %	SOLID CORE %	R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	DETAILS
3.93	OVERBURDEN	0				<u> </u>	· · · · 80 · · · · 80 · · · 20	80 60 20			10 ⁶	
		\odot \odot \odot \odot										
2.18	Poor to good quality, moderately weathered to fresh, fine grained,								25			
	massive to foliated texture, occasionally laminated to medium bands of quartz and shale, dark grey, ARGILITE			1 HQ	BC	40	26	13	25 25			
				2 HQ	BC	67	12	0	25 25 25		1.20x10 ⁻⁷	
	- at 13.8 m clay seam noted (50 mm).			3 HQ	BC BC BC	75:	20	7:	25 25 20	p		
				4 HQ	BC	73.	24	10	25 25 10	0		
				5 HQ	_BC_	777	49:	40	10: 20 16		3.90x10 ⁻⁸	
					=BC= _BC_	83	52	.47	10: 10: .4	0		
	- interpreted possible fault/shear zone from 26.2 m to 26.4 m.			7 HQ	BC	73.	38	27	.6. .13. .13.	0		
				8 HQ	BC	62.	19	13	25 20 15	0	3.60x10 ⁻⁸	
				9 HQ		66	37	28	25 10 4			

CLIEN PROJ	ECT Geotechnical Investigation - Touqu					pos	sal						121-	07	7		METHO	PAGE <u>2</u> of <u>2</u> T No. <u>121619250.5500</u> Wash Bore
LOCA DATE	TION <u>Middle Musquodobit, NS</u> S DRILLED (mm-dd-yy) <u>9-25-21 to 9</u>	-27-	-21		-				ΓΙΟΝ: _ LEVEL		N/2		3 m Ba	ack	fill	ed	DATUM INCLIN.	Geodetic
								For	abbreviatio	ns, s	NOTE	and d	lescription	ns ref	er to			
ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	LOST / BROKEN CORE	T/ C	RE OTAL CORE %	cov	VERY SOLID CORE %		R.Q.D.		FRACTURE INDEX PER 1 m	ATIM TENOOSIO	DIP w.r.t. CORE AXIS		HYDRAULIC CONDUCTIVITY k, m/sec.	WELL CONSTRUCTION DETAILS
	Poor to good quality, moderately weathered to fresh, fine grained, massive to foliated texture, occasionally laminated to medium bands of quartz and shale, dark grey, ARGILITE <i>(continued)</i> - interpreted possible fault/shear zone from 35.2 m to 35.5 m. - at 35.8 m clay seam noted (50 mm).			10 HQ			8 8 8 90 90 90		· 300:	80	<u>8 9 8 8</u> 50 50 84	ت ب ب	2 2 2 8 15	10 10	.0. .0.		0.000000000000000000000000000000000000	
83.60	End of Borehole	$\frac{1}{1}$			BC						<u> </u>		7					
ՠ՟ՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠՠ																		
													· · · · · · · · · · · · · · · · · · ·					Logged By: Reviewed By:

CLIEN PROJE	Geotechnical Investigation - Touqu TION Middle Musquodobit, NS		In-	Pit		posal ELEVA	RD	118	H21-08		METHO DATUM	PAGE <u>1</u> of <u>2</u> T No. <u>121619250.5500</u> Wash Bore Geodetic / AZ. <u>-60 / 270</u>
	S DRILLED (mm-dd-yy)			-	-				nd descriptions refer			/ AZ
ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	LOST / BROKEN CORE		NO TERMS US	ED ON BORE R.Q.D. %	FRACTURE FRACTURE INDEX FRACTURE FRACTU	CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	WELL CONSTRUCTION DETAILS
118.03	OVERBURDEN	0			8		80 80 40				10^{-6}	
115.81		° > O	.							· · · · · · · · · · · · · · · · · · ·		
	Poor to good quality, moderately weathered to fresh, fine grained, massive texture, dark grey, ARGILITE			1 HQ	BC	20	7	Ō	10: D			
	- from 5.7 m to 7.1 m highly fractured rock.			2 HQ	=BC=	82	52	30				
108.80				3 HQ		97:	70:	60	12: 10: 8:		8.70x10 ⁻⁸	
	Poor to excellent quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermitent lenses of ARGILITE			4 HQ		84:	82:	.79	· 2 ·			
	- from 15.4 m to 16.0 m increase in grain size.			5 HQ		100	95	93	6. 5. 4.			
				6 HQ		100	88	80			8.70x10 ⁻⁹	
		=++∓		7 HQ		97:	.76	47	· · · · · · · · · · · · · · · · · · ·			
				8 HQ		97:	. 90:	.82	3 			
	intermented provible for 1/4 and range from 22 1 or to 22 2			9 HQ		87.	777	69	5 0 0		2.10x10 ⁻⁸	
	 interpreted possible fault/shear zone from 28.1 m to 28.3 m. interpreted possible fault/shear zone from 30.1 m to 30.3 m. 			10 HQ		93	83	70	9 8 0			
				11 HQ		95		.73	.5. .5. .6. .0.		7.30x10%	
				12		93		79				
												Logged By: Reviewed By:

		~)F	RD			B	BH21-	-08	PROJE	PAGE <u>2</u> of <u>2</u> CT No. <u>121619250.5500</u> DD <u>Wash Bore</u>
	ROJE		1403	111-	-1 10	-			AT	ION	:		118	8.027 m		DATUI	M Geodetic
		S DRILLED (mm-dd-yy) 10-17-21 to	10-1	8-2	1	_	W	VATE	ER	LEV	EL				-24-22	INCLIN	N. / AZ. <u>-60 / 270</u>
	ĉ						YM	I BOLS A	For	abbrevi TERM	ation	l s, symi FD ON	NOTE: bols a	: Ind description	ns refer to TEST PIT RE	CORDS	
DEPTH (m)	IION (r	LITHOLOGICAL DESCRIPTION	PLOT	EVEL	ġ			REC									WELL CONSTRUCTION DETAILS
DEPI	ELEVATION (m)		STRATA PLOT	WATER LEVEL	RUN NO.	LOST / BROKEN CORE	1	TOTAL		SOLI	5	R.C).D.	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	DETAILS
			S	×		BROKE		CORE %		CORE %	Ξ			2 – E	DISCO		
-35		Poor to excellent quality, slightly weathered to fresh, fine to	-	-	НQ		8	2 6 8		 8 8 9	20	8 8		s € € 8		10 ⁻⁸	
-36		medium grained, massive to foliated texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to			12 HQ			93		84		7		4	0		
-37 -		medium intermitent lenses of ARGILITE (continued)	Ē											4			
-38-			臣				:							-6		7.30x10 ^{.9}	
-39					13 HQ	BC		90		69		5	2	5	o		
-40 -	82.96						÷							: 7: :			
-41		End of Borehole															
-42 -																	
-43 -																	
-44 -											:						
-45																	
-46							:				:						
-47 -																	
-48 -																	
-49 -																	
-50 -																	
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-64 -																	
-65 -											:						
-66 -																	
-67 																	
-68 -																	
-69-																	
_70 [∃]				<u> </u>	L	<u> </u>		<u> </u>		· · ·	: 1		· ·	<u> ; ; ; ;</u>	<u>I;;;;</u>	L : : : :	EE Logged By: Reviewed By:

								RD	B	3H21-	09	PROJE	PAGE <u>1</u> of <u>4</u> CT No. <u>121619250.5500</u>
	PROJE LOCA	TION Middle Musquodobit, NS	uoy .			- -	ELEVA	ATION: _ R LEVEL		2 <u>.001 m</u> 57m 1-2	24-22	DATU	Wash Bore M Geodetic J. / AZ. -60 / 45
		SDRILLED (IIIII-dd-yy)			-					nd descriptions			N. / AZ
DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	PLOT	EVEL	ġ			ND TERMS US	ED ON BORI				WELL CONSTRUCTION DETAILS
DEP	ELEVA		STRATA PLOT	WATER LEVEL	RUN NO.	LOST / BROKEN CORE	TOTAL CORE %	SOLID CORE %	R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	
-0	112.00		-			BRG	8848	8 9 4 0 2 4 0 2 7	8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	5 	12 DIS	-10 ⁸ -10 ⁶ -10 ⁶ CC	
- 1 -		OVERBURDEN	0										
_2 -			0										
- 3 -) O										
- 4 - - 5 -			0									· · · · ·	
			0										
- 7 -	105.40		$\hat{\mathbf{o}}$									· · · · ·	
- 8 -	105.40	Very poor to fair quality, slightly weathered to fresh, fine grained, massive texture, occasional sulphide inclusions, greywacke								15			
_9 - 		laminations and quartz veins, dark grey, ARGILITE - at 7.6 m (0.9 m thick quartz vein noted).			1 HQ	=BC= -BC-	57	33	25	30 >	>		
-10-		- interpreted possible fault/shear zone from 9.0 m to 13.0 m.				BC BC BC				30: >	>		
 12 -					2	=BC=		19	11	20			
-13-					HQ	BC							
-14-						BC=				10			
-15-					3 HQ	DC	.90:	58	.43	10	0	1.40x10 ⁻⁷	
						-BC- BC				6			
-17- 					4	BC							
					4 HQ	-BC-		37	33	10	• • • • • • • •		
-20-				Y									
-21-					5 HQ	=BC=	77	64	57		0		
-22 -										5			
-23 -										.7.			
					но НQ		83	63	57		• • • • • • • • • • • • • • • • • • •	9.70x10 ⁻⁹	
										5			
					7 HQ		85:	.76:	.73	3	0		
-28-	87.22					-BC-				5			
-29-		Very poor to fair quality, fresh, fine to medium grained, foliated texture, light grey to dark grey, interbedded GREYWACKE and				BC BC				10:			
-30 - 	85.07	ARGILITE			8 HQ		63	29	20	10.	0		
-31 - 	00.07	Very poor to poor quality, slightly weathered, fine grained, massive texture, occasional sulphide inclusions, occasional				=BC≡ -BC-				10		4.40x10 ⁻⁸	
		greywacke lmaintations and quartz veins, dark grey, ARGILITE			9 HO	-вс-	73	34	26	15	0		
-34 -						=BC=				10			
-35	 		<u></u>)	1		<u> </u>	<u>·</u> 70···	39	22				· · · · · · · · · · · · · · · · · · ·
													Logged By: Reviewed By:
													-

	Stantec DRILL NT Atlantic Mining NS Inc.						RD	В	8H21-(09	. PROJE	PAGE <u>2</u> of <u>4</u> CT No. <u>121619250.5500</u>
	ECT Geotechnical Investigation - Touque Middle Musquodobit, NS	uoy I	In-P	Pit				113	001		METH	OD Wash Bore
		1-20	5-21				ATION: _ R LEVEL	<u> </u>	<u>2.001 m</u> 57m 1_2	24-22	DATU	Geodetic N. / AZ. -60 / 45
AH	ES DRILLED (mm-dd-yy) 11-16-21 to					WATE	K LE VEL	NOTE:			. INCLIP	N. / AZ
(E					S	Fo MBOLS AN	or abbreviation	ns, symbols a	nd descriptions EHOLE AND T	refer to EST PIT RE	CORDS	WELL
ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	ġ	щ	RECO	OVERY		щ	≥ "	LI≺	CONSTRUCTION DETAILS
LEVA		RATA	TERL	RUN NO.	1 COF	TOTAL	SOLID	R.Q.D.	DEX R 1 m	WITUN WITL	/DRAULIC JDUCTIVI <, m/sec.	020,020
ш		STI	MA .		LOST / BROKEN CORE	CORE %	CORE %	%	FRACT INDE	DISCONTUR DIP w.r.t CORE AX	HYDF CONDU k, n	
						8 8 9 9 8	80 60 20 20	80 60 40 20	5 12 20 20 21	15 30 60 75 75	10 ⁻⁸ 10 ⁻⁶ 10 ⁻⁶ C	
	Very poor to poor quality, slightly weathered, fine grained, massive texture, occasional sulphide inclusions, occasional			-	BC BC				10			
	greywacke lmaintations and quartz veins, dark grey, ARGILITE		1 H	10 IQ		70:	39	22	7	0	4.40x10 ⁻⁸	
	<i>(continued)</i> - at 35.7 m (0.25 m thick quartz vein noted).	(1, 1)							10			
	- broken core noted from 36.0 m to 37.4 m possibly a result of	$\langle \langle \langle \rangle \rangle$		ŀ	BC-				10:			
	nearby underground workings.		1 H	11 IQ		70	41	27	.9	o		
	- broken core noted from 39.6 m to 44.4 m possibly a result of	$\frac{1}{1}$		Ē	BC BC				10			
76.30	nearby underground workings.				BC BC					· · · · · ·		
	- at 41.2 m (0.2 m thick quartz vein noted).			12 1Q	BC		27	- 20			6.10x10 ⁻⁹	
	Poor to fair quality, fresh, fine grained, massive texture, occasional sulphide inclusions, occasional greywacke laminations		Н	^{IQ}	BC BC	00	57	29			: : : : :	
	and quartz veins, dark grey, ARGILITE	111		-	BC BC				: 10: :	<u></u>		
	 at 41.9 m (0.4 m thick quartz vein noted). at 41.9 m (0.1 m thick quartz vein noted).			E	BC BC				10			
			H H	13 IQ	BC	79:	44	40	15	•		
									6			
	- at 47.0 m (0.3 m thick quartz vein noted).								4			
			1	14 IQ		98:	.76:	.69		0		
	- at 48.2 m (0.6 m thick quartz vein noted).			IQ					6			NOTE: PERMEABILITY >10-4
		())		_	_					<u> </u>		FOR THIS INTERVAL. FLOW RATE HIGH (> 50 L/MIN) AND
		());		15					:5:::			THEREFORE COULD NOT
	- at 50.9 m (0.2 m thick quartz vein noted).	() (Н	15 IQ		87	61	44		0		ACHEVIE PRESSURE FOR TESTING IN HOLE.
	- at 50.9 m (0.05 m thick quartz vein noted).	$\left(\left(\right) \right)$							10			TEST INTERVAL IN AREA OF
	- at 52.4 m (0.4 m thick quartz vein noted).				BC				8			UNDERGROUND WORKINGS
	- broken core noted from 53.9 m to 54.6 m possibly a result of		1 H	16 1Q		87	50	37	10	o -		
	nearby underground workings.				BC BC				10: :			
		$\left(\begin{array}{c} 1 \\ 1 \end{array} \right)$		T	.DC_				10			
62.81	Poor quality, fresh, fine grained, massive texture, occasional		1	17 IQ	BC	77:	51	44	6			
	sulphide inclusions, occasional greywacke laminations, dark grey,		H	łQ								
	ARGILITE - at 56.8 m (3.2 m thick quartz vein noted).			-	BC				6	· · · · · ·		
		(())							: :8 : :			
59.52				18 1Q	BC	77:	47: .	40	10.		3.30x10 ⁻⁷	
	Poor to good quality, fresh, fine grained, massive texture, QUARTZ VEIN	<u> </u>]_							5			
		ľ.'							4			
		5/-		19 1Q		95	86	81	4			
									3			
		ľ.										
55.31	Poor to fair quality, fresh, fine grained, massive texture,		,	20		78	50	25				
	occasional sulphide inclusions, occasional greywacke laminations, dark grey, ARGILITE		Ĥ	20 IQ	BC			35		y		
									10:	· · · · · ·	2.30x10 ⁻⁹	
					BC				-8			
		$\left(\begin{array}{c} 1 \\ 1 \\ 1 \end{array} \right)$	Ĥ	21 IQ		89:	.76		7	0		
	<u> </u>		I I								U : : : :	<u> </u>
												Logged By:
												Reviewed By:

		~						RD	В	H21-(09		PAGE <u>3</u> of <u>4</u> CT No. <u>121619250.5500</u>
	PROJE		uoy	In-	PIt		DOSAI ELEVA	TION:		.001 m		METH DATU	M _ Geodetic
		S DRILLED (mm-dd-yy) 11-16-21 to	11-20	6-2	1	-		R LEVEL		57m 1-2		INCLIN	N. / AZ. <u>-60 / 45</u>
(1	(m)					s	F YMBOLS AN	or abbreviation	NOTE: ns, symbols ar ED ON BORE	nd descriptions EHOLE AND T	Frefer to EST PIT REC	CORDS	WELL
DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	LOST / BROKEN CORE	RECO TOTAL CORE %	SOLID CORE %	R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	CONSTRUCTION DETAILS
-70		Poor to fair quality, fresh, fine grained, massive texture,			21 HQ		8 8 9 8	8 9 9 8	8 9 9 0 : 70	∞ <u>₽ ₽ 8</u> 	15 30 45 75		
-71 -72 -72 -73		 accessional sulphide inclusions, occasional greywacke laminations, dark grey, ARGILITE (continued) at 70.0 m (0.6 m thick quartz vein noted). 				=BC=		65	58		0	2.30x10 ⁻⁹	
74 75 					HQ	=BC= =BC=	75	57:	.49		0		
-77 -78 -78 -79 -79				-		=BC=	91.	60:	.53	12: 7 6		6.00x10 ⁻⁹	
					25 HQ	BC BC BC BC	93	777	71		0		
		 broken core noted from 82.9 m to 83.1 m possibly a result of nearby underground workings. 			26 HQ	=BC=	76	62	.54	10. 55 66	0		
	35.76	√- at 87.8 m (0.2 m thick quartz vein noted). Very poor to fair quality, slightly weathered to fresh, fine to			27 HQ	=BC= =BC=	80:	68	56	10		3.50x10 ⁻⁹	
		medium grained, foliated texture, light grey to dark grey, interbedded GREYWACKE and ARGILITE			нQ	=BC= _BC_	96:	:69:	.57	6	0		
-92 93 93 94 94					29 HQ	BC	56:	49:	-46	10 13	0		
-95 - 96 - 97					30 HQ		77	67	65	.6 5 5	Ō	8.10x10 ⁻⁹	
-98 -99 -99 - 100					31 HQ		95	66	31	10: 12:	Q		
-101 - 102 - 103 - 103					32 HQ	BC	93.	53.	35	5 10: 10:	p	2.70x10 ⁻⁹	
-104		EW.GLB (C) STANTEC BEDROCK LOG 7 3/9/22 6:33:59 PM			33 HQ	BC	78:	15	5	15			Logged By: Reviewed By:

		T Atlantic Mining NS Inc.				ECO	RD	B	BH21-	09	PROJE	PAGE <u>4</u> of <u>4</u> CT No. <u>121619250.5500</u>
	PROJE		uquoy	In-Pi	t Dis		TION:	112	2.001 m		METHO DATUN	DD Wash Bore Geodetic
		S DRILLED (mm-dd-yy) 11-16-21 to	11-2	6-21	_	WATE	R LEVEL		<u>57m 1-</u>		INCLIN	N. / AZ. <u>-60 / 45</u>
0	(L)				s	F YMBOLS AN	or abbreviation	NOTE: ns, symbols a ED ON BORI	: ind description: EHOLE AND 1	s refer to TEST PIT RE	CORDS	WELL
DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL RUN NO.	LOST / BROKEN CORE	RECO TOTAL CORE %	SOLID CORE % 8 8 9 8	R.Q.D. %	5 10 1NDEX 15 PER 1 m	15 30 DISCONTUNITY 45 DIP w.r.t. 60 CORE AXIS 75	0 ^{0*} HYDRAULIC 0 ^{6*} CONDUCTIVITY 0 ⁵ k, m/sec.	CONSTRUCTION DETAILS
-105 		Very poor to fair quality, slightly weathered to fresh, fine to medium grained, foliated texture, light grey to dark grey,		33 HQ	=BC=	1 1 1 1	15	5	15 15	0		
-107-		interbedded GREYWACKE and ARGILITE (continued)							10:		2.70x10 ⁻⁹	
				34 HQ		98:	:74:	:66	3	0	2.70410	
- 110- - 1 - 111- - 1				35 HQ	-=BC=	83	65	54	10	0		
-112- -113-									10			
-114- -115-				36 HQ		83	63	53		0	1.00x10 ⁻⁸	
-116- -117-			臣			95	45	30	15 10	Q		
-118- 									10:			
 -120-	7.39			38 HQ		99	77	67	3	o.		
-121- 		End of Borehole										
-123 												
-125-												
-126 												
128												
-129- 												
-131- 												
-131 -132 -133 -133												
-134 -135- 												
- 136-												
-137 												
-140												Logged By: Reviewed By:

		~						RD	В	H21-	10	PROJE	PAGE <u>1</u> of <u>2</u> CT No. <u>121619250.5500</u> DD <u>Wash Bore</u>
]	PROJE LOCAT	TION Middle Musquodobit, NS)-28-		<u> </u>	<u>DIS</u>	ELEVA	TION: _).311 m 1-2	24-22	DATUN	M <u>Geodetic</u> ./AZ. <u>-60 / 360</u>
		S DRILLED (IIIII-ud-yy)				- s				nd descriptions EHOLE AND T			WELL
DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	LOST / BROKEN CORE		SOLID CORE %	R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	CONSTRUCTION DETAILS
-0	110.31	OVERBURDEN		Ţ		BF	20 0 0 0		80 60 60 70 80	20 20 20 20	15 15 15 15 15 15	10 ⁻⁸	
-1 -2 -3 -4	107.78	Very poor to excellent quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to			1 HQ	BC -BC-	100	66.	.56	15	O,		
- 5 -		medium intermitent lenses of ARGILITE			2 HQ	-BC-	93	70	42	16 10:	ø		
- 8 - 9 -10					3 HQ	BC BC	90:	53	40	17 17 20	Q	3.20x10 ⁻⁸	
-11 -12 -13					4 HQ	BC	98:	.79:	62	.6 .5	, o		
-14 -15 -16					5 HQ	be	97		77	25 20 15	•		
-17 -18 -19 -20		- interpreted possible fault/shear zone from 18.9 m to 19.2 m.		1	6 HQ	BC BC	92	83	75	2 2 5	0	1.10x10 ⁸	
-21					7 HQ	=BC= =BC=	98	. 88	.83	5 	¢.		
-23					8 HQ	=BC=	100	100	100	2 4 5 5	.0.		
-26 -27 -28					9 HQ	=BC= =BC=	92.		85	2 :0 :5 :5	.0	8.10x10 ^{.9}	
-29 - -30 - -31 -					10 HQ	BC	87	67	43	20 25	•		
-32 -33 -34					11 HQ 12	=BC=	98:	90			0	1.80x10 ⁸	
-35 =		EW.GLB (C) STANTEC BEDROCK LOG 7 3/9/22 6:34:03 PM		• 1			u				;;;;		E Logged By: Reviewed By:

	CLIEN	~						DR	RD	В	3H21-	10	PROJE	PAGE <u>2</u> of <u>2</u> CT No. <u>121619250.5500</u> DD <u>Wash Bore</u>
	LOCA	Middle Musquodobit, NS)-28	21		_	ELEV).311 m	24.22	DATUN	A Geodetic
	DATES	S DRILLED (mm-dd-yy) 9-27-21 to 9	-28·	-21		-			LEVEL			24-22		I. / AZ60 / 360
(L	(m) N		1	щ						s, symbols a ED ON BORI	: nd description EHOLE AND			WELL CONSTRUCTION
DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	LOST / BROKEN CORE	TOTAL CORE %		SOLID CORE %	R.Q.D. %	5 10 15 15 20 20 20 20 20 20 20 20 20 20 20 20 20	15 30 DISCONTUNITY 45 DIP w.r.t. 60 CORE AXIS 75	0 ⁰ MYDRAULIC 0 ⁶ 0 ⁶ CONDUCTIVITY 0 ⁶ k, m/sec.	DETAILS
-35 -36 -37		Very poor to excellent quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermitent lenses of ARGILITE (continued)			HQ 12 HQ	-BC-	93				· · · · · · · · · · · · · · · · · · ·	0		
-38 - -39 - -40 -					13 HQ	=BC=	92	•	77	73	0 7 10:	0	1.80x10 ⁻⁸	
-41 -42 -43					14 HQ	=BC=	87.	· · · · · · · · · · · · · · · · · · ·	.79	77	.4 .3 .5	0		
-44 - -45 - -46 -					15 HQ	-BC- -BC-	75	•	36	22	25 20 15	o	1.70x10 ⁻⁸	
-47 - -48 - -49 -					16 HQ	-BC-	97	•	-94	93	2 4 :6	Ó		
-50 -51 -52					17 HQ	=BC= _BC	97		80	73	.5 .8 .6	0		
-53 -54 -55						=BC= =BC= _BC	90:	•	.77:	63	9 3 6	0	4.00x10 ⁸	
-56 -57 -					19 HQ	_BC_	98	· · · · · · · · · · · · · · · · · · ·	85	80	.5 .8 .9	0	4.00x10	
-59 -	57.43				20 HQ		100		73	60	.9	Q		
-61 -62 -63 -64		End of Borehole												
-65 -66 -67 -68								· · · · · · · · · · · · · · · · · · ·						
-69 -70								•						Logged By:
														Reviewed By:

LIEN							RD		3H21-	-11	PROJE	PAGE <u>1</u> of <u>2</u> CT No. <u>121619250.5500</u> Wash Bore
ROJE OCA	TION Middle Musquodobit, NS					ELEVA	TION:		9.072 m		DATUN	MGeodetic
ATE	S DRILLED (mm-dd-yy) 10-10-21 to 1	0-12	2-21			WATE	R LEVEI	0n		24-22	INCLIN	N. / AZ60 / 45
(LL)		<u>+</u>			S	YMBOLS AN	or abbreviatio	ns, symbols	and descriptior REHOLE AND	ns refer to TEST PIT RE	CORDS	WELL
ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	BROKEN CORE	TOTAL CORE %	SOLID CORE %	R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP w.r.t. CORE AXIS	HYDRAULIC CONDUCTIVITY k, m/sec.	CONSTRUCTION DETAILS
19.07	OVERBURDEN		T		8	8 8 9 9 8			2015 0			
		o D										
		0										
		P										
		0										
14.32	Very poor to poor quality, slightly weathered to fresh, fine to			-	вс=				25			
	medium grained, massive to foliated texture, medium grey to dark grey, occasional quartz/pyrite veins, ARGILITE with very thin to	$\left(\begin{array}{c} 1 \\ 1 \\ 1 \end{array} \right)$	E			63	0	0	25	0.		
	medium intermitent laminations of GREYWACKE			Г	BC				25			
	- drilling sub-parallel to foliation/bedding.	$\left(\left(\right) \right) \right) \left(\left(\right) \right)$	H		BC= BC=	70.	10	6	25	0		
					BC-				25			
					BC BC				20			
		(1,1,1)	H	$\frac{3}{10}$	BC- BC-	78	4	<u>0</u>	25	0	8.50x10 ⁻⁸	
	- at 13.2 m clay seam noted (50 mm).			_	BC				25			
	- at 15.2 in easy scalin noted (50 min).	$\left(\right) \left(\left(\right) \left(\right) \left(\left(\right) \left(\right) \left(\right) \left(\left(\right) \left(\left(\right) \left(\right) \left(\left(\right) \left(\left(\right$		E	BC				25			
			H	- OF	BC= BC-	80		33	5	0		
					BC=							
					вс-	47	31	23	15			
				4Q					25			
									5			
			H	6 IQ		90:	60.	.45	4	.o.	4.00x10 ⁻⁸	
									10		4.00x10.	
									17			
		()) ()	H	ío	BC= BC=	100	61	45	20	0		
					BC-				15			
				, ⊨	вс=				15			
			F	8 IQ		96	54	47	10	0		
			+	=	BC=							
				9 IQ		96	62	46	18	0		
									6		1.90x10 ⁻⁸	
				+					9			
				10 1Q		97	51	43	13	o		
		(1,1,1)			BC-				7			
	1			11		93	57	-48				¥ 1
												Logged By: Reviewed By:

]	Stantec DRILLHOLE RECORD BH21-11 CLIENT Atlantic Mining NS Inc. PROJECT Geotechnical Investigation - Touquoy In-Pit Disposal LOCATION Middle Musquodobit, NS									METHC DATUM	PAGE <u>2</u> of <u>2</u> CT No. <u>121619250.5500</u> D <u>Wash Bore</u> <u>1</u> Geodetic		
DATES DRILLED (mm-dd-yy) 10-10-21 to 10-12-2						_	WATEI	R LEVEL				INCLIN	. / AZ60 / 45
(m	(LL) N					s	Fo YMBOLS AN	or abbreviation D TERMS US	IS, symbols an ED ON BORE	nd descriptions I EHOLE AND TE	refer to ST PIT REC	CORDS	WELL
DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.	LOST / BROKEN CORE	TOTAL CORE %	SOLID CORE %	R.Q.D. %	FRACTURE INDEX PER 1 m	DISCONTUNITY DIP wr.t. CORE AXIS	10 ⁶⁸ HYDRAULIC 10 ⁶⁶ CONDUCTIVITY 10 ⁵⁶ k, m/sec.	CONSTRUCTION DETAILS
-35 -36 -37		Very poor to poor quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, medium grey to dark grey, occasional quartz/pyrite veins, ARGILITE with very thin to medium intermitent laminations of GREYWACKE				-BC- -BC= =BC=	8 8 9 8 	<u>8 6 9 8 8</u> 57:	280 240 240 240 240 240 240 240 240 240 24		0.000		
-38 39 40 40		- drilling sub-parallel to foliation/bedding. (continued)				=BC= [BC]	95	59:	.50	6 .4 .6	0	4.40x10 ^{.9}	
-41 -42 -42 -43	81.46				13 HQ	=BC=	99:	49:	.45	10. C	λ		
-44 45 46 46		Poor to fair quality, slightly weathered to fresh, fine grained, massive texture, dark grey, occasional quartz/pyrite veins, ARGILITE			14 HQ		97	57	50	11:	0		
-47 -48 -49 -49					15 HQ	=BC=	97	.70:	60	12 9 12	0 D		
-50 -51 -52					16 HQ	=BC=	98:	50:	36	13 14: 14:	0	5.00x10 ⁻⁹	
-53 -54 -55					17 HQ	-BC-	98.	61.	50	9 13 8	0		
-56 57 58					18 HQ	=BC=	88	74	70	6 3 3	o	3.00x10 ⁻⁹	
-59 60 61 61	65.91				19 HQ	=BC=	92	59	47	12:			
-62 -63 -64 -64 -65		End of Borehole											
66 67 67 68 68 69 69 70													
-70													Logged By: Reviewed By:

PROJECT	Y
Integration Integration Integration Integration Image: Construction Image: Construction Image: Construction Image: Constructio	×
LITHOLOGICAL DESCRIPTION LITHOLOGICAL DESCR	N
0 110.13 0 110.13	
0 110.13 0 110.13	
	E
4 4 5 105.07 GREYWACKE with very thin to medium intermitent laminations of the lamination o	
Fair quality, fresh, fine grained, massive to foliated texture, occasionally laminated to medium bands of quartz and shale, dark $\begin{bmatrix} 2 \\ HQ \end{bmatrix}$ $\begin{bmatrix} BC \\ 100 \\ 80 \end{bmatrix}$ $\begin{bmatrix} 2 \\ HQ \end{bmatrix}$ $\begin{bmatrix} 100 \\ 80 \end{bmatrix}$ $\begin{bmatrix} 80 \\ 75 \end{bmatrix}$ $\begin{bmatrix} 2 \\ 8 \end{bmatrix}$	
Poor to good quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey,	
occasional quartz veins, GREYWACKE with very thin to medium intermitent laminations of ARGILITE/SHALE $\begin{array}{c}3\\HQ\\=BC=\end{array}$	
$\overset{13}{=}$	
$ \begin{array}{c} \bullet \\ \bullet $	
$ \begin{array}{c} 1 \\ 19 \\ 19 \\ 19 \\ 19 \\ 19 \\ 19 \\ 19 \\$	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
=BC=	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$=BC=\begin{bmatrix} & & & & & & & & & & & & & & & & & & &$	
30- 10 HQ 93 77 67 77 67 77 67 77 67 77 67 77 67 77 10 10 10 10 10 10 10 10 10 10	
$ \begin{array}{c} 33 \\ 33 \\ 34 \\ 34 \end{array} $	
$ \begin{bmatrix} 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1$	
Logged By Reviewed By	

	S CLIEN PROJE	CT Geotechnical Investigation - Touq								RD			3H21-		METHOI	PAGE <u>2</u> of <u>2</u> T No. <u>121619250.5500</u> Wash Bore
	OCA		ELEVATION: 110.133 m 10-24-21 WATER LEVEL 1.86m 1-24-22				DATUM	Geodetic / AZ90 / N/A								
	JAIL	TES DRILLED (mm-dd-yy) 10-22-21 to 10-24-21 WATER LEVEL 1.86m 1-24-22 INCLI NOTE: For abbreviations, symbols and descriptions refer to SYMBOLS AND TERMS USED ON BOREHOLE AND TEST PIT RECORDS								/ AL						
DEPTH (m)	ELEVATION (m)	LITHOLOGICAL DESCRIPTION	STRATA PLOT	WATER LEVEL	RUN NO.					VERY		R.Q.D.				WELL CONSTRUCTION DETAILS
	ELE		-		RI	LOST / BROKEN CORE	0	OTA CORE %	=	SOLID CORE %		8 9 8 8 %	5 10 15 15 16 10 10 10 10 20 20 20	15 30 DISCONTUNITY 45 DIP w.r.t. 60 CORE AXIS 75	0 ³ HYDRAULIC 0 ⁶ CONDUCTIVITY 10 ⁶ k, m/sec.	
-35 -36 -37 -37		Poor to good quality, slightly weathered to fresh, fine to medium grained, massive to foliated texture, light grey to dark grey, occasional quartz veins, GREYWACKE with very thin to medium intermitent laminations of ARGILITE/SHALE (continued)			12 HQ			100				83	.5. .4. .3.			
-38 -39 -40 -40	69.09				13 HQ			91	•	:67		52	6 7 4	0	5.50x10	
-41 42 - 42 43		End of Borehole														
-44 -44 -45																
-46 																
-48 49 							· · · · · · · · · · · · · · · · · · ·									
-50 51 51																
-52 53 53 54																
-57 - -58																
-59 																
-61 62 63									· · · · · · · · · · · · · · · · · · ·							
-64									· · · · · · · · · · · · · · · · · · ·							
-66																
-54 appropriate the second									· · · · · · · · · · · · · · · · · · ·							
-70 =						<u> </u>	L :		:1	_::::	;		1::::	1;;;;;	<u></u>	E Logged By: Reviewed By:

FACTUAL DATA REPORT. HYDROGEOLOGICAL SITE INVESTIGATION, TOUQUOY IN-PIT TAILINGS DISPOSAL

C.3 BEDROCK CORE PHOTOGRAPHIC LOGS





Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 1	
Borehole ID: BH21-01	
Depth from (m): 4.00	
Depth to (m): 11.88	
Core Runs: 1-3	
Core Photograph Condition: Dry	
Comments:	





Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 3	
Borehole ID: BH21-01	
Depth from (m): 11.88	LSUX No.
Depth to (m): 19.98	Riter Wa
Core Runs: 3-6	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 4	
Borehole ID: BH21-01	
Depth from (m): 11.88	BOXNE
Depth to (m): 19.98	
Core Runs: 3-6	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 5	
Borehole ID: BH21-01	
Depth from (m): 19.98	BOX Not the
Depth to (m): 28.37	
Core Runs: 6-8	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 6	
Borehole ID: BH21-01	
Depth from (m): 19.98	BOXN
Depth to (m): 28.37	
Core Runs: 6-8	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

-
BOX N-2
_

Photograph ID: 8	
Borehole ID: BH21-01	
Depth from (m): 28.37	BOX Noted
Depth to (m): 36.79	
Core Runs: 8-11	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 9	
Borehole ID: BH21-01	
Depth from (m): 36.79	
Depth to (m): 44.52	
Core Runs: 11-13	
Core Photograph Condition: Dry	
Comments:	





Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 11	
Borehole ID: BH21-01	
Depth from (m): 44.52	
Depth to (m): 48.57	BOXNE
Core Runs: 13-15	46.8
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 12	
Borehole ID: BH21-01	
Depth from (m): 44.52	BOX No
Depth to (m): 48.57	Чбд
Core Runs: 13-15	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Borehole ID:	
BH21-01	
Depth from (m): 48.57	
Depth to (m): 56.65	
Core Runs: 15-18	
Core Photograph Condition: Dry	
Comments:	





Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 15	
Borehole ID: BH21-01	
Depth from (m): 56.65	BOX N. PP
Depth to (m): 61.00	
Core Runs: 18-20	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 16	
Borehole ID: BH21-01	
Depth from (m): 56.65	
Depth to (m): 61.00	No Picture
Core Runs: 18-20	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 17	
Borehole ID: BH21-02	
Depth from (m): 5.65	
Depth to (m): 13.63	
Core Runs: 1-3	
Core Photograph Condition: Dry	
Comments:	
Comments:	

Photograph ID: 18	
Borehole ID: BH21-02	
Depth from (m): 5.65	
Depth to (m): 13.63	257
Core Runs: 1-3	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 19	
Borehole ID: BH21-02	
Depth from (m): 13.63	BOX N.
Depth to (m): 25.54	
Core Runs: 3-6	
Core Photograph Condition: Dry	
Comments:	

-



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

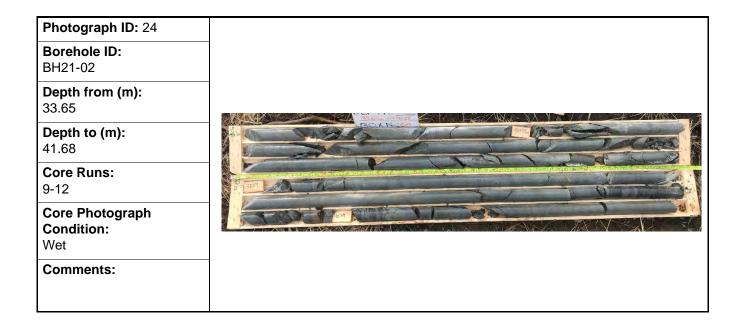
Borehole ID: BH21-02 Depth from (m):	
Depth from (m):	
25.59	
Depth to (m): 33.65	
Core Runs: 6-9	
Core Photograph Condition: Dry	IN-P IT TALLING DISPOSAL
Comments:	





Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 23	
Borehole ID: BH21-02	
Depth from (m): 33.65	
Depth to (m): 41.68	
Core Runs: 9-12	
Core Photograph Condition: Dry	
Comments:	





Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 25	
Borehole ID: BH21-02	
Depth from (m): 41.68	BOX Nictionity
Depth to (m): 52.95	
Core Runs: 12-16	
Core Photograph Condition: Dry	
Comments:	and the second state of th

Photograph ID: 26	
Borehole ID: BH21-02	
Depth from (m): 41.68	
Depth to (m): 52.95	
Core Runs: 12-16	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

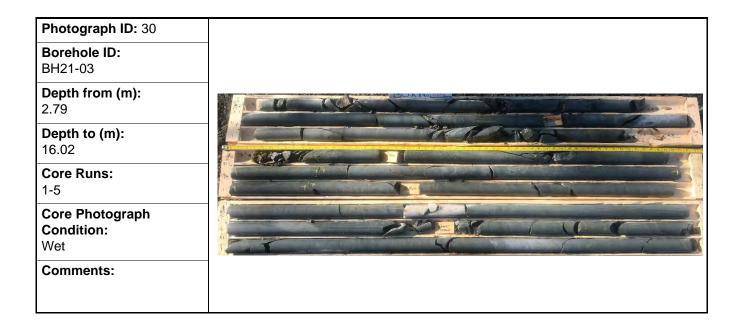
Photograph ID: 27	
Borehole ID: BH21-02	
Depth from (m): 52.95	BCKN
Depth to (m): 61.59	
Core Runs: 16-18	
Core Photograph Condition: Dry	
Comments:	





Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 29	
Borehole ID: BH21-03	
Depth from (m): 2.79	
Depth to (m): 16.02	
Core Runs: 1-5	
Core Photograph Condition: Dry	
Comments:	





Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 31	
Borehole ID: BH21-03	
Depth from (m): 16.02	BOX Notice
Depth to (m): 28.81	
Core Runs: 5-9	
Core Photograph Condition: Dry	1105m
Comments:	





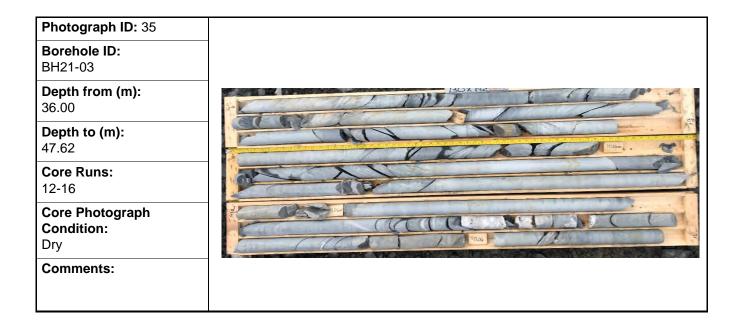
Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

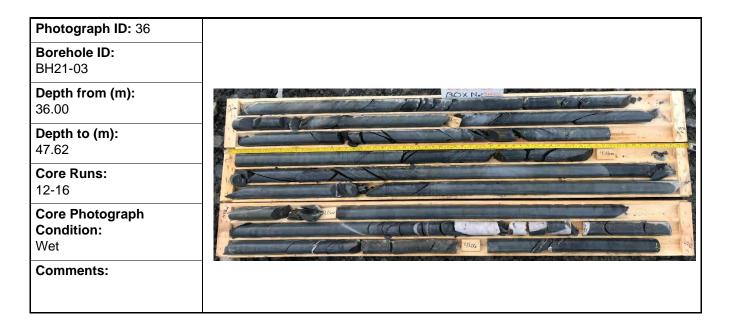
Photograph ID: 33	
Borehole ID: BH21-03	
Depth from (m): 28.81	
Depth to (m): 36.00	
Core Runs: 9-12	
Core Photograph Condition: Dry	
Comments:	
Comments:	

Photograph ID: 34	
Borehole ID: BH21-03	
Depth from (m): 28.81	
Depth to (m): 36.00	
Core Runs: 9-12	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

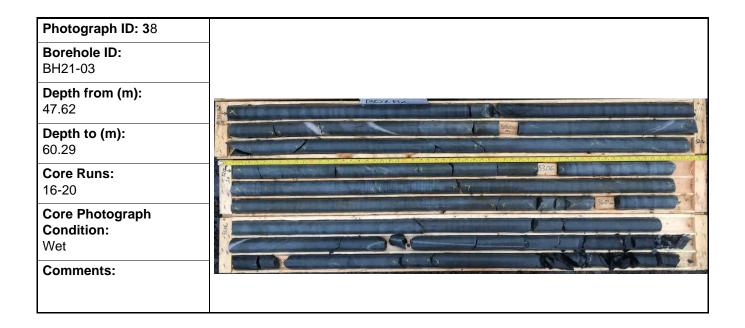






Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 37	
Borehole ID: BH21-03	
Depth from (m): 47.62	BOX N. PILT
Depth to (m): 60.29	
Core Runs: 16-20	
Core Photograph Condition: Dry	
Comments:	





Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 39	
Borehole ID: BH21-03	
Depth from (m): 60.29	BOX Noteman
Depth to (m): 72.38	
Core Runs: 20-24	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 40	
Borehole ID: BH21-03	
Depth from (m): 60.29	
Depth to (m): 72.38	
Core Runs: 20-24	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 41	
Borehole ID: BH21-03	
Depth from (m): 72.38	
Depth to (m): 85.00	
Core Runs: 24-28	
Core Photograph Condition: Dry	83.00m
Comments:	





Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 43	
Borehole ID: BH21-03	
Depth from (m): 85.00	
Depth to (m): 93.37	97.64 B
Core Runs: 28-31	
Core Photograph Condition: Dry	
Comments:	





Client: Atlantic Mining NS Inc. Project	In-Pit Tailings Disposal Invest.
Site Name: Touquoy Gold Project Site Lo	cation: Middle Musquodobit, NS

Photograph ID: 45	
Borehole ID: BH21-03	
Depth from (m): 93.37	BOX N.
Depth to (m): 105.80	
Core Runs: 31-35	
Core Photograph Condition: Dry	
Comments:	





Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 47	
Borehole ID: BH21-03	
Depth from (m): 105.80	BOX Notes
Depth to (m): 118.15	
Core Runs: 35-39	
Core Photograph Condition: Dry	Julice Control of the second sec
Comments:	

Photograph ID: 48	
Borehole ID: BH21-03	
Depth from (m): 105.80	BOX N
Depth to (m): 118.15	
Core Runs: 35-39	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 49	
Borehole ID: BH21-03	
Depth from (m): 118.15	Cold Diamana and Diaman
Depth to (m): 120.15	
Core Runs: 39-40	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 50	
Borehole ID: BH21-03	
Depth from (m): 118.15	
Depth to (m): 120.15	
Core Runs: 39-40	an a
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 51	
Borehole ID: BH21-04	
Depth from (m): 3.30	SEPT 30 / 2021
Depth to (m): 11.90	
Core Runs: 1-4	
Core Photograph Condition: Dry	1/4 (9/5/7)
Comments:	

Photograph ID: 52 Borehole ID: BH21-04	
Depth from (m): 3.30	
Depth to (m): 11.90	No Disture
Core Runs: 1-4	No Picture
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 53	
Borehole ID: BH21-04	
Depth from (m): 11.90	
Depth to (m): 17.40	НА
Core Runs: 4-5	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 54	
Borehole ID: BH21-04	
Depth from (m): 11.90	
Depth to (m): 17.40	
Core Runs: 4-5	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 55	
Borehole ID: BH21-04	
Depth from (m): 17.40	
Depth to (m): 21.50	
Core Runs: 6-7	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 56	
Borehole ID: BH21-04	
Depth from (m): 17.40	
Depth to (m): 21.50	Taplar
Core Runs: 6-7	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Borehole ID:	
BH21-04	
Depth from (m): 21.50	BOX No.
Depth to (m): 27.10	
Core Runs: 7-9	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 58	
Borehole ID: BH21-04	
Depth from (m): 21.50	LSUX No.5_
Depth to (m): 27.10	
Core Runs: 7-9	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 59	
Borehole ID: BH21-04	
Depth from (m): 27.10	
Depth to (m): 36.30	
Core Runs: 9-12	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 60	
Borehole ID: BH21-04	
Depth from (m): 27.10	DOX Must
Depth to (m): 36.30	
Core Runs: 9-12	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

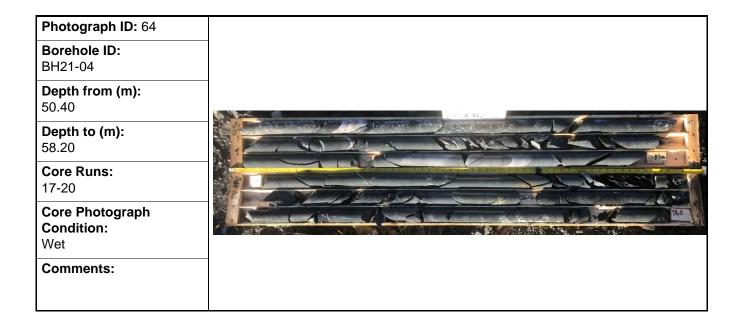
Photograph ID: 61	
Borehole ID: BH21-04	
Depth from (m): 36.30	BOX No course of the second seco
Depth to (m): 50.40	
Core Runs: 12-17	4457 4457
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 62	
Borehole ID: BH21-04	
Depth from (m): 36.30	BOX No detail
Depth to (m): 50.40	
Core Runs: 12-17	91.9 (1.5)
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 63	
Borehole ID: BH21-04	
Depth from (m): 50.40	
Depth to (m): 58.20	
Core Runs: 17-20	
Core Photograph Condition: Dry	
Comments:	





Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Borehole ID: BH21-04	
Depth from (m): 58.20	
Depth to (m): 60.40	
Core Runs: 20-21	Con-
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 66	
Borehole ID: BH21-04	
Depth from (m): 58.20	
Depth to (m): 60.40	
Core Runs: 20-21	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Borehole ID: BH21-05 Depth from (m): 5.72 Depth to (m): 15.10 Core Runs: 10	
5.72 Depth to (m): 15.10 Core Runs:	
15.10 Core Runs:	A Stall a
1-3	
Core Photograph Condition: Dry	And
Comments:	1 med

Photograph ID: 68	
Borehole ID: BH21-05	
Depth from (m): 5.72	
Depth to (m): 15.10	
Core Runs: 1-3	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

BOX No.
BOX Not
Las All

Photograph ID: 70	
Borehole ID: BH21-05	
Depth from (m): 15.10	
Depth to (m): 22.10	
Core Runs: 3-6	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 71	
Borehole ID: BH21-05	
Depth from (m): 22.10	
Depth to (m): 25.43	
Core Runs: 6-7	BH21-05 BHV 17
Core Photograph Condition: Dry	
Comments:	

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Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 73	
Borehole ID: BH21-05	
Depth from (m): 25.43	BOXING COXING
Depth to (m): 32.11	
Core Runs: 8-10	
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 74	
Borehole ID: BH21-05	
Depth from (m): 25.43	
Depth to (m): 32.11	
Core Runs: 8-10	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 75	
Borehole ID: BH21-05	
Depth from (m): 32.11	BOX Notes
Depth to (m): 42.32	
Core Runs: 10-13	
Core Photograph Condition: Dry	
Comments:	





Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

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BOX Neture
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Photograph ID: 78	
Borehole ID: BH21-05	
Depth from (m): 42.32	BOX NELLER
Depth to (m): 48.80	
Core Runs: 13-15	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 79	
Borehole ID: BH21-05	
Depth from (m): 48.80	BOX NELL
Depth to (m): 59.73	
Core Runs: 15-19	
Core Photograph Condition: Dry	
Comments:	





Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 81	
Borehole ID: BH21-06	
Depth from (m): 5.05	
Depth to (m): 14.05	BUESN BUESN
Core Runs: 1-3	
Core Photograph Condition: Dry	
Comments:	
Dry	





Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 83	
Borehole ID: BH21-06	
Depth from (m): 14.05	1.62m
Depth to (m): 25.66	Box 3-4-5
Core Runs: 4-7	
Core Photograph Condition: Dry	
Comments:	250

Photograph ID: 84	
Borehole ID: BH21-06	
Depth from (m): 14.05	52m 3.4.5
Depth to (m): 25.66	
Core Runs: 4-7	
Core Photograph Condition: Wet	264
Comments:	25



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Borehole ID: BH21-06	
Depth from (m): 25.66	PLOS No. 1
Depth to (m): 33.68	
Core Runs: 7-10	
Core Photograph Condition: Dry	
Comments:	





Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 87	
Borehole ID: BH21-06	
Depth from (m): 33.68	
Depth to (m): 41.45	30-4
Core Runs: 10-13	Alton Hus
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 88	
Borehole ID: BH21-06	
Depth from (m): 33.68	BOX Notestand
Depth to (m): 41.45	3500
Core Runs: 10-13	3804
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 89	
Borehole ID: BH21-06	
Depth from (m): 41.45	
Depth to (m): 49.10	
Core Runs: 13-15	Barris Borris Bo
Core Photograph Condition: Dry	
Comments:	

Photograph ID: 90	
Borehole ID: BH21-06	
Depth from (m): 41.45	
Depth to (m): 49.10	
Core Runs: 13-15	
Core Photograph Condition: Wet	
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 91	
Borehole ID: BH21-06	
Depth from (m): 49.10	POX N.
Depth to (m): 60.05	
Core Runs: 15-17	
Core Photograph Condition: Dry	
Comments:	CO.SA EOR

Photograph ID: 92	
Borehole ID: BH21-06	
Depth from (m): 49.10	
Depth to (m): 60.05	
Core Runs: 15-17	
Core Photograph Condition: Wet	57.05. (405%) (206%)
Comments:	IN-PIT (



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 93	
Borehole ID: BH21-07	
Depth from (m): 7.80	
Depth to (m): 19.00	
Core Runs: 1-4	
Core Photograph Condition: Dry	19.0m E al 2
Comments:	

Photograph ID: 94	
Borehole ID: BH21-07	
Depth from (m): 7.80	
Depth to (m): 19.00	121619250 140M TO19 TOLQUOY MINE
Core Runs: 1-4	12/6/19250 14/04 TO 18 TOUGUOY MINE BH 21-07 IN-PIT THILING BOX 2 DISPOSAL
Core Photograph Condition: Wet	Dilas.
Comments:	



Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Photograph ID: 95	
Borehole ID: BH21-07	
Depth from (m): 19.00	
Depth to (m): 34.80	72.8. 22.8. 22.8.
Core Runs: 4-9	25.8
Core Photograph Condition: Dry	288- 288- 318-
Comments:	371.8,4





Client:	Atlantic Mining NS Inc.	Project:	In-Pit Tailings Disposal Invest.
Site Name:	Touquoy Gold Project	Site Location:	Middle Musquodobit, NS

Borehole ID: BH21-07	
Douth from (m):	
Depth from (m): 34.80	
Depth to (m): 40.80	372. 1216 19 252, 134: (-07-) (0x -
Core Runs: 9-11	
Core Photograph Condition: Dry	on Let 9m Echt
Comments:	

