

TUNNEL: <u>INB. NORTH</u>	MACHINE: <u>TBM1</u>	DATE: <u>24/6-17</u>	REF. N°: <u>155</u>
CHAINAGE: <u>8+082</u>	RING: <u>2053</u>	HOUR: <u>11:30</u>	

Mapping performed: ☒ Yes ☐ No

Plan view Face of the Excavationm

Schematic position of the cutter head while mapping

Schematic Rock Mass Structure

0° 90° 180° 270°

1.0 m

Light Gneiss Dark Gneiss Pegmatite Amphibolit

Foliation Joint Set (Strike/dip) Joint Set (sub. Vertical) Joint Set (Sub Horizontal) Geological Contact Geological Contact (diffuse) Weakness zone < 1m Water Weakness zone > 1m (thickness)

DISCONTINUITIES						FACE CHARACTERISTICS				
Fracture set	1	2				Quartz	Veins	<input checked="" type="checkbox"/>	Masses	<input type="checkbox"/>
Strike (α_s)	E-W	E-W				Garnets	Low	<input type="checkbox"/>	High	<input checked="" type="checkbox"/>
Dip (α_f)	80°S	80°N				Water	Dry	<input type="checkbox"/>	Moist	<input type="checkbox"/>
Spacing (cm)	—	—					Dripping	<input type="checkbox"/>	Flowing	<input checked="" type="checkbox"/>
Length (m)	>3	>3					Quantity:			
Aperture (mm)	<1.0	<1.0				Fracturing	RQD:		80-100	
Roughness	R. PLAN	R. PLAN				Overbreak	Depth (cm):		—	
Infilling	None	None					Amount (%):		—	
Weathering	None	None				Mixed face	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>

NOTES

LIGHT GNEISS IN THE LEFT SIDE TO DARK GNEISS ON THE MIDDLE - RIGHT SIDE. FOLIATION WELL VISIBLE, ROCK MASS UNWEATHERED AND WITH FRACTURES WIDELY SPACED. WATER FROM TRANSVERSAL FRACTURES. PEGMATITE DYKE (≈ 50 cm) ALONG FOLIATION SHOW FRACTURES CLOSELY SPACED. NO OVERBREAKS

AGJV Geologist			Bane NOR Geologist NOT PRESENT		
Date	Name	Signature	Date	Name	Signature
<u>24/6-17</u>	<u>Yuri</u>	<u>Jos Madsen</u>	<u>24/6-17</u>	<u>U/G</u>	<u>E. Grasholm</u>

TUNNEL: INBOUND
CHAINAGE: 08+082
DIRECTION: NORTH

MACHINE: TBM 1
RING: 2053

DATE: 24/06/2017
HOUR: 11:30

REF. Nº:
TBM1_20170624_08082_155

LEFT SIDE

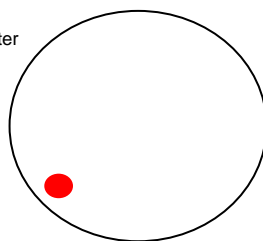


RIGHT SIDE



Schematic position of the cutter
head while mapping

UPPER SIDE



FACE



AGJV Geologist

Date	Name	Signature
24/06/2017	JM	

Bane NOR Geologist

Date	Name	Signature