

Geo

SUBSURFACE EXPERTISE

Drilling rigs - safety challenge

Digitalization – handling of samples



Nordic field committee meeting 2019

Drilling rigs - safety challenge

- Equipment
- Clothing
- Planning

Drilling rigs - equipment

- 2 wires
- Additional local crane/wire
- Catching tools
(hooks for lost drilling tools
in borehole)
- Fencing
(close to roads, public areas)



Drilling rigs - clothing

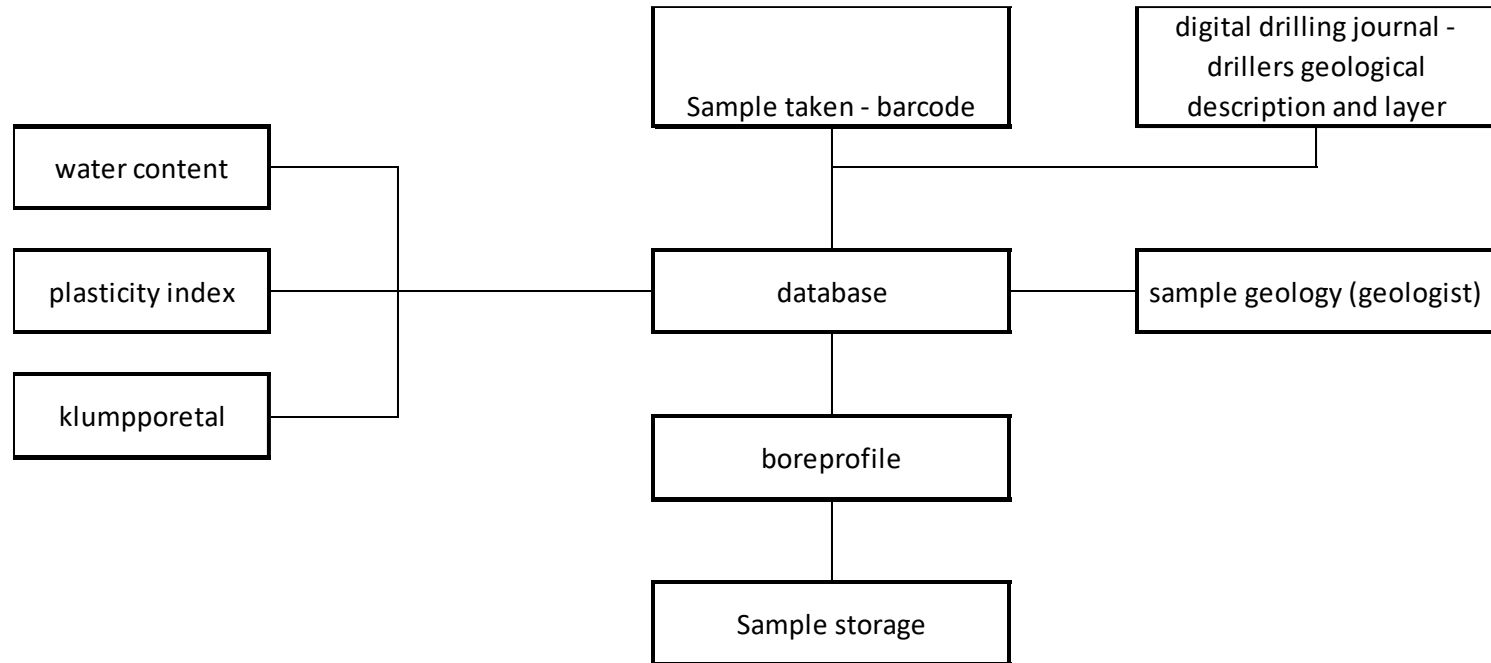
- No shorts – always trousers
- Safety class 3 instead of 2, i.e. both fluorescent top and bottom
- Lightweight safety helmet



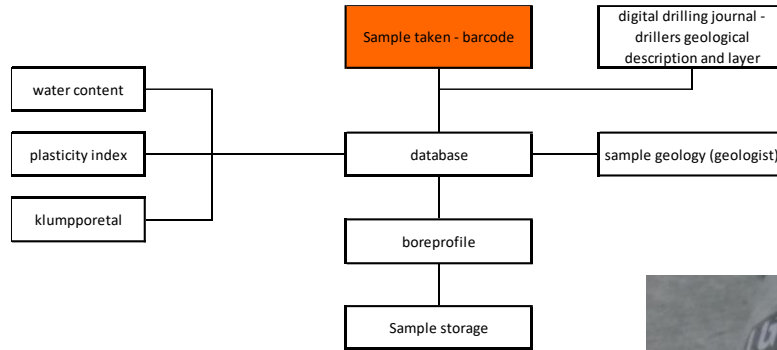
Drilling rigs - planning

- Using LER – information on existing underground utilities
- Is there an environmental hazard – using information on existing defined areas with possible pollution (areainfo.dk, class V1 (there may be something) and V2 (there is something and it is identified as))
- Will the work be made easier using fencing?
- 2 drillers on the larger drilling rigs or if the work require it

Digitalization – handling of samples

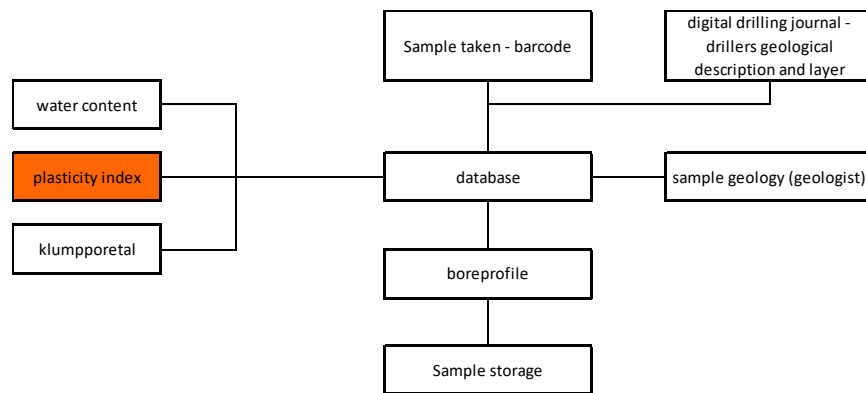


Digitalization – sample barcode



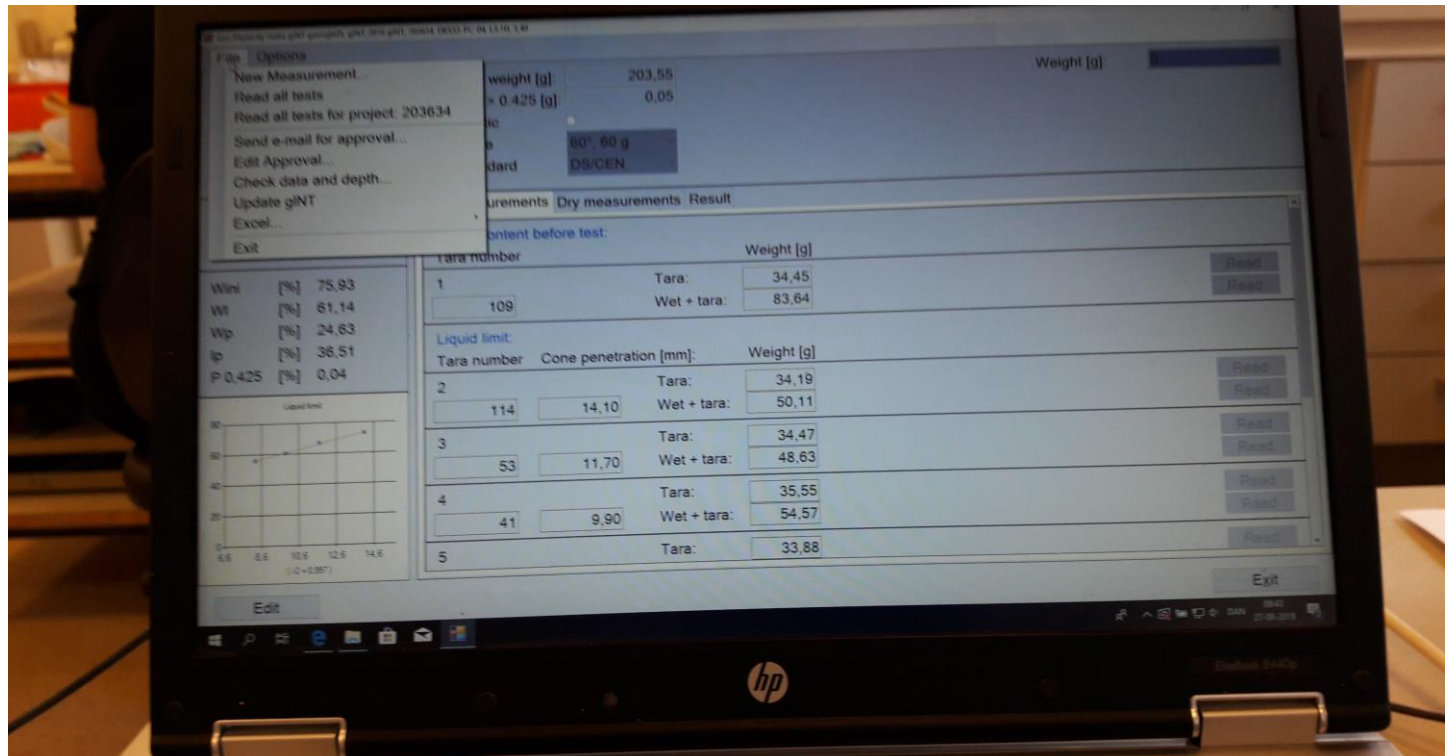
Digitalization – plasticity limit

- Sample info from database
- Scale connected to computer – weight directly transferred (inhouse programme)
- Less keying in data – time saving
- Less chance of error



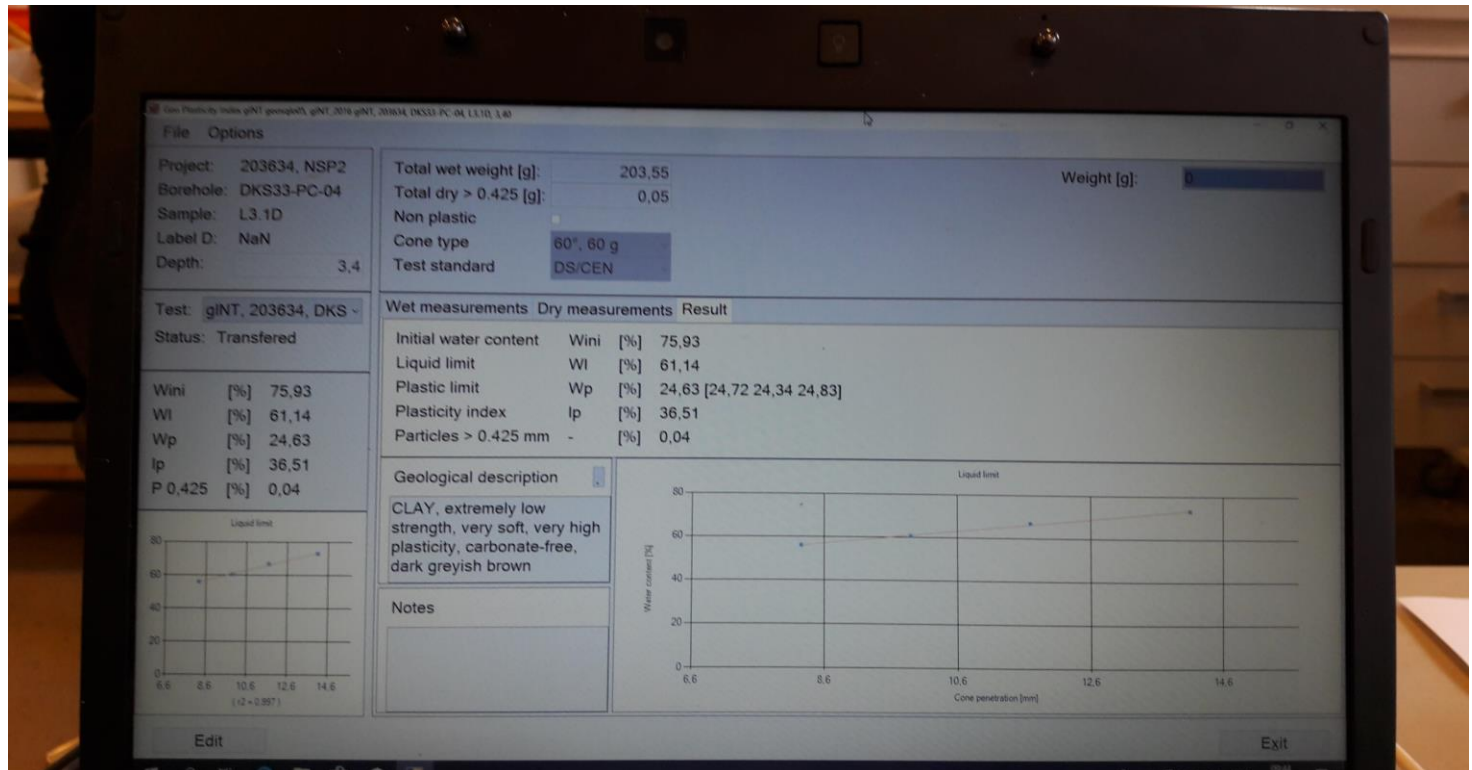
Digitalization – plasticity limit

- Drop down menu (inhouse programme)



Digitalization – plasticity limit

- Result shown directly

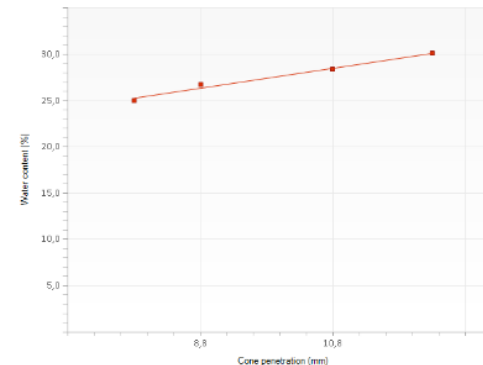


Digitalization – plasticity limit

- Approval/comments directly
- Corrections if necessary
- Upload in database and on borehole profile

Plasticity: Test result, approval.

Identification	Geological description	Class	Note
Project number: 203634	Sample not found in Geogis CLAY TILL, low strength, soft-firm, low-medium plasticity, sandy, sl. gravelly, calcareous, dark: gre		
Borehole: R30_DO-VC-05			
Sample number: L1.1D			
Depth: 3,85			



Results

Non plastic	<input type="checkbox"/>		
Initial water content	W_{opt}	[%]	19.01
Liquid limit	W_L	[%]	27.64
Plastic limit	W_p	[%]	11.48
Plasticity index	I_p	[%]	16.2

Regression

A_intercept	b_slope	r ²
16.89	1.07	0.99

Please approve result by checking "Test approved", or writing reason for disapproval in textbox. Then press send.

Test approved	<input type="checkbox"/>
Comments if not approved	<input type="text"/>
Send	<input type="button" value="Send"/>

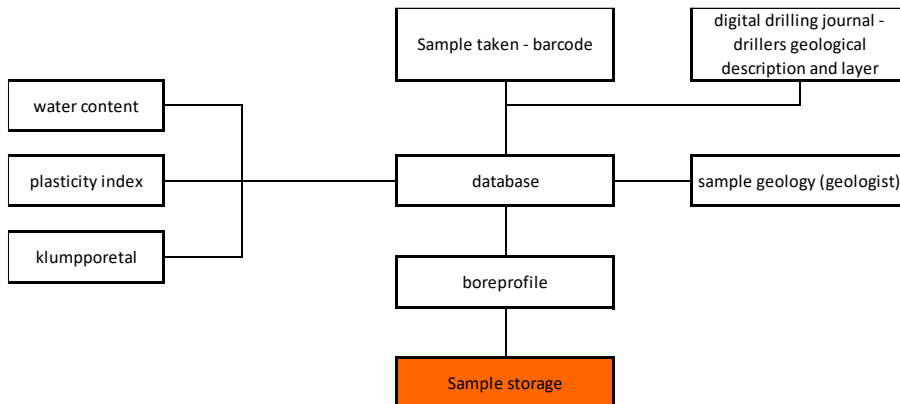
Digitalization – sample storage and disposal



Projektnummer:

Vis prøver på lager Vis kasserede

Projektnummer	Projektnavn	Beskrivelse	Projektleder	Borehul	Antal prøver	Kasser	Placering	Udløbsdato	Status	Prøver	Projektets forsøg
203830	Vallerød Banevej	Geoteknisk vingeforsøg	LCH	B1	3	12G3	12G3	19-10-2019 00:00:00	Planned	Se liste over prøver	Se tabel over forsøg
203820	København. Ryparken station	Pumpeforsøg	RCM	LYN1U5	14	11A5,11A6	11A5,11A6	27-10-2019 00:00:00	Planned	Se liste over prøver	Se tabel over forsøg
203820	København. Ryparken station	Pumpeforsøg	RCM	LYN2U5	15	11A7,11A8	11A7,11A8	27-10-2019 00:00:00	Planned	Se liste over prøver	Se tabel over forsøg
203809	Hvidovre. Jernholmen 12	Geoteknisk undersøgelse	SNS	B1	7	11B5	11B5	08-10-2019 00:00:00	Planned	Se liste over prøver	Se tabel over forsøg
203809	Hvidovre. Jernholmen 12	Geoteknisk undersøgelse	SNS	B2	9	11B6	11B6	08-10-2019 00:00:00	Planned	Se liste over prøver	Se tabel over forsøg
203792	Hillerød.Cirkelbuen	Kloakledninger. Supplerende geoteknisk undersøgelse	RSC	1	13	15E4	15E4	30-09-2019 00:00:00	Planned	Se liste over prøver	Se tabel over forsøg



Digitalization – sample storage and disposal

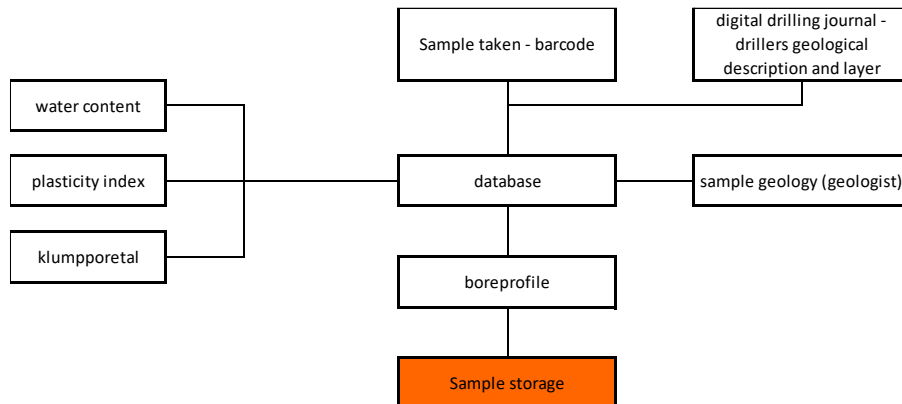


Projektnummer:

Vis prøver på lager Vis kasserede

Projektnummer	Projektnavn	Beskrivelse	Projektleder	Borehul	Antal prøver	Kasser	Placering	Udløbsdato	Status	Prøver	Projektets forsøg
203749	Kastrup. Kystvejen 38	Geoteknisk undersøgelse for halbyggeri uden kælder	SGR	Boring1	15	11H1	11H1	25-09-2019 00:00:00	Planned	Se liste over prøver	Se tabel over forsøg
203749	Kastrup. Kystvejen 38	Geoteknisk undersøgelse for halbyggeri uden kælder	SGR	Boring2	21	11H2,11H3	11H2,11H3	25-09-2019 00:00:00	Planned	Se liste over prøver	Se tabel over forsøg
203749	Kastrup. Kystvejen 38	Geoteknisk undersøgelse for halbyggeri uden kælder	SGR	Boring3	21	11H4,11H5	11H4,11H5	25-09-2019 00:00:00	Planned	Se liste over prøver	Se tabel over forsøg
203749	Kastrup. Kystvejen 38	Geoteknisk undersøgelse for halbyggeri uden kælder	SGR	Boring4	21	11H6,11H7	11H6,11H7	25-09-2019 00:00:00	Planned	Se liste over prøver	Se tabel over forsøg
203749	Kastrup. Kystvejen 38	Geoteknisk undersøgelse for halbyggeri uden kælder	SGR	Boring5	21	11H8,11H9	11H8,11H9	25-09-2019 00:00:00	Planned	Se liste over prøver	Se tabel over forsøg

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Digitalization – sample storage and disposal



Projektets forsøg	Projektnummer	Projekt navn	Projektbeskrivelse	Projektleder	Borehul	Location
Vis	203749	Kastrup, Kystvejen 38	Geoteknisk undersøgelse for halbyggeri uden kælder	SGR	Boring I	11H1

- Sample

Navn på prøve	Dybde top	Dybde bund	Prøvetype	Status på prøve	Udløbsdato	Kote	Flow	Kasse	Barcode
1		0,2	Pose	Registrated	25-09-2019			11H1	Geo02037490000232
2		0,5	Pose	Registrated	25-09-2019			11H1	Geo02037490000233
3		1	Pose	Registrated	25-09-2019			11H1	Geo02037490000234
4		1,5	Pose	Registrated	25-09-2019			11H1	Geo02037490000235
5		2	Pose	Registrated	25-09-2019			11H1	Geo02037490000236
6		2,5	Pose	Registrated	25-09-2019			11H1	Geo02037490000237
7		3	Pose	Registrated	25-09-2019			11H1	Geo02037490000238
8		3,5	Pose	Registrated	25-09-2019			11H1	Geo02037490000239
9		4	Pose	Registrated	25-09-2019			11H1	Geo02037490000240
10		4,5	Pose	Registrated	25-09-2019			11H1	Geo02037490000241
11		5	Pose	Registrated	25-09-2019			11H1	Geo02037490000242
12		5,5	Pose	Registrated	25-09-2019			11H1	Geo02037490000243
13		6	Pose	Registrated	25-09-2019			11H1	Geo02037490000244
14		6,5	Pose	Registrated	25-09-2019			11H1	Geo02037490000245
15		7	Pose	Registrated	25-09-2019			11H1	Geo02037490000246

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