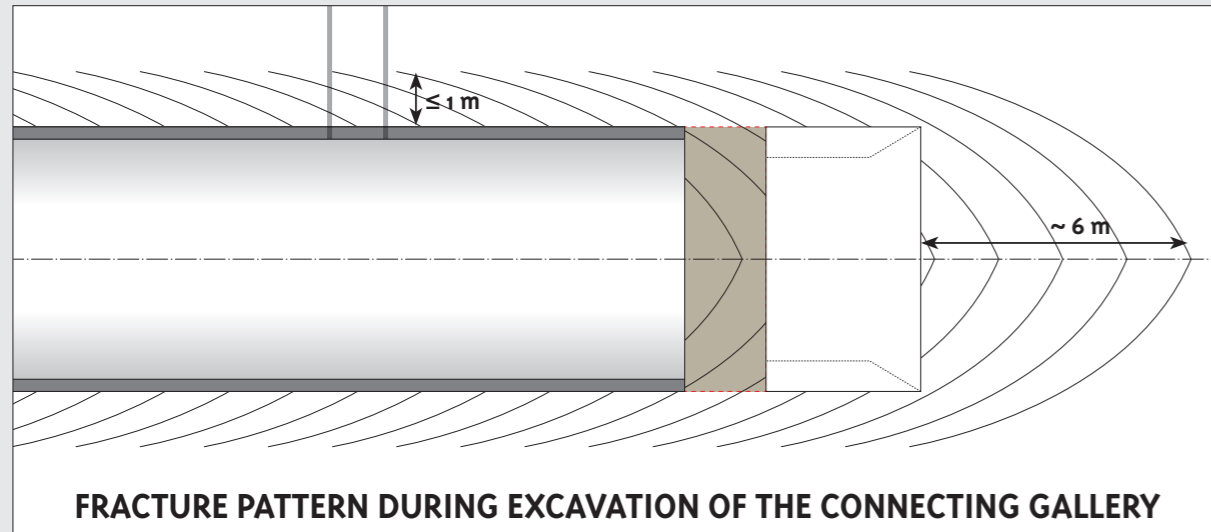


SELFRAC A

2001 - 2004

Fractures and self-healing within the excavation disturbed zone



CG-62U

CG-63U

GOAL

Characterisation of the Excavation Damaged Zone (EDZ) and its evolution with time.

April 2002

Installation of two parallel multi-piezometer tubes CG-62U & CG-63U

August 2002

Start of the measurements

April - September 2003

Hydraulic testing of the filters: Analysis of response to pressure changes

TWO PARALLEL MULTIPIEZOMETERS TO DETECT PREFERENTIAL PATHWAYS (CONNECTIVITY OF FRACTURES) ALONG THE GALLERY

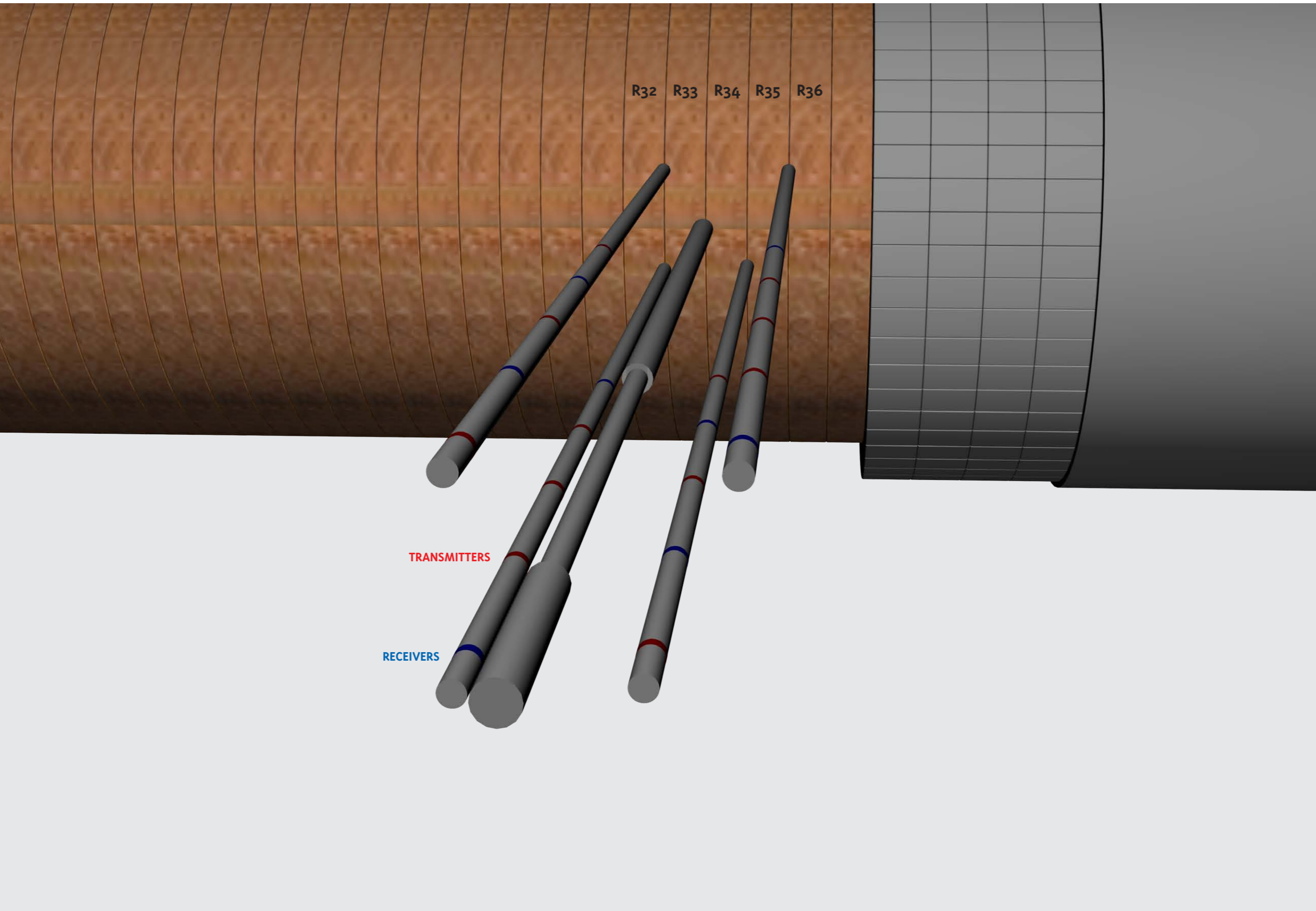
SPECIFIC PIEZOMETER DESIGN WITH MINIMAL DISTANCE BETWEEN SUCCESSIVE FILTERS.



SELFRAC B

2001 - 2004

Fractures and self-healing within
the excavation disturbed zone



GOAL

**Characterisation of the
Excavation Damaged Zone
(EDZ) and its evolution
with time.**

December 2003

Installation of four instrumented boreholes

May 2004

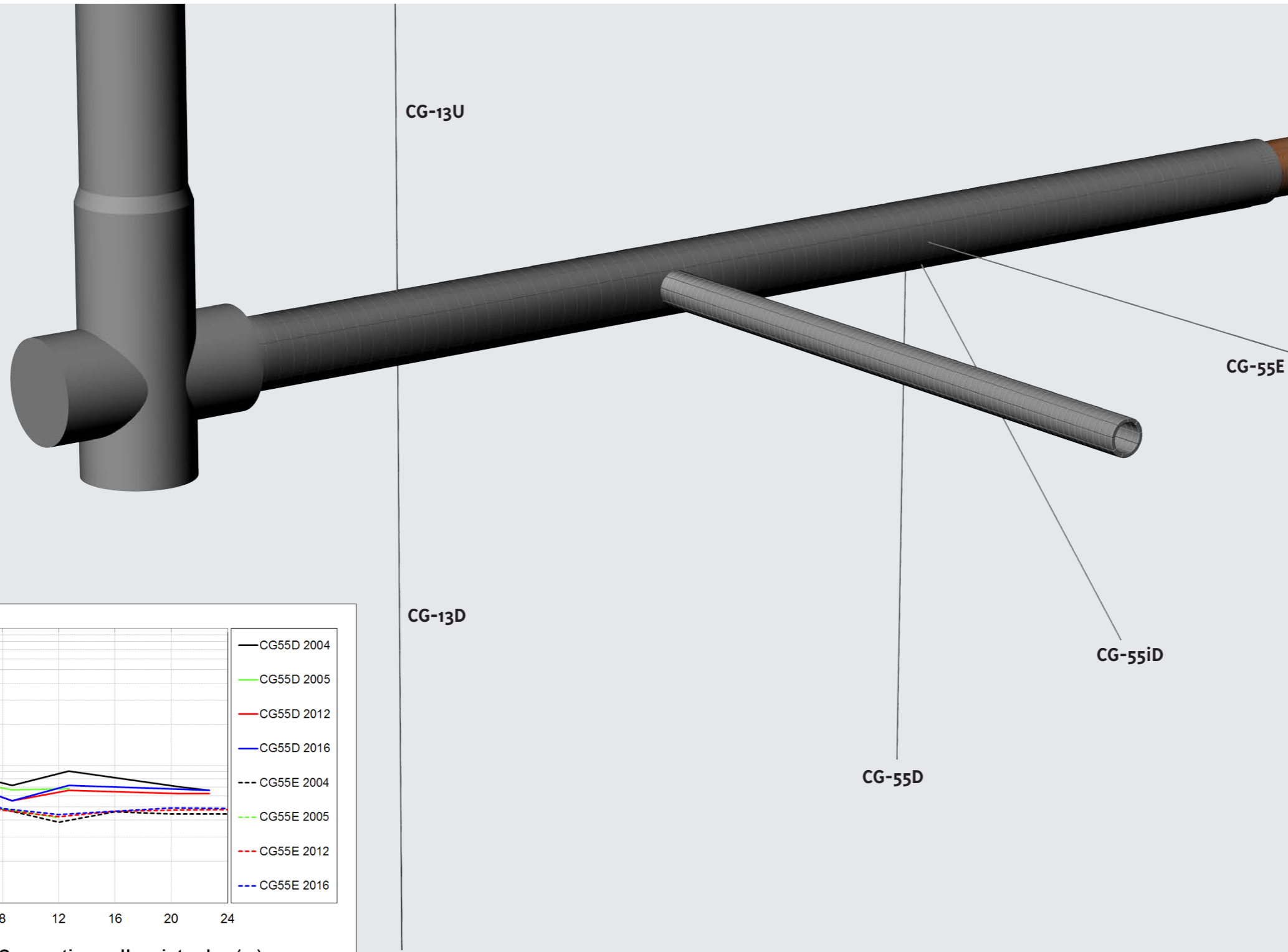
Drilling and installation of the central
borehole

**FOUR INSTRUMENTED BOREHOLES
SURROUNDING A CENTRAL COLLAPSING
BOREHOLE TO MONITOR THE BEHAVIOUR OF
THE CLAY HOST ROCK WITH SEISMIC AND
ACOUSTIC MEASUREMENT TECHNIQUES.**

**MONITORING THE CLOSURE AND SELF
SEALING OF THE CLAY HOST ROCK AROUND
A FRESHLY EXCAVATED BOREHOLE**



Fractures and self-healing within the excavation disturbed zone



GOAL

Characterisation of the Excavation Damaged Zone (EDZ) and its evolution with time.

May 2002
Installation of CG-55D and CG-55E

December 2003
Installation of CG-55iD, CG-13U and CG-13D

May 2004 - November 2005
Permeability testing

FIVE PIEZOMETER TUBES INSTALLED ALONG THE CONNECTING GALLERY TO FOLLOW THE BUILD-UP AND DISTRIBUTION OF PORE WATER PRESSURE AROUND THE CONNECTING GALLERY.

BOREHOLES CG-55D AND CG-55E WERE ALSO USED FOR IN-SITU PERMEABILITY TESTING, TO STUDY THE EVOLUTION OF THE PERMEABILITY AFTER EXCAVATION OF THE GALLERY.

