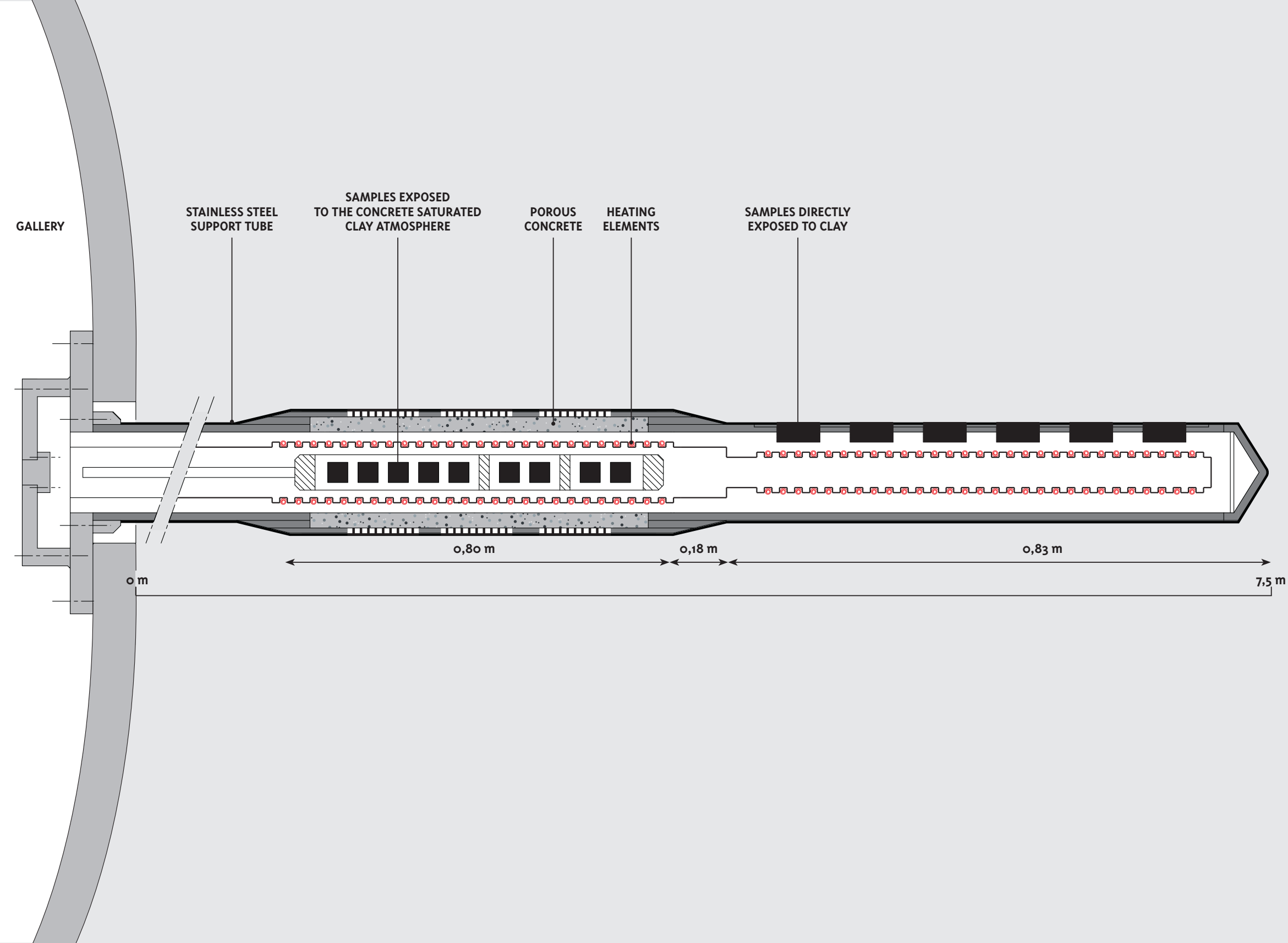


CORROSION - TYPE III

1985 - 1997

In-situ corrosion experiments



GOAL

Evaluation of the corrosion behaviour of potential overpack/waste materials and prediction of the long-term corrosion behaviour (up to 1000 years) through medium term interactions (up to 7,5 years).

CORROSION type I

Samples in direct contact with Boom Clay

CORROSION type II

Samples in contact with a clay atmosphere

CORROSION type III

Samples in direct contact with clay and samples in contact with a concrete saturated clay atmosphere

OVERPACK MATERIALS:

CARBON AND STAINLESS STEEL, NICKEL AND TITANIUM ALLOYS

WASTE FORM MATERIALS:

GLASS, CEMENT, CONCRETE, CERAMIC, BITUMEN

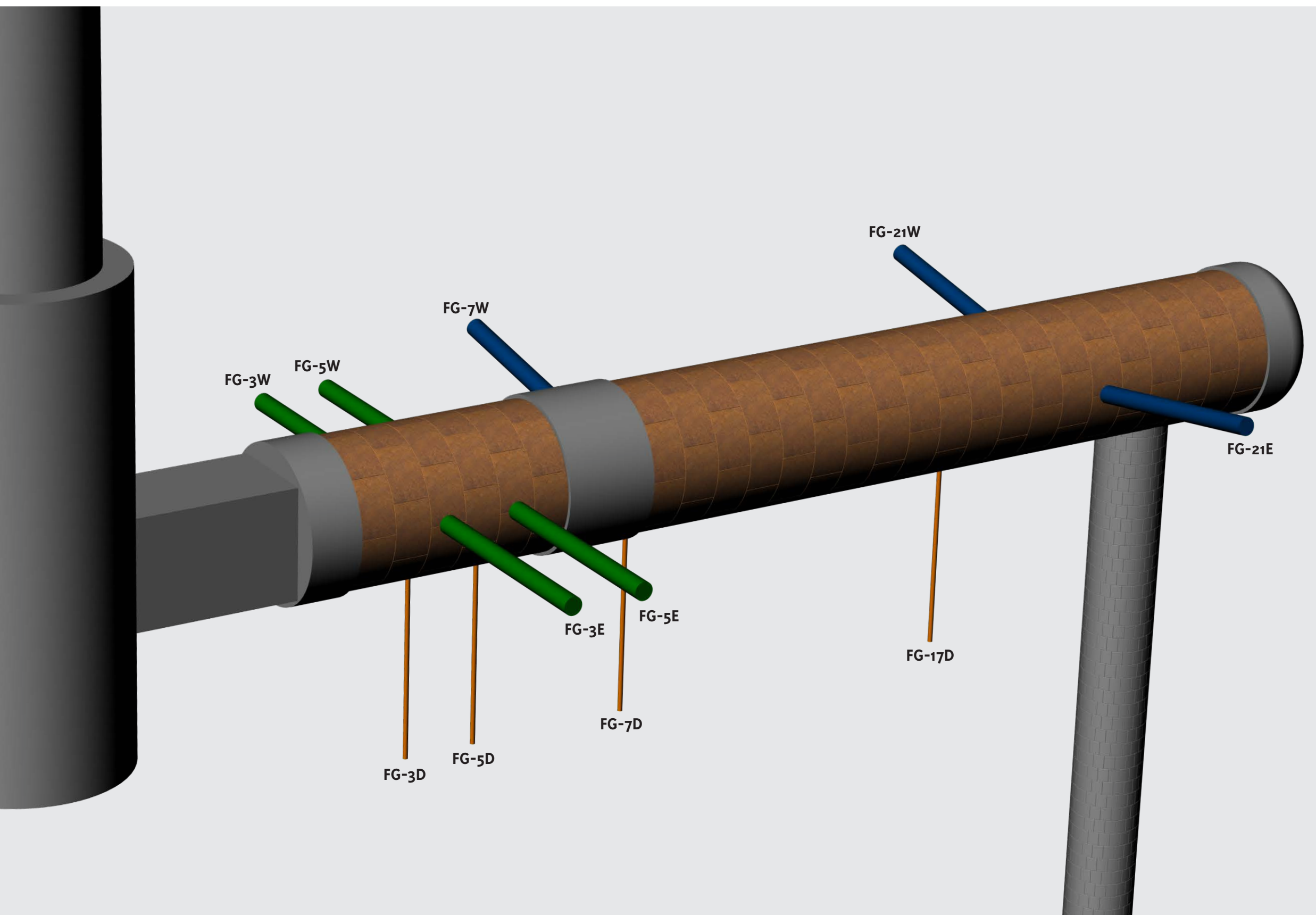
TESTS AT DIFFERENT TEMPERATURES

16, 90 AND 170 °C

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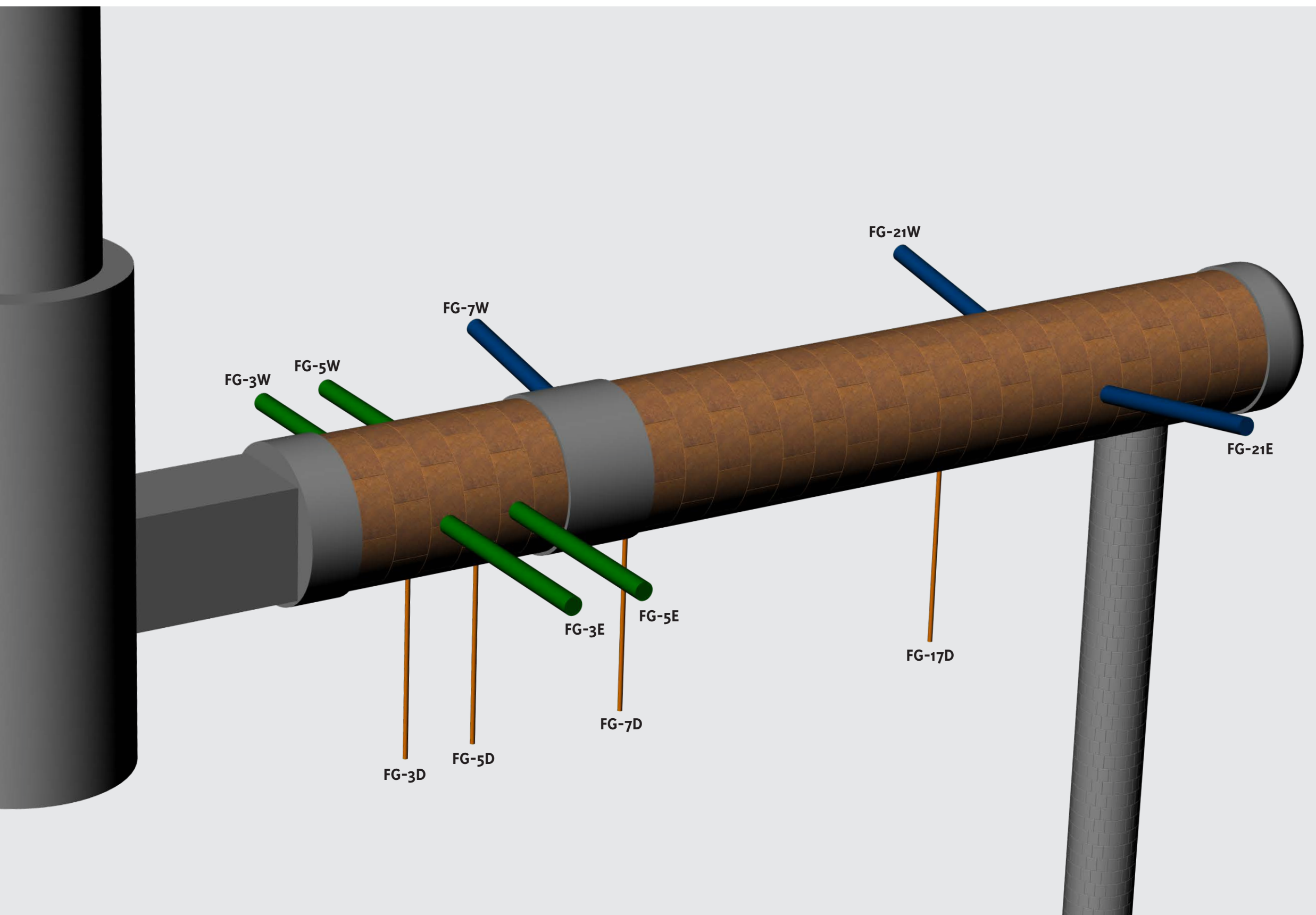
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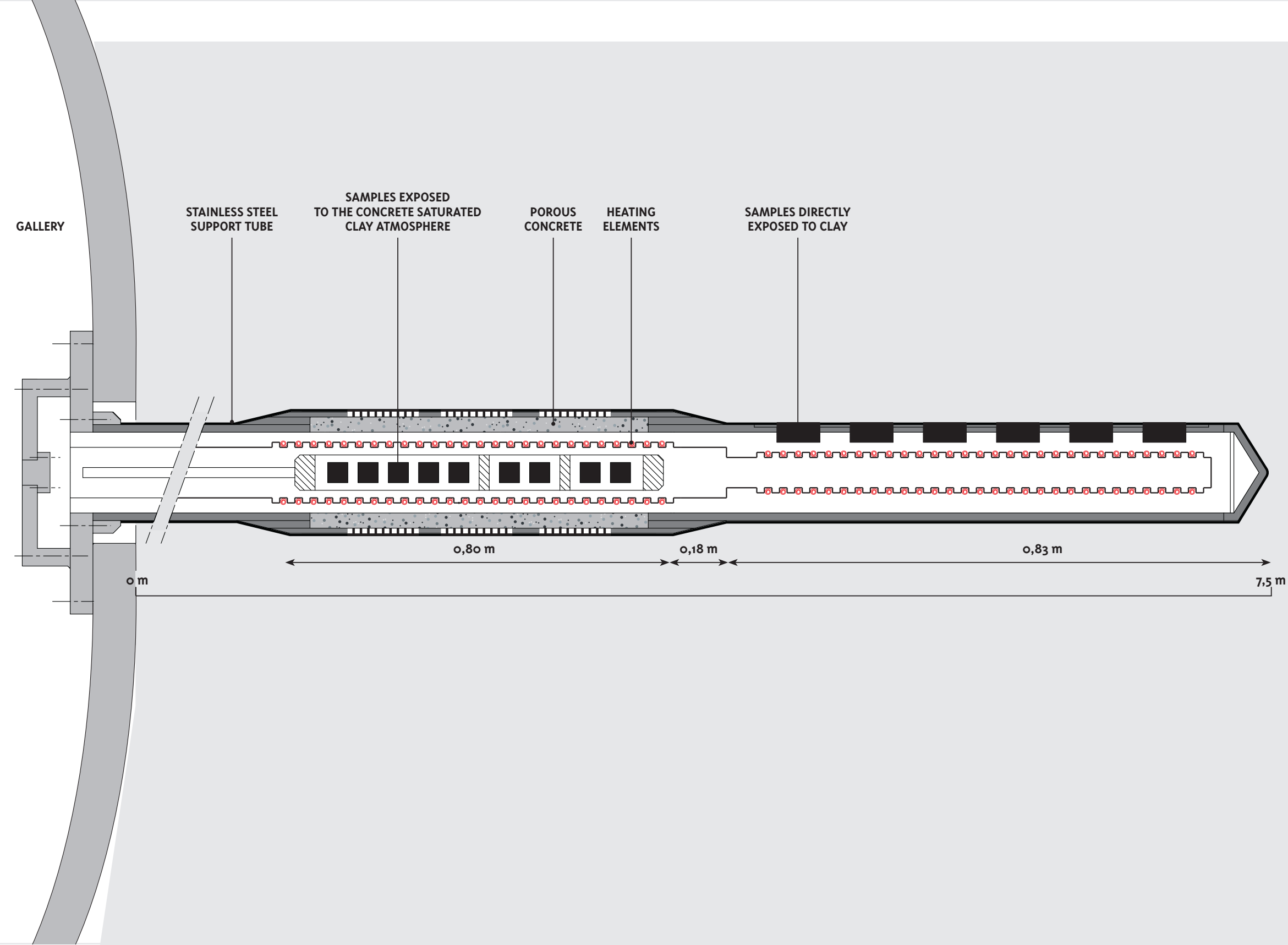
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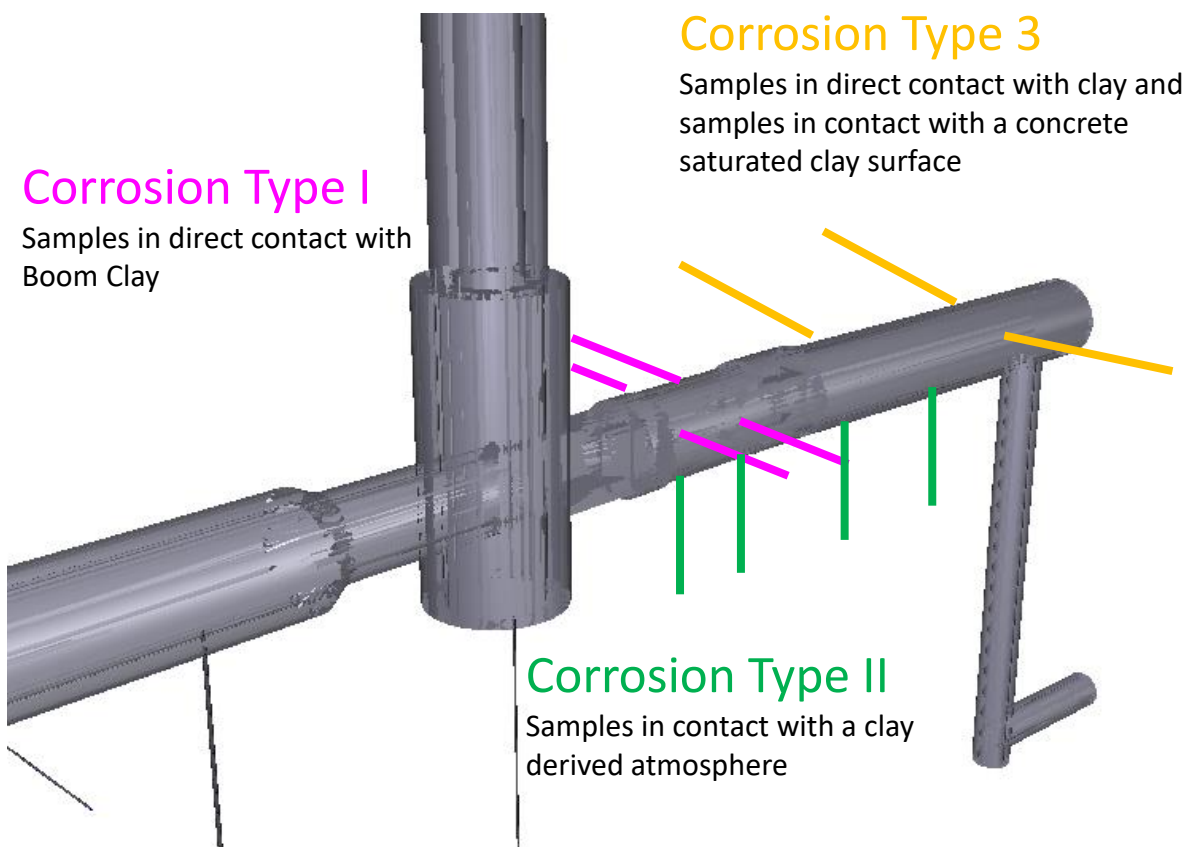
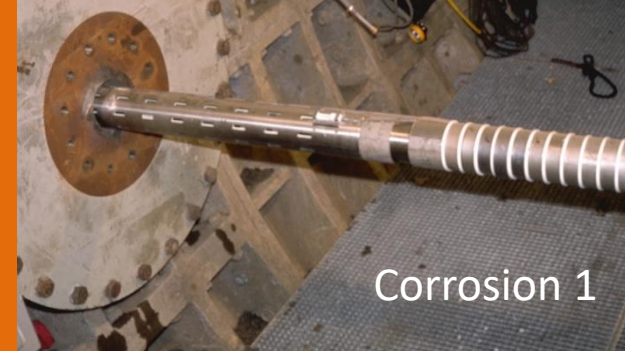
TESTS AT DIFFERENT TEMPERATURES
16, 90 AND 170 °C

sck cen



NIRAS ONDRAF

In-situ corrosion experiments



Location of the different corrosion experiments Type 1, 2 and 3

GOAL

Evaluate the corrosion behaviour of potential overpack/waste materials and predict the long-term corrosion behaviour (up to 1000 years) through medium term interactions (up to 7,5 years)

TEST SAMPLES

Overpack materials: carbon and stainless steel, nickel and titanium alloys

Waste form materials: glass, cement, concrete, ceramic, bitumen

TESTS AT DIFFERENT TEMPERATURES

16, 90 and 170 °C

sck cen



EURIDICE

NIRAS
ONDRAF