

Hillerød. Egespurs Alle Area for Sale Geotecnical investigations

GEO project no 31373 Report 1, 2008-04-22

Summary

For a 100,000 m² area just southwest of Hillerød city GEO has been asked to carry out a geotechnical investigation. A specific project is not yet known to us.

The objective of the investigation – besides to form a general view of the soil and water conditions – is to provide the necessary basis for assessment of the type of foundation.

The field investigations have comprised borings with soil sampling and vane shear tests in shallow borings in a net of app. $100 \times 100 \text{ m}^2$.

The thickness of the top soil layer varies on the major part of the area from 0.3 m to 1.2 m. In local areas in the northern and southeastern part of the area represented by borehole log 4 and GB 4 (northern) and borehole log 10 (southeastern) fill has been met to a thickness of 3.5 m (northern) and 1.6 m (southeastern).

The groundwater level is measured to 0.4 m to >3.0 m below ground level.

The highest possible level suited for a shallow foundation (spread foundation) is determined as top of glacial or late glacial deposits just below the top soil and fill and denoted level 2 in the borehole profiles. A first estimate of the strength parameters for the soil has been assessed for the design of the foundation.

When the projects are known, specific soil investigations must be performed to reduce the distance between the borings and to give a more precise estimate of the strength parameters for the soil layers.

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Enclosures

1.1	: Location plan
1.2-1.13	:Borehole log Nos 1-12
Appendix 1.A	:Borehole logs from COWI investigations (in Danish)
GEO Standard:	Legends and Abbreviations

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1 Project and Objective

Hillerød Kommune wants to sell an area of 100,000 m^2 just southwest of the city. The areas are shown on the location plan in Enclosure No 1.1.

The objective of the investigation – besides to form a general view of the soil and groundwater conditions – is to provide the necessary basis for assessment of the type of foundation.

A specific project is not yet known to GEO. So the investigation is based on shallow borings in a net of app. 100 x 100 m^2 .

From Hillerød Kommune we have achieved the results from some earlier investigations carried out on the site by COWI. A number of borings from these indvestigation are included in this report.

2 Field Investigations

The field investigations have comprised borings with soil sampling and vane shear tests in the boreholes.

Placed as shown in the location plan, Enclosure No 1.1, geotechnical borings (Nos 1-12) were carried out. The boreholes were carried out as 4 inch cased borings. Remoulded samples were extracted and vane shear tests were carried out in the boreholes.

In all of the boreholes standpipes have been established, and the groundwater tables were registered 2008-04-08 just after the borings were finished. The groundwater levels are shown in Enclosure No 1.1, page 3/3.

The samples were geologically described by an engineering geologist in accordance with "Vejledning i Ingeniørgeologisk prøvebeskrivelse" /1/. Lithological descriptions included an evaluation of depositional environment and age of the sample material.

For selected samples, classification tests were executed to determine the natural moisture content w.

The positioning and levelling of the boreholes were carried out by GEO using GPS navigation system.

The boring logs with all observations and measurements are shown in Enclosure Nos 1.2-1.11. Legends and Abbreviations are shown in the enclosed GEO Standard. The supplementary logs from borings nos. GB1-GB10 and GB14-GB16 from the earlier investigations are shown in appendix 1.A

3 Soil Conditions

The area is in level +30 m to +36 m lowest in the south-eastern -, the south-western - and the north-western corner of the area.

The areas are dominated by late glacial and glacial deposits covered with top soil deposits. The top soil consists mainly of sand mull.

The top soil layer varying in thickness from 0.3 m to 1.2 m has been encountered. Beneath the topsoil glacial deposits are predominant. The deposits mainly consist of clay till, but sand till and melt water sand have also been encountered. In local places late glacial melt water sand or melt water clay has been found just beneath the fill.

In local areas in the norther and southeastern part of the area represented by borehole log 4 and GB4 (northern) and borehole log 10 (southeastern) fill has been met to a thickness of 3,5 m (northern) and 1,6 m (southeastern).

Locally just south of our borehole no 6 the investigations off COWI shows a local area with fill thicknes up to more than 5 m representing the backfilling in an old gravel pit.

4 Groundwater Conditions

The measurements in the stand pipes 2008-04-08 showed a groundwater table 0.4 m to > 3.0 m below ground level.

In periods with heavy rain the firm and dense clay till will form a nearly impervious lower boundary, and the fill and top soil will become saturated for a period of time.

The groundwater level representing the deep layers (limestone) is in approximate level +15 m to +17 m.

5 Foundation Design

5.1 General

The highest possible level suited for shallow foundation (spread foundation) is determined as the top of glacial or late glacial deposits. This level is denoted "Level 2" and shown on the location plan, Enclosure 1.1, page 2/3. "Level 3" is defined as top of firm soil layer with $c_u > 150 \text{ kN/m}^2$. It has only been possible to give this level in a few of the borings, and the level is vere difficult to identify while the borings are not very deep.

Bottom of top soil and fill constitute the proper base level for roads and floors. This level is denoted "Level 1" in the location plan.

"Level 2" is less than 0.9 m (to 1.2 m) below ground level in most of the areas. The foundation type most suitable in these areas will be a shallow foundation (spread foundation). "Level 3" is expected approximately X m below ground level.

In the local areas where fill has been detected to a thickness off 3.5 m (northern part of the area) a pile foundation would be natural if the lowest floor level is in ground level. Where fill has the thickness off 1.6 m a shallow foundation will still be suitable.

5.2 Spread Foundation

The design of the foundations must be in accordance with the European Code of Practice for Foundation engineering (EC 7) with the national Danish Anneks, ref. /2/.

In the actual soils the undrained shear strength c_u is equal to the shear strength c_ν measured in the vane shear test.

As a preliminary estimate the following characteristic strength parameters are suggested at the foundation base:

-	Undrained failure:	$c_{u,k} = 50$ to 70 kN/m ² in Level 2 $c_{u,k} > 150$ kN/m ² in Level 3
-	Drained failure:	$\phi'_{pl,k} = 37^{\circ}, c'_{u,k} = 0$ in Level 2, $\phi'_{pl,k} = 38^{\circ}, c'_{u,k} = 0$ in Level 3

The largest dimensions found by these two analyses shall be chosen.

When the projects are known, supplementary borings have to be performed to give a more precise estimate of the strength parameters.

When founded in accordance with these guidelines, the settlements are expected to be small and without structural significance, provided that the casting of the concrete in the foundations takes place on undisturbed soil (after previous cleaning of loose and softened soil).

On the basis of the ground water levels, it is our estimate that basements down to 2 m to 3 m below surface can be built with normal drain. For deeper basement, supplementary investigations (borings) have to be done.

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5.3 Pile Foundation

The pile foundation must be dimensioned as described in EC 7, cf. ref. /2/. New boreholes to the expected pile tip level must be performed.

6 Excavations

Excavation works for foundations (buildings with lowest floor at ground level) and roads are not expected to provide significant groundwater problems on the present basis. Possible groundwater flow and surface water may presumably be removed by simple drains. For deeper excavations specific soil investigations must be performed.

7 Further Investigation

When the projects are known, specific soil investigations must be performed to reduce the distance between the borings and to give a more precise estimate of the strength parameters for the soil layers. The investigations shall cover specific problems as pile foundation and groundwater problems for deep excavations etc.

8 References

- /1/A guide to engineering geological soil description.DGF-Bulletin 1, Revision 1, May 1995. Danish Geotechnical Society
- /2/ Eurocode 7 : Geotecnical design (DS/EN 1997-1) with EN 1997-1 DK NA

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	sgister		j 1, D	K2	800) L	.yngt			\neg

Test Results	(m)	Geolog	Sampi	°Z	Geological Description	Ēnv.	Age
DVR90 +33,0							
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				2	brown SAND: MULL, very clayey, sl. gravelly, non - calcareous, dark brown	Τs	Re
	- 32			з	CLAY TILL, medium plastic, sandy, w. sand streaks, non - calcareous, w. ochre, w. manganese oxide, olive brown	GI	Gc
		0	_	4	CLAY TILL, sandy, sl. gravelly, non - calcareous, brown	GI	Gc
	- 31	.0		5	CLAY TILL, very sandy, sl. graveliy, non - calcareous, w. ochre, brown	GI	Gc
				6	CLAY TILL, very sandy, sl. gravelly, non - calcareous, brown	GI	Gc
	- 30	<u>7</u> .7		7	CLAY TILL, in places medium plastic, sandy, sl. gravelly, catcareous, w. rotten stones, brown	GI	Gc
Cur Cur					Till deposits may contain cobbles and boulders		
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j =	· 28		-				
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O 10 20 30 W (%)	L						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							
4/2008			Met	hođ	: 4 inch		
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Project : VIJ Drilled by GEOURI - Date	ספ ירי י	າດຂຸ	04	07	Support Poring 9		
Executed by : CUD Checked by : Appro	()vec	i by :	 : i) //~	Date: 030422 Encl. No. 1.9		
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0 VPB0 + 30.2 1 CLAY Mult. very sandy, non - sistamenus, gain. To Into Yes, Mult., andy, non - relationed, for - sistamenus, gain. To Into Yes, Yes, Yes, Yes, Yes, Yes, Yes, Yes,	Dept	Test Resul	ts		Level	Geology	Sample	No.	Geological Description	Env,	Age
Image: Second		DVR90 +30) <u>,2</u>	, N							
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2 CLVY, MULL, andy, non - calaracus, trown Te 3 PEAT-MULL, with Several and Several Calaracus, trown Te 4 PEAT-MULL, with Several Calaracus, trown Te 5 AND TIL, alayey, gravely, calcaneus, with Several Calaracus, and Calaracus, with Several Calaracus, and Calaracus, Calaracus					+ 30		Π	1	CLAY: MULL, very sandy, non - calcareous, dark brown	Ts	Re
CVCV PEAT: MULL, w. a faw gravel grains, non- colourous, wery disk brown FW PC PEAT: MULL, w. a faw gravel grains, non- colourous, wery disk brown FW PC PEAT: MULL, w. a faw gravel grains, non- colourous, wery disk brown FW PC PEAT: MULL, wery disk brown GI Cc CLAY TILL, sandy st.gravely, calcaneous, dark GI Cc PEAT: MULL, wery disk brown GI Cc PEAT: MULL, wery disk brown <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td>2</td> <td>CLAY: MULL, sandy, non - calcareous, brown</td> <td>Ts</td> <td>Re</td>					_			2	CLAY: MULL, sandy, non - calcareous, brown	Ts	Re
BAND TILL diayey, gravelly, within grains, olive 01 Gc BAND TILL diayey, gravelly, within grains, olive 01 Gc Gravely Band Till, andy, si, gravelly, catcaneous, w. Gl Gc CLAY TILL, andy, si, gravelly, catcaneous, dark Gl Gc Current Current Current Current	1 -	CvrCv			- 29			3	PEAT: MULL, w. a few gravel grains, non - calcareous, very dark brown	Fw	Pg
2 0 10 20 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-			FILL		0		4	SAND TILL, clayey, gravelly, w. lime grains, olive grey	GI	Gc
Image: Second	2 -				- 28			5	CLAY TILL, sandy, sl. graveliy, calcareous, w. roots, dark grey	GI	Gc
Image: Second Structure Image: Second Structure <td></td> <td></td> <td></td> <td>2<u>008-04-0</u>8-11</td> <td></td> <td></td> <td></td> <td>6</td> <td>CLAY TILL, sandy, sl. gravelly, calcareous, dark grey</td> <td>GI</td> <td>Gc</td>				2 <u>008-04-0</u> 8-11				6	CLAY TILL, sandy, sl. gravelly, calcareous, dark grey	GI	Gc
Orr Or Or <t< td=""><td>3 </td><td></td><td></td><td></td><td></td><td>2.73</td><td>_</td><td>7</td><td>CLAY TILL - " -</td><td>GI</td><td>Gc</td></t<>	3					2.73	_	7	CLAY TILL - " -	GI	Gc
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$\begin{array}{c ccccc} O & 10 & 20 & 30 & W (\%) \\ \hline \Delta & 14 & 18 & 22 & \gamma & (kN/m^3) \\ \hline O & 100 & 200 & 300 & Cv, Cvr & (kN/m^2) \\ \hline \end{array}$ $\begin{array}{c ccccccccccccccccccccccccccccccccccc$					- 21						
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Maglebjergvej 1, DK2800 Lyngby	r- PS1	Executed by : CUD	Checked	by: App	rove	d by	: ,	$\nu \epsilon$	Date : 050702 Encl. No.: 1.10	P. 171	
	agister	\square		Maglebjergvej 1	, DK	2800) L	yngb	y Drofilo		

Dept	Test Results	3		Level (m)	Geology	Sampl	Ň	Geological Description	Ēnv	Age
	DVR90 +30,	<u>4</u>	1							
1-		2005	<u>9504-6</u> 8	- 30	B		1 2 3	 FILL: SAND: MULL, very clayey, sl. gravelly, non - calcareous, very dark brown FILL: SAND, very clayey, sl. gravelly, rich in ochre, w. clayey streaks, dark yellowish brown FILL: SAND, fine - medium, poorly sorted, w. a few clayey streaks, olive brown 	Fi Fi Fi	Re Re Re
-	w			· 29			4	FILL: SAND, fine - medium, poorly sorted, gravelly, calcareous, greyish brown	Fi	Re
2-	Cvr Cv Φ φ φ 1 φ φ 1			28			5	CLAY TILL, very sandy, sł. graveliy, calcareous, olive grey	GI	Gc
-		DANSA		20			6	CLAY TILL, sandy, sl. gravelly, calcareous, grey	Gl	Gc
3-	a wa	Staba			<u>7</u> .73		7	CLAY TILL, very sandy, sl. gravelly, calcareous, grey	GI	Gc
-	Çvr			27				Till deposits may contain cobbles and boulders		
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04/2008						Me F·	thod	: 4 inch		
10 - 22v	Job : 31373	Egespurs All	le. Hillerø	od.	<u></u>					\exists
GUK 2	Project : VIJ	Drilled by :GEO JE.	J Date:	: 20	008-	04-	07	Synonym: Boring:10		
r - PST	Executed by : CUD	Checked by : 🧷		vec	i by	:	v	3 Date : 080 425Encl. No.: 1.11	P. 171	
BRegiste	GEO	Magle tlf.: +4	ebjergvej 1, 45 4588 444	DК: 4 ,	2800 fax.:) Ly : +4	ngt 5 4	y Profile		

Depth	Test Results	Level	Geology	Sample	ő	Geological Description	Env.	Age
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5-		- 30						
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2/04/2008 10:51				M E	ethod : 918	: 4 inch 99 (m) N : 167889 (m) Location plan :		
(2.0 - 2	Job : 31373 Egespurs Alle. Hiller	ød						
stauk	Project : VIJ Drilled by : GEO JEJ Date	: 2	008-	04	1-07	Synonym: Boring:11		s I
stor - P	Executed by : CUD Checked by : 19 Appro		d by	: 	00	S Date : 080 122 Encl. No.: 1.12	P. 171	
BHegt	E Image: Second se	14 ,	∠o∪t fax.:	,∟ .+	yngt 45 4	Profile		

Depth	Test Results		(m) (m)	Geology	Sample	Ňo	Geological Description	Age
	DVR90 +35,4	<u>4</u> 1						
0	Cvr Cv O Q Q Cvr Cv O Cvr Cv O	FILL	- 35 - 34			1 2 3	SAND: MULL, clayey, sl. gravelly, non - Ts F calcareous, mørk brunt SAND, clayey, w. a few gravel grains, non - Mw/ C calcareous, brown Gi CLAY TILL, sandy, sl. gravelly, non - calcareous, Gi brown SAND, fine - medium, sorted, w. clayey parts, non - Mw G calcareous, yellowish brown	
2-		DANSAND II	· 33			5 6 7	 SAND, medium, sorted, w. a few gravel grains, w. Mw Gravey parts, non - calcareous, dark yellowish brown SAND, medium, well sorted, non - calcareous, Mw Gravellowish brown SAND, medium, poorly sorted, sl. gravelly, non - Mw Gradareous, yellowish brown 	àc àc àc
4 -			31				Till deposits may contain cobbles and boulders	
ô -			30					
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08 14:23:18	Ο 10 Δ 14 Ο 100	20 30 W (%) 18 22 γ (kN/m³) 200 300 Cv,Cvr (kN/m²)	/m²)					
legister - PSTGUK 2.0 - 22/04/20	Job : 31373 Project : VIJ Executed by : CUD	Egespurs Alle. Hillerø Drilled by :GEO JEJ Date : Checked by : Appro Maglebjergvej 1, 1	3d : 20 	280(.04 .04 .02	1-07	1: 4 Inch 39 (m) N: 167820 (m) Location plan : 39 (m) N: 167820 (m) Location plan : Synonym : Boring : 12 Date : CEUG22 Encl. No.: 1.13 Py Profile	

Appendix 1.A GEO Sag no. 31373

Borehole logs GB1-GB10 and GB14-GB16 from COWI investigations 13 pages, size A4

Dybce	Forsøgsresuitater	Kote	Geolog	Prove		Jordant Karakterisering	Mejrmg Mcer	rost	(aik
	DNN +34,3							Lin	
0-		- - 34			1	SANDMULD, leret, mørk gråbrunt	Ov Re		
					2	SANDMULD .*-	Ov Re		-
1 -	Cv Cv <u>020215</u>	- 33			з	SAND, fint til mellemkornet, siltet, gråbrunt	Sm/ Sg/ GI Gc		-
-			0	_	4	MOR/ENESAND, siltet, grábrunt	GI Gc		-
2-		- 32	0		5	MORÆNESAND - " -	GI G¢		•
	or cvr cv line line line line line line line line	-			6	SAND, fint til grovkornet, ringe sorteret, med enkelte organiskholdige sorte pletter, brunt	Sm Gc		-
3-		- 31			7	SAND, fint til grovkomet, ringe sorteret, brunt	Sm Ge		-
1		1			8	SAND - " -	Sm Gc		-
4-		30		1	9	SAND, fint til grovkomet, ringe sorteret, rødbrunt	Sm Gc		-
					10	SAND -".	Sm Gc		-
5-		29			11	SAND, fint til grovkornet, ringe sorteret, gråbrunt	Sm Gc		-
					2	SAND - " -	Sm Gc		-
δ-		28	<u>:: </u>	1	3	SAND - "-	Sm Gc		-
-									
7-		27							
-									
8-		26							
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adore.	Strækning: Boret af : COWI FIAX Dato :		200	020	130	DGU-nr.: Boring : (3B1		
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			Ho.			and a set and the letter parter	, Drumt Gi	G¢		-
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					4	MORÆNELER, sandet, brunt	GI	G¢		
2-					5	MORÆNELER, sandel, med sanded	- GI	Go		-
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or a ve	Say: 54948 Hønnekrogen, Hillerød									
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Ω (Sec. Sec. 2	~~ p. 1 ~ ~ 1	CON.		the second

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2-		- 34			5	MORÆNELER, stærkt sandet, gråbrunt	GI	G¢		-
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4 -		- 32	رور المرو رور ال		ទ	SAND, fint til mellemkomet, ieret, siltet, gruset, gråbrunt	Sm	Ge		-
			77- 177	-	10	SAND, fint til mellemkomet, stærkt leret, siltet, gråt	Sm	Gc		-
5~		31	70		11	SAND, fint til mellemkornet, løret, siltet, gråt	Sm	Gc		-
					12	MORÆNELER, sandet, gruset, gråbrunt	GI	Gc		+
6-		30	<u></u> _		13	SAND, fint til mellemkornet, ringe sortere mørkebrunt	t, Smr	Gc		-
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1       2       SAND, Brit II mellemicornet, sillet, gruset.       Ov Re         2       3       3       3       SAND, Brit II mellemicornet, sillet, gruset.       Ov Re         3       3       3       3       SAND, Brit II mellemicornet, sillet, gruset.       Ov Re         3       3       3       SAND, Brit II mellemicornet, sillet, gruset.       Ov Re         3       3       33       SAND, Brit II mellemicornet, sillet, gruset.       See See Section         3       3       33       Sand.       Sand.       Section         4       3       33       Sand.       Sand.       Section         5       3       33       Sand.       Sand.       Section       Section         5       3       33       33       Sand.       Section       Section       Section         6       3       30       30       Section	0-				IN				7	SANDMULD, mørk gråbrunt	41- 2011-2010-00-7-9 (Page Section 2011-2011-2011-2011-2011-2011-2011-2011		Bel	******	
1       3       SAND, fint il mellomkomet, silket, gruzet.       Ov Re         2       3       SAND, fint il mellomkomet, silket, gruzet.       Sm Seg         2       3       SAND, fint il mellomkomet, silket, gruzet.       Sm Seg         3       SAND, fint il mellomkomet, silket, gruzet.       Sm Seg         3       SAND, fint il mellomkomet, silket, gruzet.       Sm Seg         3       SAND, fint il mellomkomet, silket, gruzet.       Sm Seg         3       SAND, fint il mellomkomet, silket, gruzet.       Sm Seg         3       SAND, fint il mellomkomet, silket, gruzet.       Sm Seg         3       Sando, fint il mellomkomet, silket, gruzet.       Sm Seg         3       Sando, fint il mellomkomet, silket, gruzet.       Sm Seg         3       Sando, fint il mellomkomet, silket, gruzet.       Sm Seg         3       Sando, fint il mellomkomet, silket, gruzet.       Sm Seg         3       Sando, fint il mellomkomet, silket, gruzet.       Sm Seg         3       Sando, fint il mellomkomet, silket, gruzet.       Sm Seg         4       Sando, fint il mellomkomet, silket, gruzet.       Sm Seg         5       Sando, fint il mellomkomet, silket, gruzet.       Sm Seg         6       10       20       20         7						-   ₃́		$\left  \right $	2	SAND, fint til mellemkornet, ler muldet, brunt	ret, gruset,	Οv	Re		
2       4       SAND, fint ill mullemkomet, siltet, gruset, Sm Sg         2       4       SAND, fint ill mullemkomet, siltet, lysebrunt Sm Sg         3       4       5         4       5       SAND, fint ill mullemkomet, siltet, lysebrunt Sm Sg         3       5         4       5         5       SAND, fint ill mullemkomet, siltet, lysebrunt Sm Sg         5       SAND, fint ill mullemkomet, siltet, lysebrunt Sm Sg         5       SAND, fint ill mullemkomet, siltet, lysebrunt Sm Sg         5       SAND, fint ill mullemkomet, siltet, lysebrunt Sm Sg         5       SAND, fint ill mullemkomet, siltet, lysebrunt Sm Sg         5       SAND, fint ill mullemkomet, siltet, lysebrunt Sm Sg         5       Sand         6       Sand         6       Sand         7       22         6       22         7       22         7       22         7       22         7       22         8       22         9       22         9       22         9       22         9       22         9       22         9       22	1 -				$\neg$		0		3	SAND, fint til mellemkornet, sil svagt muldet, brunt	tet, gruset.	Ōv	Re		-
2         3         3         5         SAND, lint 81 mallorekomet, silter, lysebrunt Sm Sg           3         3         3         3         3         3           4         3         3         3         3         3           4         3         3         3         3         3           4         3         3         3         3         3           4         3         3         3         3         3           4         3         3         3         3         3           5         5         5         5         5         5           6         1         1         1         1         1         1           6         10         20         30         w(%)         1         1         1           9         100         200         300         0.0         0.0         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1		Cv			$\neg \square$	- 33	.0.5? 		4	SAND, fint til mellemkornet, silt lysebrunt	et, gruset,	Sm	Sg		-
3       3       32         4       3       33         4       3       33         5       3       33         6       3       30         7       30       30         8       30       30         9       30       30         9       30       30         9       30       30         9       30       30         9       10       20         9       10       20         9       100       200         9       100       200         9       100       200         9       100       200         9       100       200         9       100       200         9       100       200         9       100       200         9       100       200         9       100       200         9       100       200         9       100       200         9       100       200         9       100       200         9       100       100	2-			<u> </u>	k				5	SAND, fint til mellemkornet, silt	et, lysebrunt	Sm	Sg		<b>(</b> +
3       3       3       3         4       3       3       3         3       3       3       3         4       3       3       3         4       4       4       4         5       4       4       4         4       4       4       4         5       4       4       4         6       10       20       30       w(3)         4       18       22       (NNm)         6       100       200       300       curve (leWm)         8       100       200       300       curve (leWm)         9       100       200       300       curve (leWm)         9       100       200       300       curve (leWm)         9       100						- 32									
A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       A       Boremotode : Hándboring       X: 91783 (m)       Y: 107841 (m)       Plan :       X: 91783 (m)       Y: 107841 (m)       Plan :       X: 91783 (m)       X: 917	з-					-									
a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a       a	-					- 31									
30       30       30       30         31       30       30       28         32       30       28         33       30       28         34       30       28         35       30       28         36       30       28         37       30       28         38       30       28         39       30       28         30       30       28         31       30       28         32       27       28         31       30       28         32       7       20         30       300       0.00         300       200       300         300       200       300         200       300       0.00         200       300       0.00         200       300       0.00         200       300       0.00         200       300       0.00         200       200       200         200       200       200         200       200       200         200       200       200 <td>4 -</td> <td></td>	4 -														
0       10       20       30       w (%)         0       10       20       300       cv,Ovr (kN/mp)         0       100       200       300       cv,Ovr (kN/mp)         0       100       10       10       10	1					· 30									
0       10       20       30       w (%)         28       27       28       28         0       10       20       30       w (%)         0       100       200       300       CV, CVr (dW/m?)         0       100       200       300       CV (Vr (dW/m?)         0       100       200       300       CV (Vr (dW/m?)         0       100       100       100       100         100       200       300       CV (W (M?)       100         100       200	5 -														
0       10       20       30       w (%)         0       100       200       300       cv.ovr.dtkVm?)         0       100       200       300       cv.ovr.ovr.dtkVm?)         0       100       200       300       cv.ovr.ovr.dtkVm?)         0       100       200       300       cv.ovr.ovr.dtkVm?)	ļ					29									
O       10       20       30       w (%)         O       10       20       30       w (%)         A       14       18       22       7 (kN/m²)         ©       100       200       300       Cv.Cvr. (kN/m²)         Boremetode : Håndboring       x : 91723 (m)       Y : 167821 (m)       Plan :         Sag : 54948       Rønnekrogen, Hillerød       Boret af : COWI FIAX       Dato :       20020128       DGU-nr.:       Boring : GE9         Udarb. af : VK3       Kontrol :       Kontrol :       Kontrol :       Kim Dato : 14, 02, 2002       Bilag : 11       9 1/1	3-		·····												
O       10       20       30       w (%)         A       14       18       22       7 (kN/m?)         Image: Seg : 54948       Rønnekrogen, Hillerød       Boremetode : Håndboring X: 91723 (m)       Y : 167821 (m)       Plan :         Sag : 54948       Rønnekrogen, Hillerød       Strækning:       Boreit af : COWI FIAX       Dato :       20020126       DGU-nr.:       Boring : GB9         Udarb. af : VKJ       Kontrol :       Mark Mark Godkendt :       JM       Dato : 14. 02. 2002       Bilag : 11       9 1/1	_					28									
O       10       20       30       w (%)         A       14       18       22       7 (kV/m²)         O       100       200       300       CV,CVr (kV/m²)         Boremetode : Håndboring       X : 91723 (m)       Y : 167821 (m)       Plan :         Sag : 54948       Rønnekrogen, Hillerød       Boremetode : Måndboring       X : 91723 (m)       Y : 167821 (m)       Plan :         Sag : 54948       Rønnekrogen, Hillerød       Borent of : COWI FIAX       Dato : 20020128       DGU-nr.:       Boring : GB9         Udarb. af : VKJ       Kontrol :       VKm² (Godkendt : JHM)       Dato : 14. 02. 2002       Bitag : 11       9 1/1	, -														-
O       10       20       30       w (%)         A       14       18       22       r (kt/rm?)         Image: Second Streakning:       200       300       Cv,Cvr (kt/rm?)         Boremetode:       Håndboring         X: 91723 (m)       Y: 167821 (m)       Plan :         Sag:       54948       Rønnekrogen, Hillerød         Strækning:       Boret af: COWI FIAX       Dato :       20020128       DGU-nr.:       Boring : GB9         Udarb. af:       VK.J       Kontrol :       Kentrol :       H/m       Dato : 14, 02, 2002       Bilag : 11       9 1/1						27									
O       10       20       30       w (%)         A       14       18       22       7 (kN/m²)         Image: Non-A       14       18       22       7 (kN/m²)         Image: Non-A       14       18       22       7 (kN/m²)         Image: Non-A       100       200       300       CV, Cvr (kN/m²)         Image: Non-A       100       200       300       CV, Cvr (kN/m²)         Image: Non-A       100       200       300       CV, Cvr (kN/m²)         Image: Non-A       Non-A       Non-A       Non-A       Non-A         Sag : 54948       Rønnekrogen, Hillerød       Strækning:       Boret af: COWI FIAX       Dato :       20020128       DGU-nr.:       Boring : GE9         Udarb. af: VK.j       Kontrol :       Km/ma       Godkendt :       M       Dato : 14.02.2002       Bilag : 11       9 1/1	-			NI											
O       10       20       30       w (%)         A       14       18       22       y (kN/m²)         Image: Sag : 54948       Rønnekrogen, Hillerød         Strækning :       Boret af : COWI FIAX       Dato :       20020128       DGU-nr.:       Boring : GB9         Udarb. af : VKJ       Kontrol :       Kan bog Godkendt :       Hm       Dato : 14.02.2002       Bilag : 11       9 1/1						26									
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	]			<u> </u>											
A       14       18       22       r (kN/m³)         Image: 100       200       300       Cv, Cvr (kN/m²)         Boremetode : Håndboring       X: 91723 (m)       Y: 167821 (m)       Plan :         Sag : 54948       Rønnekrogen, Hillerød         Strækning :       Boret af : COWI FIAX       Dato :       20020128       DGU-nr.:       Boring : GB9         Udarb. af : VKJ       Kontrol :       Kontrol :       Kontrol :       J/J/M       Dato : 14. 02. 2002       Bilag : 11       9 1/1		0 10	20	30	w (%)										
Boremetode : Håndboring X : 91723 (m) Y : 167821 (m) Plan : Sag : 54948 Rønnekrogen, Hillerød Strækning : Boret af : COWI FIAX Dato : 20020128 DGU-nr.: Boring : GB9 Udarb. af : VKJ Kontrol : Kan bog Godkendt : JHM Dato : 14.02.2002 Bilag : 11 9 1/1	E0:02	<u>∆ 14</u> 100	18 200	22 300	γ (kN/m³) Cv,Cvr (kN/	'm²)									
X:91723 (m)         Y:167821 (m)         Plan:           Sag: 54948         Rønnekrogen, Hillerød           Strækning:         Boret af: COWI FIAX         Dato:         20020128         DGU-nr.:         Boring: GB9           Udarb. af: VKJ         Kontrol:         Kontrol:         Kontrol:         MM         Dato:         14.02.2002         Bilag:         11         9.1/1	2002 16:0				·····			Bore	meto	de : Hándboring					
Strækning:       Boret af : COWI FIAX       Dato :       20020128       DGU-nr.:       Boring : GB9         Udarb. af :       VKJ       Kontrol :       Kontrol :       Kontrol :       Image: GB9         Udarb. af :       VKJ       Kontrol :       Kontrol :       Image: GB9         Udarb. af :       VKJ       Kontrol :       Kontrol :       Image: GB9         UMATI A       Kontrol :       Kontrol :       Kontrol :       Image: GB9	20/21 - 0	Sag : 5/19/18	Bannal		1.1711 1		_  ×	(:9	1723	(m) Y : 167821 (m) P	lan :				
Udarb. af: VKJ Kontrol: Kan Dop Godkendt: JHM Dato: 14.02.2002 Bilag: 11 9 1/1	FDK2.	Strækning :	Boret af :	uogen, COWI Fi≙	rnnefød X Dato∙		20	iú o r	ነፋውና	- DOH	<b>N ·</b> ·	_			
САМЛ А /C	PSTO	Udarb. af : VKJ	Kontrol :	Var V.	M Godke	भाराः	ںے 14	uzi Inn	122	$= \frac{1}{12} - \frac{1}{12} + \frac{1}{12$	oring : G	B9			
	- agipter	COWTAK	n a fa f				, , , , , , , , , , , , , , , , , , ,				nag: 11	9 	1/1		

÷*

Dybde	Forsøgsresultater	ii cole	Geolog	Prove	Nr.	Jordart Karakteriser	ing ar	Alder	Frost	Katk
0 1 2 3 4 5 6 7 8	DNN +33,2         Cv       V         Qv       V       V         Qv       V       V         Qv       V       V         Qv       V       V       V         Qv       V       V       V         Qv       V       V       V         Qv       V       V       V       V         Qv       V       V       V       V         Qv       V       V       V       V       V         Qv       V       V       V       V	- 32 - 32 - 32 - 32 - 32 - 32 - 32 - 32			1 2 3 4 5	Jordart Karakteriser SANDMULD, leret, mork grå SAND, fint til mellemkomet, s MOR/ENELER, sandet, med partier, brunt MOR/ENELER, ret fed, brunt MOR/ENELER -*-	ing igg	Fe GC GC		
9]		24								
2.0 - 13/02/2002 16:08:38	O         10         20         30         w (%)           Δ         14         18         22         γ (kN/m ³ )           ©         100         200         300         Cv,Cvr (kN/m ³ )           Sag :         54948         Bønnekrogen, Hillerad	'm²)		) 00re ( : S		ode : Tørboring med foring 2 (m) Y : 167825 (m)	Plan :		<u> </u>	
guster - PSTGFDK 2	Strækning:       Boret af: COWI FIAX       Dato:       20020129       DGU-nr.:       Boring: GB10         Udarb. af:       VK2       Kontrol:       Kontrol:									
িলি <i>জ</i>	Boreprofil									

Dybde	Forsogsresultater	Kote	Geolog Geolog	Prove	, internet	Jordart Karakterisering		Frost	Kalk	
	DNN +34,3	Non-American Statements of Concession And American Statements								
07	Cv		1:5		1	SANDMULD lovet erund and		- 	<u> </u>	
1		r 34			2	SAND. svant leret, sittet, brust	Ov Re		-	
		ļ	,				եր են			
1-					3	SAND, leret, siltet, gruset, brunt	Sm/ Sg/ Gl Gc		-	
-		- 33			4	SAND, fint til mellemkomet, siltet, brugt	Sml Sal			
							GI GC		•	
2-		_ 20	<u>ð</u>		5	SAND, fint til mellemkornet, siltet, svagt gruset, brunt	Sm/ Sg/ Gl Gc		-	
		- 32								
3-		. 01								
		- 31								
4		30								
-										
3		20								
1		~ 3								
"		28								
-		20								
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		27								
1										
8-										
		26								
1										
J										
	-	25								
	O 10 20 30 w (%)			L					_	
	$\Delta  14  18  22  \gamma \; (kN/m^3)$									
:12:47	100 200 300 Cv, Cvr (kN/	m³)	_							
002 1G			,		met					
13/02/2				(:9	1604	L(m) Y : 167909 (m) Plan :				
¢ 2.0 - 1	Sag: 54948 Rønnekrogen, Hillerød								=	
TGFDF	Strækning : Boret af : COWI FIAX Dato :		20	1020	0129	) DGU-nr.: Borina :	GB14			
0 4 - 2	Udarb. al : VKJ Kontrol : Kippe Godke	ndt	://	m	<u>.</u>	Dato: 14.02.2002 Bilag: 16	S. 17	ì		
13 Fan (1814	COWI A/S Boreprofil									

Dybde	Forsøgsresultater	Kata Kata	Geolog Prove	Mr.	Jordan Karakterisering	Attering	Frost	Kaik			
	DNN +32.9							outron of the Villeman Ville			
0		32		1 2 3	SANDMULD, løret, mørk gråbrunt LERMULD, stærkt sandet, mork gråbrunt LER, sandet, brunt	Ov Fle Ov Re Sm/ Sg/ Gl Gc		-			
2-		- 31		4 5	LER, ret fed, sandet, brunt SAND, finkornet, siltet, brunt	Sm/ Sg/ Gl Gc Sm/ Sg/		-			
	Sten - Vinge afvist Sten - Vinge afvist			6	MOR/ENELER, sandet, gruset, brunt	GI GC		*			
3-	Cvr // B20212 O Stan - Vinge afvist Stan - Vinge afvist			7 8	SAND, siltet, stærkt leret, brunt MORÆNELER, sandet, brunt	Sm/ Sg/ GI Gc		+			
4-		- 29		8A .9	MORÆNELER, med parti af fed ler, gråbrunt LER, ret fed, domineret af sandede partier, brunt	GI GC Sm Gc	(	+ (+)			
5~	Cvr Cvr	28		10	SAND, fint til mellemkornet, slitet, med lerslirer, brunt SAND - " -	Sm Gc Sm Gc	(	(+)			
6-		27	•	12 13	SAND, fint til mellemkornet, sorteret, brunt SAND, fint til mellemkornet, slitet, med	Sm Gc Sm Gc	(·	+)			
8-		26			Ionsiner, Drum						
9-		24					A subject of the second state of the second st				
5:14:01 	O         10         20         30         w (%)           Δ         14         18         22         γ (kN/m³)           ■         100         200         300         Cv,Cvr (kN/m²)	<u> </u> (m²)	Poji	erør:	: ơ63 mm						
13/02/2002 16			Bore X:6	3met 9162	ode : Terboring med foring 0 (m) Y : 167981 (m) Plan ;						
- 0.2 MO40164 - 100	Sag: 54948       Rønnekrogen, Hillerød         Strækning:       Boret af: COWI FIAX       Dato::       20020129       DGU-nr.:       Boring: GB15         Udarb. af: VKJ       Kontrol:       Kan / Doc Godkendt:       HM       Dato::       74.02.2002       Bilag: 17       5.1/1										
274	Boreprofil										

Dybde	Forsøgsresultater	Kote	Geolog	Prove	, in the second s	Jordari Karakterisering	Allejning	Alder	Frost	Kalk	
	DNN +35,5	and any source of the second					*********			- Airi	
		- 33 - 33 - 33 - 33 - 31 - 31 - 31 - 31			1 2 3 4 5 6 7 8 9	<ul> <li>FYLD: SAND, stzerkt leret, svagt gruset, med kalkstykker, med teglstykker, mork gråbrunt</li> <li>FYLD: SAND, leret, svagt gruset, med kalkstykker, mork gråbrunt</li> <li>SAND, fint til mellemkornet, siltet, gråbrunt</li> <li>SAND, fint til mellemkornet, leret, siltet, gråbrunt</li> <li>MORÆNELER, sandet, brunt</li> <li>MORÆNELER -*-</li> <li>MORÆNELER -*-</li> </ul>	Fy Fy GI Sm GI GI GI GI	Fe Fe SGc SGC GC GC GC GC		* * * * * * * *	
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		- P	ojie	rør:	ø25 mm			A SAMPLE AN A SAMPLE AND A SAMPLE AN		
13/02/2002 10:14:57	Image: 100         Image: 200         Image: 300         Cv, Cvr (kN/m²)           Boremetode : Torboring med foring         X : 91643 (m)         Y : 167922 (m)         Plant										
SAME - PSTGFOK 2,0 -	Sag: 54948       Rønnekrogen, Hillerød         Strækning:       Boret af: COWI FIAX       Dato::       20020131       DGU-nr.:       Boring::       Boring::       GB16         Udarb. af:       VK.)       Kontrol:       Kail       McGodkendt::       Mg       Dato::       14.02.2002       Bilag::       18       3.1/1										
-est	NANT WA					Borep	rof	a kunantira			

ф 1



#### Signatur:



Geotechnical boring a: Borehole no. b: Level 2 (m below ground level) Top of glaciale & late glaciale deposits



Local area where fill thickness is more than 1.5 m

y nisk.dk	Project:	31373 Ege	spurs Allé. I	Hillerød		
21	Subject:	Site plan. 1	op gladiale	deposit	S	
22	Scale	1:2000			Page	1/3
22	Report	1	Enclosure	1.1	Rev.	0
	AMR-DELL-PWS	370 AMR	2008-04-22		15:19:15	





y nisk.dk	Project:	Project: 31373 Egespurs Allé. Hillerød								
21	Subject:	Site plan. L	evels							
-22	Scale	1:2000			Page	2/3				
22	Report	1	Enclosure	1.1	Rev.	0				
	AMR-DELL-PWS	370 AMR	2008-04-22		15:21:00					







Geotechnical boring a: Borehole no. b: Ground water level 2008-04-08 (m below ground level)

y nisk.dk	Project:	31373	8 Ege	spurs Allé.	Hillerød		
21	Subject:	Site p	lan. (	Ground wat	er level		
22	Scale	1:200	0			Page	3/3
22	Report	1		Enclosure	1.1	Rev.	0
	AMR-DELL-PWS	370 A	MR	2008-04-22		15:22:35	