

TUNNEL: 1BN
CHAINAGE: 5+304

MACHINE: 1
RING: 3594

DATE: 8-2-19
HOUR: 09:30

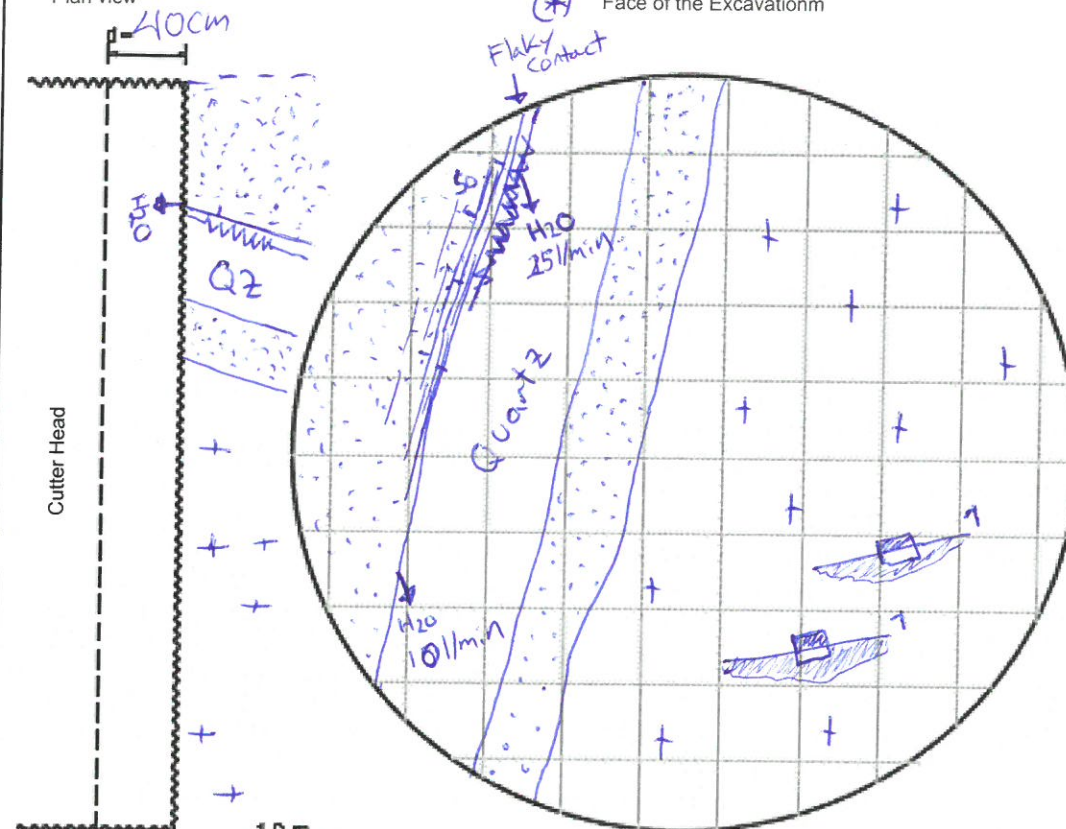
REF. N°:
297

Mapping performed:

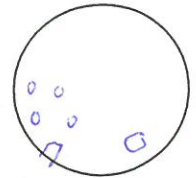
☒ Yes

☐ No

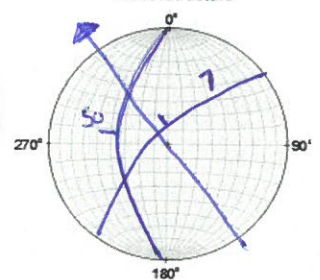
Plan view



Schematic position of the cutter head while mapping



Schematic Rock Mass Structure



Light Gneiss	Dark Gneiss	Foliation	Joint Set (Strike Slip)	Weakness zone < 1m
Pegmatite	Amphibolite	Joint Set (sub. Vertical)	Geological Contact	Water
		Joint Set (Sub Horizontal)	Geological Contact (diffuse)	Weakness zone > 1m (thickness)

DISCONTINUITIES

Fracture set	<u>1</u>	<u>50</u>			
Strike (α_s)	<u>NESW</u>	<u>N-S</u>			
Dip (α_f)	<u>~80°N</u>	<u>~90°W</u>			
Spacing (cm)	<u>—</u>	<u>—</u>			
Length (m)	<u>1-3</u>	<u>3-10</u>			
Aperture (mm)	<u><0.1</u>	<u>1-5</u>			
Roughness	<u>VII</u>	<u>VI</u>			
Infilling	<u>N</u>	<u>N</u>			
Weathering	<u>N</u>				

FACE CHARACTERISTICS

Quartz	Veins <input type="checkbox"/>	Masses <input checked="" type="checkbox"/>
Garnets	Low <input type="checkbox"/>	High <input checked="" type="checkbox"/>
Water	Dry <input type="checkbox"/>	Moist <input type="checkbox"/>
	Dripping <input type="checkbox"/>	Flowing <input checked="" type="checkbox"/>
	Quantity:	<u>~30-40l/min</u>
Fracturing	RQD:	<u>90</u>
Overbreak	Depth (cm):	<u>1-5</u>
	Amount (%):	<u>1-5</u>
Mixed face	Yes <input checked="" type="checkbox"/>	No <input checked="" type="checkbox"/>

NOTES

LG w/ dykes of AMP, Quartz between two AMP dykes on left side. Contact between Quartz and AMP is very flaky (and a more flaky on upper part). Clay filling in contact on upper part. water flowing from contact. ~~client does n~~ Strange material/joint filling (*) suspected to be palygorskite.

AMP = Amphibolite, DG = Dark gneiss, LG = Light gneiss, PG = Pegmatite, OB = Overbreak, WZ = Weak zone, LS/RS = Left/Right side

AGJV Geologist

Date	Name	Signature
<u>8/2-18</u>	<u>KVS</u>	<u>KVS</u>

Bane NOR Geologist

Date	Name	Signature
<u>8/2-18</u>	<u>—</u>	<u>BJ</u>

TUNNEL: INBOUND
CHAINAGE: 05+304
DIRECTION: NORTH

MACHINE: TBM 1
RING: 3594

DATE: 08/02/2018
HOUR: 09:30

REF. N°:
TBM1_20180208_05304_297

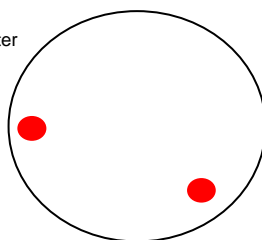
LEFT SIDE



RIGHT SIDE



Schematic position of the cutter head while mapping



UPPER PART



FACE



AGJV Geologist

Date	Name	Signature
08/02/2018	KVS	

Bane NOR Geologist

Date	Name	Signature