

Mont Terri Project

Underground Rock Laboratory

ANDRA ◦ BASE ◦ BGE ◦ BGR ◦ CHEVRON ◦ CRIEPI ◦ DOE ◦ ENRESA ◦ ENSI ◦ ETHZ/EPFL ◦ FANC ◦ GRS
HELMHOLTZ ◦ IRSN ◦ JAEA ◦ NAGRA ◦ NWMO ◦ NWS ◦ OBAYASHI ◦ SCK•CEN ◦ SWISSTOPO ◦ TOTALENERGIES

Mont Terri Rock Laboratory

Field report: December 19–25, 2022 (Phase 28)

CS-E (Mini-Fracturing and Sealing) experiment

- On Thursday, A. Rinaldi (ETHZ) installed a second gas pump in the CS-E circulation cabinet and fixed some clogged mini-ruedi lines (**Figure 1**). He has furthermore installed a bag for sampling a gas mixture as a standard. The same mixture will be saturated in water and injected in the next future.

HT (Hydrogen Transfer in Opalinus Clay) experiment

- On Tuesday and Thursday, S. Schefer (swisstopo) took water samples from BHT-1.

SI-B (Seismic Imaging of Structures Below the Mont Terri Tunnel and Rock Laboratory) experiment

- On Monday, G. Graf, P. Maeder and S. Schefer (swisstopo) measured the geodetic positions of BSI-B1–BSI-B24 in the security gallery.

TE (Aquifer Thermal Energy Storage experiment in fractured limestone) experiment

- On Tuesday, N. Auberson (CHYN) came on site in order to plan for the future salt (NaCl) tracer campaign in the security gallery and below the highway tunnel. He is mainly interested in the hydraulic contributions across the formation transitions OPA-Passwang Formation, Passwang Formation-Hauptrogenstein and Hauptrogenstein-Ifenthal Formation/Bärschwil Formation. This characterization campaign is planned for January 2023 and aims at understanding the reservoir characteristics of the rock mass accessible by the BDS-2 borehole and its interaction with the drainage system of the Mont Terri highway tunnel.

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

- On Tuesday and Thursday, S. Schefer (swisstopo) refilled the high-pressure tank and exchanged the CO₂-bottle on Thursday. After some trouble with the injection due to a closed valve, the pressure could be reset to normal and the injection is now stabilizing at a constant flow rate, as the days and weeks before.

Varia

- The rock laboratory and the swisstopo offices in Mont Terri will be closed during the winter break from December 26 until January 9. We wish you a happy winter season's break and are looking forward to seeing you again in 2023!

Visits

- There were no visits this week.

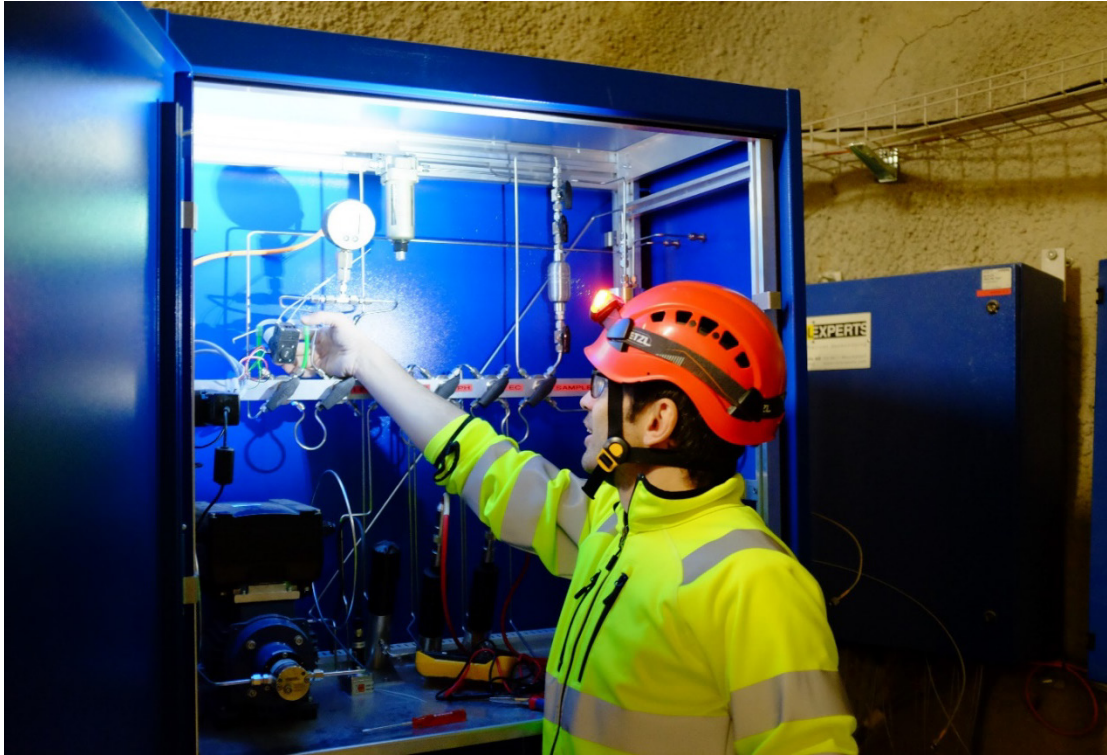


Figure 1: CS-E: A. Rinaldi installed a second gas pump in the CS-E circulation system (Photo: S. Schefer, swisstopo).



Mont Terri wishes you a happy holiday break and good health in 2023!