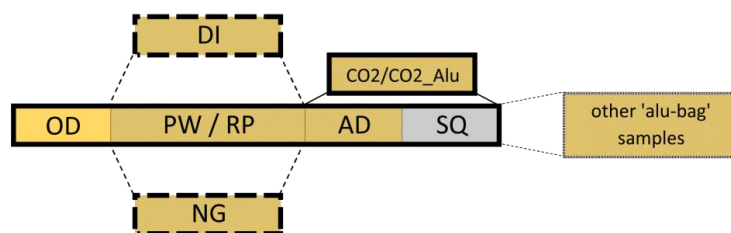


Syntax for labelling core samples:

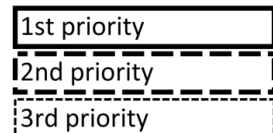
[borehole ID] – [depth of sample top]/[sample length] – [sample type]

(e.g. "BUL1-1 – 121.25/15 – NG")

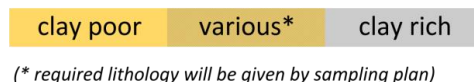
Core sample adjacency requirements:



Legend / comments:



General lithology requirements:



Core sample types | intended investigation:

aluminium bag conditioning:

PW	aqueous extraction, porewater chemistry
OD	out-diffusion, porewater chemistry
SQ	squeezing, porewater chemistry
AD	advective displacement, porewater chemistry
DI	diffusion experiments
RP	various, petrophysics, porewater chemistry
CO2_Alu	CO ₂ partial pressure and isotope composition

dissolved gas conditioning:

NG	dissolved noble gases
CO2	CO ₂ partial pressure and isotope composition

epoxy resin embedding:

GM	geomechanical investigations
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sample-specific conditioning:

A...	generic, special sample (e.g. "AOpenFracture")
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Core samples – Requirements

General requirements for all samples

- Lithologically homogeneous (mineralogy, grain size)
- Absence of objects different from the bulk matrix (e.g. fossils, veins, concretions)
- Absence of drilling-induced or natural fractures (both open and closed)
- **Disking during sampling:** final sample length must be as required; state number of disks at time of sample sealing; repeat sample if more than 3 disks (AD, DI, SQ)

Type	Length [cm]	Lithology	Strat. Slab	Conditioning	Priority	Main concern	Storage
PW	25	All ^a	Yes	Aluminium bag	3	Desiccation	Cold storage
RP	25	All ^a	Yes	Aluminium bag	3	Desiccation	Cold storage
OD	25	Clay-poor	No	Aluminium bag	3	Desiccation	Cold storage
AD	20	All ^a	No	Aluminium bag	3	Desiccation	Cold storage
SQ	20	Clay-rich	No	Aluminium bag	3	Desiccation	Cold storage
DI	20	All ^a	No	Aluminium bag	3	Desiccation	Cold storage
CO2_Alu	25	All ^a	No	Aluminium bag	2	Degassing	Cold storage
NG	15	All ^a	Yes ^b	Dissolved gas	1	Degassing	Ambient temperature
CO2	25	All ^a	Yes ^b	Dissolved gas	2	Degassing	Ambient temperature
GM	50	All ^a	No	Epoxy	4	Mechanical damage (discing), desiccation	Ambient temperature

Remarks: ^a Lithology to be sampled is either specifically given by the sampling plan, a strict spacing requirement or it is the principal lithology of the current lithostratigraphic unit

^b NG and CO2 type samples are trimmed to a central cuboid

Styrofoam Sample Placeholder Templates

TEMPLATE:

Length of placeholder must be the exact length of the removed sample

[SAMPLE ID]		
[Top of sample] – [Bottom of sample] m MD		
Dim. [Length of sample] cm	[Fraction removed ($\frac{1}{1}$ or $\frac{3}{4}$)]	
[Date of sampling]		

Example 1: 15 cm long NG sample, stratigraphy slab cut-off

(to scale)

<i>BUL1-1-634.32/15-NG</i>		
<i>634.32 – 634.47 m MD</i>		
<i>Dim. 15 cm</i>	<i>$\frac{3}{4}$</i>	
<i>15.06.2019</i>		

Example 2: 25 cm long OD, no stratigraphy slab

(scaled to approximately 0.6x)

<i>BUL1-1-654.17/15-OD</i>		
<i>654.17 – 654.42 m MD</i>		
<i>Dim. 25 cm</i>	<i>1/1</i>	<i>17.06.2019</i>