



Mont Terri Project

Underground Rock Laboratory

ANDRA BASE BGE BGR CHEVRON CRIEPI DOE ENRESA ENSI ETH FANC GRS HELMHOLTZ IRSN JAEA NAGRA NWMO NWS OBAYASHI SCK•CEN SWISSTOPO TOTAL

Mont Terri Rock Laboratory

Field report: April 4–10, 2022 (Phase 27)

BN (Bitumen-Nitrate-Clay Interaction) Experiment

- On Monday, T. Theurillat (swisstopo) measured the volumes of the gas traps from interval 1 and 2.

CD-A (Influence of Humidity on Cyclic and Long-Term Deformations) Experiment

- Monday to Thursday, G. Pomar and J-A. Oviedo (Amberg) repaired the communication with the RH-sensor in the Twin Niches. The problem was a faulty replacement unit of the converter. Once the problem was found, the old model of the converter was reinstalled and communication was re-established.

DR-B (Long-Term Diffusion) Experiment

- On Thursday, A. Degiacomi, T. Steffen and S. Schefer (swisstopo) removed the probe from BDR-B8 in preparation of the next intervention next Monday.
- On Friday, A. Degiacomi and T. Steffen took a water sample from BDR-B5. The water table in this borehole is at 5 cm above the base plate.

FE-M (Long-Term Monitoring of the Full-Scale Emplacement Experiment) Experiment

- From Tuesday until Friday, S. Tuñon, G. Pomar and J-A. Oviedo (Amberg) exchanged the two computers on the heater experiment and performed the yearly maintenance (**Figure 1**).

HE-E (In-Situ Heater Test in VE-Microtunnel) Experiment

- From Tuesday until Friday, S. Tuñon, G. Pomar and J-A. Oviedo (Amberg) performed the yearly maintenance work on the data acquisition system for the heater experiment.

PF (Progressive Rock Mass Failure and Overbreak Sealing) Experiment

- On Wednesday, Thursday and Friday, M. Ziegler, A. Degiacomi, T. Steffen and T. Theurillat (swisstopo) prepared the borehole for the installation of the fiber-optic cables (**Figure 2**).

Varia

- On Wednesday, a delegation of French journalists from various medias like Agence France Presse, Le Figaro, l'Express and others, accompanied by the communication service of ANDRA and the former Delegate, J. Delay visited the rock laboratory under the guidance of C. Nussbaum (swisstopo). The President of the Government of the Canton Jura and Minister D. Eray welcomed the group in the visitor centre and explained the role of the cantonal authorities in the Mont Terri Project. Representatives from Nagra and ENSI also participated to the visit. Several reportages will be diffused.
- The next weekly report will be sent after the Easter break in two weeks.

Visits

Wed	06.04.2022	Group of French journalists with ANDRA	13	C. Nussbaum
Wed	06.04.2022	Valeria Mazzuchi, documentary filmmaker	2	M. Pretalli
Wed	06.04.2022	Kantonsschule Stadelhofen, Zurich	25	H. Hauser, R. Nicol

D. Jaeggi and S. Schefer, April 9, 2022



Figure 1: FE-M: The Amberg team tests the acquisition from the heater data after the replacement of the computers (Photo: T. Steffen, swisstopo).



Figure 2: PF: A. Degiacomi drills the first few holes for the fibre-optic attachments inside the casing of BPF-7 (Photo: T. Steffen, swisstopo).