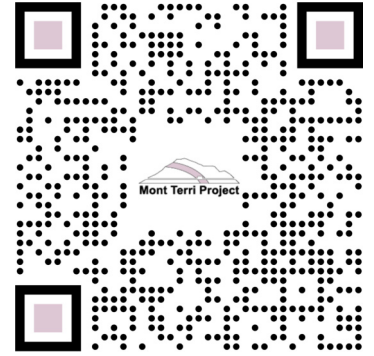


# Mont Terri Project Underground Rock Laboratory

Report period: January 8–14, 2024

Assembled and edited by swisstopo, St-Ursanne



**Spotlight of the week:** The SW-A experiment consists of two experimental shafts (1.18 m diameter, 10 m and 12.6 m depth, respectively) constructed using a core drilling technique in a niche in the sandy facies of the Opalinus Clay. Vertical hydraulic Sandwich sealing systems have been installed in both shafts which can be saturated from pressure chambers located at the shaft bottoms via lateral feeding boreholes. The sealing systems and the surrounding rock are intensely monitored. It is the aim of the experiment to assess the functionality of the Sandwich sealing system interacting with the host rock.

## Important note

- Welcome to 2024! We wish you all a Happy New Year!

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

- On Friday, January 12, Q. Bobillier and N. Philipossian (Sigeom) performed another survey and 3D-scan for the convergence of the Twin Niches (**Figure 1**).

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

- On Monday, January 8, S. Schefer (swisstopo) filled 18 l of demineralized water into the heated calibration bath.

## SW-A (Large-Scale Sandwich Seal in Opalinus Clay) experiment

- On Monday, January 8, T. Theurillat and S. Schefer (swisstopo) refilled the HPT of shaft 1 and restarted the scale of the HPT for shaft 2.
- On Tuesday, January 9, T. Theurillat (swisstopo) exchanged the gas bottles on the injection cabinets.
- On Friday, January 12, S. Schefer (swisstopo) refilled the HPT of shaft 1.

## Varia

- On January 3, Michael Stöpfer (swisstopo) started his new job as safety person for the rock laboratory and driver for the Visitor Center. He is a trained professional fire fighter and we look forward to his expertise on safety and security in the Mont Terri! We welcome you and look forward to working together! (**Figure 2**).

## Visits

Day	Date	Group Name	Group Size	Visitors Guide
Thu	11.1.2024	Ecole Secondaire Val Terbi	36	C. Boner (freelance) R. Nicol (swisstopo)
Fri	12.1.2024	Ecole Secondaire Val Terbi	41	C. Boner (freelance) H. Hauser (freelance)
Sat	13.1.2024	Groupe C. Chèvre	15	C. Boner (freelance)

## Figures



**Figure 1: CD-A:** Laser Scan inside Niche Closed Twin (S. Schefer, swisstopo).



**Figure 2: Varia:** M. Stöpfer (swisstopo) is ready for all eventual safety challenges... (S. Schefer, swisstopo).