

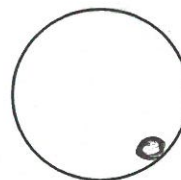
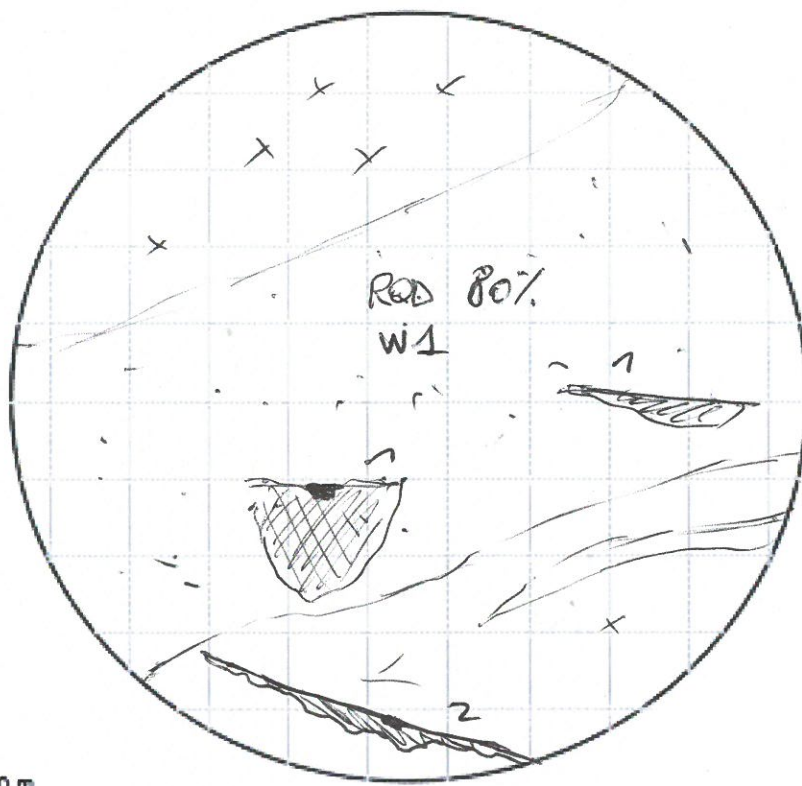
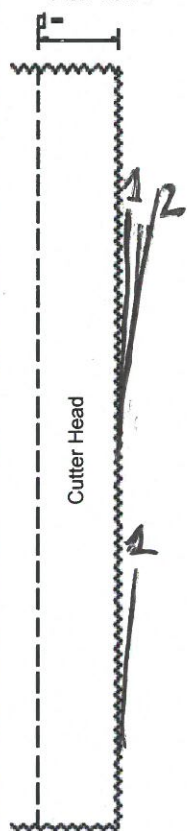
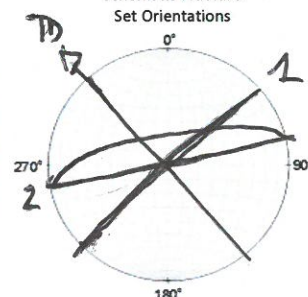
TUNNEL: INBOUND
CHAINAGE: 02+962MACHINE: TBM 1
RING: 4892DATE: 31.08.18
HOUR: 8:49REF. N°:
428

Mapping performed:

☐ Yes☐ No

Plan view

Face of the Excavation

Schematic position of
the cutter head while
mappingSchematic Fracture
Set Orientations

	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						FACE CHARACTERISTICS		
Fracture set	1	2				Quartz	Veins <input type="checkbox"/>	Masses <input type="checkbox"/>
Strike (α_s)	N 220-230	N 260				Garnets	Low <input checked="" type="checkbox"/>	High <input type="checkbox"/>
Dip (α_f)	90	60-70N				Water	Dry <input type="checkbox"/>	Moist <input checked="" type="checkbox"/>
Spacing (cm)	—	—					Dripping <input type="checkbox"/>	Flowing <input type="checkbox"/>
Length (m)	1-3	1-3					Quantity:	
Aperture (mm)	< 1	< 1				Fracturing	RQD:	80
Roughness	VN	VII				Overbreak	Depth (cm):	20
Infilling	—	—					Ammount (%):	5-10
Weathering	W1	W1				Mixed face	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

NOTES

Tonalitic gneiss and amphibolite dike crossing the face. Amphibolite is more closely fractured than the gneiss. Some sealed fractures. Moist face

* Client doesn't agree on adding MF to FM

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

AGJV Geologist			Bane NOR Geologist		
Date	Name	Signature	Date	Name	Signature
31.08.18	LDG		31.08.18	MR	

TUNNEL: INBOUND
CHAINAGE: 02+962
DIRECTION: NORTH

MACHINE: TBM 1
RING: 4892

DATE: 31/08/2018
HOUR: 08:49

REF. Nº:
TBM1_20180831_02962_428

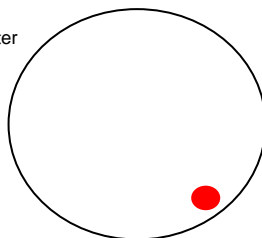
LEFT SIDE



RIGHT SIDE



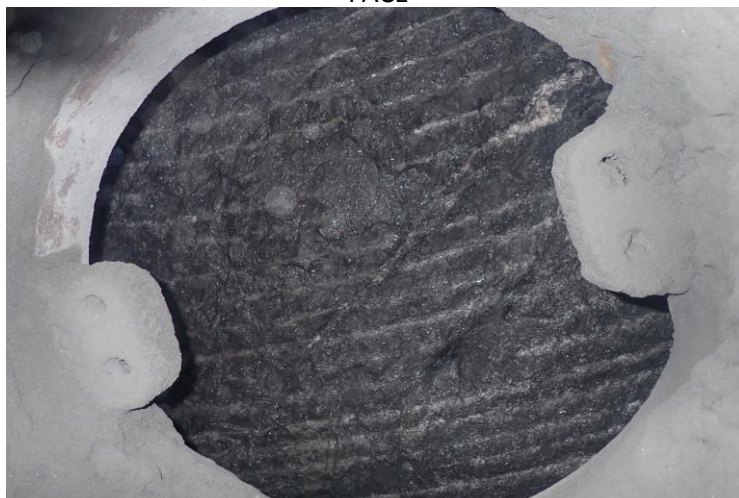
Schematic position of the cutter head while mapping



UPPER PART



FACE



AGJV Geologist

Date	Name	Signature
31/08/2018	LDG	

Bane NOR Geologist

Date	Name	Signature