DANMARKS OG GRØNLANDS GEOLOGISKE UNDERSØGELSE RAPPORT 2008/22

Datarapport: Kornstørrelsesfordeling

Laboratorie analyser for Danmarks Fiskeriundersøgelser

K. Fries & I. Nørgaard

DE NATIONALE GEOLOGISKE UNDERSØGELSER FOR
DANMARK OG GRØNLAND, KLIMA- OG ENERGIMINISTERIET

G E U S

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GEUS

Stationsskema Tobis "Pernille kim" togt <L151> december 2007

POS	Station	Redskab	Start DK tid	Slut DK tid	Start N lat	min	1000	Start E lon	min	sek
3861,32	1	Vvny			54	59	260	1	50	820
3861,32	2	Vvny			54	59	260	1	50	860
3961,28	11	Vvny			55	4	520	1	22	850
3961,28	12	Vvny			55	4	510	1	22	860
3961,29	17	Vvny			55	1	40	1	21	100
3961,29	18	Vvny			55	1	50	1	21	100
3861,14	23	Vvny			54	50	920	1	26	10
3861,14	24	Vvny			54	50	900	1	26	30
3761,08	33	Vvny			54	11	370	1	34	495
3761,08	34	Vvny			54	11	370	1	35	50
3760,05	39	Vvny			54	19	30	0	55	760
3760,05	40	Vvny			54	19	50	0	55	777
3760,04	45	Vvny			54	15	660	0	47	910
3760,04	46	Vvny			54	15	710	0	47	920
2006jens2	50	Vvny			54	12	900	0	47	930
2006jens2	51	Vvny			54	12	870	0	47	960
3861,02	55	Vvny			54	39	933	1	7	10
3861,02	56	Vvny			54	39	880	1	7	70
3861,19	60	Vvny			54	34	0	1	15	960
3861,19	61	Vvny			54	33	950	1	15	970
3861,22	70	Vvny			54	32	300	1	34	200
3861,22	71	Vvny			54	32	340	1	34	210
3861,23	78	Vvny			54	32	740	1	37	330
3861,23	79	Vvny			54	32	740	1	37	330
3761,04	86	Vvny			54	28	50	1	59	10
3761,04	87	Vvny			54	28	40	1	59	20
3963,01	92	Vvny			55	6	270	3	28	260
3963,01	93	Vvny			55	6	270	3	28	270
3963,04	100	Vvny			55	15	800	3	43	530
3963,04	101	Vvny			55	15	820	3	43	770
2006jens1	106	Vvny			55	23	170	3	50	500
2006jens1	107	Vvny			55	23	180	3	50	520
3964,01	112	Vvny			55	25	150	4	3	900
3964,01	113	Vvny			55	25	140	4	3	880

3964,02	118 Vvny	55	24	970	4	18	970
3964,02	119 Vvny	55	24	990	4	18	960
3964,03	124 Vvny	55	28	980	4	24	520
3964,03	125 Vvny	55	29	10	4	24	520
4065,01	130 Vvny	55	46	890	5	3	860
4065,01	131 Vvny	55	46	920	5	3	850
4065,02	136 Vvny	55	53	430	3	8	950
4065,02	137 Vvny	55	53	430	3	9	30
4065,04	142 Vvny	55	59	910	5	18	210
4065,04	143 Vvny	55	59	930	5	18	330
4165,01	148 Vvny	56	1	730	5	15	570
4165,01	149 Vvny	56	1	740	5	15	680
4165,02	154 Vvny	56	3	720	5	17	190
4165,02	155 Vvny	56	3	720	5	17	430
4267,12	161 Vvny	56	56	550	7	25	760
4267,12	162 Vvny	56	56	550	7	25	760
4267,27	167 Vvny	56	54	740	7	36	260
4267,27	168 Vvny	56	54	760	7	36	310
4267,25	173 Vvny	56	58	980	7	41	920
4267,25	174 Vvny	56	58	990	7	41	960
4367,23	179 Vvny	57	4	840	7	40	350
4367,23	180 Vvny	57	4	840	7	40	350
4367,16	185 Vvny	57	5	440	7	26	330
4367,16	186 Vvny	57	5	450	7	26	400
4367,02	193 Vvny	57	2	540	7	0	310
4367,02	194 Vvny	57	2	530	7	0	360
4264,05	199 Vvny	56	39	820	4	24	810
4264,05	200 Vvny	56	39	840	4	24	860
4264,03	210 Vvny	56	40	50	4	9	90
4264,03	211 Vvny	56	40	120	4	8	980
4264,02	217 Vvny	56	48	750	3	42	790
4264,02	218 Vvny	56	48	840	3	42	800
4463,05	224 Vvny	57	38	710	3	5	200
4463,05	225 Vvny	57	38	630	3	5	170
4463,03	229 Vvny	57	45	50	3	40	180
4463,03	230 Vvny	57	45	70	3	40	170

4464,04	234	Vvny	57	43	520	4	19	90
4464,04	235	Vvny	57	43	530	4	19	120
4464,05	241	Vvny	57	38	710	4	18	720
4464,05	242	Vvny	57	38	750	4	18	790
4364,07	250	Vvny	57	18	170	4	33	900
4364,07	251	Vvny	57	18	160	4	33	960
4365,08	252	Vvny	57	7	800	5	13	70
4365,08	253	Vvny	57	7	770	5	13	40
4365,04	259	Vvny	57	8	480	5	28	500
4365,04	260	Vvny	57	8	450	5	28	430
4365,01	265	Vvny	57	15	260	5	31	510
4365,01	266	Vvny	57	15	250	5	31	510
4366,06	271	Vvny	57	6	90	6	7	170
4366,06	272	Vvny	57	6	40	6	7	90
2007jens1	277	Vvny	57	4	420	6	41	270
2007jens2	278	Vvny	57	4	390	6	41	190

Prøvebehandling

GEUS har foretaget analyser på 86 sedimentprøver fra tobistogt <L151> december 2007.
Ved modtagelsen af prøverne er de blevet registreret med følgende 5 kategorier:

- dato
- lokalitet
- fortløbende laboratorienummer
- rekvirent
- analysekrav

Analysemetoder

Sigteanalyse:
Totalprøven er tørret og sigtet gennem en sigtesøjle fra 32 mm ned til 0,063 mm med ½ phi intervaller, hvilket svarer til 16 sigter. Metoden er tillempet i forhold til DS 405.9 idet der er indføjet flere sigter end der beskrives i denne standard.
Kornkurven:
Som udgangspunkt for kornkurvestørrelsesanalysen er anvendt DS 405.9.

Resultater

I bilag 1 er vist kornkurven for sedimentprøverne. Kornkurven viser fordeling af sand, silt og ler i prøverne.

Referencer

Dansk Standard DS 405.9. Kornstørrelsesfordeling bestemt ved sigteanalyse. Dansk Standardiseringsråd, Kbh. 1978.

Bilag 1

Grain Size Distribution

Geotechnical

Sample Id: Station 1
Lab. Id: 080014
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 110,99 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,11	0,10	99,90
Sand	1,00	0,00	0,13	0,12	99,78
Sand	0,710	0,49	0,40	0,36	99,42
Sand	0,500	1,00	1,12	1,01	98,41
Sand	0,355	1,49	3,16	2,85	95,57
Sand	0,250	2,00	11,21	10,10	85,47
Sand	0,180	2,47	48,10	43,34	42,13
Sand	0,125	3,00	41,92	37,77	4,36
Sand	0,090	3,47	3,04	2,74	1,62
Sand	0,075	3,74	0,25	0,23	1,40
Sand	0,063	3,99	0,10	0,09	1,31
	< 0,063	> 3,99	1,45	1,31	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,31
Sand, fine	(0,063 mm - 0,200 mm):	53,21
Sand, medium	(0,2 mm - 0,6 mm):	44,38
Sand, coarse	(0,6 mm - 2 mm):	1,11
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,35	1,52
16%	84%	0,25	2,01
25%	75%	0,23	2,10
40%	60%	0,21	2,26
Median 50%	50%	0,19	2,38
75%	25%	0,16	2,69
84%	16%	0,14	2,82
90%	10%	0,13	2,91
95%	5%	0,13	2,99

Moments Statistics

Mean	2,40
Sorting	0,42
Skewness	-0,03
Kurtosis	1,03
Uniformity Coefficient	1,57

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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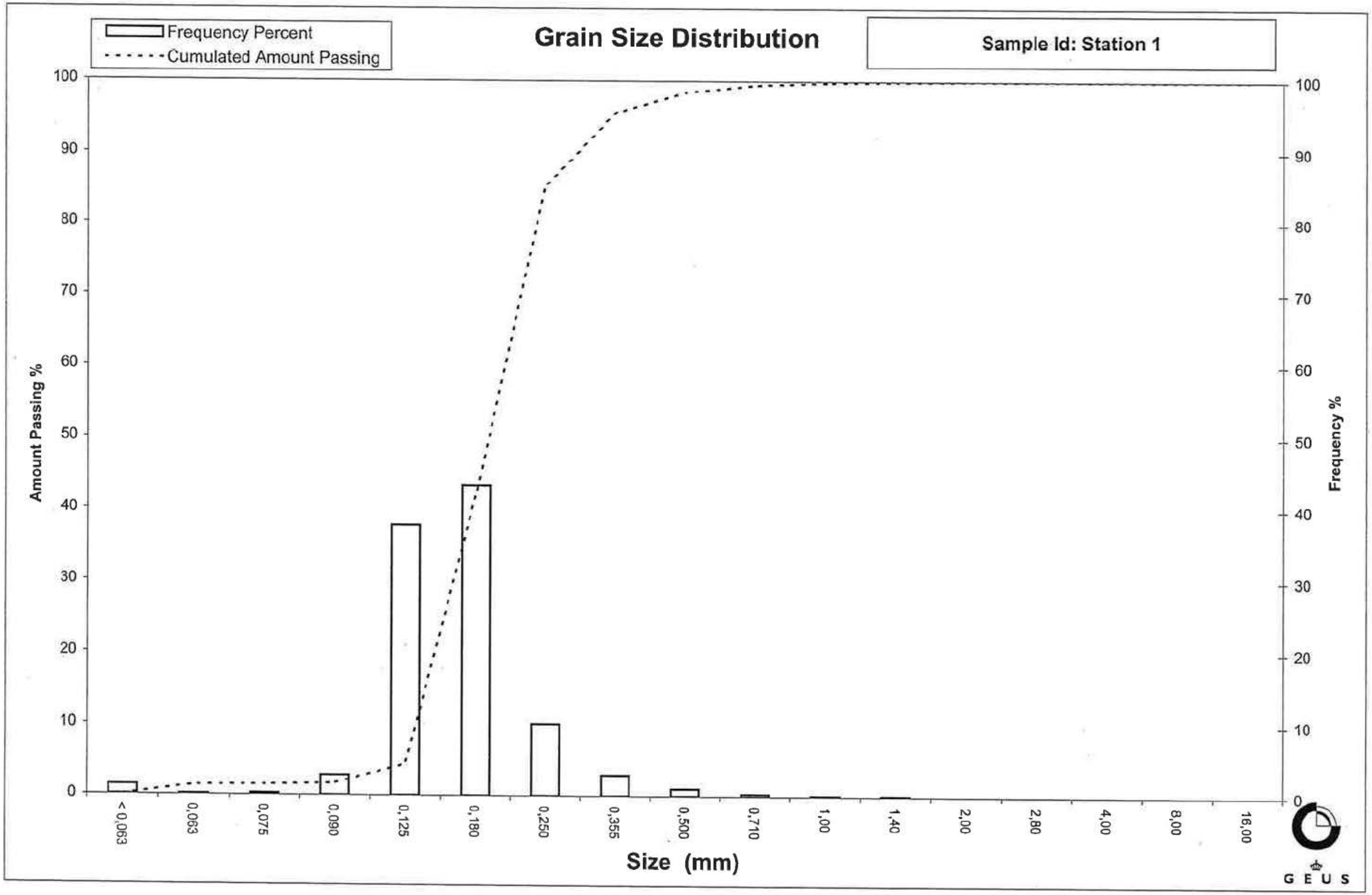

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 1
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 2
Lab. Id: 080015
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 111,27 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,20	0,18	99,82
Sand	1,00	0,00	0,20	0,18	99,64
Sand	0,710	0,49	0,36	0,32	99,32
Sand	0,500	1,00	0,77	0,69	98,62
Sand	0,355	1,49	2,06	1,85	96,77
Sand	0,250	2,00	7,62	6,85	89,93
Sand	0,180	2,47	37,46	33,67	56,26
Sand	0,125	3,00	54,45	48,94	7,32
Sand	0,090	3,47	6,23	5,60	1,73
Sand	0,075	3,74	0,52	0,47	1,26
Sand	0,063	3,99	0,17	0,15	1,11
	< 0,063	> 3,99	1,23	1,11	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,11
Sand, fine	(0,063 mm - 0,200 mm):	64,77
Sand, medium	(0,2 mm - 0,6 mm):	33,08
Sand, coarse	(0,6 mm - 2 mm):	1,05
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,33	1,61
16%	84%	0,24	2,07
25%	75%	0,22	2,19
40%	60%	0,19	2,41
Median 50%	50%	0,17	2,53
75%	25%	0,14	2,79
84%	16%	0,13	2,89
90%	10%	0,13	2,97
95%	5%	0,11	3,18

Moments Statistics

Mean	2,50
Sorting	0,44
Skewness	-0,15
Kurtosis	1,08
Uniformity Coefficient	1,47

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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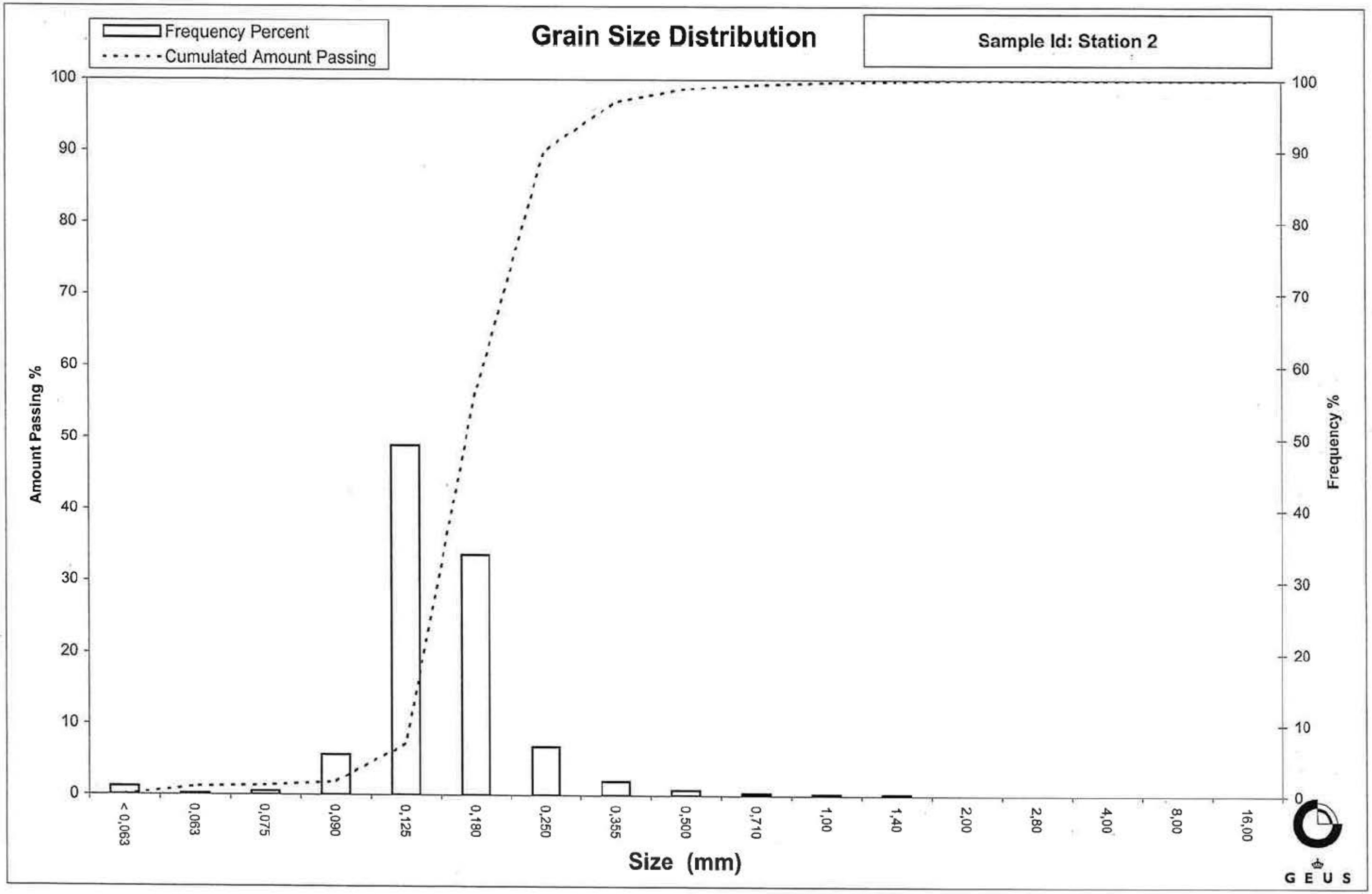

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 2
Amount Passing %
Frequency %
0
10
20
30
40
50
60
70
80
90
100
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 11
Lab. Id: 080016
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 102,14 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,10	0,10	99,90
Sand	1,00	0,00	0,24	0,23	99,67
Sand	0,710	0,49	0,75	0,73	98,93
Sand	0,500	1,00	4,28	4,19	94,74
Sand	0,355	1,49	25,11	24,58	70,16
Sand	0,250	2,00	17,15	16,79	53,37
Sand	0,180	2,47	46,81	45,83	7,54
Sand	0,125	3,00	6,03	5,90	1,64
Sand	0,090	3,47	0,63	0,62	1,02
Sand	0,075	3,74	0,10	0,10	0,92
Sand	0,063	3,99	0,02	0,02	0,90
	< 0,063	> 3,99	0,92	0,90	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,90
Sand, fine	(0,063 mm - 0,200 mm):	19,73
Sand, medium	(0,2 mm - 0,6 mm):	76,11
Sand, coarse	(0,6 mm - 2 mm):	3,26
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,51	0,96
16%	84%	0,44	1,20
25%	75%	0,38	1,38
40%	60%	0,29	1,78
Median 50%	50%	0,24	2,03
75%	25%	0,21	2,27
84%	16%	0,19	2,37
90%	10%	0,18	2,44
95%	5%	0,16	2,68

Moments Statistics

Mean	1,87
Sorting	0,55
Skewness	-0,33
Kurtosis	0,79
Uniformity Coefficient	1,59

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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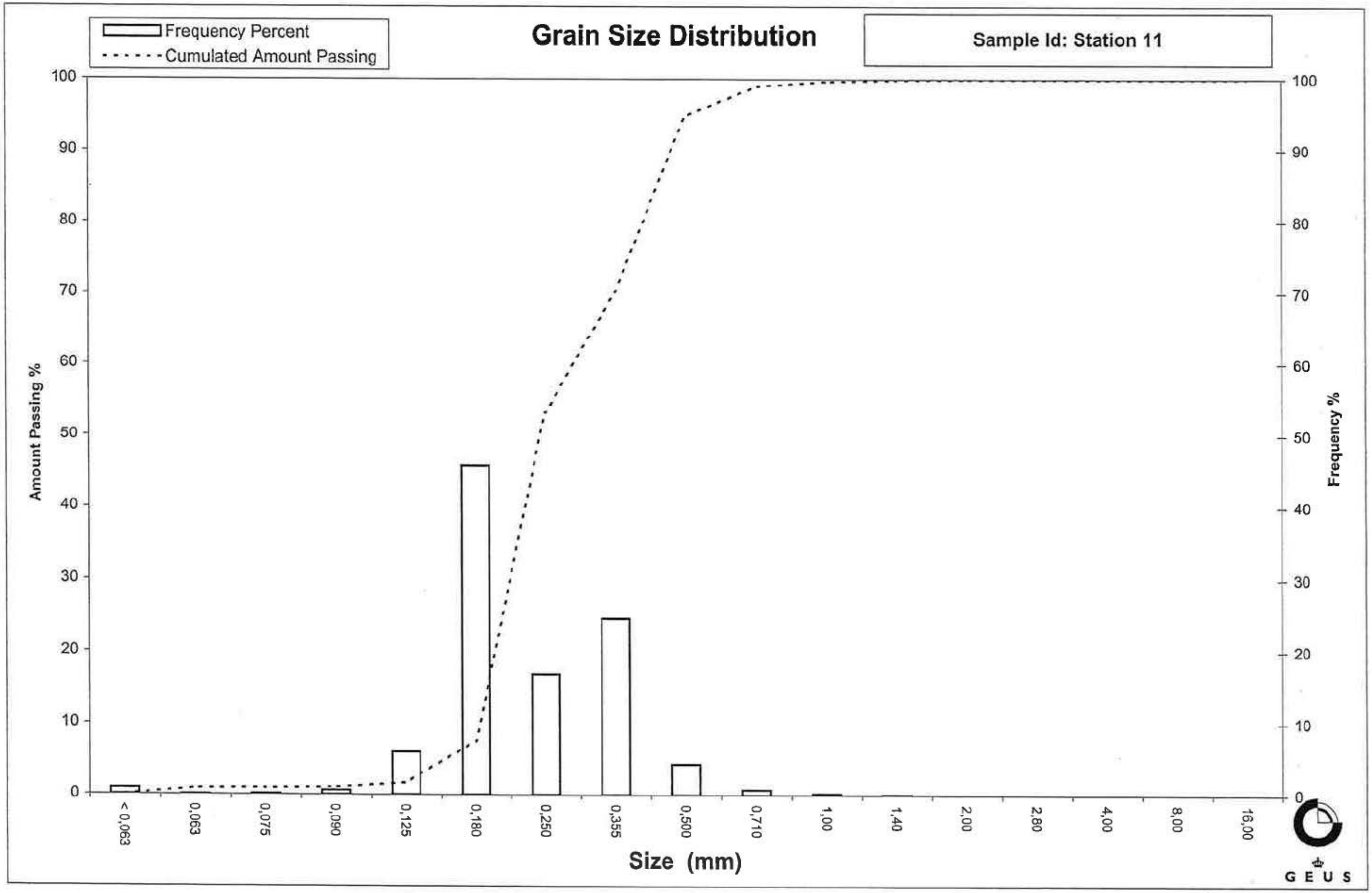

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 11
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution
Geotechnical

Sample Id: Station 12
Lab. Id: 080017
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 109,37 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,23	0,21	99,79
Sand	1,00	0,00	0,19	0,17	99,62
Sand	0,710	0,49	0,94	0,86	98,76
Sand	0,500	1,00	6,10	5,58	93,18
Sand	0,355	1,49	28,40	25,97	67,21
Sand	0,250	2,00	44,56	40,74	26,47
Sand	0,180	2,47	21,88	20,01	6,46
Sand	0,125	3,00	5,81	5,31	1,15
Sand	0,090	3,47	0,48	0,44	0,71
Sand	0,075	3,74	0,07	0,06	0,65
Sand	0,063	3,99	0,03	0,03	0,62
	< 0,063	> 3,99	0,68	0,62	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,62
Sand, fine	(0,063 mm - 0,200 mm):	11,56
Sand, medium	(0,2 mm - 0,6 mm):	83,65
Sand, coarse	(0,6 mm - 2 mm):	4,16
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,57	0,81
16%	84%	0,45	1,16
25%	75%	0,40	1,33
40%	60%	0,34	1,57
Median 50%	50%	0,31	1,69
75%	25%	0,24	2,03
84%	16%	0,21	2,23
90%	10%	0,19	2,38
95%	5%	0,16	2,60

Moments Statistics

Mean	1,69
Sorting	0,54
Skewness	0,02
Kurtosis	1,04
Uniformity Coefficient	1,75

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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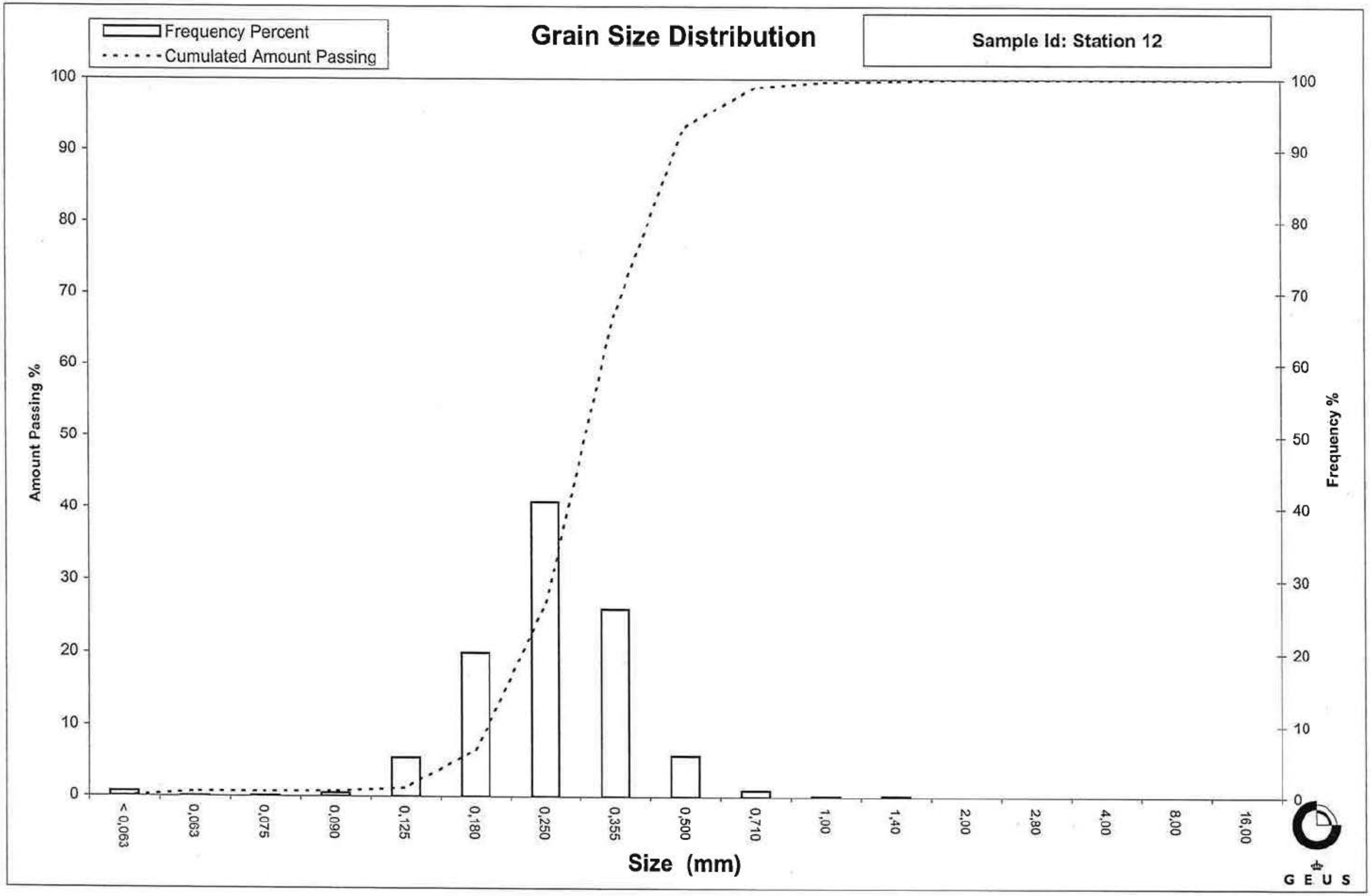

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 12
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution
Geotechnical

Sample Id: Station 17
Lab. Id: 080018
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 106,01 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,70	0,66	99,34
Sand	1,00	0,00	0,37	0,35	98,99
Sand	0,710	0,49	0,66	0,62	98,37
Sand	0,500	1,00	1,14	1,08	97,29
Sand	0,355	1,49	2,53	2,39	94,91
Sand	0,250	2,00	5,13	4,84	90,07
Sand	0,180	2,47	24,01	22,65	67,42
Sand	0,125	3,00	56,10	52,92	14,50
Sand	0,090	3,47	12,50	11,79	2,71
Sand	0,075	3,74	1,12	1,06	1,65
Sand	0,063	3,99	0,49	0,46	1,19
	< 0,063	> 3,99	1,26	1,19	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,19
Sand, fine	(0,063 mm - 0,200 mm):	72,70
Sand, medium	(0,2 mm - 0,6 mm):	23,92
Sand, coarse	(0,6 mm - 2 mm):	2,20
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,36	1,47
16%	84%	0,23	2,11
25%	75%	0,20	2,30
40%	60%	0,17	2,54
Median 50%	50%	0,16	2,63
75%	25%	0,14	2,88
84%	16%	0,13	2,98
90%	10%	0,11	3,16
95%	5%	0,10	3,37

Moments Statistics

Mean	2,57
Sorting	0,50
Skewness	-0,20
Kurtosis	1,34
Uniformity Coefficient	1,54

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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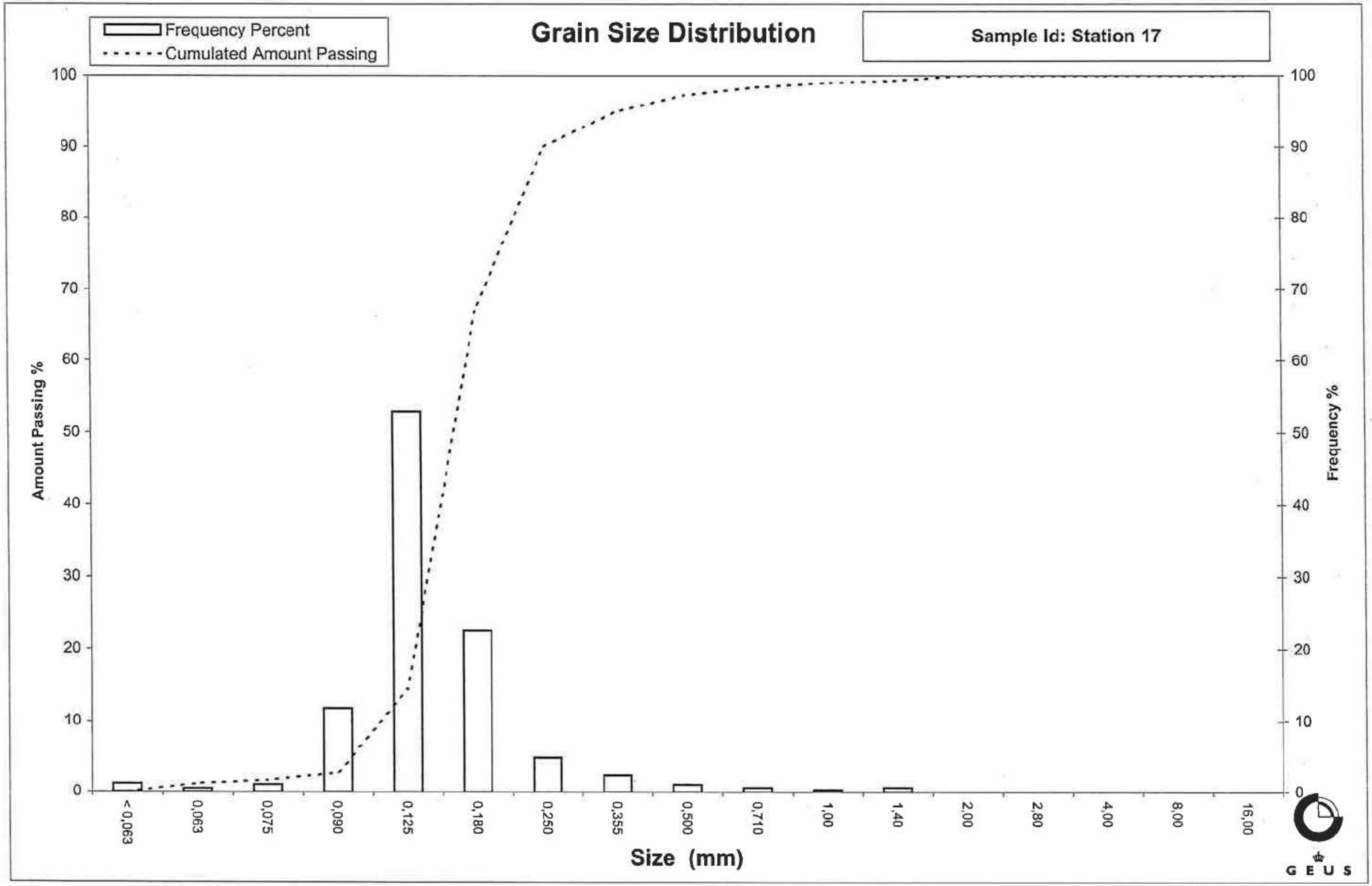

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 17
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 18
Lab. Id: 080019
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 107,45 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	1,01	0,94	99,06
Gravel	4,00	-2,00	0,09	0,08	98,98
Gravel	2,80	-1,49	0,18	0,17	98,81
Gravel	2,00	-1,00	0,43	0,40	98,41
Sand	1,40	-0,49	0,48	0,45	97,96
Sand	1,00	0,00	1,24	1,15	96,81
Sand	0,710	0,49	1,70	1,58	95,23
Sand	0,500	1,00	2,00	1,86	93,36
Sand	0,355	1,49	3,50	3,26	90,11
Sand	0,250	2,00	6,51	6,06	84,05
Sand	0,180	2,47	22,83	21,25	62,80
Sand	0,125	3,00	53,25	49,56	13,24
Sand	0,090	3,47	11,56	10,76	2,48
Sand	0,075	3,74	1,16	1,08	1,41
Sand	0,063	3,99	0,37	0,34	1,06
	< 0,063	> 3,99	1,14	1,06	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,06
Sand, fine	(0,063 mm - 0,200 mm):	67,81
Sand, medium	(0,2 mm - 0,6 mm):	25,38
Sand, coarse	(0,6 mm - 2 mm):	4,16
Gravel	(> 2 mm):	1,59
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,68	0,55
16%	84%	0,25	2,00
25%	75%	0,22	2,18
40%	60%	0,18	2,50
Median 50%	50%	0,17	2,59
75%	25%	0,14	2,86
84%	16%	0,13	2,97
90%	10%	0,11	3,13
95%	5%	0,10	3,35

Moments Statistics

Mean	2,52
Sorting	0,67
Skewness	-0,34
Kurtosis	1,70
Uniformity Coefficient	1,55

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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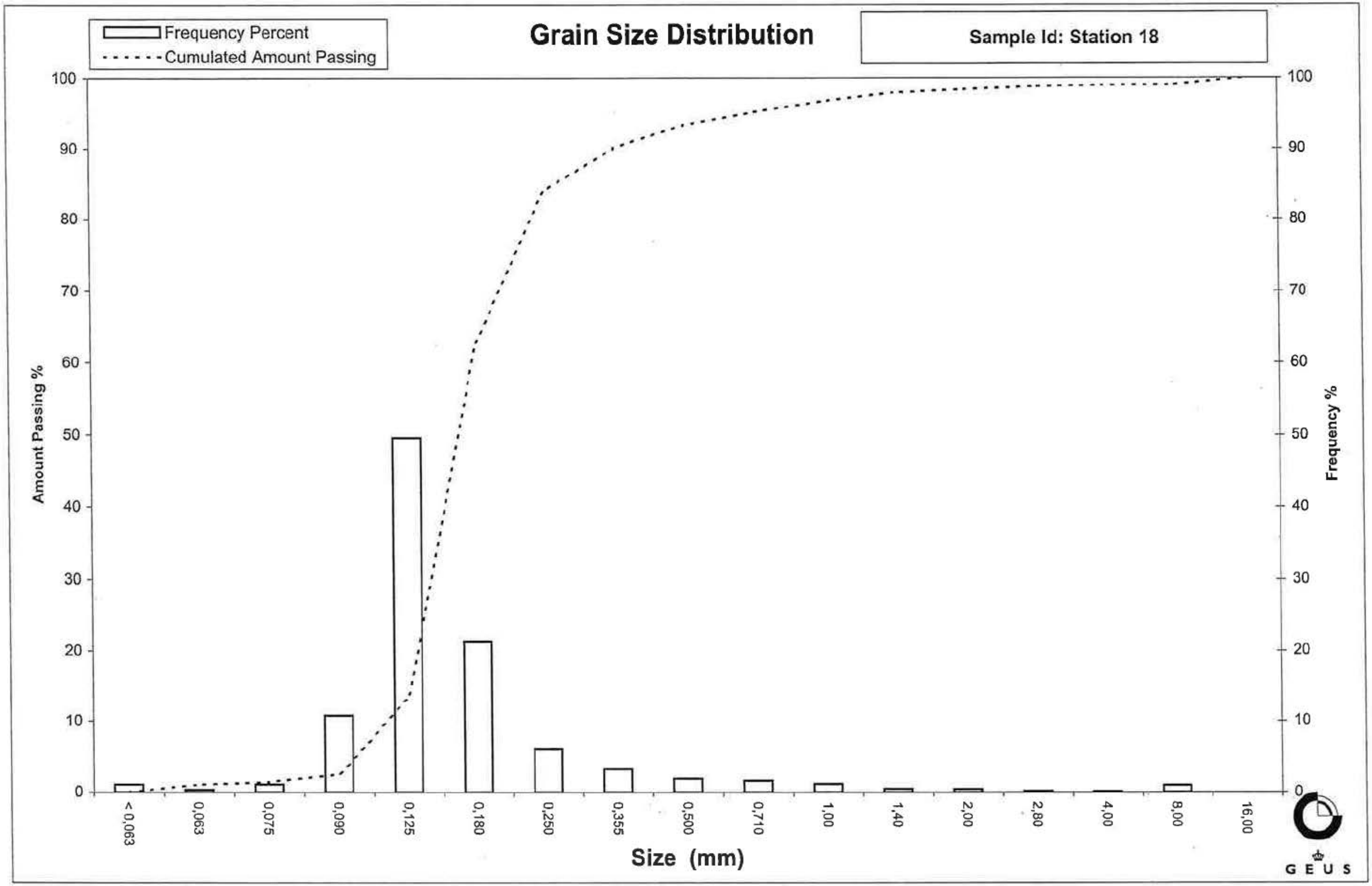
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 18
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 22
Lab. Id: 080020
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 109,16 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	1,88	1,72	98,28
Gravel	4,00	-2,00	0,11	0,10	98,18
Gravel	2,80	-1,49	0,33	0,30	97,87
Gravel	2,00	-1,00	0,21	0,19	97,68
Sand	1,40	-0,49	0,37	0,34	97,34
Sand	1,00	0,00	1,02	0,93	96,41
Sand	0,710	0,49	3,48	3,19	93,22
Sand	0,500	1,00	11,10	10,17	83,05
Sand	0,355	1,49	23,61	21,63	61,42
Sand	0,250	2,00	31,65	28,99	32,43
Sand	0,180	2,47	22,15	20,29	12,14
Sand	0,125	3,00	10,35	9,48	2,66
Sand	0,090	3,47	1,60	1,47	1,19
Sand	0,075	3,74	0,16	0,15	1,04
Sand	0,063	3,99	0,06	0,05	0,99
	< 0,063	> 3,99	1,08	0,99	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,99
Sand, fine	(0,063 mm - 0,200 mm):	16,95
Sand, medium	(0,2 mm - 0,6 mm):	69,96
Sand, coarse	(0,6 mm - 2 mm):	9,79
Gravel	(> 2 mm):	2,32
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,87	0,20
16%	84%	0,52	0,94
25%	75%	0,45	1,16
40%	60%	0,35	1,52
Median 50%	50%	0,31	1,67
75%	25%	0,22	2,16
84%	16%	0,19	2,37
90%	10%	0,17	2,58
95%	5%	0,14	2,85

Moments Statistics

Mean	1,66
Sorting	0,76
Skewness	-0,07
Kurtosis	1,10
Uniformity Coefficient	2,09

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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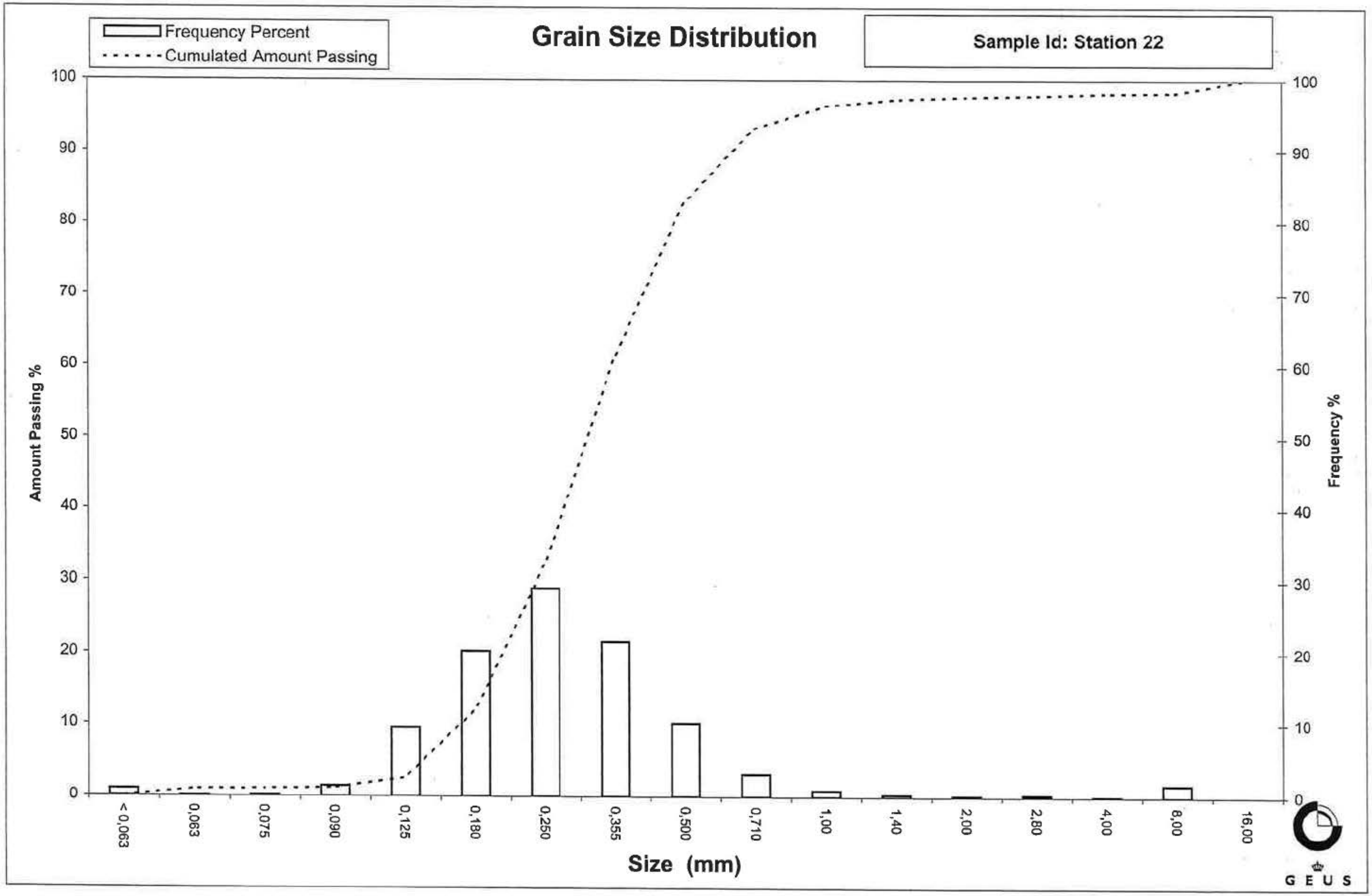

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 22
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 23
Lab. Id: 080021
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 107,82 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,09	0,08	99,92
Gravel	2,80	-1,49	0,00	0,00	99,92
Gravel	2,00	-1,00	0,00	0,00	99,92
Sand	1,40	-0,49	0,00	0,00	99,92
Sand	1,00	0,00	0,04	0,04	99,88
Sand	0,710	0,49	0,18	0,17	99,71
Sand	0,500	1,00	1,21	1,12	98,59
Sand	0,355	1,49	6,70	6,21	92,38
Sand	0,250	2,00	24,06	22,31	70,06
Sand	0,180	2,47	43,98	40,79	29,27
Sand	0,125	3,00	26,67	24,74	4,54
Sand	0,090	3,47	3,57	3,31	1,22
Sand	0,075	3,74	0,27	0,25	0,97
Sand	0,063	3,99	0,07	0,06	0,91
	< 0,063	> 3,99	0,98	0,91	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,91
Sand, fine	(0,063 mm - 0,200 mm):	40,02
Sand, medium	(0,2 mm - 0,6 mm):	58,20
Sand, coarse	(0,6 mm - 2 mm):	0,79
Gravel	(> 2 mm):	0,08
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,42	1,26
16%	84%	0,32	1,66
25%	75%	0,27	1,87
40%	60%	0,23	2,10
Median 50%	50%	0,22	2,21
75%	25%	0,17	2,55
84%	16%	0,15	2,73
90%	10%	0,14	2,87
95%	5%	0,13	2,99

Moments Statistics

Mean	2,20
Sorting	0,53
Skewness	-0,07
Kurtosis	1,04
Uniformity Coefficient	1,70

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi16\%+\phi84\%+\phi50\%)\ /\ 3$ (Folk and Ward 1957)

Sorting $(\phi84\%-\phi16\%)\ /\ 4 + (\phi95\%-\phi5\%)\ /\ 6{,}6$ (Folk and Ward 1957)

Kurtosis $(\phi95\% - \phi5\%)\ /\ (2{,}44 * (\phi75\% - \phi25\%))$ (Folk and Ward 1957)

Skewness $(\phi16\%+\phi84\% - 2*\phi50\%)\ /\ (2*(\phi84\%-\phi16\%)) + (\phi5\%+\phi95\% - 2*\phi50\%)\ /\ (2*(\phi95\%-\phi5\%))$ (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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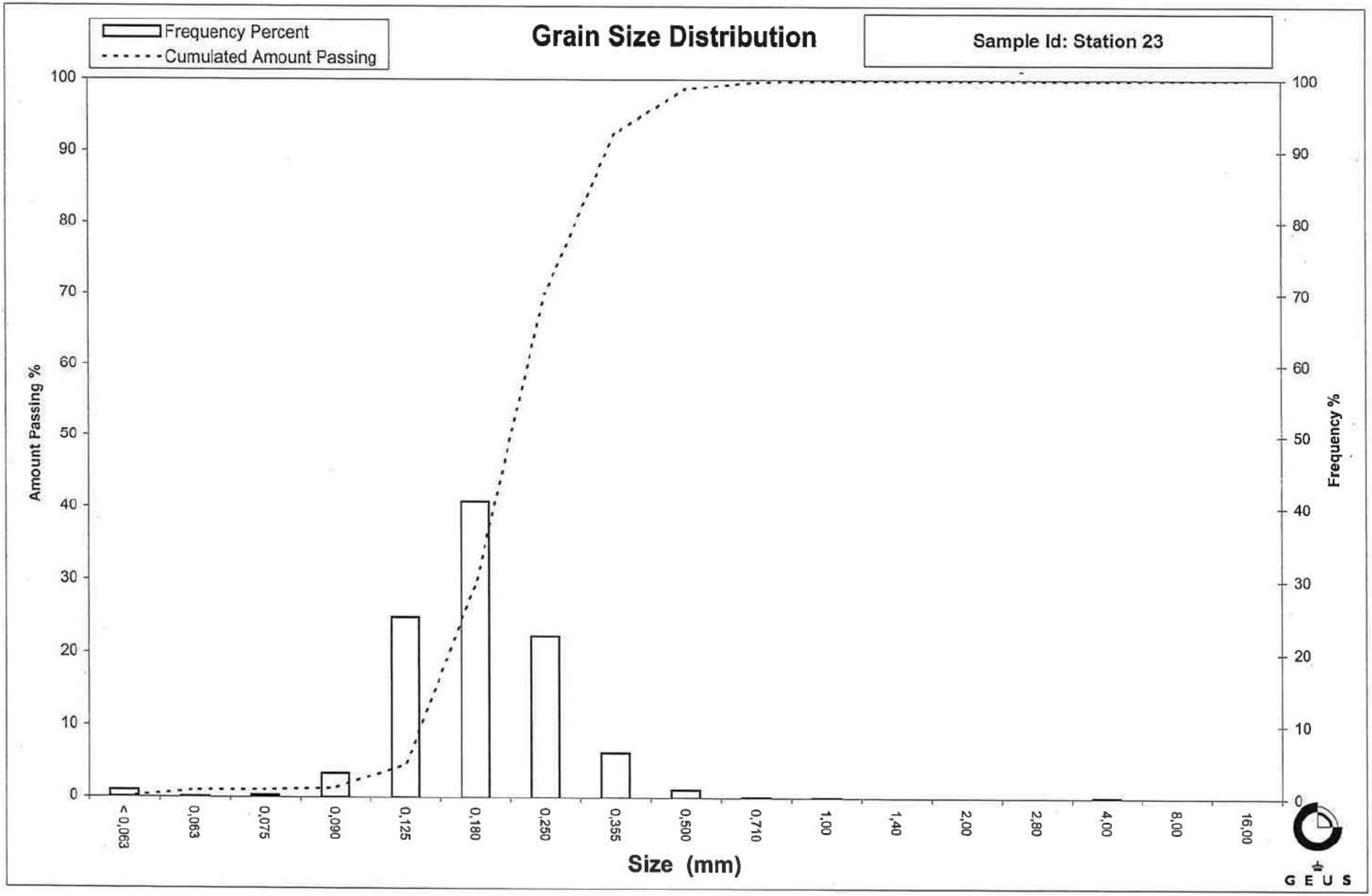

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 23
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id:	Station 33
Lab. Id:	080022
Submitter:	DFU
Subject:	Tobistogt< L 151> dec.07
Date:	Marts/april 2008
Executed:	K.Fries/I. Nørgaard
Remarks:	For mat < 2mm

GEUS

Total Weight 107,75 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,00	0,00	100,00
Sand	1,00	0,00	0,00	0,00	100,00
Sand	0,710	0,49	0,01	0,01	99,99
Sand	0,500	1,00	0,02	0,02	99,97
Sand	0,355	1,49	0,26	0,24	99,73
Sand	0,250	2,00	6,88	6,39	93,35
Sand	0,180	2,47	73,52	68,23	25,11
Sand	0,125	3,00	24,77	22,99	2,13
Sand	0,090	3,47	1,08	1,00	1,12
Sand	0,075	3,74	0,15	0,14	0,98
Sand	0,063	3,99	0,05	0,05	0,94
	< 0,063	> 3,99	1,01	0,94	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,94
Sand, fine	(0,063 mm - 0,200 mm):	43,67
Sand, medium	(0,2 mm - 0,6 mm):	55,37
Sand, coarse	(0,6 mm - 2 mm):	0,02
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,28	1,85
16%	84%	0,24	2,06
25%	75%	0,23	2,11
40%	60%	0,22	2,21
Median 50%	50%	0,21	2,28
75%	25%	0,18	2,48
84%	16%	0,16	2,66
90%	10%	0,14	2,80
95%	5%	0,13	2,92

Moments Statistics

Mean	2,33
Sorting	0,31
Skewness	0,22
Kurtosis	1,21
Uniformity Coefficient	1,50

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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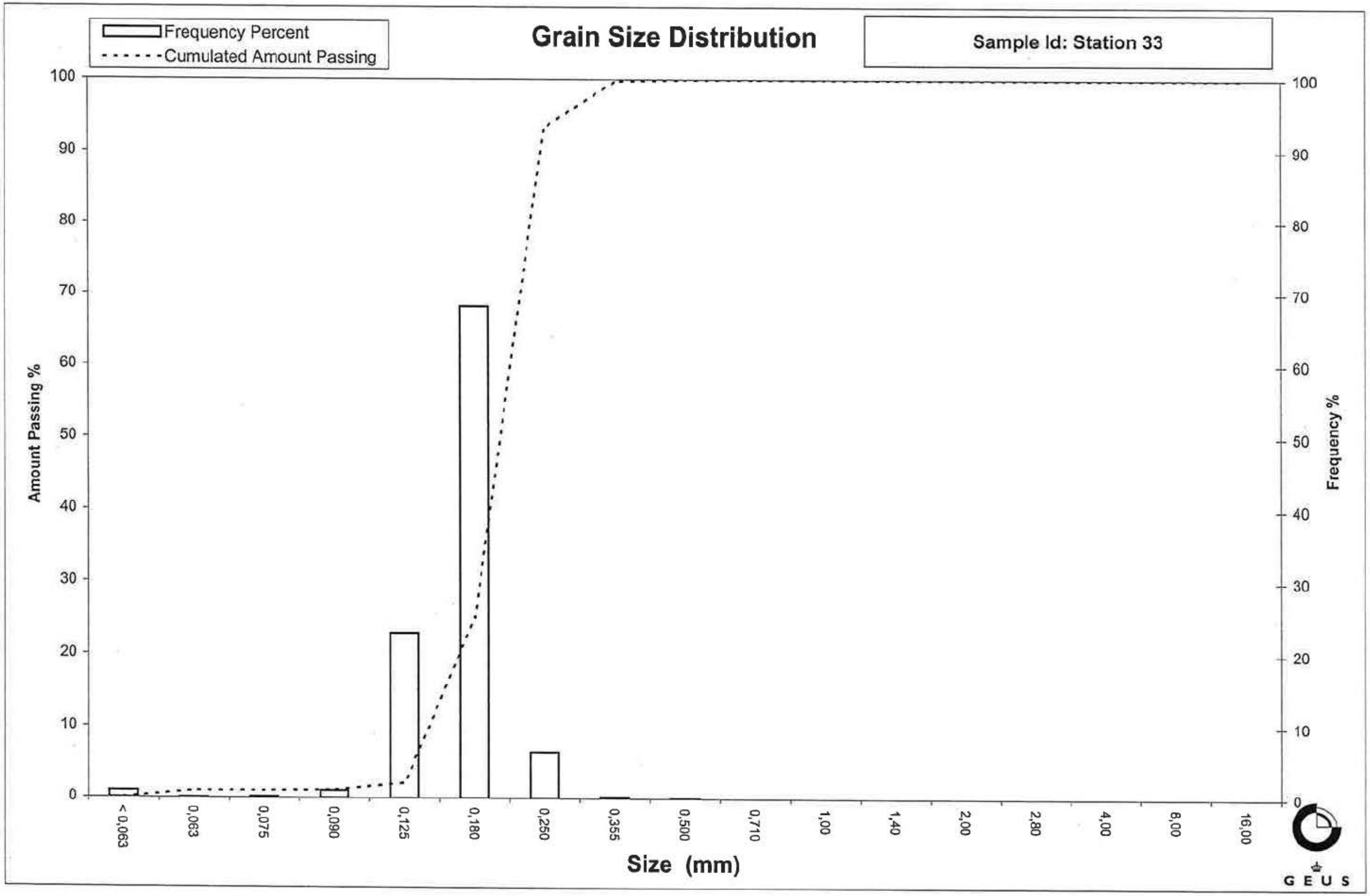
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 33
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 34
Lab. Id: 080023
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 111,22 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,08	0,07	99,93
Gravel	2,80	-1,49	0,01	0,01	99,92
Gravel	2,00	-1,00	0,00	0,00	99,92
Sand	1,40	-0,49	0,00	0,00	99,92
Sand	1,00	0,00	0,00	0,00	99,92
Sand	0,710	0,49	0,02	0,02	99,90
Sand	0,500	1,00	0,04	0,04	99,87
Sand	0,355	1,49	0,64	0,58	99,29
Sand	0,250	2,00	12,81	11,52	87,77
Sand	0,180	2,47	72,75	65,41	22,36
Sand	0,125	3,00	22,46	20,19	2,17
Sand	0,090	3,47	1,00	0,90	1,27
Sand	0,075	3,74	0,13	0,12	1,15
Sand	0,063	3,99	0,05	0,04	1,11
	< 0,063	> 3,99	1,23	1,11	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,11
Sand, fine	(0,063 mm - 0,200 mm):	39,94
Sand, medium	(0,2 mm - 0,6 mm):	58,83
Sand, coarse	(0,6 mm - 2 mm):	0,04
Gravel	(> 2 mm):	0,08
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,32	1,66
16%	84%	0,25	2,02
25%	75%	0,24	2,08
40%	60%	0,22	2,18
Median 50%	50%	0,21	2,25
75%	25%	0,18	2,45
84%	16%	0,16	2,62
90%	10%	0,15	2,77
95%	5%	0,13	2,91

Moments Statistics

Mean	2,30
Sorting	0,34
Skewness	0,14
Kurtosis	1,38
Uniformity Coefficient	1,51

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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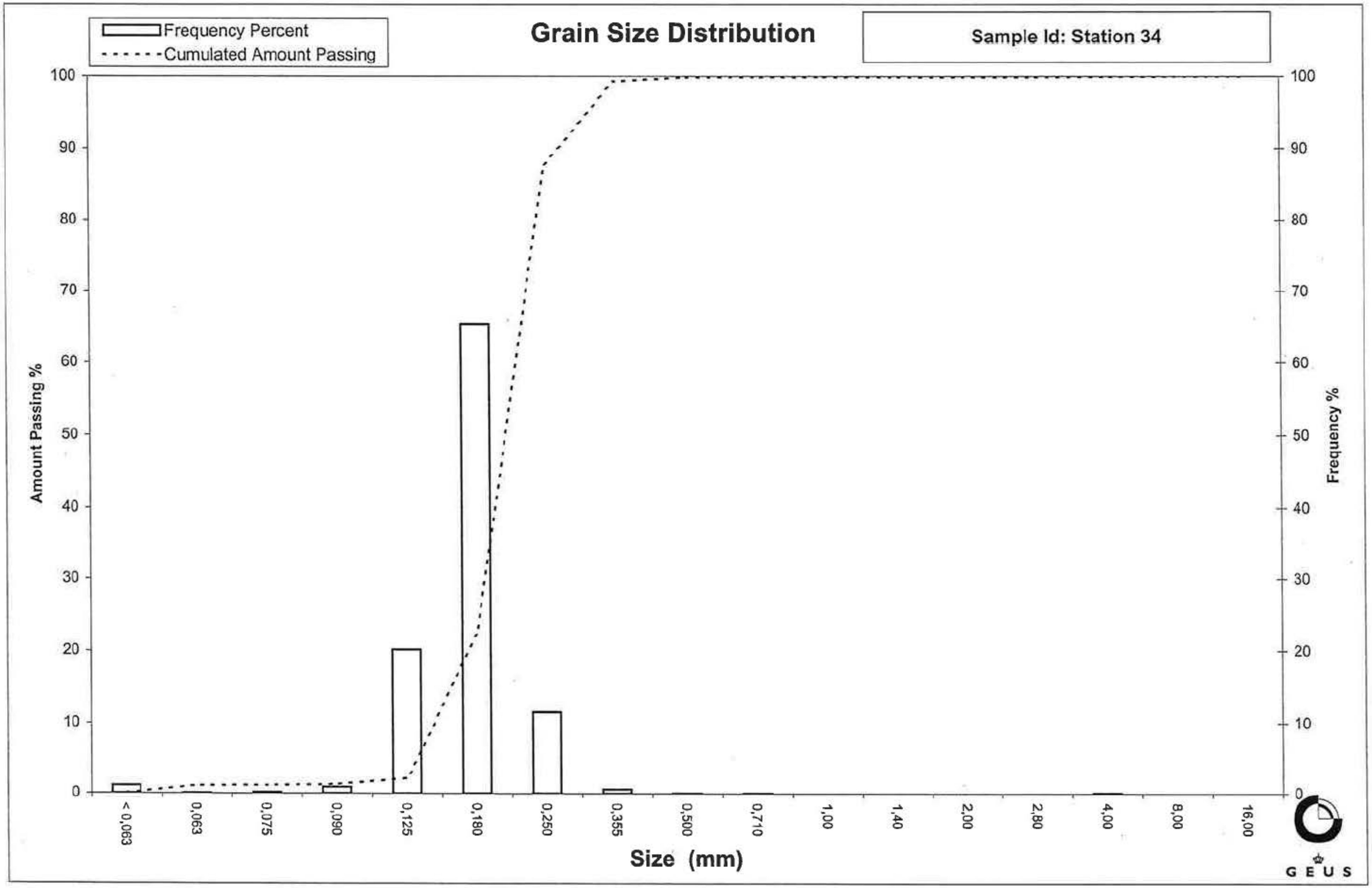
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 34
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution
Geotechnical

Sample Id: Station 39
Lab. Id: 080024
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 109,99 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,19	0,17	99,83
Sand	1,00	0,00	0,01	0,01	99,82
Sand	0,710	0,49	0,02	0,02	99,80
Sand	0,500	1,00	0,19	0,17	99,63
Sand	0,355	1,49	3,64	3,31	96,32
Sand	0,250	2,00	23,17	21,07	75,25
Sand	0,180	2,47	61,12	55,57	19,68
Sand	0,125	3,00	18,73	17,03	2,65
Sand	0,090	3,47	1,52	1,38	1,27
Sand	0,075	3,74	0,30	0,27	1,00
Sand	0,063	3,99	0,12	0,11	0,89
	< 0,063	> 3,99	0,98	0,89	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,89
Sand, fine	(0,063 mm - 0,200 mm):	34,67
Sand, medium	(0,2 mm - 0,6 mm):	64,15
Sand, coarse	(0,6 mm - 2 mm):	0,29
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,35	1,52
16%	84%	0,29	1,77
25%	75%	0,25	2,00
40%	60%	0,23	2,12
Median 50%	50%	0,22	2,20
75%	25%	0,19	2,42
84%	16%	0,17	2,57
90%	10%	0,15	2,75
95%	5%	0,13	2,92

Moments Statistics

Mean	2,18
Sorting	0,41
Skewness	-0,02
Kurtosis	1,36
Uniformity Coefficient	1,55

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)
Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)
Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)
Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)
Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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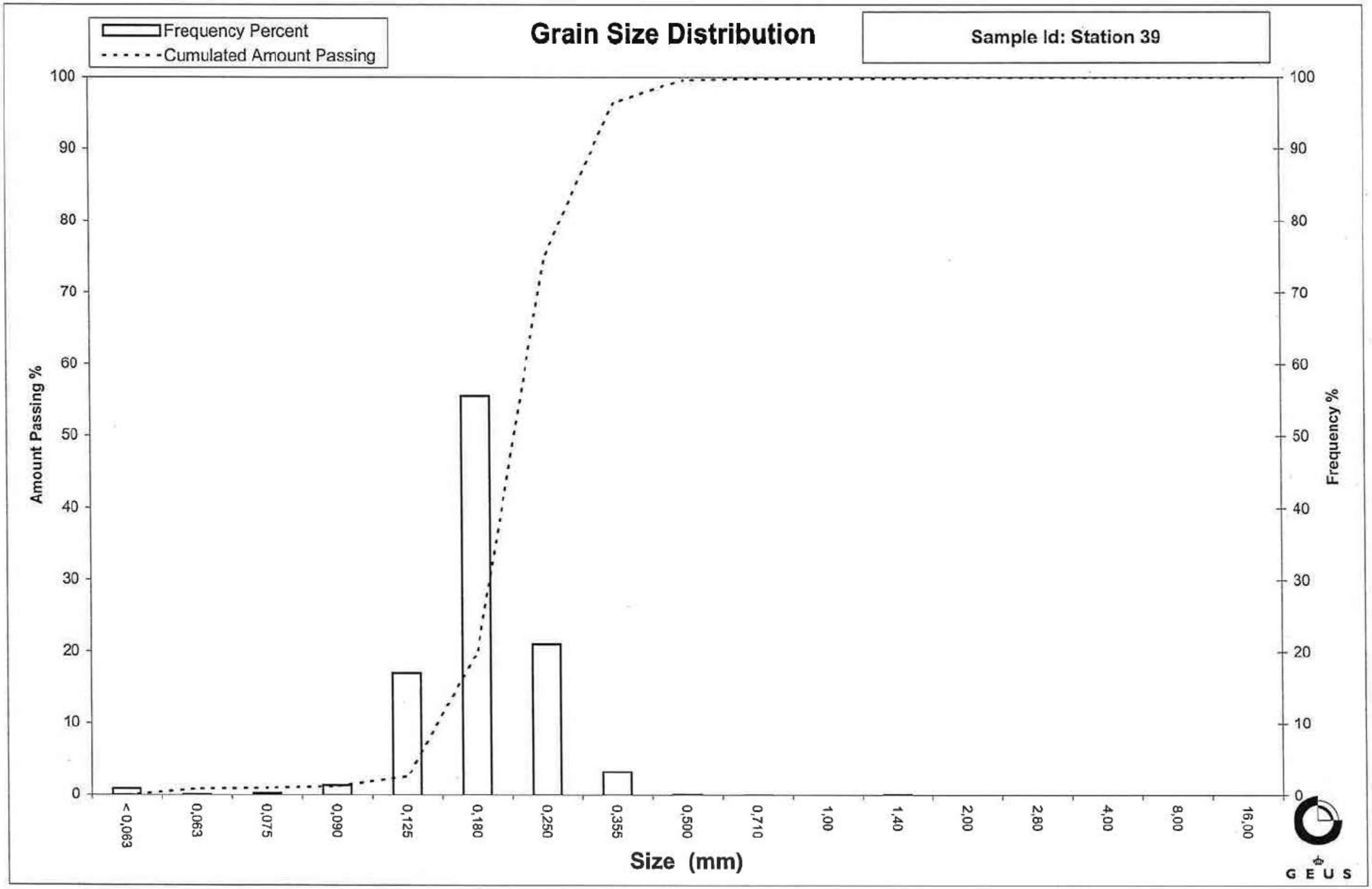

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 39
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 40
Lab. Id: 080025
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 103,12 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,11	0,11	99,89
Sand	1,00	0,00	0,04	0,04	99,85
Sand	0,710	0,49	0,14	0,14	99,72
Sand	0,500	1,00	0,68	0,66	99,06
Sand	0,355	1,49	8,54	8,28	90,78
Sand	0,250	2,00	22,66	21,97	68,80
Sand	0,180	2,47	54,11	52,47	16,33
Sand	0,125	3,00	14,41	13,97	2,36
Sand	0,090	3,47	1,10	1,07	1,29
Sand	0,075	3,74	0,24	0,23	1,06
Sand	0,063	3,99	0,12	0,12	0,94
	< 0,063	> 3,99	0,97	0,94	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,94
Sand, fine	(0,063 mm - 0,200 mm):	30,38
Sand, medium	(0,2 mm - 0,6 mm):	68,05
Sand, coarse	(0,6 mm - 2 mm):	0,63
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,43	1,22
16%	84%	0,32	1,63
25%	75%	0,28	1,84
40%	60%	0,24	2,07
Median 50%	50%	0,22	2,15
75%	25%	0,19	2,38
84%	16%	0,18	2,48
90%	10%	0,16	2,69
95%	5%	0,14	2,88

Moments Statistics

Mean	2,09
Sorting	0,47
Skewness	-0,17
Kurtosis	1,25
Uniformity Coefficient	1,54

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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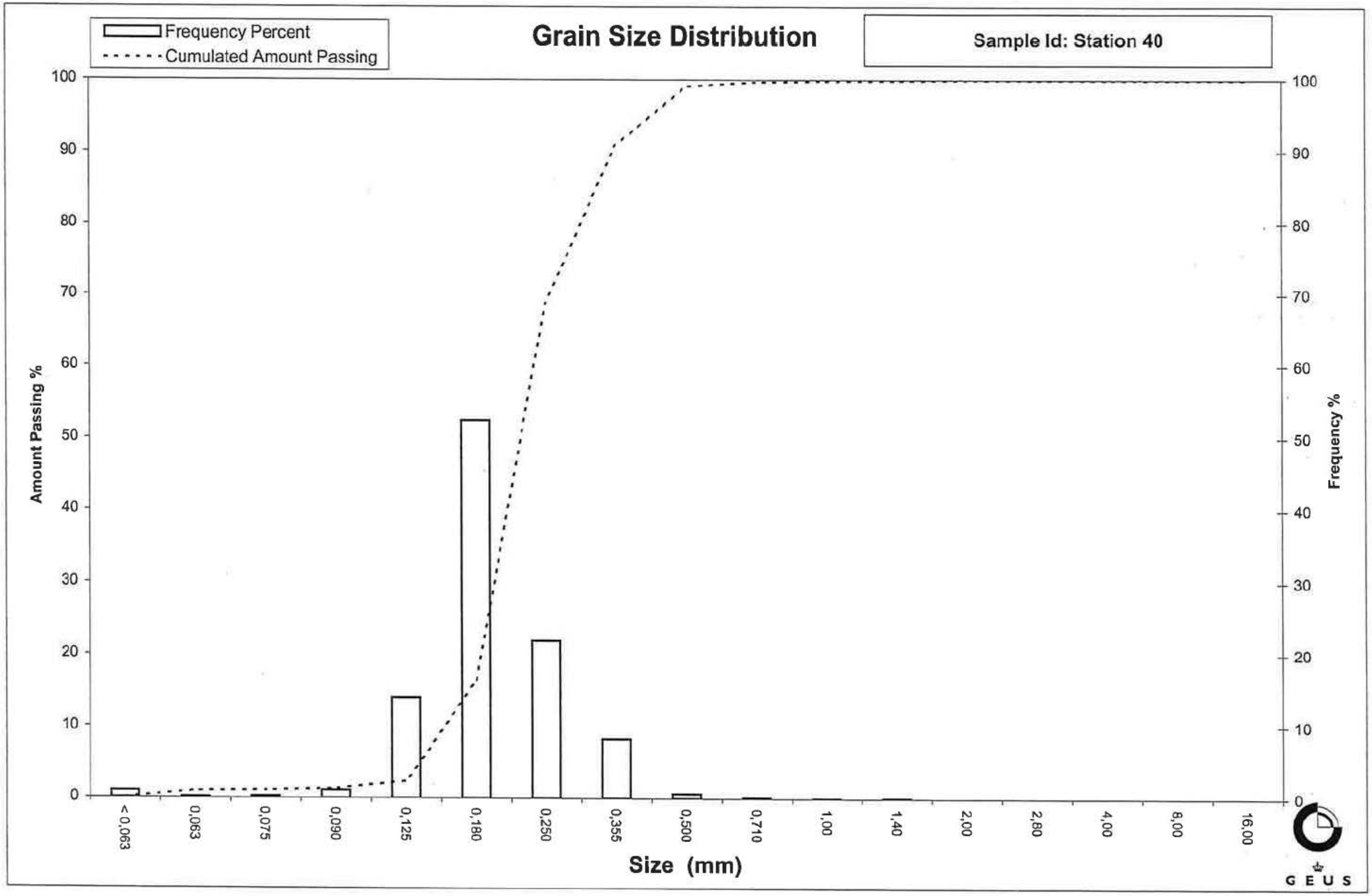

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 40
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 45
Lab. Id: 080026
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 106,28 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,00	0,00	100,00
Sand	1,00	0,00	0,04	0,04	99,96
Sand	0,710	0,49	0,05	0,05	99,92
Sand	0,500	1,00	0,05	0,05	99,87
Sand	0,355	1,49	0,99	0,93	98,94
Sand	0,250	2,00	56,56	53,22	45,72
Sand	0,180	2,47	41,68	39,22	6,50
Sand	0,125	3,00	4,87	4,58	1,92
Sand	0,090	3,47	0,71	0,67	1,25
Sand	0,075	3,74	0,19	0,18	1,07
Sand	0,063	3,99	0,10	0,09	0,98
	< 0,063	> 3,99	1,04	0,98	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,98
Sand, fine	(0,063 mm - 0,200 mm):	16,73
Sand, medium	(0,2 mm - 0,6 mm):	82,18
Sand, coarse	(0,6 mm - 2 mm):	0,11
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,35	1,53
16%	84%	0,33	1,62
25%	75%	0,31	1,70
40%	60%	0,28	1,85
Median 50%	50%	0,26	1,95
75%	25%	0,21	2,23
84%	16%	0,20	2,34
90%	10%	0,19	2,42
95%	5%	0,16	2,63

Moments Statistics

Mean	1,97
Sorting	0,35
Skewness	0,15
Kurtosis	0,85
Uniformity Coefficient	1,49

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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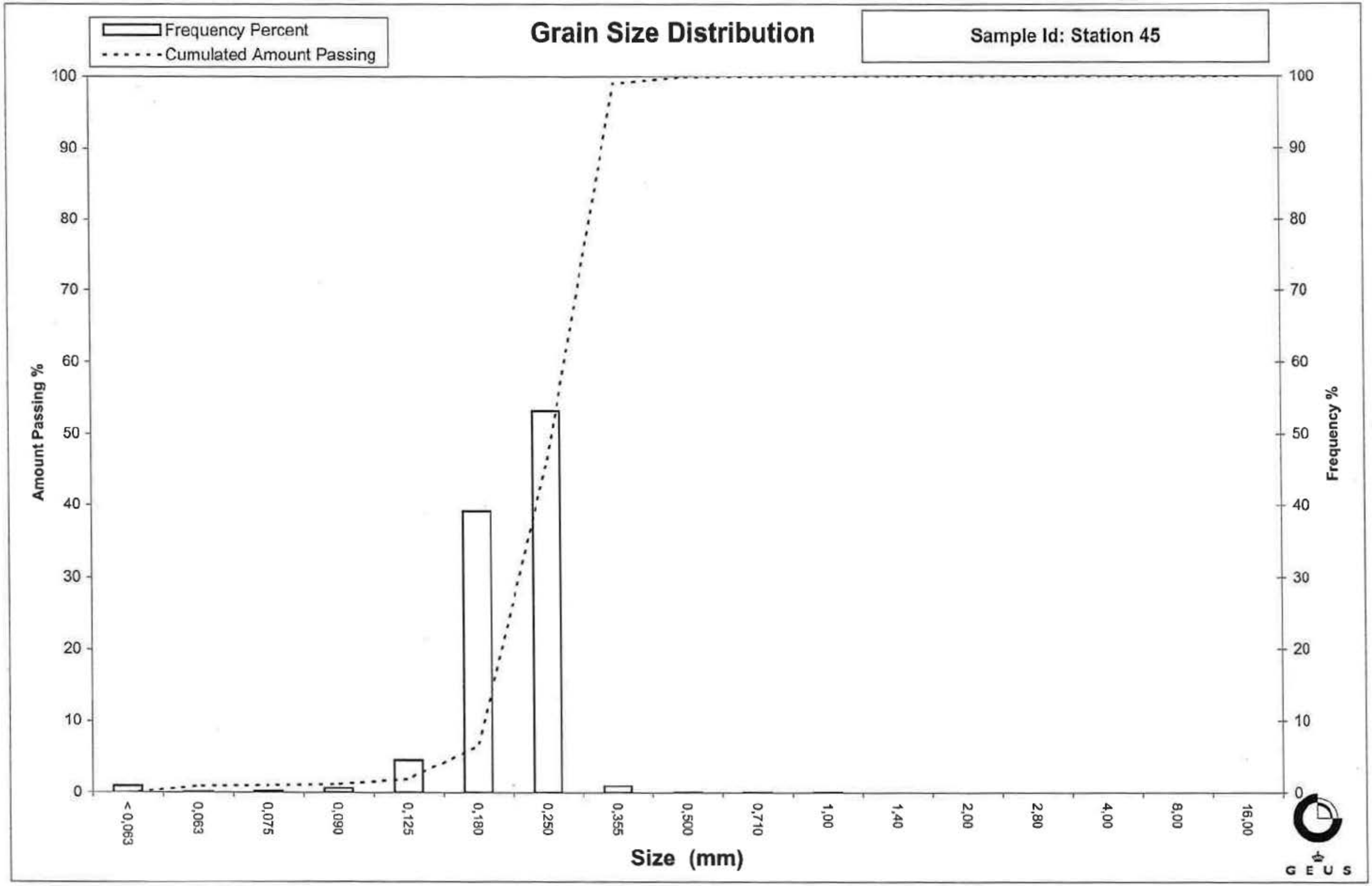

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 45
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 46
Lab. Id: 080027
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 111,06 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,10	0,09	99,91
Sand	1,00	0,00	0,03	0,03	99,88
Sand	0,710	0,49	0,03	0,03	99,86
Sand	0,500	1,00	0,04	0,04	99,82
Sand	0,355	1,49	1,67	1,50	98,32
Sand	0,250	2,00	67,63	60,90	37,42
Sand	0,180	2,47	33,75	30,39	7,03
Sand	0,125	3,00	5,53	4,98	2,05
Sand	0,090	3,47	0,97	0,87	1,18
Sand	0,075	3,74	0,26	0,23	0,95
Sand	0,063	3,99	0,15	0,14	0,81
	< 0,063	> 3,99	0,90	0,81	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,81
Sand, fine	(0,063 mm - 0,200 mm):	14,90
Sand, medium	(0,2 mm - 0,6 mm):	84,12
Sand, coarse	(0,6 mm - 2 mm):	0,16
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,35	1,52
16%	84%	0,33	1,60
25%	75%	0,31	1,67
40%	60%	0,29	1,79
Median 50%	50%	0,27	1,88
75%	25%	0,22	2,18
84%	16%	0,20	2,32
90%	10%	0,19	2,42
95%	5%	0,16	2,67

Moments Statistics

Mean	1,93
Sorting	0,35
Skewness	0,29
Kurtosis	0,93
Uniformity Coefficient	1,55

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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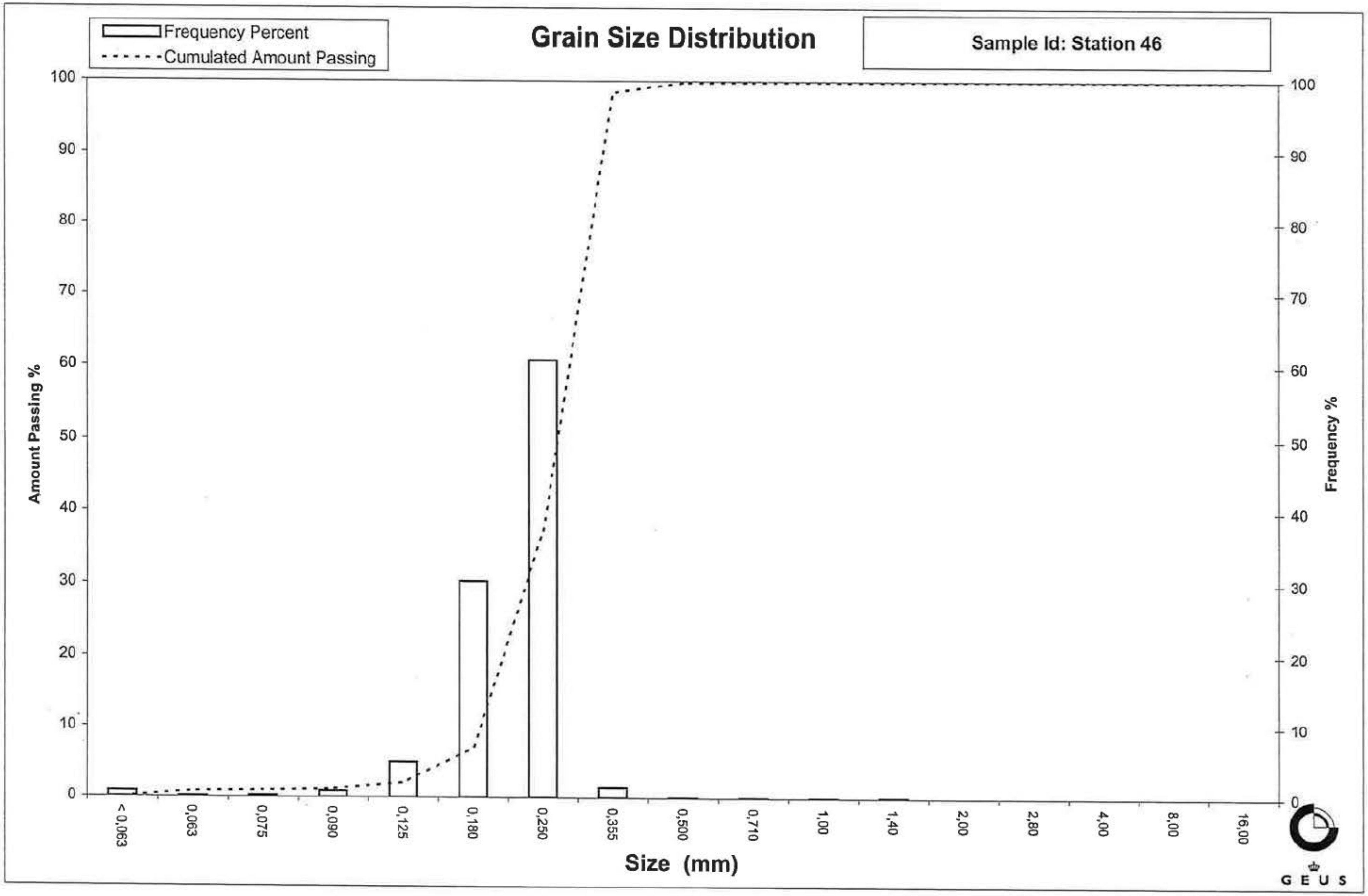

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 46
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 50
Lab. Id: 080028
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 108,57 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,03	0,03	99,97
Sand	1,00	0,00	0,02	0,02	99,95
Sand	0,710	0,49	0,04	0,04	99,92
Sand	0,500	1,00	0,13	0,12	99,80
Sand	0,355	1,49	3,86	3,56	96,24
Sand	0,250	2,00	73,62	67,81	28,43
Sand	0,180	2,47	27,99	25,78	2,65
Sand	0,125	3,00	1,58	1,46	1,20
Sand	0,090	3,47	0,32	0,29	0,90
Sand	0,075	3,74	0,09	0,08	0,82
Sand	0,063	3,99	0,08	0,07	0,75
	< 0,063	> 3,99	0,81	0,75	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,75
Sand, fine	(0,063 mm - 0,200 mm):	9,27
Sand, medium	(0,2 mm - 0,6 mm):	89,84
Sand, coarse	(0,6 mm - 2 mm):	0,15
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,35	1,50
16%	84%	0,34	1,57
25%	75%	0,32	1,63
40%	60%	0,30	1,74
Median 50%	50%	0,28	1,82
75%	25%	0,24	2,05
84%	16%	0,22	2,21
90%	10%	0,20	2,32
95%	5%	0,19	2,42

Moments Statistics

Mean	1,87
Sorting	0,30
Skewness	0,27
Kurtosis	0,90
Uniformity Coefficient	1,49

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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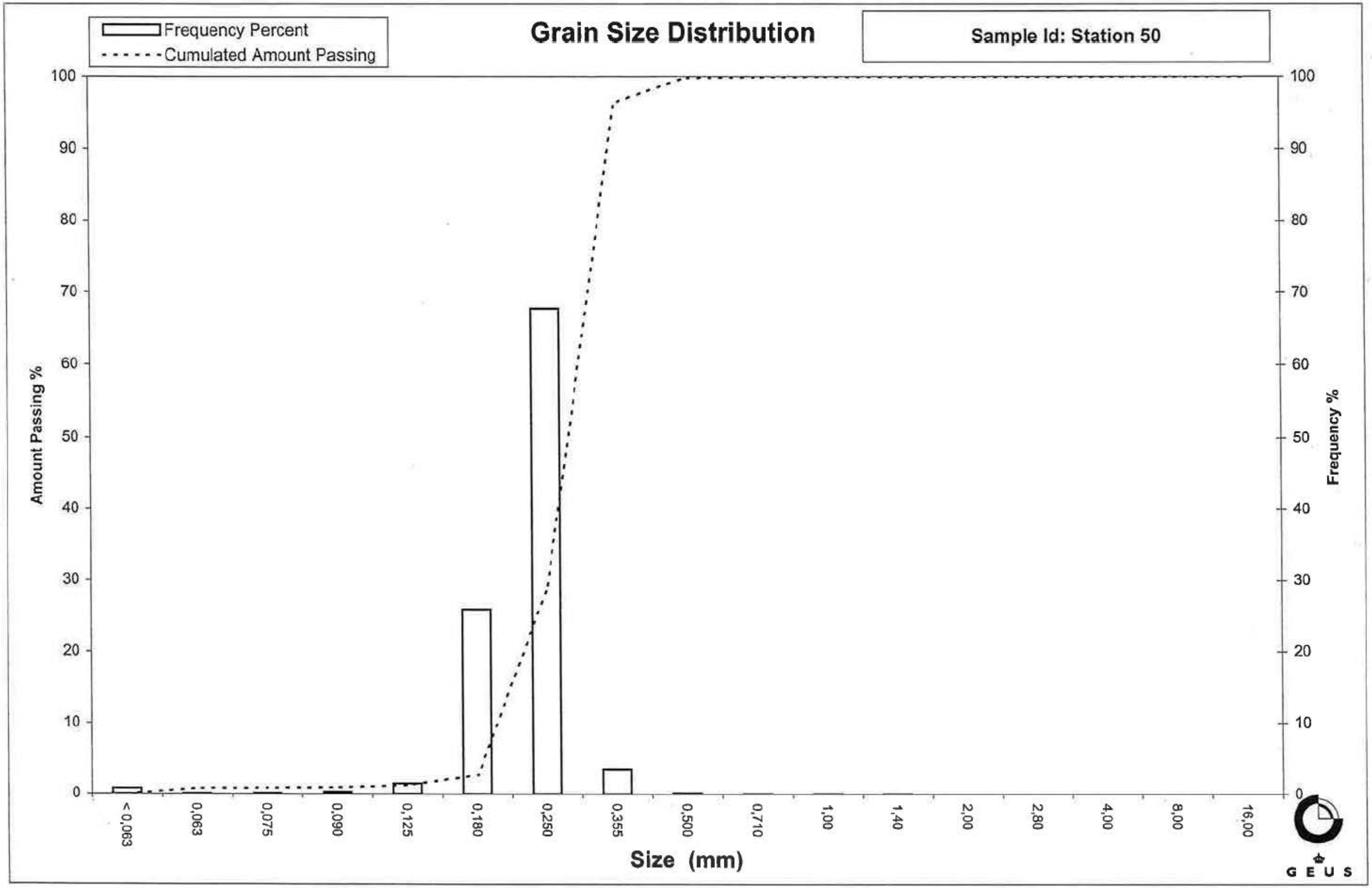
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 50
Amount Passing %
Frequency %
Size (mm)
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 51
Lab. Id: 080029
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 101,82 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,03	0,03	99,97
Sand	1,00	0,00	0,03	0,03	99,94
Sand	0,710	0,49	0,06	0,06	99,88
Sand	0,500	1,00	0,17	0,17	99,72
Sand	0,355	1,49	3,98	3,91	95,81
Sand	0,250	2,00	66,27	65,09	30,72
Sand	0,180	2,47	28,92	28,40	2,32
Sand	0,125	3,00	1,09	1,07	1,25
Sand	0,090	3,47	0,21	0,21	1,04
Sand	0,075	3,74	0,08	0,08	0,96
Sand	0,063	3,99	0,04	0,04	0,92
	< 0,063	> 3,99	0,94	0,92	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,92
Sand, fine	(0,063 mm - 0,200 mm):	9,51
Sand, medium	(0,2 mm - 0,6 mm):	89,36
Sand, coarse	(0,6 mm - 2 mm):	0,21
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,35	1,50
16%	84%	0,34	1,57
25%	75%	0,32	1,64
40%	60%	0,30	1,75
Median 50%	50%	0,28	1,83
75%	25%	0,24	2,08
84%	16%	0,21	2,23
90%	10%	0,20	2,33
95%	5%	0,19	2,42

Moments Statistics

Mean	1,88
Sorting	0,30
Skewness	0,25
Kurtosis	0,85
Uniformity Coefficient	1,49

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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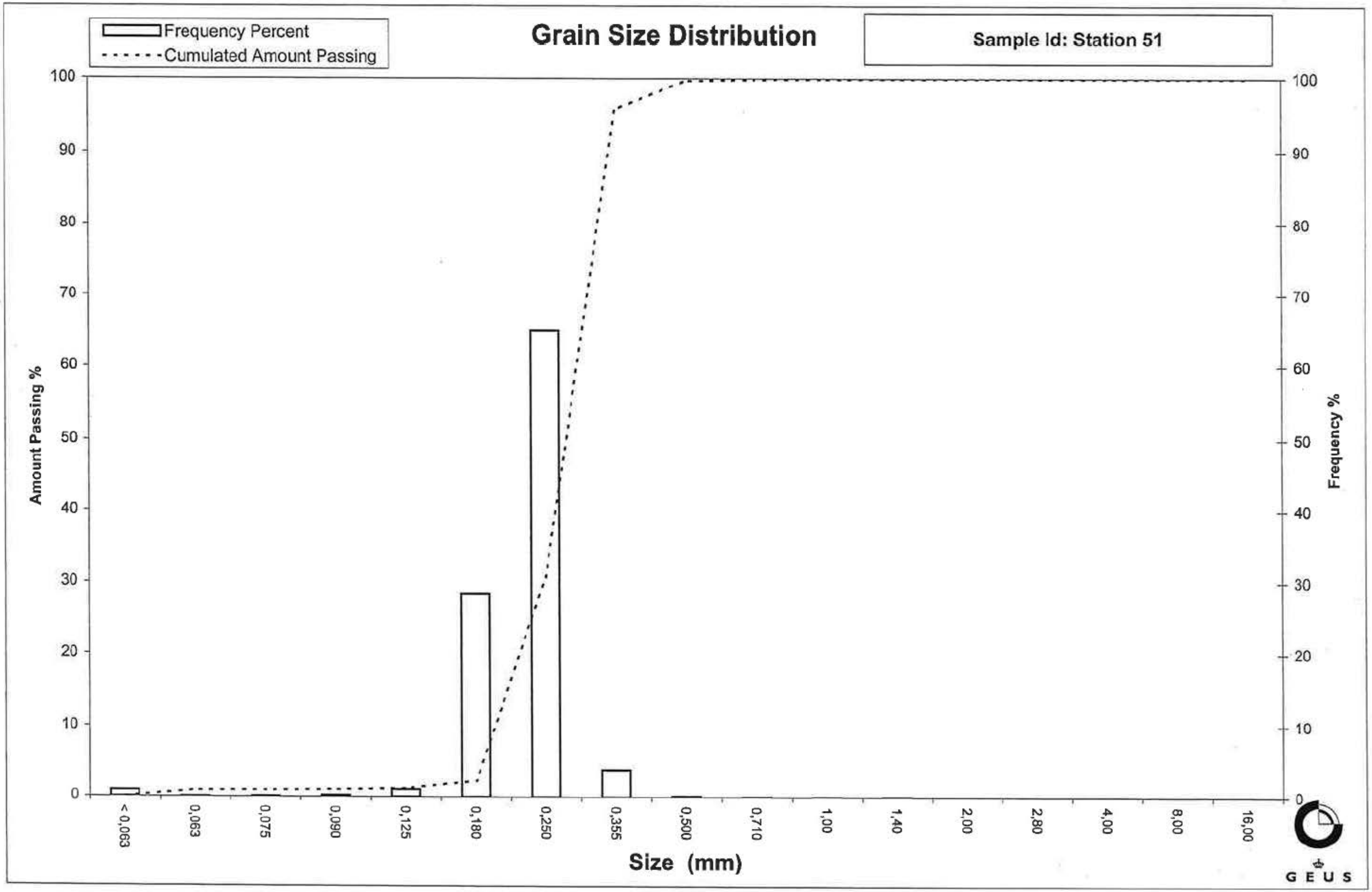
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 51
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 55
Lab. Id: 080030
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 107,7 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,02	0,02	99,98
Sand	1,00	0,00	0,05	0,05	99,94
Sand	0,710	0,49	0,05	0,05	99,89
Sand	0,500	1,00	0,06	0,06	99,83
Sand	0,355	1,49	0,16	0,15	99,68
Sand	0,250	2,00	2,45	2,27	97,41
Sand	0,180	2,47	41,79	38,80	58,61
Sand	0,125	3,00	58,58	54,39	4,22
Sand	0,090	3,47	3,13	2,91	1,31
Sand	0,075	3,74	0,32	0,30	1,01
Sand	0,063	3,99	0,14	0,13	0,88
	< 0,063	> 3,99	0,95	0,88	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,88
Sand, fine	(0,063 mm - 0,200 mm):	68,81
Sand, medium	(0,2 mm - 0,6 mm):	30,17
Sand, coarse	(0,6 mm - 2 mm):	0,14
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,25	2,03
16%	84%	0,23	2,15
25%	75%	0,21	2,25
40%	60%	0,18	2,45
Median 50%	50%	0,17	2,55
75%	25%	0,15	2,78
84%	16%	0,14	2,87
90%	10%	0,13	2,93
95%	5%	0,13	2,99

Moments Statistics

Mean	2,52
Sorting	0,33
Skewness	-0,09
Kurtosis	0,76
Uniformity Coefficient	1,39

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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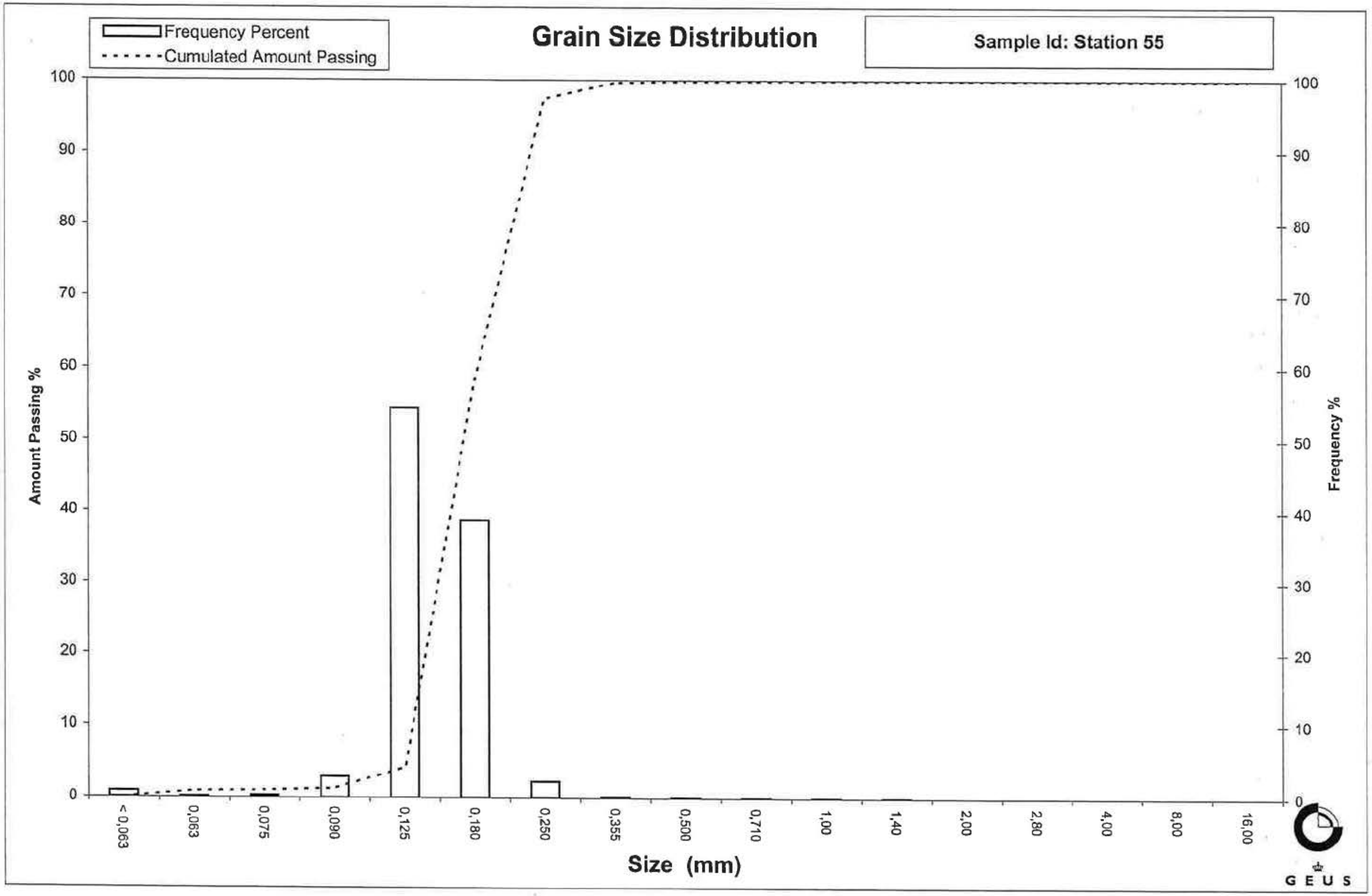
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 55
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 56
Lab. Id: 080031
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

Total Weight 101,64 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	0,00	0,00	100,00
	4,00	-2,00	0,00	0,00	100,00
	2,80	-1,49	0,00	0,00	100,00
	2,00	-1,00	0,02	0,02	99,98
Sand	1,40	-0,49	0,02	0,02	99,96
	1,00	0,00	0,02	0,02	99,94
	0,710	0,49	0,03	0,03	99,91
	0,500	1,00	0,04	0,04	99,87
	0,355	1,49	0,15	0,15	99,72
	0,250	2,00	3,23	3,18	96,55
	0,180	2,47	37,11	36,51	60,04
	0,125	3,00	56,46	55,55	4,49
	0,090	3,47	3,65	3,59	0,90
	0,075	3,74	0,39	0,38	0,51
	0,063	3,99	0,17	0,17	0,34
	< 0,063	> 3,99	0,35	0,34	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,34
Sand, fine	(0,063 mm - 0,200 mm):	70,12
Sand, medium	(0,2 mm - 0,6 mm):	29,42
Sand, coarse	(0,6 mm - 2 mm):	0,09
Gravel	(> 2 mm):	0,02
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,25	2,02
16%	84%	0,23	2,15
25%	75%	0,21	2,26
40%	60%	0,18	2,47
Median 50%	50%	0,17	2,56
75%	25%	0,15	2,78
84%	16%	0,14	2,87
90%	10%	0,13	2,94
95%	5%	0,13	2,99

Moments Statistics

Mean	2,53
Sorting	0,33
Skewness	-0,11
Kurtosis	0,77
Uniformity Coefficient	1,38

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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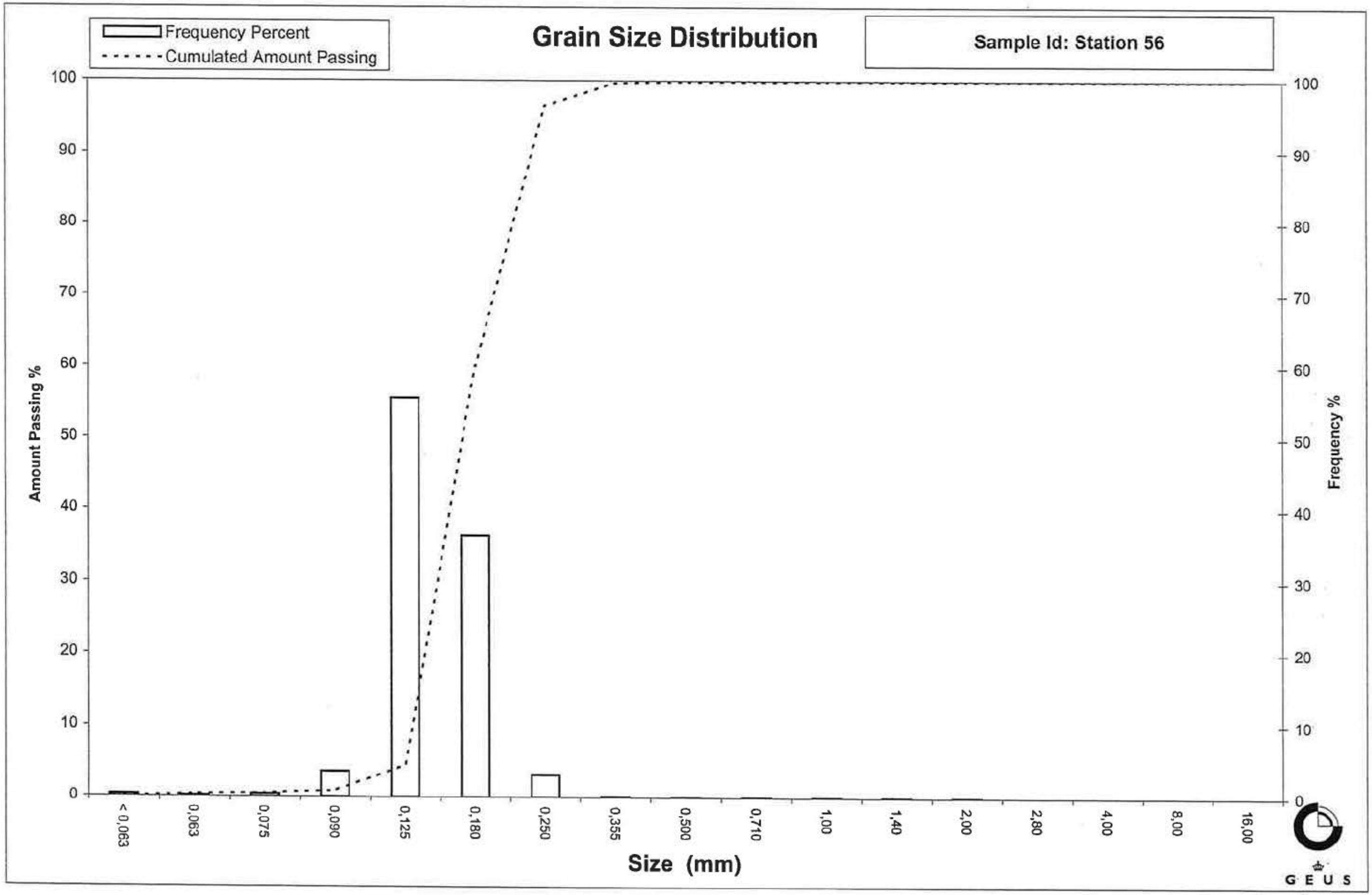

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 56
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 60
Lab. Id: 080031A
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 106,3 g

Size Fractions

Sieve Analysis	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
	8,00	-3,00	0,00	0,00	100,00
	4,00	-2,00	0,00	0,00	100,00
	2,80	-1,49	0,00	0,00	100,00
	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,02	0,02	99,98
	1,00	0,00	0,02	0,02	99,96
	0,710	0,49	0,16	0,15	99,81
	0,500	1,00	1,87	1,76	98,05
	0,355	1,49	17,34	16,31	81,74
	0,250	2,00	41,26	38,81	42,93
	0,180	2,47	38,97	36,66	6,27
	0,125	3,00	4,79	4,51	1,76
	0,090	3,47	0,51	0,48	1,28
	0,075	3,74	0,07	0,07	1,21
	0,063	3,99	0,04	0,04	1,18
	< 0,063	> 3,99	1,25	1,18	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,18
Sand, fine	(0,063 mm - 0,200 mm):	15,56
Sand, medium	(0,2 mm - 0,6 mm):	82,15
Sand, coarse	(0,6 mm - 2 mm):	1,11
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,47	1,08
16%	84%	0,38	1,41
25%	75%	0,34	1,57
40%	60%	0,30	1,76
Median 50%	50%	0,27	1,89
75%	25%	0,22	2,21
84%	16%	0,20	2,33
90%	10%	0,19	2,42
95%	5%	0,16	2,60

Moments Statistics

Mean	1,88
Sorting	0,46
Skewness	-0,06
Kurtosis	0,97
Uniformity Coefficient	1,58

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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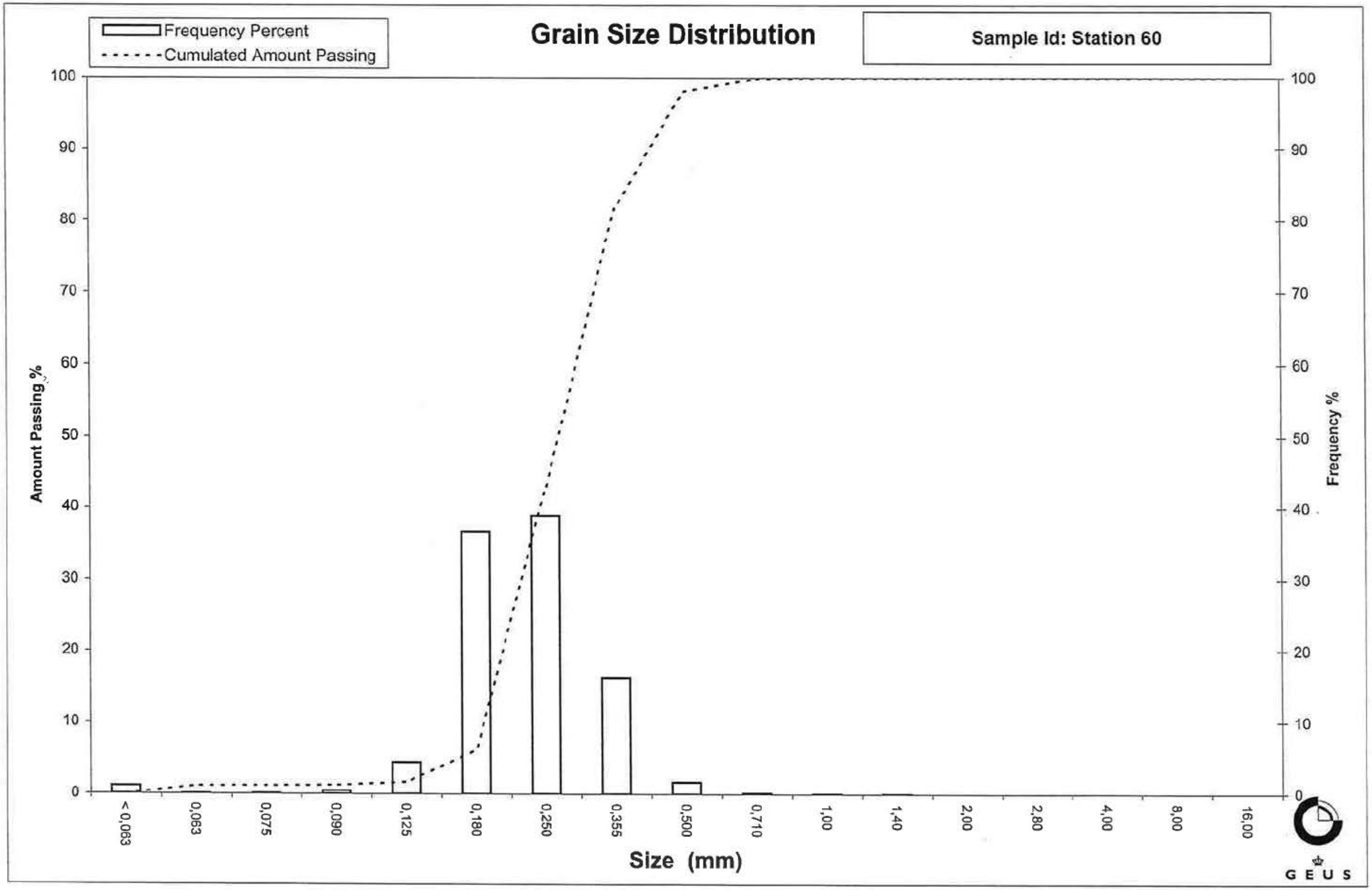
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 60
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 61
Lab. Id: 080032
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 101,7 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,04	0,04	99,96
Sand	1,00	0,00	0,09	0,09	99,87
Sand	0,710	0,49	0,33	0,32	99,55
Sand	0,500	1,00	2,93	2,88	96,67
Sand	0,355	1,49	18,59	18,28	78,39
Sand	0,250	2,00	41,92	41,22	37,17
Sand	0,180	2,47	31,62	31,09	6,08
Sand	0,125	3,00	4,58	4,50	1,57
Sand	0,090	3,47	0,47	0,46	1,11
Sand	0,075	3,74	0,09	0,09	1,02
Sand	0,063	3,99	0,04	0,04	0,98
	< 0,063	> 3,99	1,00	0,98	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,98
Sand, fine	(0,063 mm - 0,200 mm):	13,98
Sand, medium	(0,2 mm - 0,6 mm):	83,08
Sand, coarse	(0,6 mm - 2 mm):	1,96
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,49	1,04
16%	84%	0,40	1,32
25%	75%	0,35	1,53
40%	60%	0,31	1,70
Median 50%	50%	0,28	1,82
75%	25%	0,22	2,17
84%	16%	0,20	2,31
90%	10%	0,19	2,40
95%	5%	0,17	2,58

Moments Statistics

Mean	1,82
Sorting	0,48
Skewness	-0,02
Kurtosis	0,99
Uniformity Coefficient	1,63

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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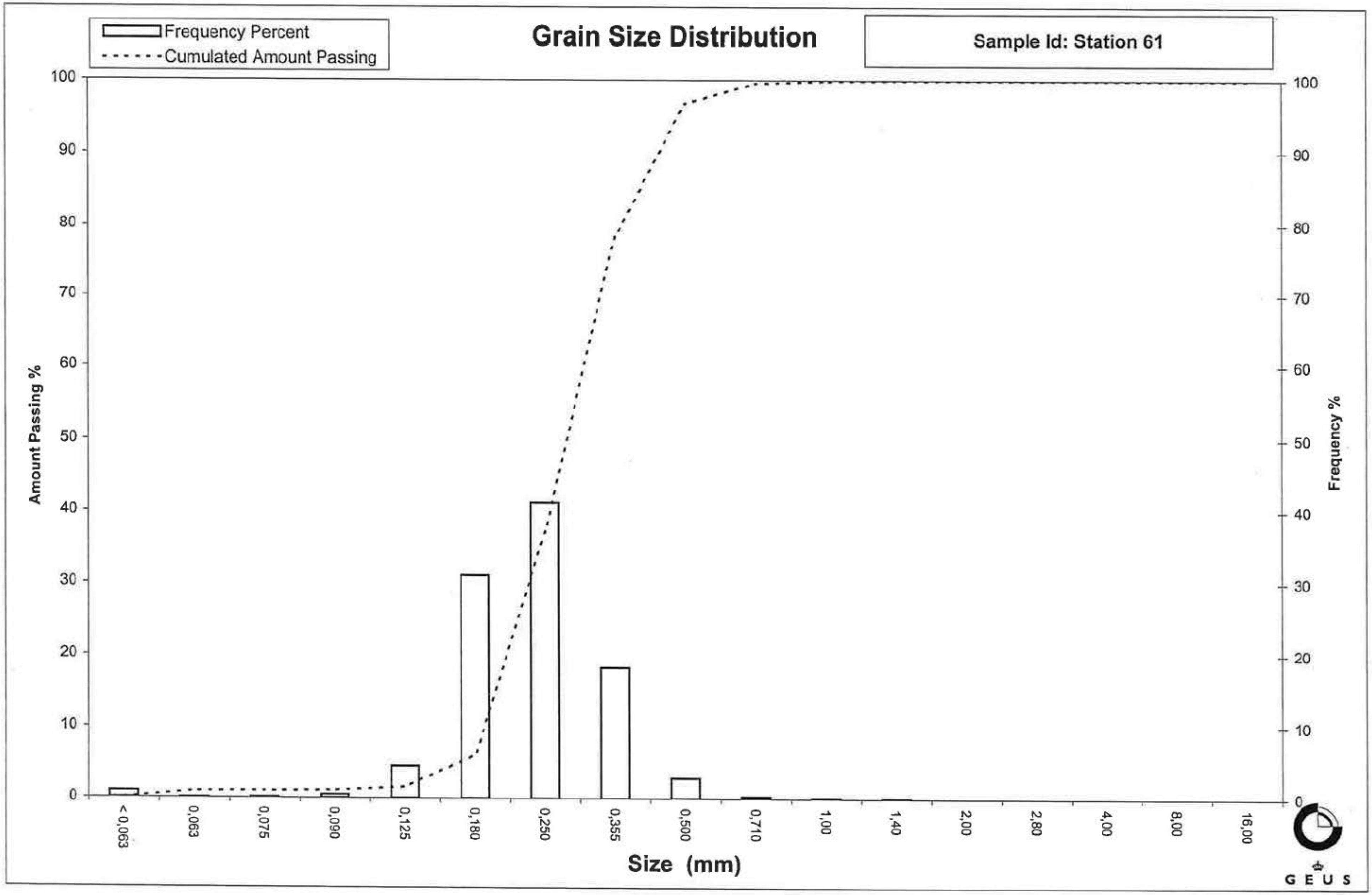
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 61
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 70
Lab. Id: 080033
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 103,48 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,16	0,15	99,85
Sand	1,40	-0,49	0,05	0,05	99,80
Sand	1,00	0,00	0,07	0,07	99,73
Sand	0,710	0,49	0,23	0,22	99,51
Sand	0,500	1,00	0,72	0,70	98,81
Sand	0,355	1,49	2,23	2,16	96,66
Sand	0,250	2,00	8,54	8,25	88,40
Sand	0,180	2,47	31,01	29,97	58,44
Sand	0,125	3,00	52,74	50,97	7,47
Sand	0,090	3,47	6,81	6,58	0,89
Sand	0,075	3,74	0,48	0,46	0,43
Sand	0,063	3,99	0,11	0,11	0,32
	< 0,063	> 3,99	0,33	0,32	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,32
Sand, fine	(0,063 mm - 0,200 mm):	66,68
Sand, medium	(0,2 mm - 0,6 mm):	32,14
Sand, coarse	(0,6 mm - 2 mm):	0,70
Gravel	(> 2 mm):	0,15
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,33	1,58
16%	84%	0,24	2,06
25%	75%	0,22	2,19
40%	60%	0,18	2,44
Median 50%	50%	0,17	2,55
75%	25%	0,14	2,80
84%	16%	0,13	2,90
90%	10%	0,13	2,97
95%	5%	0,11	3,16

Moments Statistics

Mean	2,50
Sorting	0,45
Skewness	-0,20
Kurtosis	1,07
Uniformity Coefficient	1,44

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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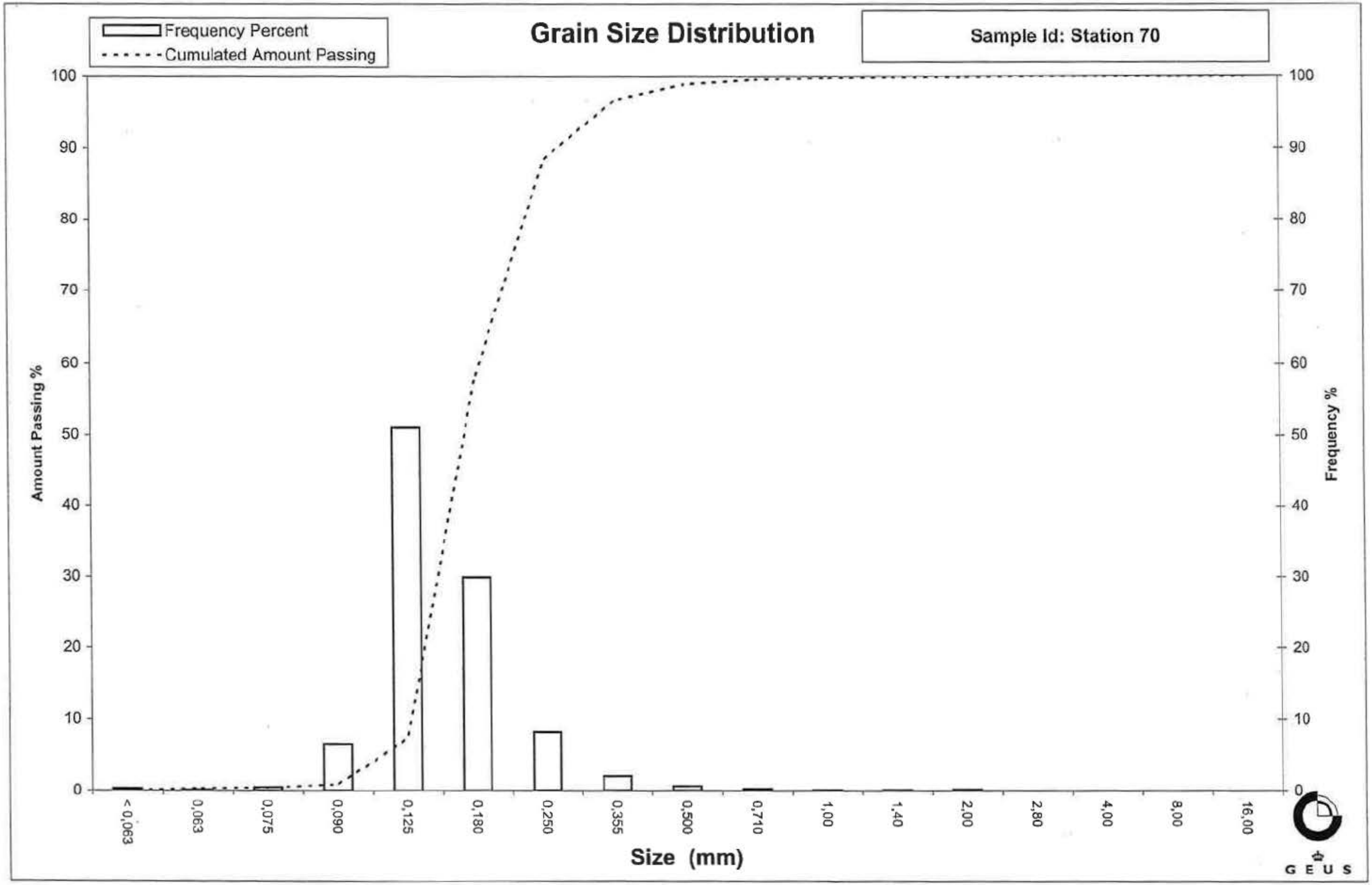
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 70
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 71
Lab. Id: 080034
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

G E U S

Total Weight 104,3 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,06	0,06	99,94
Sand	1,40	-0,49	0,04	0,04	99,90
Sand	1,00	0,00	0,07	0,07	99,84
Sand	0,710	0,49	0,19	0,18	99,65
Sand	0,500	1,00	0,73	0,70	98,95
Sand	0,355	1,49	2,59	2,48	96,47
Sand	0,250	2,00	9,05	8,68	87,79
Sand	0,180	2,47	34,51	33,09	54,71
Sand	0,125	3,00	51,08	48,97	5,73
Sand	0,090	3,47	5,31	5,09	0,64
Sand	0,075	3,74	0,32	0,31	0,34
Sand	0,063	3,99	0,09	0,09	0,25
	< 0,063	> 3,99	0,26	0,25	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,25
Sand, fine	(0,063 mm - 0,200 mm):	63,91
Sand, medium	(0,2 mm - 0,6 mm):	35,13
Sand, coarse	(0,6 mm - 2 mm):	0,65
Gravel	(> 2 mm):	0,06
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,34	1,57
16%	84%	0,24	2,05
25%	75%	0,22	2,17
40%	60%	0,19	2,39
Median 50%	50%	0,17	2,52
75%	25%	0,15	2,77
84%	16%	0,14	2,87
90%	10%	0,13	2,95
95%	5%	0,12	3,06

Moments Statistics

Mean	2,48
Sorting	0,43
Skewness	-0,21
Kurtosis	1,01
Uniformity Coefficient	1,47

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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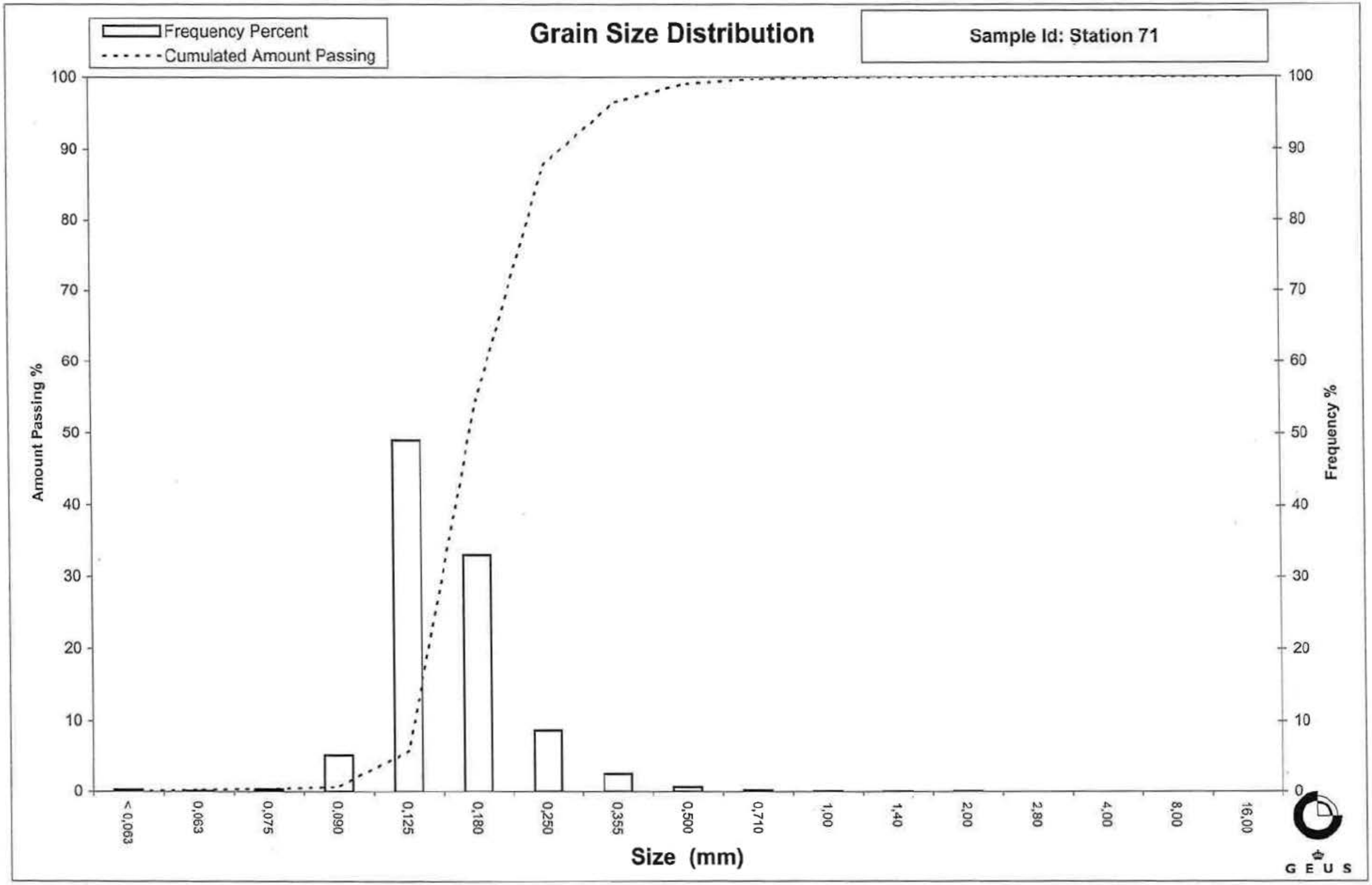

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 71
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id:	Station 78
Lab. Id:	080035
Submitter:	DFU
Subject:	Tobistogt< L 151> dec.07
Date:	Marts/april 2008
Executed:	K.Fries/I. Nørgaard
Remarks:	For mat < 2mm

GEUS

Total Weight 106,85 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,00	0,00	100,00
Sand	1,00	0,00	0,08	0,07	99,93
Sand	0,710	0,49	0,08	0,07	99,85
Sand	0,500	1,00	0,25	0,23	99,62
Sand	0,355	1,49	1,82	1,70	97,91
Sand	0,250	2,00	10,81	10,12	87,80
Sand	0,180	2,47	52,55	49,18	38,61
Sand	0,125	3,00	38,46	35,99	2,62
Sand	0,090	3,47	1,49	1,39	1,23
Sand	0,075	3,74	0,13	0,12	1,10
Sand	0,063	3,99	0,06	0,06	1,05
	< 0,063	> 3,99	1,12	1,05	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,05
Sand, fine	(0,063 mm - 0,200 mm):	51,62
Sand, medium	(0,2 mm - 0,6 mm):	47,06
Sand, coarse	(0,6 mm - 2 mm):	0,27
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,32	1,62
16%	84%	0,24	2,03
25%	75%	0,23	2,11
40%	60%	0,21	2,25
Median 50%	50%	0,20	2,35
75%	25%	0,16	2,65
84%	16%	0,15	2,78
90%	10%	0,14	2,88
95%	5%	0,13	2,96

Moments Statistics

Mean	2,39
Sorting	0,39
Skewness	0,03
Kurtosis	1,01
Uniformity Coefficient	1,54

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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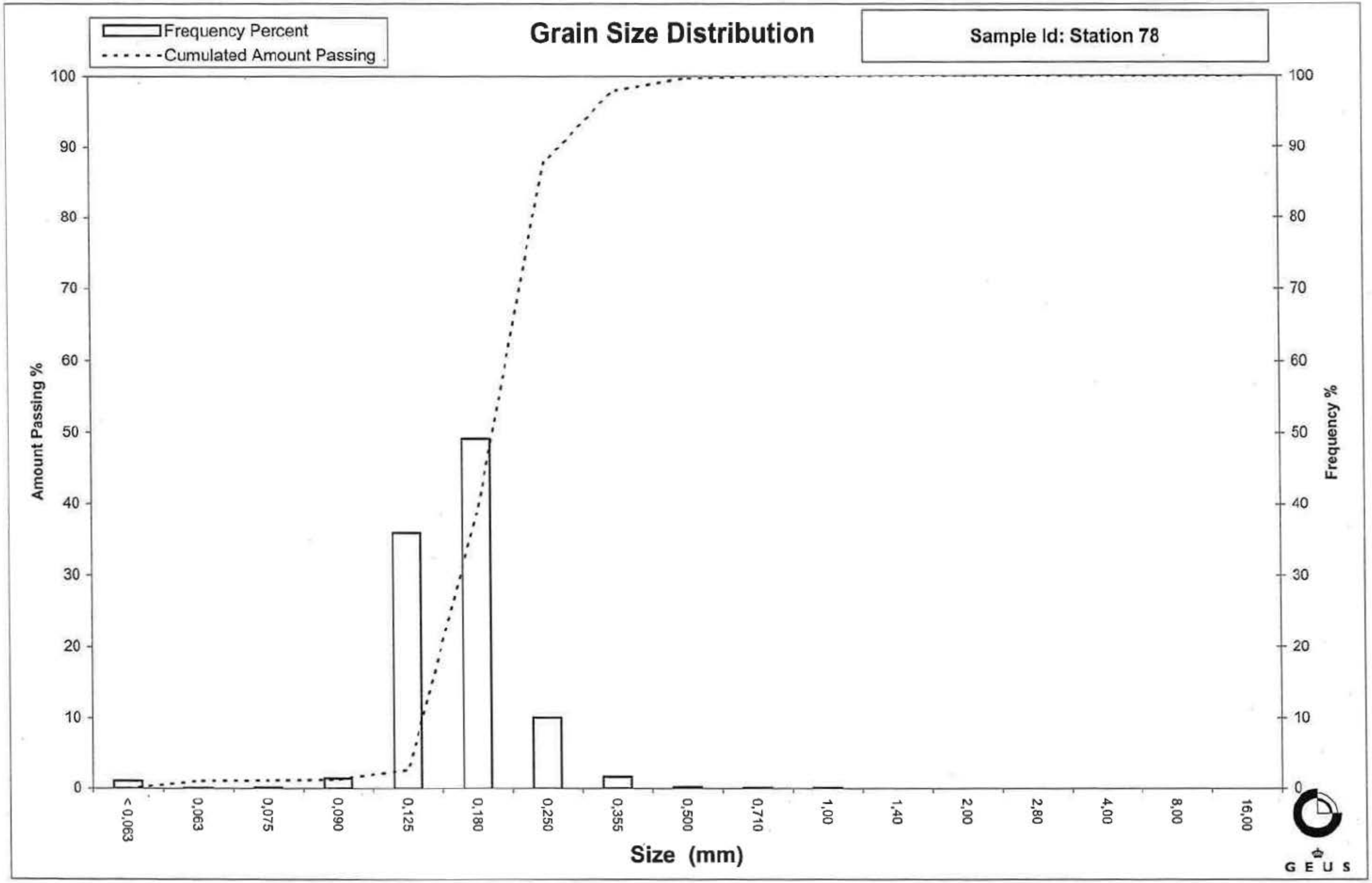

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 78
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 79
Lab. Id: 080036
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 101,21 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,02	0,02	99,98
Sand	1,40	-0,49	0,02	0,02	99,96
Sand	1,00	0,00	0,08	0,08	99,88
Sand	0,710	0,49	0,11	0,11	99,77
Sand	0,500	1,00	0,40	0,40	99,38
Sand	0,355	1,49	2,41	2,38	97,00
Sand	0,250	2,00	13,53	13,37	83,63
Sand	0,180	2,47	48,65	48,07	35,56
Sand	0,125	3,00	33,78	33,38	2,18
Sand	0,090	3,47	1,74	1,72	0,46
Sand	0,075	3,74	0,16	0,16	0,31
Sand	0,063	3,99	0,05	0,05	0,26
	< 0,063	> 3,99	0,26	0,26	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,26
Sand, fine	(0,063 mm - 0,200 mm):	49,04
Sand, medium	(0,2 mm - 0,6 mm):	50,27
Sand, coarse	(0,6 mm - 2 mm):	0,41
Gravel	(> 2 mm):	0,02
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,34	1,56
16%	84%	0,25	1,98
25%	75%	0,24	2,07
40%	60%	0,22	2,21
Median 50%	50%	0,20	2,31
75%	25%	0,16	2,62
84%	16%	0,15	2,76
90%	10%	0,14	2,86
95%	5%	0,13	2,95

Moments Statistics

Mean	2,35
Sorting	0,40
Skewness	0,03
Kurtosis	1,04
Uniformity Coefficient	1,56

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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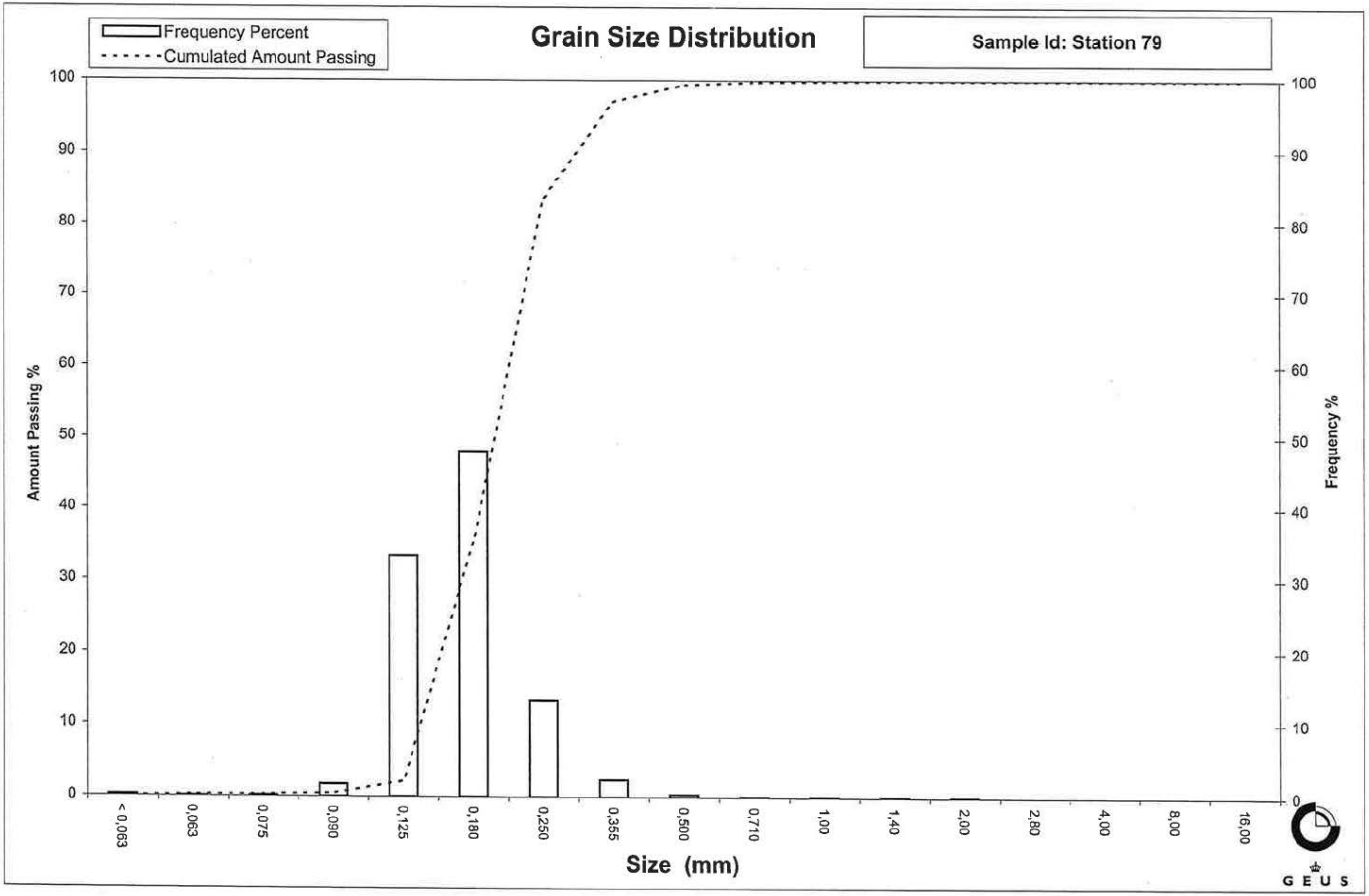

Grain Size Distribution
Frequency Percent
Cumulated Amount Passing
Sample Id: Station 79
Amount Passing %
Frequency %
Size (mm)
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
0
10
20
30
40
50
60
70
80
90
100
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 86
Lab. Id: 080037
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 114,12 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	3,11	2,73	97,27
Gravel	4,00	-2,00	5,37	4,71	92,57
Gravel	2,80	-1,49	2,94	2,58	89,99
Gravel	2,00	-1,00	1,67	1,46	88,53
Sand	1,40	-0,49	1,05	0,92	87,61
Sand	1,00	0,00	0,82	0,72	86,89
Sand	0,710	0,49	0,88	0,77	86,12
Sand	0,500	1,00	1,20	1,05	85,07
Sand	0,355	1,49	2,63	2,30	82,76
Sand	0,250	2,00	9,64	8,45	74,32
Sand	0,180	2,47	31,10	27,25	47,06
Sand	0,125	3,00	44,27	38,79	8,27
Sand	0,090	3,47	8,52	7,47	0,81
Sand	0,075	3,74	0,56	0,49	0,32
Sand	0,063	3,99	0,12	0,11	0,21
	< 0,063	> 3,99	0,24	0,21	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,21
Sand, fine	(0,063 mm - 0,200 mm):	54,64
Sand, medium	(0,2 mm - 0,6 mm):	30,72
Sand, coarse	(0,6 mm - 2 mm):	2,96
Gravel	(> 2 mm):	11,47
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	6,07	-2,60
16%	84%	0,43	1,21
25%	75%	0,26	1,95
40%	60%	0,21	2,23
Median 50%	50%	0,19	2,41
75%	25%	0,15	2,75
84%	16%	0,14	2,88
90%	10%	0,13	2,97
95%	5%	0,11	3,19

Moments Statistics

Mean	2,17
Sorting	1,29
Skewness	-0,59
Kurtosis	2,98
Uniformity Coefficient	1,67

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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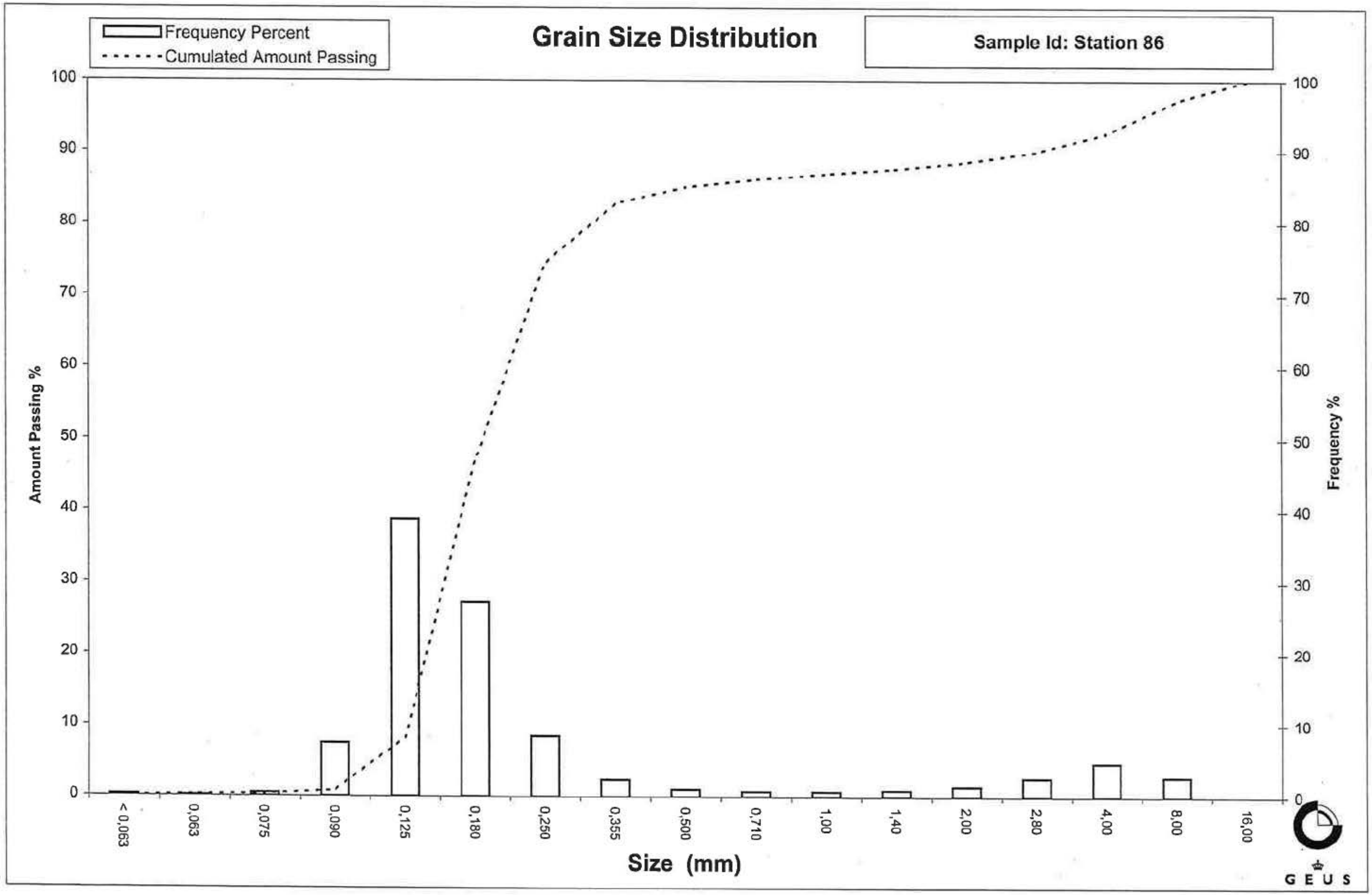
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 86
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 87
Lab. Id: 080038
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 104,92 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	4,08	3,89	96,11
Gravel	4,00	-2,00	4,65	4,43	91,68
Gravel	2,80	-1,49	1,10	1,05	90,63
Gravel	2,00	-1,00	1,28	1,22	89,41
Sand	1,40	-0,49	0,71	0,68	88,73
Sand	1,00	0,00	0,61	0,58	88,15
Sand	0,710	0,49	0,59	0,56	87,59
Sand	0,500	1,00	0,97	0,92	86,67
Sand	0,355	1,49	2,23	2,13	84,54
Sand	0,250	2,00	8,01	7,63	76,91
Sand	0,180	2,47	29,65	28,26	48,65
Sand	0,125	3,00	41,25	39,32	9,33
Sand	0,090	3,47	8,82	8,41	0,92
Sand	0,075	3,74	0,51	0,49	0,44
Sand	0,063	3,99	0,14	0,13	0,30
	< 0,063	> 3,99	0,32	0,30	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,30
Sand, fine	(0,063 mm - 0,200 mm):	56,42
Sand, medium	(0,2 mm - 0,6 mm):	30,39
Sand, coarse	(0,6 mm - 2 mm):	2,30
Gravel	(> 2 mm):	10,59
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	7,00	-2,81
16%	84%	0,35	1,52
25%	75%	0,25	2,03
40%	60%	0,21	2,26
Median 50%	50%	0,18	2,45
75%	25%	0,15	2,77
84%	16%	0,13	2,90
90%	10%	0,13	2,99
95%	5%	0,11	3,22

Moments Statistics

Mean	2,29
Sorting	1,26
Skewness	-0,54
Kurtosis	3,34
Uniformity Coefficient	1,65

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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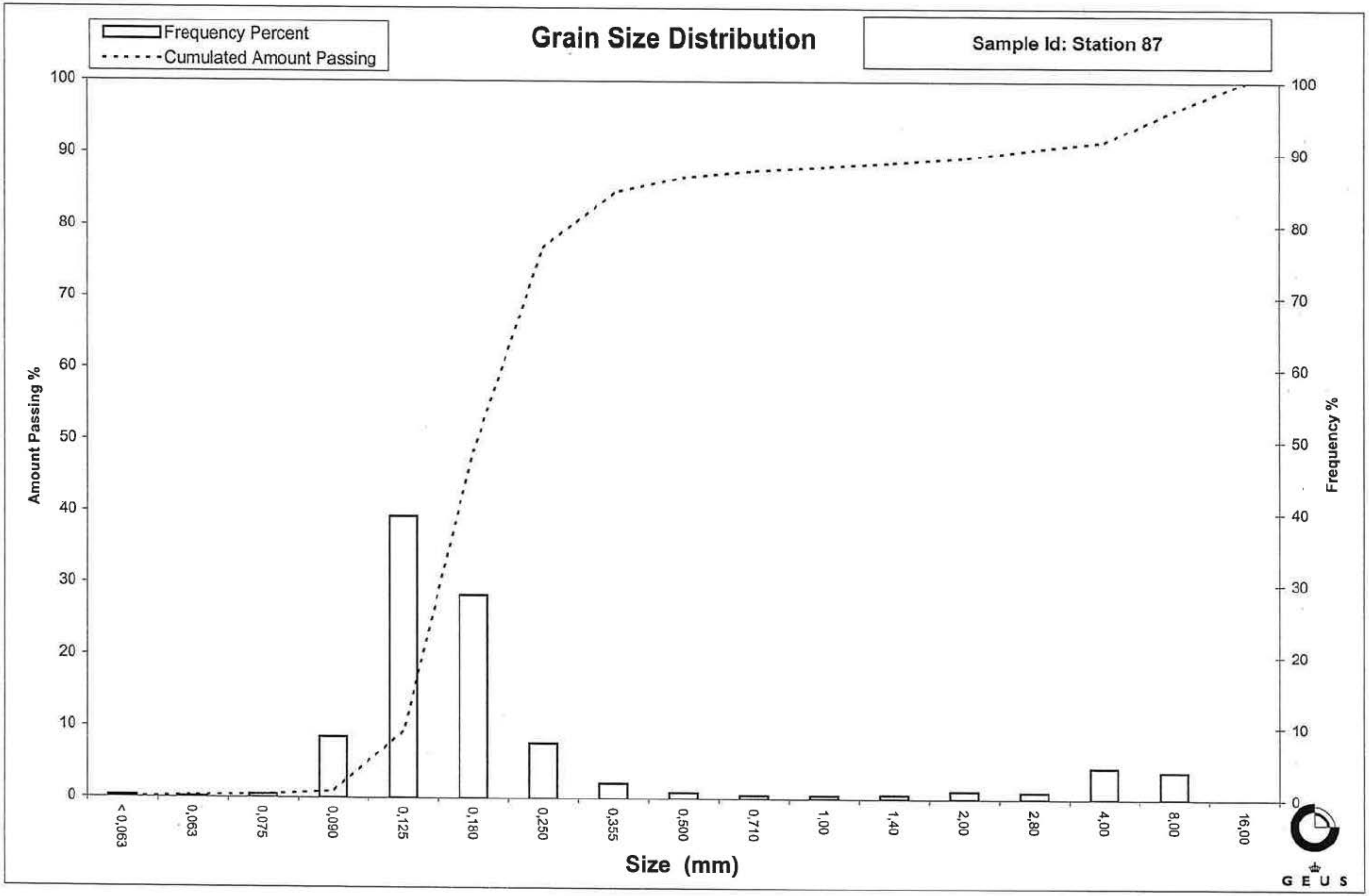
Grain Size Distribution
Frequency Percent
Cumulated Amount Passing
Sample Id: Station 87
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 92
Lab. Id: 080039
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 103,25 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,30	0,29	99,71
Sand	1,40	-0,49	0,05	0,05	99,66
Sand	1,00	0,00	0,06	0,06	99,60
Sand	0,710	0,49	0,07	0,07	99,54
Sand	0,500	1,00	0,08	0,08	99,46
Sand	0,355	1,49	0,40	0,39	99,07
Sand	0,250	2,00	3,11	3,01	96,06
Sand	0,180	2,47	30,74	29,77	66,29
Sand	0,125	3,00	58,71	56,86	9,42
Sand	0,090	3,47	8,42	8,15	1,27
Sand	0,075	3,74	0,40	0,39	0,88
Sand	0,063	3,99	0,16	0,15	0,73
	< 0,063	> 3,99	0,75	0,73	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,73
Sand, fine	(0,063 mm - 0,200 mm):	74,07
Sand, medium	(0,2 mm - 0,6 mm):	24,70
Sand, coarse	(0,6 mm - 2 mm):	0,21
Gravel	(> 2 mm):	0,29
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,25	2,01
16%	84%	0,22	2,17
25%	75%	0,20	2,32
40%	60%	0,17	2,52
Median 50%	50%	0,16	2,61
75%	25%	0,14	2,84
84%	16%	0,13	2,93
90%	10%	0,13	2,99
95%	5%	0,11	3,24

Moments Statistics

Mean	2,57
Sorting	0,37
Skewness	-0,06
Kurtosis	0,97
Uniformity Coefficient	1,39

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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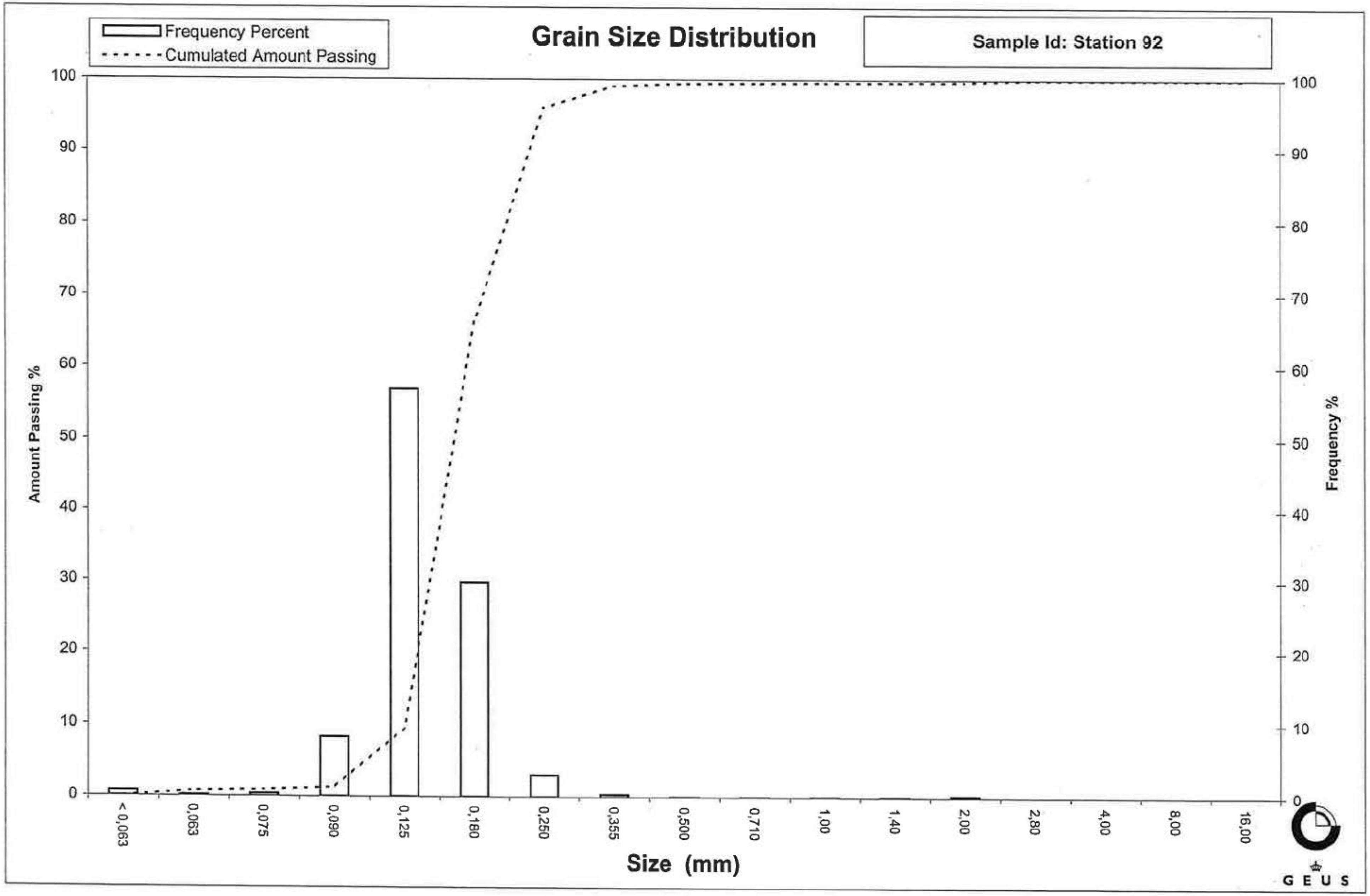

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 92
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 93
Lab. Id: 080040
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 107,08 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,52	0,49	99,51
Gravel	2,00	-1,00	0,34	0,32	99,20
Sand	1,40	-0,49	0,02	0,02	99,18
Sand	1,00	0,00	0,04	0,04	99,14
Sand	0,710	0,49	0,04	0,04	99,10
Sand	0,500	1,00	0,08	0,07	99,03
Sand	0,355	1,49	0,38	0,35	98,67
Sand	0,250	2,00	3,85	3,60	95,08
Sand	0,180	2,47	29,99	28,01	67,07
Sand	0,125	3,00	61,33	57,27	9,80
Sand	0,090	3,47	9,14	8,54	1,26
Sand	0,075	3,74	0,59	0,55	0,71
Sand	0,063	3,99	0,16	0,15	0,56
	< 0,063	> 3,99	0,60	0,56	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,56
Sand, fine	(0,063 mm - 0,200 mm):	74,51
Sand, medium	(0,2 mm - 0,6 mm):	23,99
Sand, coarse	(0,6 mm - 2 mm):	0,13
Gravel	(> 2 mm):	0,80
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,25	2,00
16%	84%	0,22	2,17
25%	75%	0,20	2,32
40%	60%	0,17	2,53
Median 50%	50%	0,16	2,61
75%	25%	0,14	2,84
84%	16%	0,13	2,93
90%	10%	0,13	3,00
95%	5%	0,11	3,25

Moments Statistics

Mean	2,57
Sorting	0,38
Skewness	-0,07
Kurtosis	0,99
Uniformity Coefficient	1,38

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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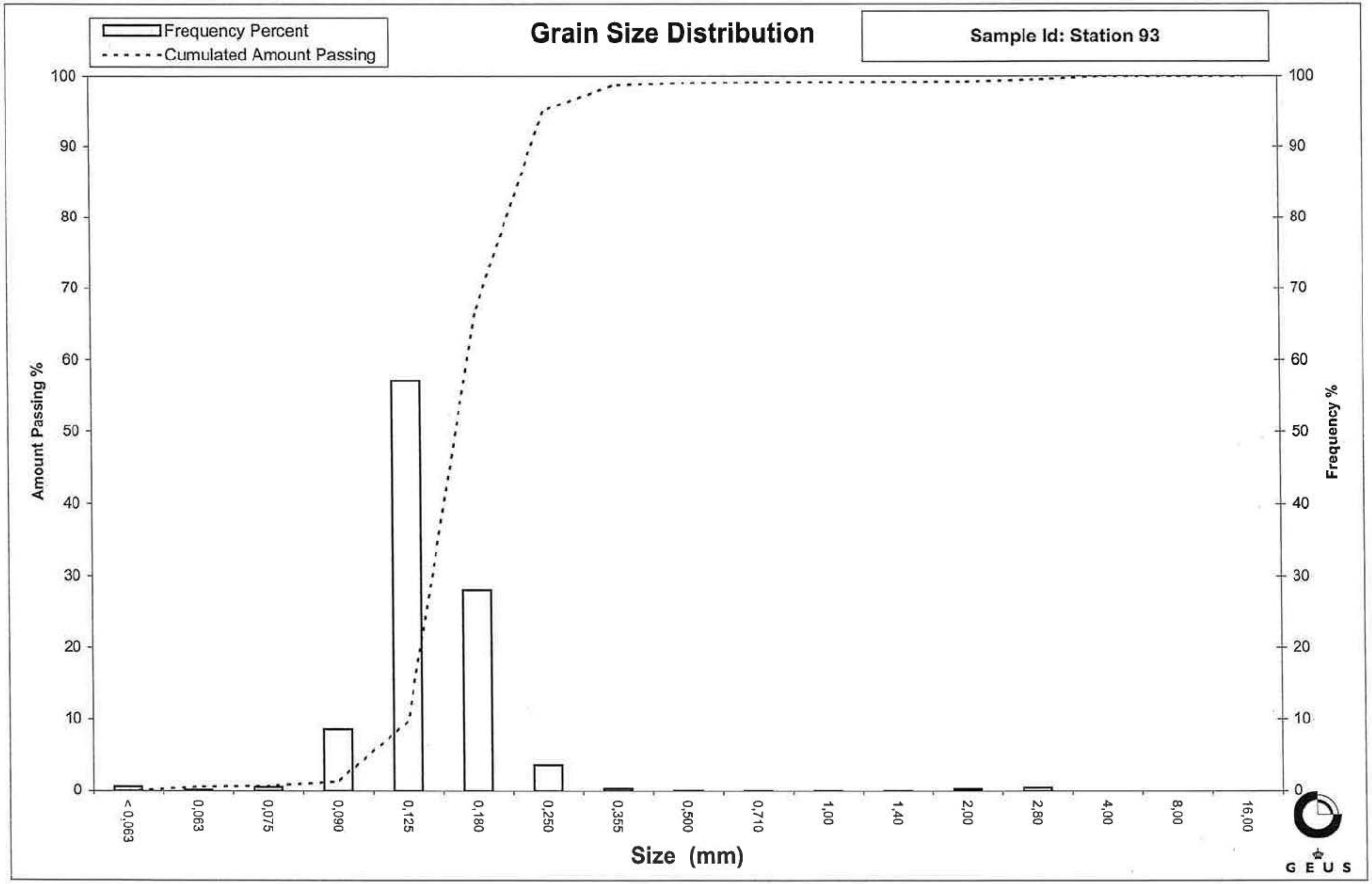

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 93
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 100
Lab. Id: 080041
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 102,56 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,12	0,12	99,88
Gravel	2,80	-1,49	0,11	0,11	99,78
Gravel	2,00	-1,00	0,03	0,03	99,75
Sand	1,40	-0,49	0,02	0,02	99,73
Sand	1,00	0,00	0,03	0,03	99,70
Sand	0,710	0,49	0,03	0,03	99,67
Sand	0,500	1,00	0,08	0,08	99,59
Sand	0,355	1,49	0,46	0,45	99,14
Sand	0,250	2,00	5,68	5,54	93,60
Sand	0,180	2,47	33,86	33,01	60,59
Sand	0,125	3,00	53,10	51,77	8,81
Sand	0,090	3,47	8,02	7,82	0,99
Sand	0,075	3,74	0,45	0,44	0,56
Sand	0,063	3,99	0,10	0,10	0,46
	< 0,063	> 3,99	0,47	0,46	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,46
Sand, fine	(0,063 mm - 0,200 mm):	69,56
Sand, medium	(0,2 mm - 0,6 mm):	29,61
Sand, coarse	(0,6 mm - 2 mm):	0,12
Gravel	(> 2 mm):	0,25
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,28	1,85
16%	84%	0,23	2,12
25%	75%	0,21	2,25
40%	60%	0,18	2,48
Median 50%	50%	0,17	2,57
75%	25%	0,14	2,81
84%	16%	0,13	2,91
90%	10%	0,13	2,99
95%	5%	0,11	3,21

Moments Statistics

Mean	2,53
Sorting	0,40
Skewness	-0,09
Kurtosis	0,98
Uniformity Coefficient	1,42

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)
Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)
Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)
Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)
Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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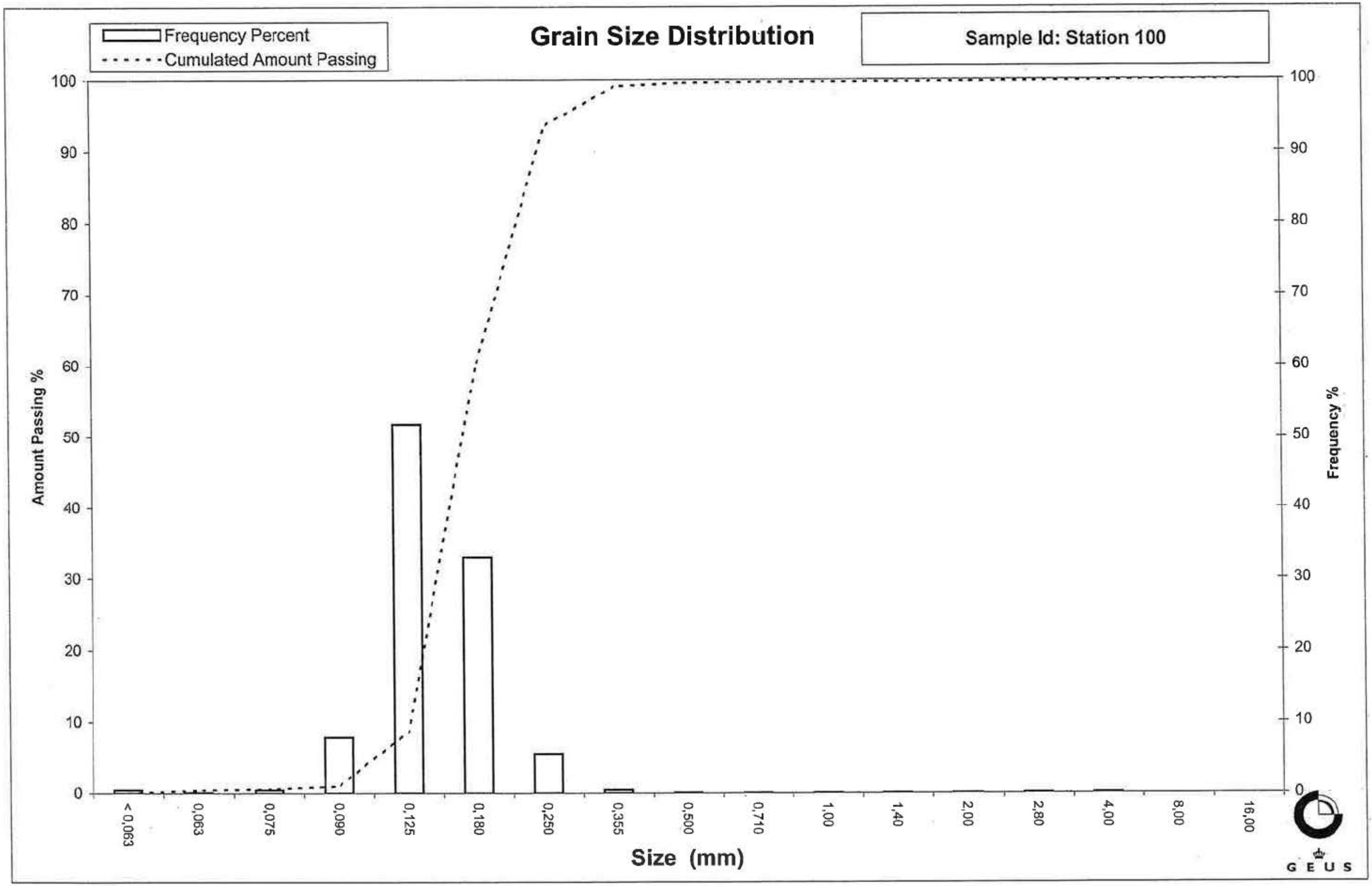

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 100
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 101
Lab. Id: 080042
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

G E U S

Total Weight 102,31 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,13	0,13	99,87
Gravel	2,00	-1,00	0,05	0,05	99,82
Sand	1,40	-0,49	0,03	0,03	99,79
Sand	1,00	0,00	0,05	0,05	99,75
Sand	0,710	0,49	0,08	0,08	99,67
Sand	0,500	1,00	0,10	0,10	99,57
Sand	0,355	1,49	0,48	0,47	99,10
Sand	0,250	2,00	5,10	4,98	94,12
Sand	0,180	2,47	37,02	36,18	57,93
Sand	0,125	3,00	50,86	49,71	8,22
Sand	0,090	3,47	7,35	7,18	1,04
Sand	0,075	3,74	0,45	0,44	0,60
Sand	0,063	3,99	0,11	0,11	0,49
	< 0,063	> 3,99	0,50	0,49	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,49
Sand, fine	(0,063 mm - 0,200 mm):	67,78
Sand, medium	(0,2 mm - 0,6 mm):	31,35
Sand, coarse	(0,6 mm - 2 mm):	0,21
Gravel	(> 2 mm):	0,18
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,27	1,90
16%	84%	0,23	2,12
25%	75%	0,21	2,23
40%	60%	0,18	2,44
Median 50%	50%	0,17	2,55
75%	25%	0,14	2,80
84%	16%	0,13	2,90
90%	10%	0,13	2,98
95%	5%	0,11	3,19

Moments Statistics

Mean	2,52
Sorting	0,39
Skewness	-0,05
Kurtosis	0,93
Uniformity Coefficient	1,45

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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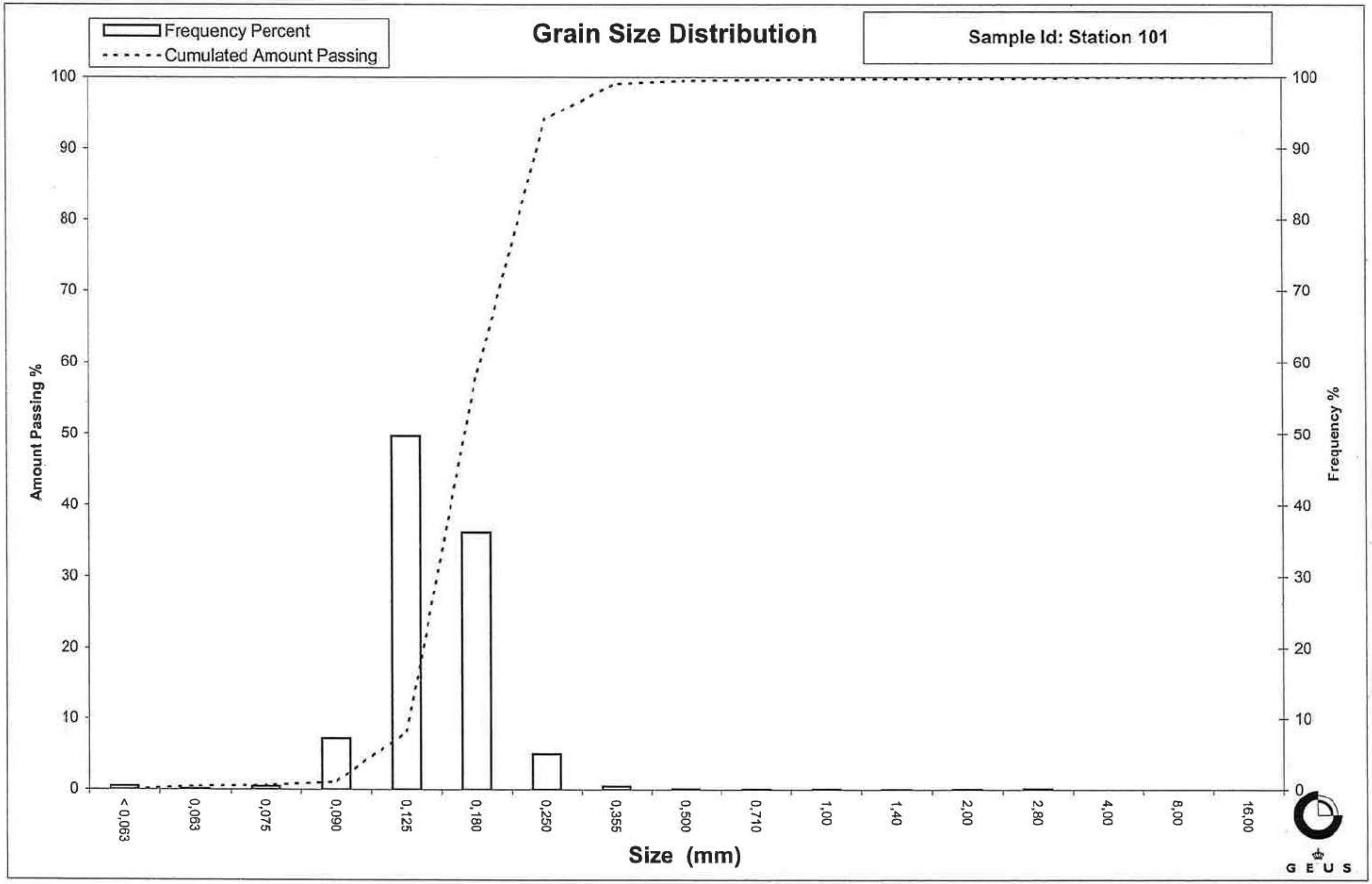
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 101
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution
Geotechnical

Sample Id: Station 106
Lab. Id: 080043
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 102,07 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	2,37	2,32	97,68
Gravel	4,00	-2,00	1,09	1,07	96,61
Gravel	2,80	-1,49	1,04	1,02	95,59
Gravel	2,00	-1,00	1,10	1,08	94,51
Sand	1,40	-0,49	1,19	1,17	93,35
Sand	1,00	0,00	1,36	1,33	92,02
Sand	0,710	0,49	1,07	1,05	90,97
Sand	0,500	1,00	1,45	1,42	89,55
Sand	0,355	1,49	2,72	2,66	86,88
Sand	0,250	2,00	10,60	10,39	76,50
Sand	0,180	2,47	33,87	33,18	43,31
Sand	0,125	3,00	36,68	35,94	7,38
Sand	0,090	3,47	5,94	5,82	1,56
Sand	0,075	3,74	0,51	0,50	1,06
Sand	0,063	3,99	0,12	0,12	0,94
	< 0,063	> 3,99	0,96	0,94	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,94
Sand, fine	(0,063 mm - 0,200 mm):	51,85
Sand, medium	(0,2 mm - 0,6 mm):	37,43
Sand, coarse	(0,6 mm - 2 mm):	4,29
Gravel	(> 2 mm):	5,49
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	2,36	-1,24
16%	84%	0,33	1,62
25%	75%	0,25	2,02
40%	60%	0,22	2,22
Median 50%	50%	0,19	2,37
75%	25%	0,15	2,72
84%	16%	0,14	2,86
90%	10%	0,13	2,95
95%	5%	0,11	3,18

Moments Statistics

Mean	2,28
Sorting	0,98
Skewness	-0,42
Kurtosis	2,59
Uniformity Coefficient	1,67

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)
Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)
Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)
Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)
Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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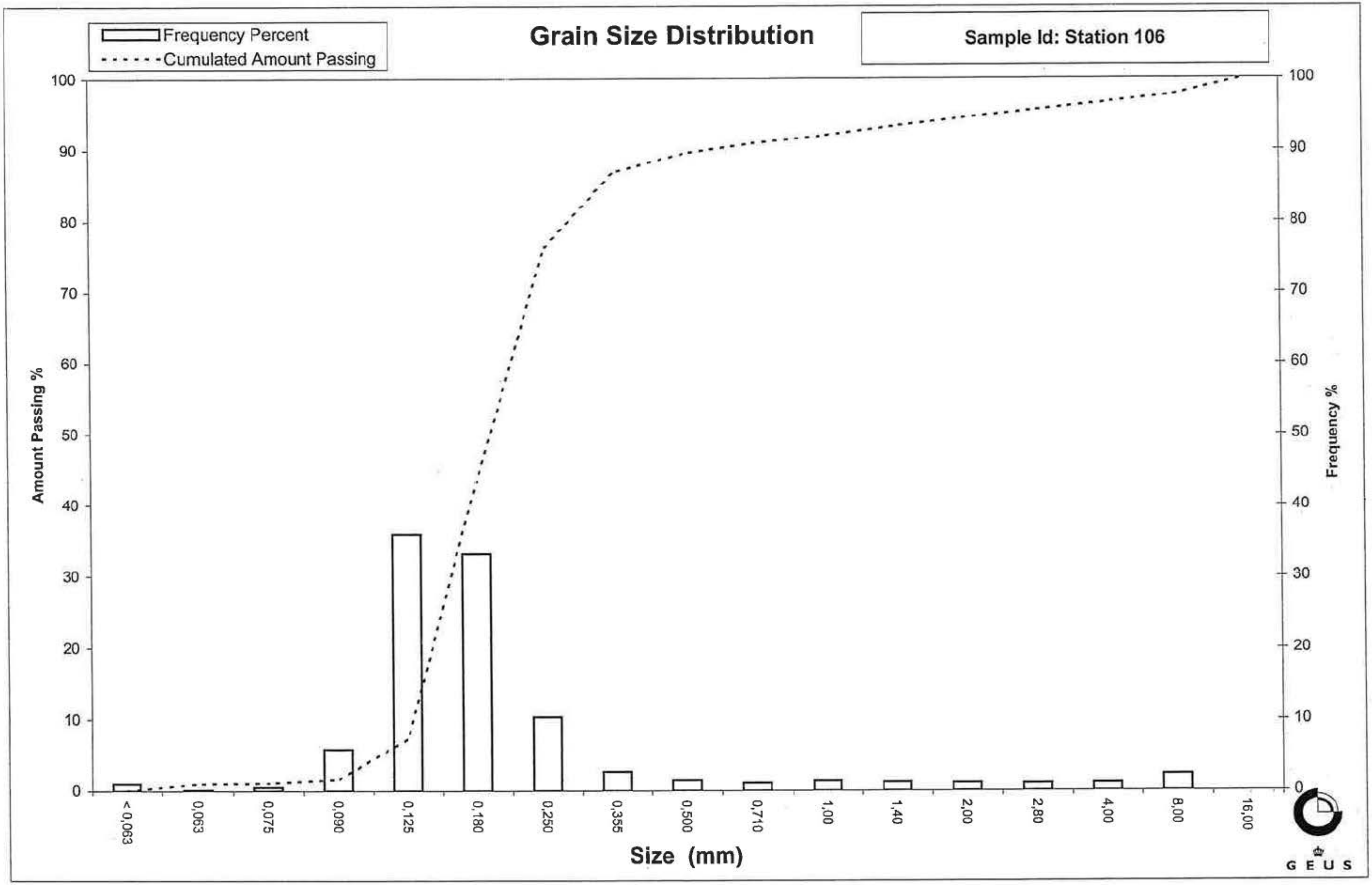

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 106
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 107
Lab. Id: 080044
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 109,95 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,92	0,84	99,16
Gravel	2,80	-1,49	0,55	0,50	98,66
Gravel	2,00	-1,00	0,74	0,67	97,99
Sand	1,40	-0,49	0,81	0,74	97,25
Sand	1,00	0,00	0,70	0,64	96,62
Sand	0,710	0,49	0,78	0,71	95,91
Sand	0,500	1,00	1,22	1,11	94,80
Sand	0,355	1,49	2,66	2,42	92,38
Sand	0,250	2,00	12,71	11,56	80,82
Sand	0,180	2,47	37,63	34,22	46,59
Sand	0,125	3,00	44,13	40,14	6,46
Sand	0,090	3,47	6,11	5,56	0,90
Sand	0,075	3,74	0,50	0,45	0,45
Sand	0,063	3,99	0,11	0,10	0,35
	< 0,063	> 3,99	0,38	0,35	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,35
Sand, fine	(0,063 mm - 0,200 mm):	56,03
Sand, medium	(0,2 mm - 0,6 mm):	38,95
Sand, coarse	(0,6 mm - 2 mm):	2,66
Gravel	(> 2 mm):	2,01
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,54	0,89
16%	84%	0,28	1,84
25%	75%	0,24	2,07
40%	60%	0,21	2,27
Median 50%	50%	0,19	2,42
75%	25%	0,15	2,73
84%	16%	0,14	2,86
90%	10%	0,13	2,95
95%	5%	0,12	3,11

Moments Statistics

Mean	2,37
Sorting	0,59
Skewness	-0,26
Kurtosis	1,37
Uniformity Coefficient	1,60

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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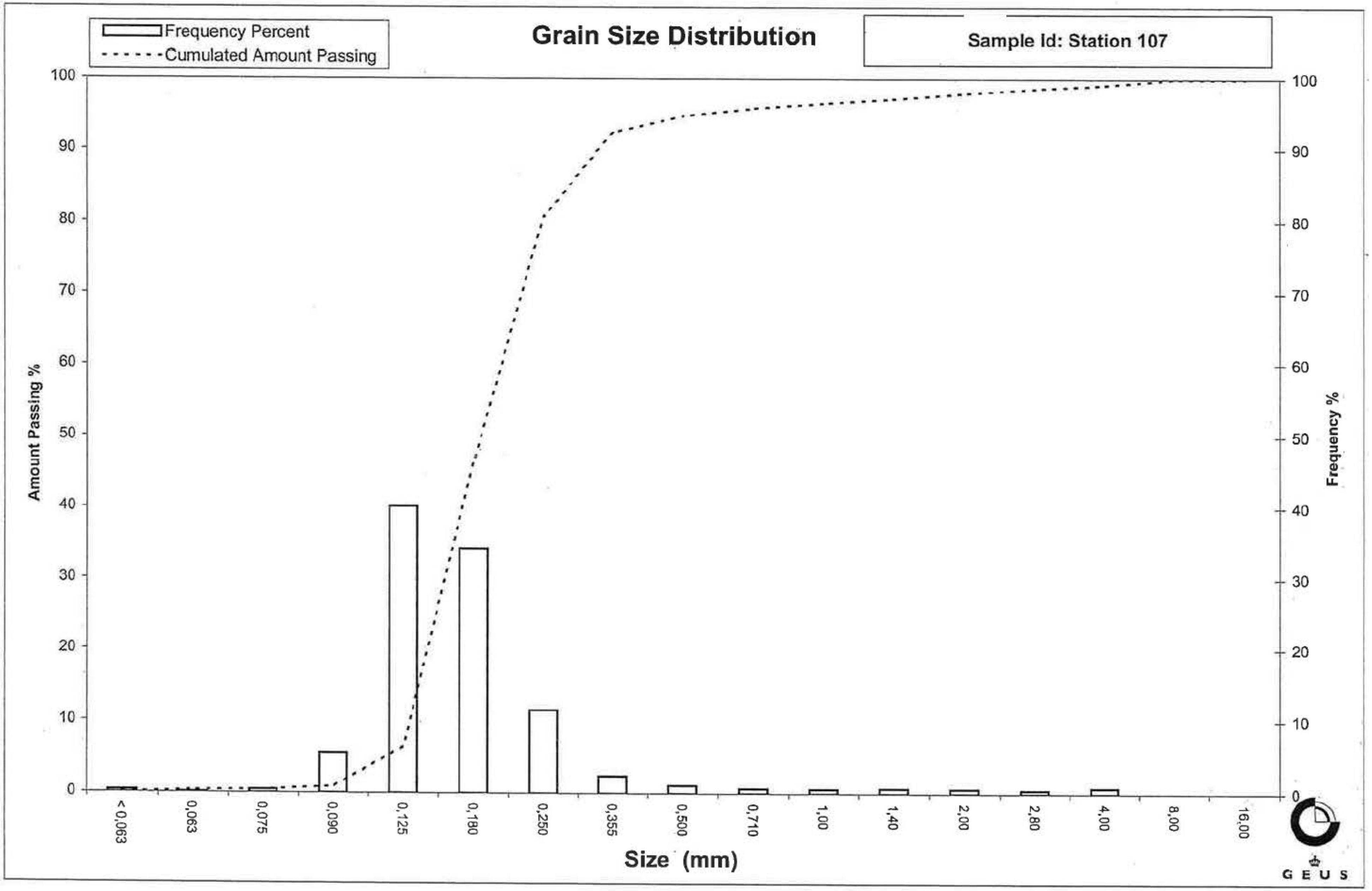

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 107
Amount Passing %
Frequency %
0
10
20
30
40
50
60
70
80
90
100
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 112
Lab. Id: 080045
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 105,1 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,26	0,25	99,75
Gravel	2,80	-1,49	0,10	0,10	99,66
Gravel	2,00	-1,00	0,02	0,02	99,64
Sand	1,40	-0,49	0,05	0,05	99,59
Sand	1,00	0,00	0,14	0,13	99,46
Sand	0,710	0,49	0,41	0,39	99,07
Sand	0,500	1,00	1,26	1,20	97,87
Sand	0,355	1,49	2,66	2,53	95,34
Sand	0,250	2,00	11,47	10,91	84,42
Sand	0,180	2,47	38,47	36,60	47,82
Sand	0,125	3,00	43,89	41,76	6,06
Sand	0,090	3,47	5,57	5,30	0,76
Sand	0,075	3,74	0,32	0,30	0,46
Sand	0,063	3,99	0,10	0,10	0,36
	< 0,063	> 3,99	0,38	0,36	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,36
Sand, fine	(0,063 mm - 0,200 mm):	57,92
Sand, medium	(0,2 mm - 0,6 mm):	40,16
Sand, coarse	(0,6 mm - 2 mm):	1,20
Gravel	(> 2 mm):	0,36
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,35	1,51
16%	84%	0,25	2,00
25%	75%	0,23	2,11
40%	60%	0,20	2,30
Median 50%	50%	0,18	2,44
75%	25%	0,15	2,74
84%	16%	0,14	2,86
90%	10%	0,13	2,94
95%	5%	0,12	3,08

Moments Statistics

Mean	2,43
Sorting	0,45
Skewness	-0,10
Kurtosis	1,03
Uniformity Coefficient	1,56

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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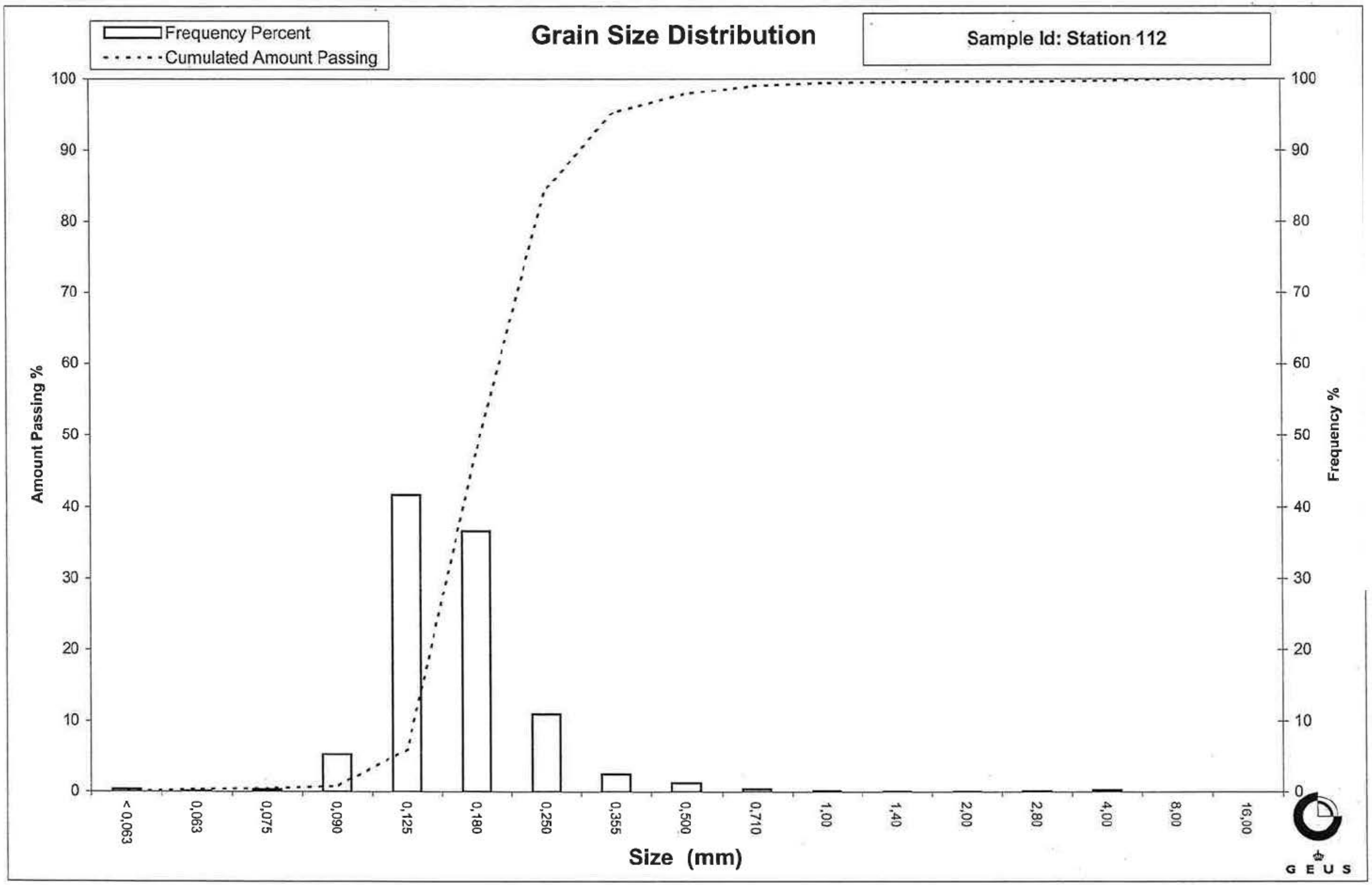

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 112
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution
Geotechnical

Sample Id: Station 113
Lab. Id: 080046
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 101,57 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,36	0,35	99,65
Gravel	2,00	-1,00	0,09	0,09	99,56
Sand	1,40	-0,49	0,08	0,08	99,48
Sand	1,00	0,00	0,15	0,15	99,33
Sand	0,710	0,49	0,69	0,68	98,65
Sand	0,500	1,00	1,89	1,86	96,79
Sand	0,355	1,49	3,38	3,33	93,46
Sand	0,250	2,00	13,99	13,77	79,69
Sand	0,180	2,47	36,36	35,80	43,89
Sand	0,125	3,00	38,91	38,31	5,58
Sand	0,090	3,47	4,45	4,38	1,20
Sand	0,075	3,74	0,32	0,32	0,89
Sand	0,063	3,99	0,07	0,07	0,82
	< 0,063	> 3,99	0,83	0,82	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,82
Sand, fine	(0,063 mm - 0,200 mm):	53,30
Sand, medium	(0,2 mm - 0,6 mm):	43,56
Sand, coarse	(0,6 mm - 2 mm):	1,88
Gravel	(> 2 mm):	0,44
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,42	1,24
16%	84%	0,28	1,82
25%	75%	0,24	2,05
40%	60%	0,21	2,24
Median 50%	50%	0,19	2,38
75%	25%	0,15	2,71
84%	16%	0,14	2,84
90%	10%	0,13	2,93
95%	5%	0,12	3,05

Moments Statistics

Mean	2,35
Sorting	0,53
Skewness	-0,18
Kurtosis	1,13
Uniformity Coefficient	1,61

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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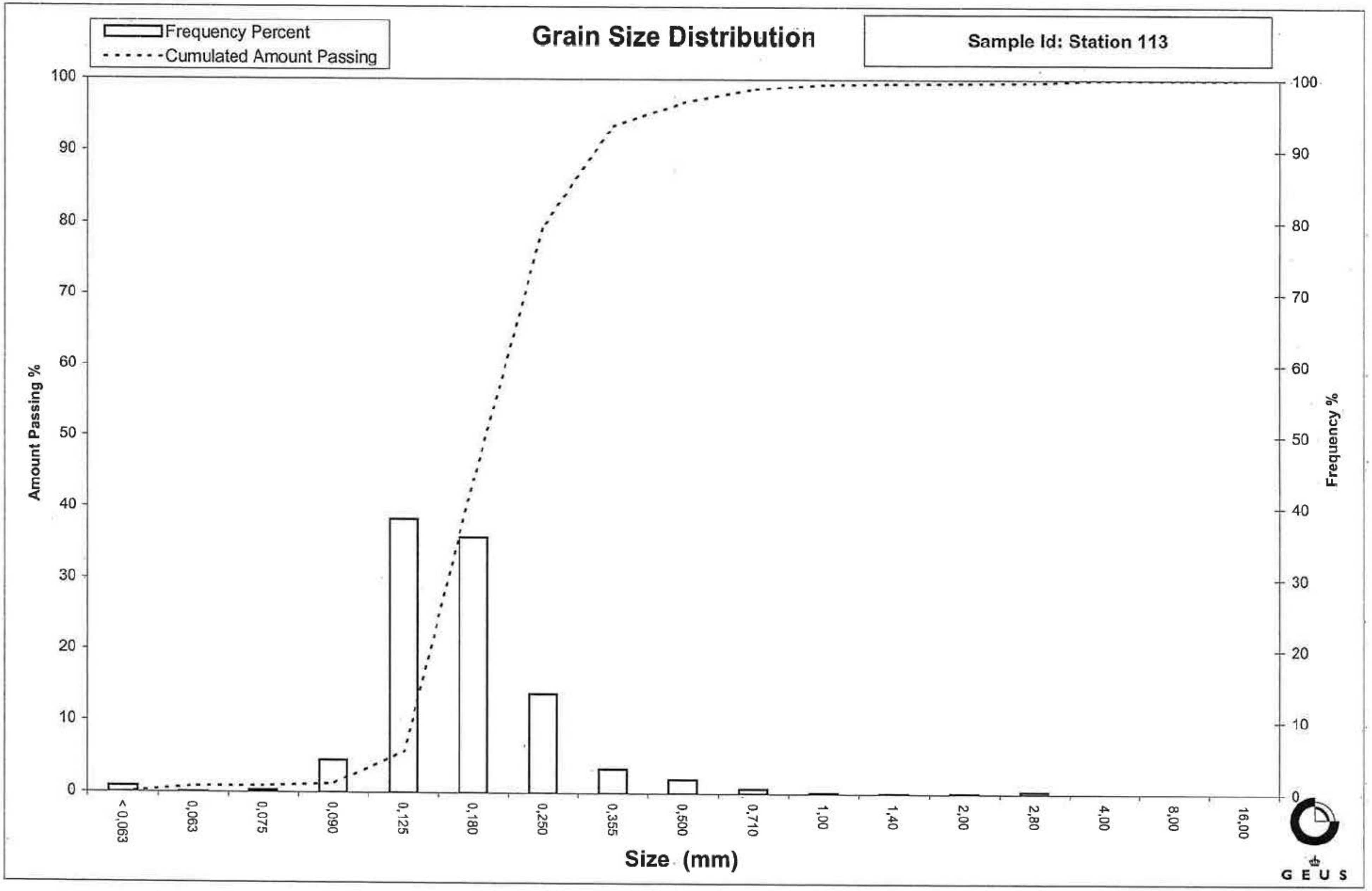
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 113
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 118
Lab. Id: 080047
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 101,92 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,07	0,07	99,93
Gravel	2,00	-1,00	0,04	0,04	99,89
Sand	1,40	-0,49	0,03	0,03	99,86
Sand	1,00	0,00	0,05	0,05	99,81
Sand	0,710	0,49	0,06	0,06	99,75
Sand	0,500	1,00	0,16	0,16	99,60
Sand	0,355	1,49	0,94	0,92	98,68
Sand	0,250	2,00	8,64	8,48	90,20
Sand	0,180	2,47	33,54	32,91	57,29
Sand	0,125	3,00	50,89	49,93	7,36
Sand	0,090	3,47	6,44	6,32	1,04
Sand	0,075	3,74	0,34	0,33	0,71
Sand	0,063	3,99	0,08	0,08	0,63
	< 0,063	> 3,99	0,64	0,63	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,63
Sand, fine	(0,063 mm - 0,200 mm):	66,06
Sand, medium	(0,2 mm - 0,6 mm):	32,98
Sand, coarse	(0,6 mm - 2 mm):	0,22
Gravel	(> 2 mm):	0,11
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,31	1,69
16%	84%	0,24	2,08
25%	75%	0,22	2,20
40%	60%	0,19	2,43
Median 50%	50%	0,17	2,54
75%	25%	0,14	2,79
84%	16%	0,13	2,89
90%	10%	0,13	2,97
95%	5%	0,11	3,16

Moments Statistics

Mean	2,50
Sorting	0,43
Skewness	-0,14
Kurtosis	1,02
Uniformity Coefficient	1,45

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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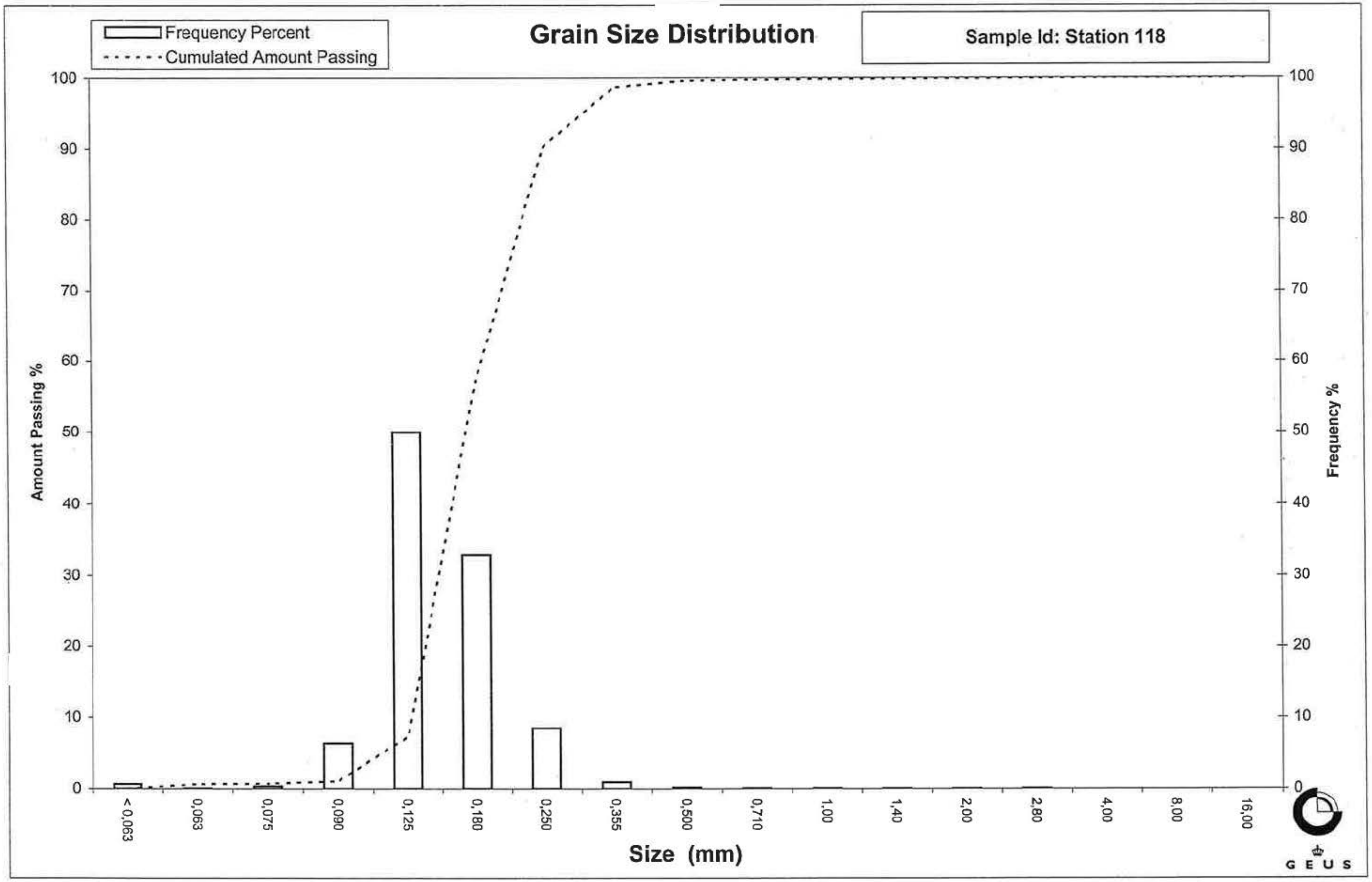

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 118
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 119
Lab. Id: 080048
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 100,51 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,47	0,47	99,53
Gravel	2,80	-1,49	0,51	0,51	99,02
Gravel	2,00	-1,00	0,02	0,02	99,01
Sand	1,40	-0,49	0,03	0,03	98,98
Sand	1,00	0,00	0,06	0,06	98,92
Sand	0,710	0,49	0,06	0,06	98,86
Sand	0,500	1,00	0,16	0,16	98,70
Sand	0,355	1,49	1,15	1,14	97,55
Sand	0,250	2,00	9,41	9,36	88,19
Sand	0,180	2,47	36,75	36,56	51,63
Sand	0,125	3,00	45,19	44,96	6,67
Sand	0,090	3,47	5,84	5,81	0,86
Sand	0,075	3,74	0,27	0,27	0,59
Sand	0,063	3,99	0,08	0,08	0,51
	< 0,063	> 3,99	0,51	0,51	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,51
Sand, fine	(0,063 mm - 0,200 mm):	61,57
Sand, medium	(0,2 mm - 0,6 mm):	36,70
Sand, coarse	(0,6 mm - 2 mm):	0,23
Gravel	(> 2 mm):	0,99
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,33	1,62
16%	84%	0,24	2,05
25%	75%	0,22	2,15
40%	60%	0,20	2,35
Median 50%	50%	0,18	2,49
75%	25%	0,15	2,76
84%	16%	0,14	2,87
90%	10%	0,13	2,95
95%	5%	0,11	3,12

Moments Statistics

Mean	2,47
Sorting	0,43
Skewness	-0,12
Kurtosis	1,01
Uniformity Coefficient	1,52

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (φ16%+φ84%+φ50%) / 3 (Folk and Ward 1957)

Sorting (φ84%-φ16%) / 4 + (φ95%-φ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (φ95% - φ5%) / (2,44 * (φ75% - φ25%)) (Folk and Ward 1957)

Skewness (φ16%+φ84% - 2*φ50%) / (2*(φ84%-φ16%)) + (φ5%+φ95% - 2*φ50%) / (2*(φ95%-φ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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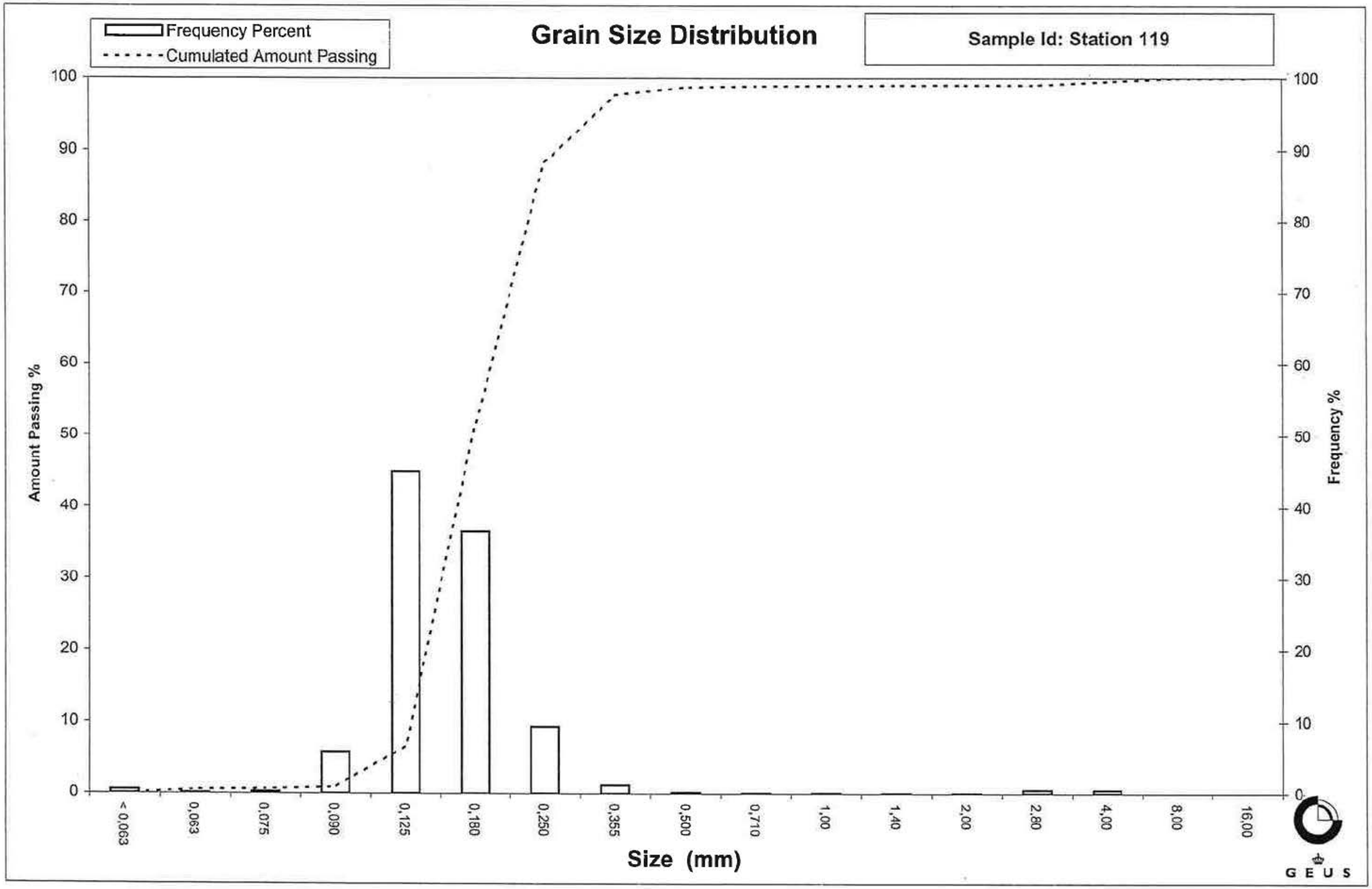

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 119
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id:	Station 124
Lab. Id:	080049
Submitter:	DFU
Subject:	Tobistogt< L 151> dec.07
Date:	Marts/april 2008
Executed:	K.Fries/I. Nørgaard
Remarks:	For mat < 2mm

GEUS

Total Weight 106,94 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,96	0,90	99,10
Gravel	2,00	-1,00	0,12	0,11	98,99
Sand	1,40	-0,49	0,02	0,02	98,97
Sand	1,00	0,00	0,06	0,06	98,92
Sand	0,710	0,49	0,08	0,07	98,84
Sand	0,500	1,00	0,24	0,22	98,62
Sand	0,355	1,49	1,14	1,07	97,55
Sand	0,250	2,00	8,41	7,86	89,69
Sand	0,180	2,47	42,38	39,63	50,06
Sand	0,125	3,00	45,67	42,71	7,35
Sand	0,090	3,47	6,62	6,19	1,16
Sand	0,075	3,74	0,33	0,31	0,85
Sand	0,063	3,99	0,10	0,09	0,76
	< 0,063	> 3,99	0,81	0,76	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,76
Sand, fine	(0,063 mm - 0,200 mm):	60,62
Sand, medium	(0,2 mm - 0,6 mm):	37,34
Sand, coarse	(0,6 mm - 2 mm):	0,27
Gravel	(> 2 mm):	1,01
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,32	1,64
16%	84%	0,24	2,06
25%	75%	0,22	2,16
40%	60%	0,20	2,34
Median 50%	50%	0,18	2,47
75%	25%	0,15	2,76
84%	16%	0,14	2,88
90%	10%	0,13	2,96
95%	5%	0,11	3,16

Moments Statistics

Mean	2,47
Sorting	0,44
Skewness	-0,06
Kurtosis	1,04
Uniformity Coefficient	1,54

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on
"Amount in sieve". Uniformity coefficient is based on
"Amount passing".

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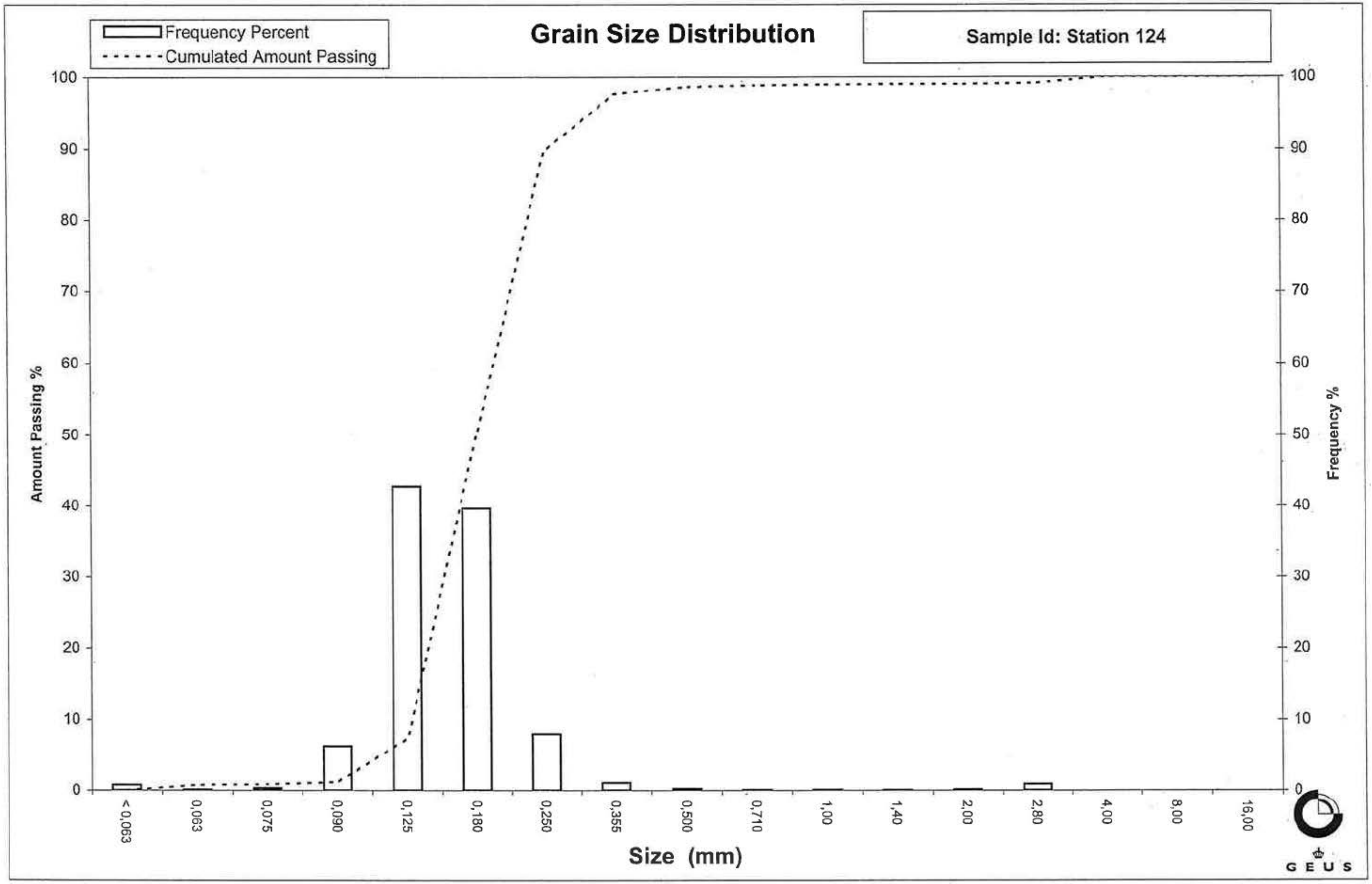

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 124
100
90
80
70
60
50
40
30
20
10
0
Amount Passing %
Frequency %
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 125
Lab. Id: 080050
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 111,7 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	1,57	1,41	98,59
Gravel	2,80	-1,49	1,25	1,12	97,48
Gravel	2,00	-1,00	0,23	0,21	97,27
Sand	1,40	-0,49	0,09	0,08	97,19
Sand	1,00	0,00	0,11	0,10	97,09
Sand	0,710	0,49	0,09	0,08	97,01
Sand	0,500	1,00	0,20	0,18	96,83
Sand	0,355	1,49	0,92	0,82	96,01
Sand	0,250	2,00	8,58	7,68	88,33
Sand	0,180	2,47	40,64	36,38	51,94
Sand	0,125	3,00	51,28	45,91	6,03
Sand	0,090	3,47	5,69	5,09	0,94
Sand	0,075	3,74	0,26	0,23	0,71
Sand	0,063	3,99	0,09	0,08	0,63
	< 0,063	> 3,99	0,70	0,63	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,63
Sand, fine	(0,063 mm - 0,200 mm):	61,71
Sand, medium	(0,2 mm - 0,6 mm):	34,58
Sand, coarse	(0,6 mm - 2 mm):	0,35
Gravel	(> 2 mm):	2,73
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,34	1,55
16%	84%	0,24	2,05
25%	75%	0,22	2,16
40%	60%	0,20	2,35
Median 50%	50%	0,18	2,49
75%	25%	0,15	2,76
84%	16%	0,14	2,87
90%	10%	0,13	2,95
95%	5%	0,12	3,08

Moments Statistics

Mean	2,47
Sorting	0,44
Skewness	-0,16
Kurtosis	1,04
Uniformity Coefficient	1,51

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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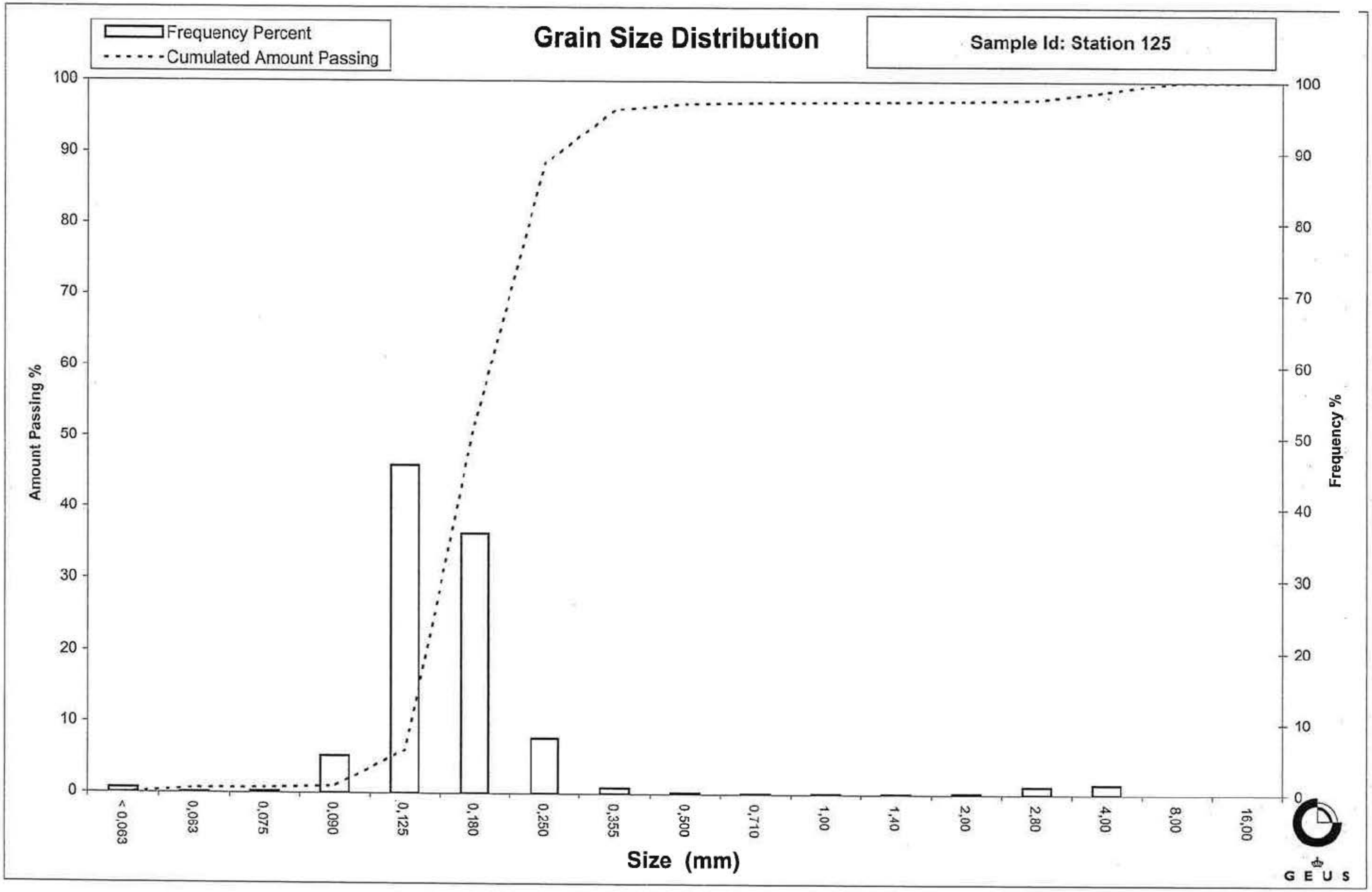
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 125
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 130
Lab. Id: 080051
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 103,48 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,50	0,48	99,52
Gravel	2,00	-1,00	0,00	0,00	99,52
Sand	1,40	-0,49	0,08	0,08	99,44
Sand	1,00	0,00	0,07	0,07	99,37
Sand	0,710	0,49	0,19	0,18	99,19
Sand	0,500	1,00	0,80	0,77	98,42
Sand	0,355	1,49	3,36	3,25	95,17
Sand	0,250	2,00	15,61	15,09	80,08
Sand	0,180	2,47	28,20	27,25	52,83
Sand	0,125	3,00	46,91	45,33	7,50
Sand	0,090	3,47	7,16	6,92	0,58
Sand	0,075	3,74	0,31	0,30	0,28
Sand	0,063	3,99	0,09	0,09	0,19
	< 0,063	> 3,99	0,20	0,19	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,19
Sand, fine	(0,063 mm - 0,200 mm):	60,42
Sand, medium	(0,2 mm - 0,6 mm):	38,17
Sand, coarse	(0,6 mm - 2 mm):	0,73
Gravel	(> 2 mm):	0,48
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,35	1,50
16%	84%	0,28	1,85
25%	75%	0,24	2,08
40%	60%	0,20	2,33
Median 50%	50%	0,18	2,50
75%	25%	0,15	2,77
84%	16%	0,14	2,89
90%	10%	0,13	2,97
95%	5%	0,11	3,15

Moments Statistics

Mean	2,41
Sorting	0,51
Skewness	-0,24
Kurtosis	0,97
Uniformity Coefficient	1,55

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)
Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)
Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)
Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)
Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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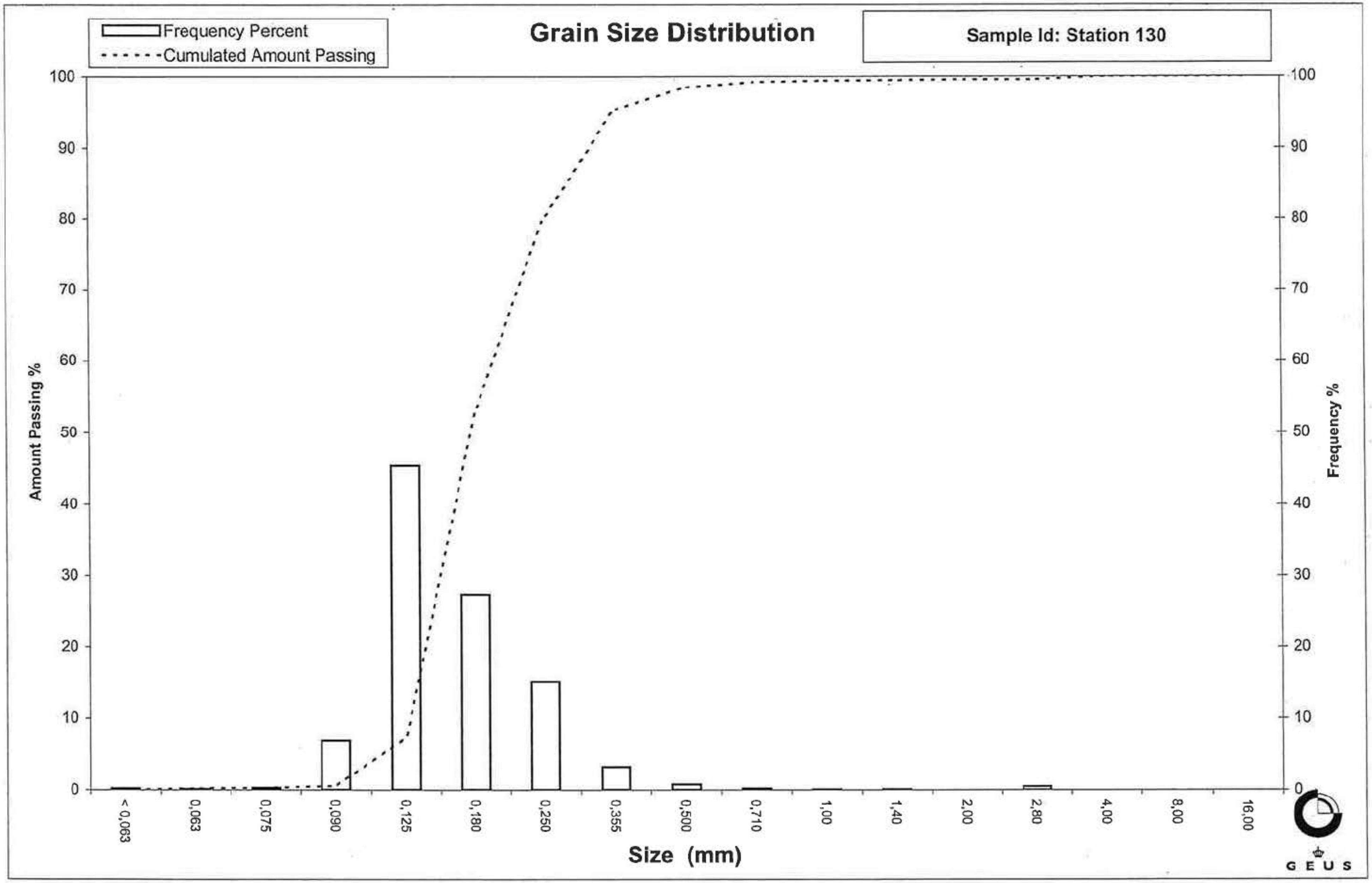

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 130
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 131
Lab. Id: 080052
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 106,79 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,04	0,04	99,96
Sand	1,40	-0,49	0,05	0,05	99,92
Sand	1,00	0,00	0,08	0,07	99,84
Sand	0,710	0,49	0,22	0,21	99,63
Sand	0,500	1,00	1,09	1,02	98,61
Sand	0,355	1,49	5,71	5,35	93,27
Sand	0,250	2,00	25,25	23,64	69,62
Sand	0,180	2,47	32,42	30,36	39,26
Sand	0,125	3,00	35,72	33,45	5,82
Sand	0,090	3,47	4,99	4,67	1,14
Sand	0,075	3,74	0,21	0,20	0,95
Sand	0,063	3,99	0,03	0,03	0,92
	< 0,063	> 3,99	0,98	0,92	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,92
Sand, fine	(0,063 mm - 0,200 mm):	47,02
Sand, medium	(0,2 mm - 0,6 mm):	51,16
Sand, coarse	(0,6 mm - 2 mm):	0,86
Gravel	(> 2 mm):	0,04
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,40	1,31
16%	84%	0,31	1,67
25%	75%	0,27	1,87
40%	60%	0,23	2,13
Median 50%	50%	0,20	2,29
75%	25%	0,16	2,68
84%	16%	0,14	2,82
90%	10%	0,13	2,92
95%	5%	0,12	3,07

Moments Statistics

Mean	2,26
Sorting	0,55
Skewness	-0,09
Kurtosis	0,89
Uniformity Coefficient	1,73

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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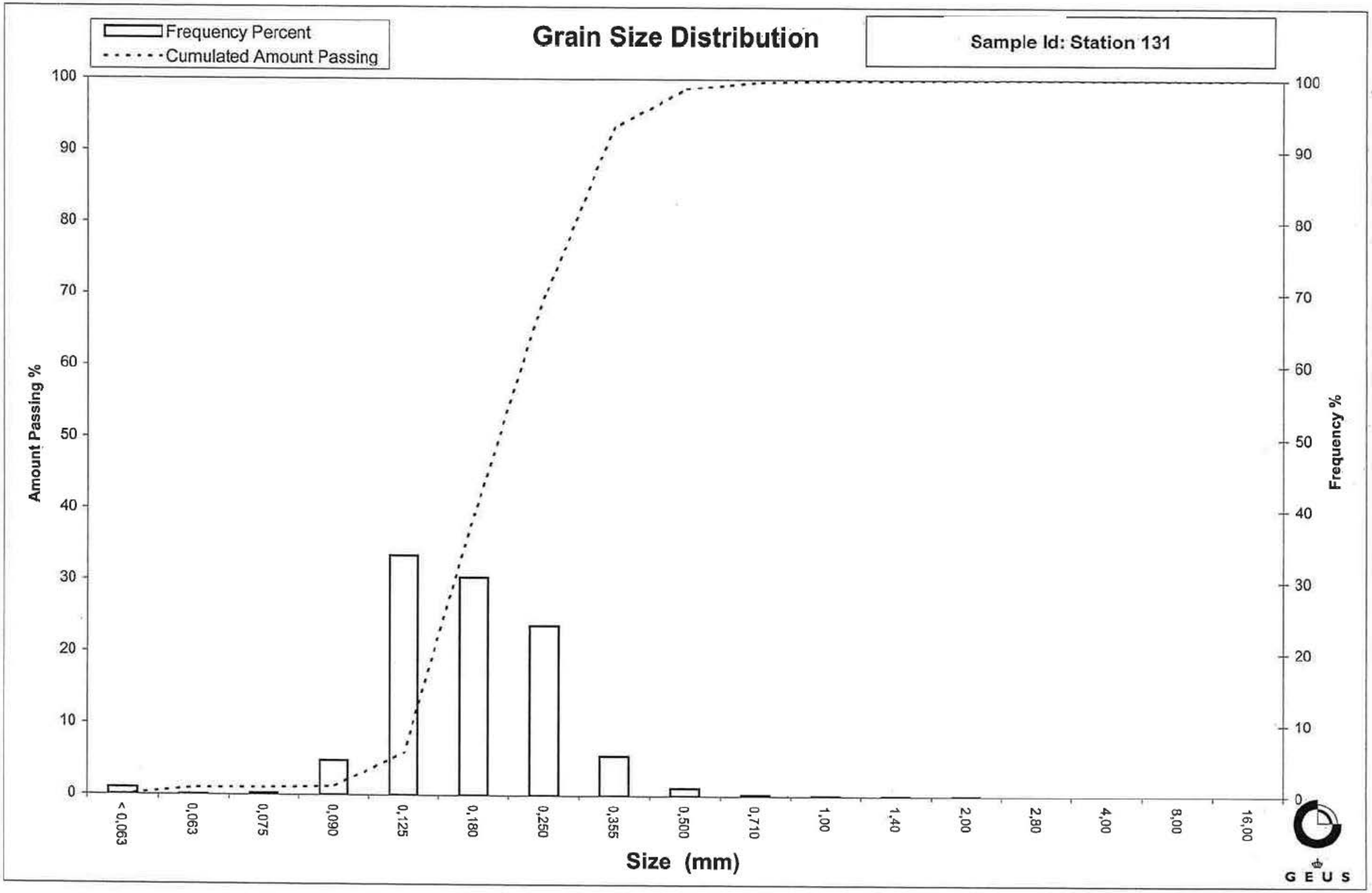
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 131
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 136
Lab. Id: 080053
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 108,57 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,00	0,00	100,00
Sand	1,00	0,00	0,08	0,07	99,93
Sand	0,710	0,49	0,63	0,58	99,35
Sand	0,500	1,00	5,32	4,90	94,45
Sand	0,355	1,49	18,20	16,76	77,68
Sand	0,250	2,00	43,10	39,70	37,98
Sand	0,180	2,47	29,11	26,81	11,17
Sand	0,125	3,00	9,63	8,87	2,30
Sand	0,090	3,47	1,37	1,26	1,04
Sand	0,075	3,74	0,09	0,08	0,96
Sand	0,063	3,99	0,01	0,01	0,95
	< 0,063	> 3,99	1,03	0,95	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,95
Sand, fine	(0,063 mm - 0,200 mm):	17,88
Sand, medium	(0,2 mm - 0,6 mm):	77,95
Sand, coarse	(0,6 mm - 2 mm):	3,22
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,52	0,93
16%	84%	0,41	1,29
25%	75%	0,35	1,52
40%	60%	0,31	1,70
Median 50%	50%	0,28	1,83
75%	25%	0,22	2,21
84%	16%	0,19	2,38
90%	10%	0,17	2,53
95%	5%	0,14	2,82

Moments Statistics

Mean	1,83
Sorting	0,56
Skewness	0,03
Kurtosis	1,12
Uniformity Coefficient	1,78

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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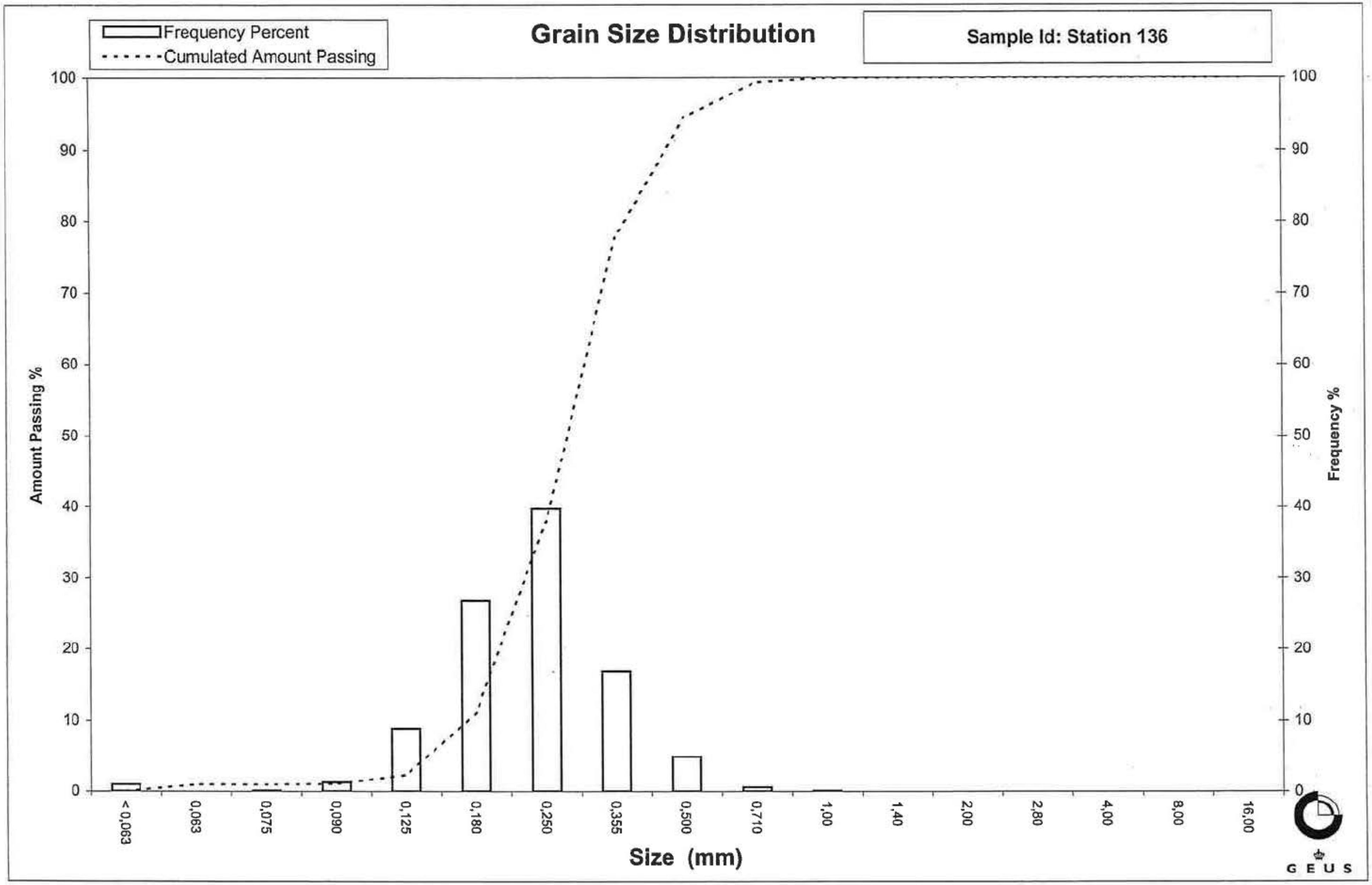

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 136
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 137
Lab. Id: 080054
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 104,01 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,00	0,00	100,00
Sand	1,00	0,00	0,09	0,09	99,91
Sand	0,710	0,49	0,35	0,34	99,58
Sand	0,500	1,00	3,86	3,71	95,87
Sand	0,355	1,49	17,46	16,79	79,08
Sand	0,250	2,00	40,85	39,28	39,80
Sand	0,180	2,47	31,31	30,10	9,70
Sand	0,125	3,00	7,06	6,79	2,91
Sand	0,090	3,47	2,21	2,12	0,79
Sand	0,075	3,74	0,06	0,06	0,73
Sand	0,063	3,99	0,06	0,06	0,67
	< 0,063	> 3,99	0,70	0,67	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,67
Sand, fine	(0,063 mm - 0,200 mm):	17,63
Sand, medium	(0,2 mm - 0,6 mm):	79,33
Sand, coarse	(0,6 mm - 2 mm):	2,37
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,49	1,02
16%	84%	0,40	1,33
25%	75%	0,34	1,54
40%	60%	0,30	1,72
Median 50%	50%	0,28	1,85
75%	25%	0,22	2,21
84%	16%	0,19	2,36
90%	10%	0,18	2,47
95%	5%	0,14	2,82

Moments Statistics

Mean	1,85
Sorting	0,53
Skewness	0,03
Kurtosis	1,09
Uniformity Coefficient	1,68

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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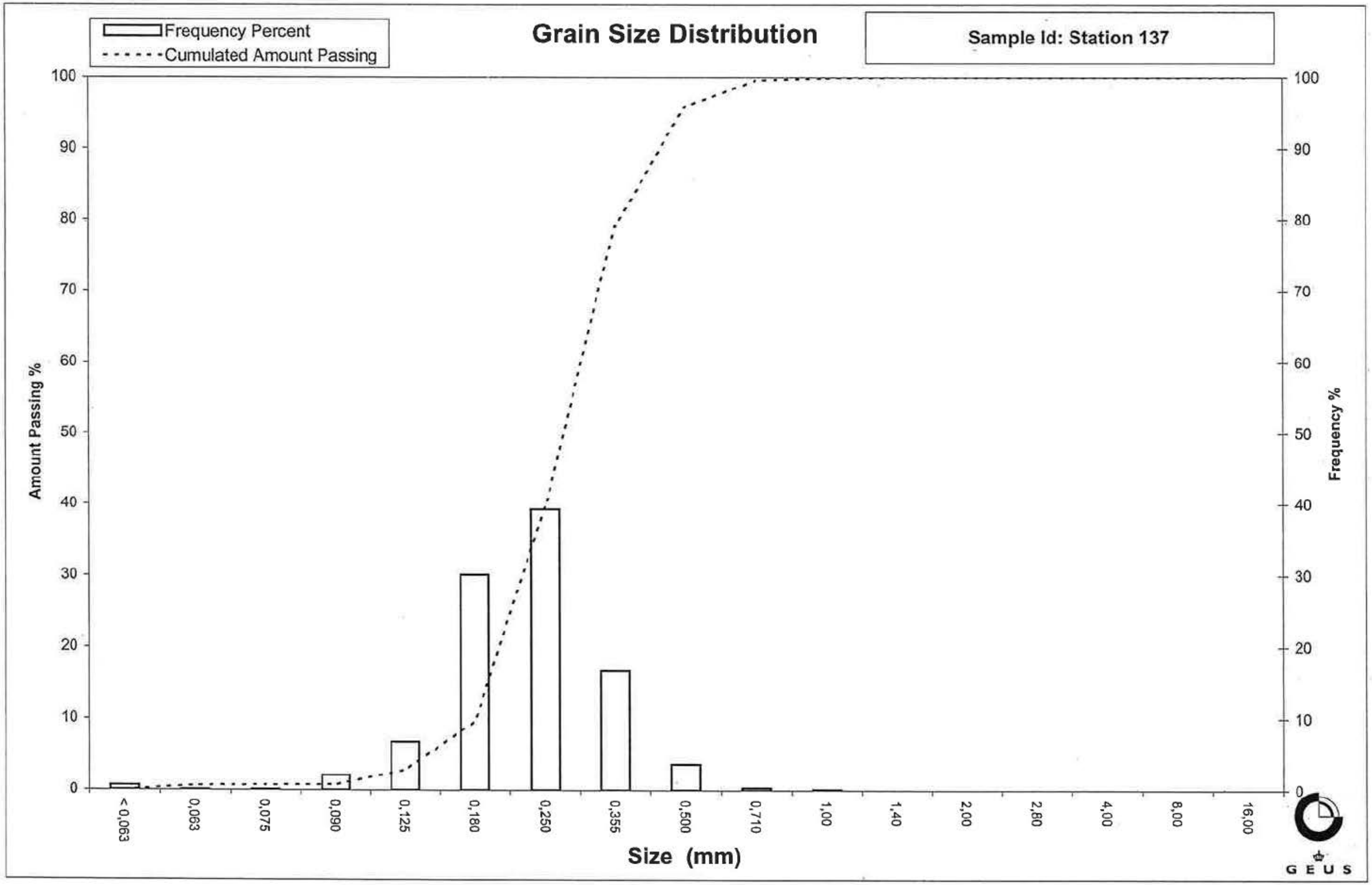

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 137
Amount Passing %
Frequency %
0
10
20
30
40
50
60
70
80
90
100
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 142
Lab. Id: 080055
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

Total Weight 104,65 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,00	0,00	100,00
Sand	1,00	0,00	0,02	0,02	99,98
Sand	0,710	0,49	0,07	0,07	99,91
Sand	0,500	1,00	1,52	1,45	98,46
Sand	0,355	1,49	12,75	12,18	86,28
Sand	0,250	2,00	50,82	48,56	37,72
Sand	0,180	2,47	32,75	31,29	6,42
Sand	0,125	3,00	5,18	4,95	1,47
Sand	0,090	3,47	0,84	0,80	0,67
Sand	0,075	3,74	0,08	0,08	0,59
Sand	0,063	3,99	0,03	0,03	0,56
	< 0,063	> 3,99	0,59	0,56	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,56
Sand, fine	(0,063 mm - 0,200 mm):	14,80
Sand, medium	(0,2 mm - 0,6 mm):	83,79
Sand, coarse	(0,6 mm - 2 mm):	0,85
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,46	1,12
16%	84%	0,35	1,51
25%	75%	0,33	1,60
40%	60%	0,30	1,75
Median 50%	50%	0,28	1,85
75%	25%	0,22	2,17
84%	16%	0,20	2,31
90%	10%	0,19	2,41
95%	5%	0,16	2,61

Moments Statistics

Mean	1,89
Sorting	0,42
Skewness	0,08
Kurtosis	1,05
Uniformity Coefficient	1,59

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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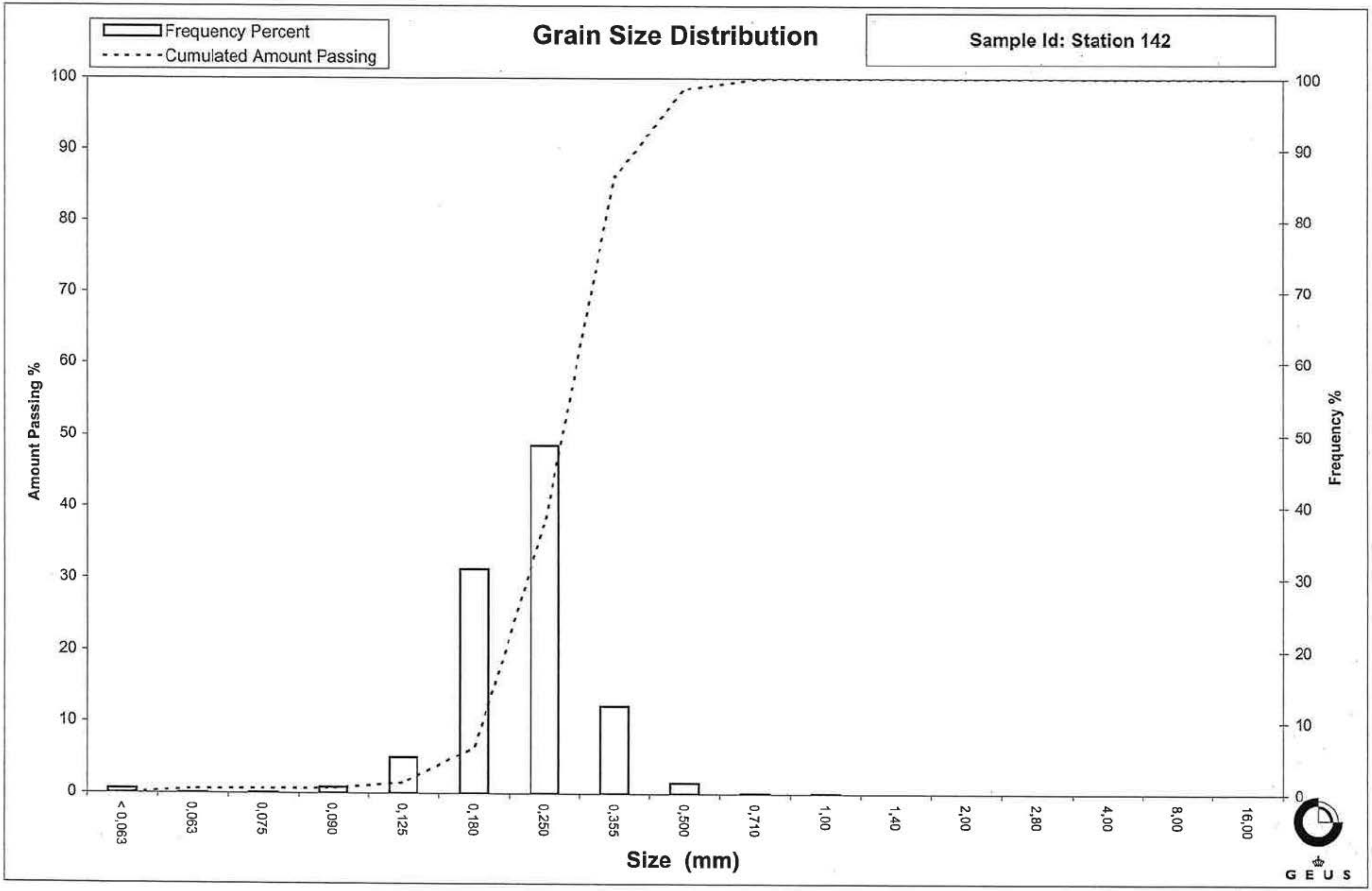

Grain Size Distribution
Sample Id: Station 142
Frequency Percent
Cumulated Amount Passing
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 143
Lab. Id: 080056
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 105,36 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,00	0,00	100,00
Sand	1,00	0,00	0,03	0,03	99,97
Sand	0,710	0,49	0,04	0,04	99,93
Sand	0,500	1,00	0,61	0,58	99,35
Sand	0,355	1,49	6,63	6,29	93,06
Sand	0,250	2,00	40,90	38,82	54,24
Sand	0,180	2,47	47,99	45,55	8,69
Sand	0,125	3,00	4,90	4,65	4,04
Sand	0,090	3,47	3,11	2,95	1,09
Sand	0,075	3,74	0,14	0,13	0,96
Sand	0,063	3,99	0,06	0,06	0,90
	< 0,063	> 3,99	0,95	0,90	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,90
Sand, fine	(0,063 mm - 0,200 mm):	20,81
Sand, medium	(0,2 mm - 0,6 mm):	77,92
Sand, coarse	(0,6 mm - 2 mm):	0,37
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,40	1,32
16%	84%	0,33	1,60
25%	75%	0,31	1,71
40%	60%	0,27	1,91
Median 50%	50%	0,24	2,04
75%	25%	0,21	2,29
84%	16%	0,19	2,39
90%	10%	0,18	2,46
95%	5%	0,14	2,87

Moments Statistics

Mean	2,01
Sorting	0,43
Skewness	-0,02
Kurtosis	1,10
Uniformity Coefficient	1,46

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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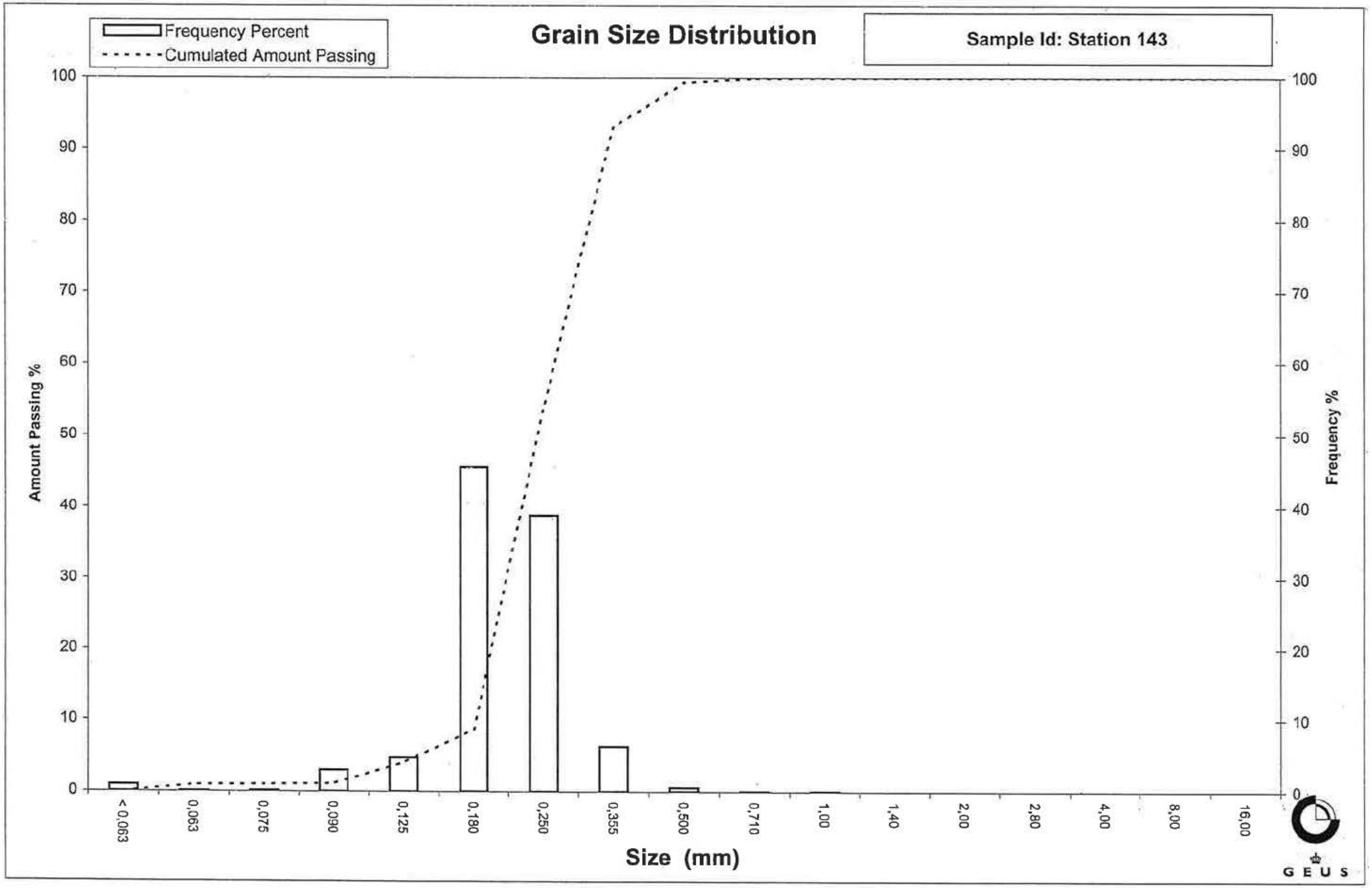
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 143
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 148
Lab. Id: 080057
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 8mm

GEUS

Total Weight 206,11 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	5,28	2,56	97,44
Gravel	4,00	-2,00	1,45	0,70	96,73
Gravel	2,80	-1,49	0,78	0,38	96,36
Gravel	2,00	-1,00	1,29	0,63	95,73
Sand	1,40	-0,49	2,57	1,25	94,48
Sand	1,00	0,00	3,47	1,68	92,80
Sand	0,710	0,49	8,54	4,15	88,66
Sand	0,500	1,00	36,95	17,93	70,73
Sand	0,355	1,49	56,16	27,25	43,48
Sand	0,250	2,00	39,31	19,07	24,41
Sand	0,180	2,47	36,72	17,82	6,59
Sand	0,125	3,00	9,41	4,56	2,03
Sand	0,090	3,47	2,00	0,97	1,06
Sand	0,075	3,74	0,17	0,08	0,98
Sand	0,063	3,99	0,04	0,02	0,96
	< 0,063	> 3,99	1,97	0,96	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,96
Sand, fine	(0,063 mm - 0,200 mm):	10,73
Sand, medium	(0,2 mm - 0,6 mm):	67,58
Sand, coarse	(0,6 mm - 2 mm):	16,47
Gravel	(> 2 mm):	4,27
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	1,65	-0,72
16%	84%	0,66	0,61
25%	75%	0,55	0,86
40%	60%	0,44	1,17
Median 50%	50%	0,39	1,36
75%	25%	0,25	1,98
84%	16%	0,22	2,20
90%	10%	0,19	2,37
95%	5%	0,16	2,64

Moments Statistics

Mean	1,39
Sorting	0,91
Skewness	-0,09
Kurtosis	1,23
Uniformity Coefficient	2,29

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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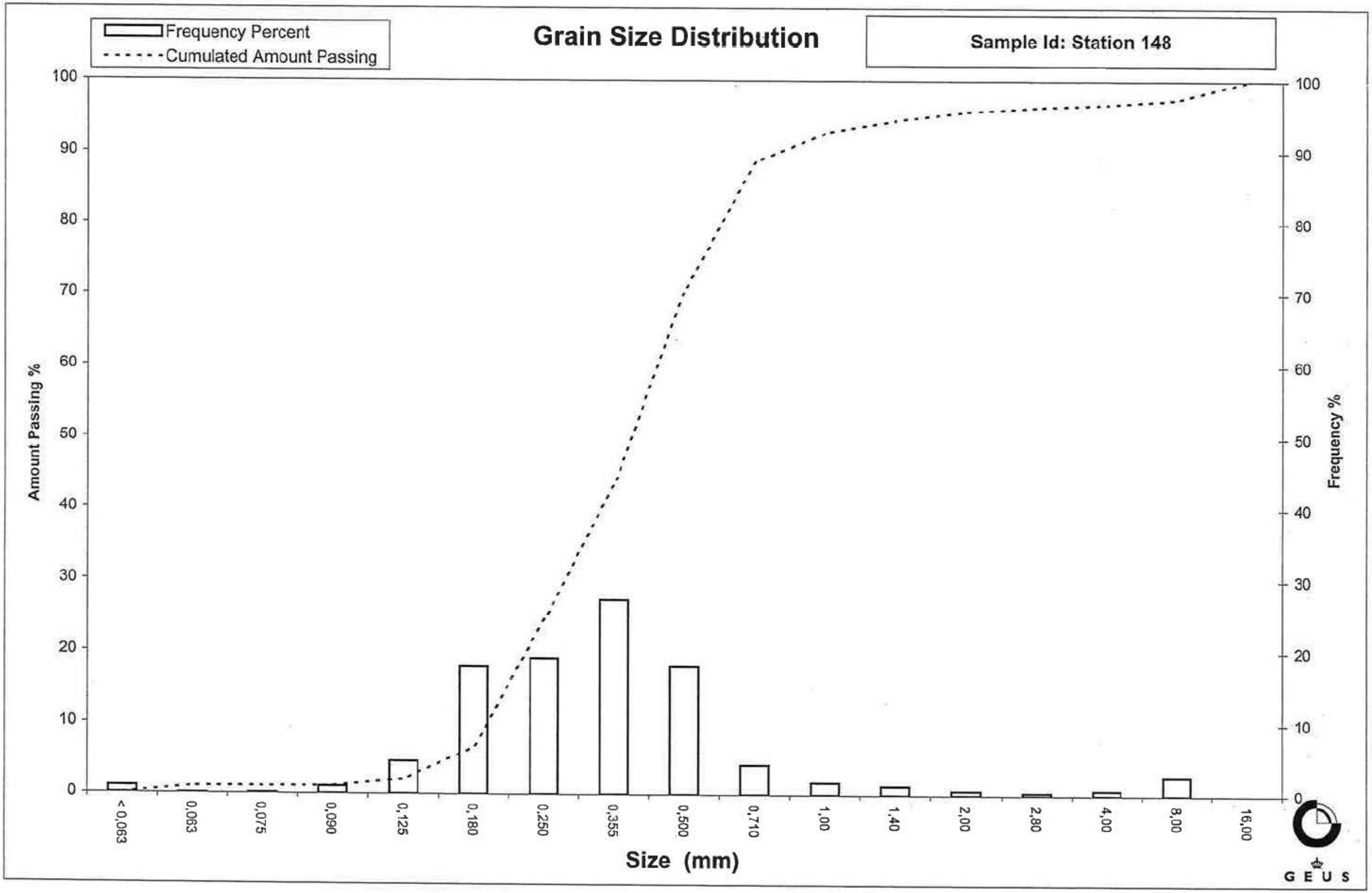

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 148
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 149
Lab. Id: 080058
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 8mm

GEUS

Total Weight 225,69 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	19,96	8,84	91,16
Gravel	4,00	-2,00	30,75	13,62	77,53
Gravel	2,80	-1,49	20,33	9,01	68,52
Gravel	2,00	-1,00	24,84	11,01	57,52
Sand	1,40	-0,49	24,76	10,97	46,55
Sand	1,00	0,00	19,98	8,85	37,69
Sand	0,710	0,49	16,49	7,31	30,39
Sand	0,500	1,00	21,27	9,42	20,96
Sand	0,355	1,49	21,99	9,74	11,22
Sand	0,250	2,00	13,97	6,19	5,03
Sand	0,180	2,47	8,05	3,57	1,46
Sand	0,125	3,00	2,47	1,09	0,37
Sand	0,090	3,47	0,21	0,09	0,27
Sand	0,075	3,74	0,01	0,00	0,27
Sand	0,063	3,99	0,01	0,00	0,27
	< 0,063	> 3,99	0,60	0,27	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,27
Sand, fine	(0,063 mm - 0,200 mm):	2,22
Sand, medium	(0,2 mm - 0,6 mm):	22,97
Sand, coarse	(0,6 mm - 2 mm):	32,07
Gravel	(> 2 mm):	42,48
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	11,48	-3,52
16%	84%	5,90	-2,56
25%	75%	3,66	-1,87
40%	60%	2,18	-1,12
Median 50%	50%	1,59	-0,67
75%	25%	0,59	0,76
84%	16%	0,43	1,23
90%	10%	0,33	1,58
95%	5%	0,25	2,00

Moments Statistics

Mean	-0,67
Sorting	1,78
Skewness	-0,02
Kurtosis	0,86
Uniformity Coefficient	6,52

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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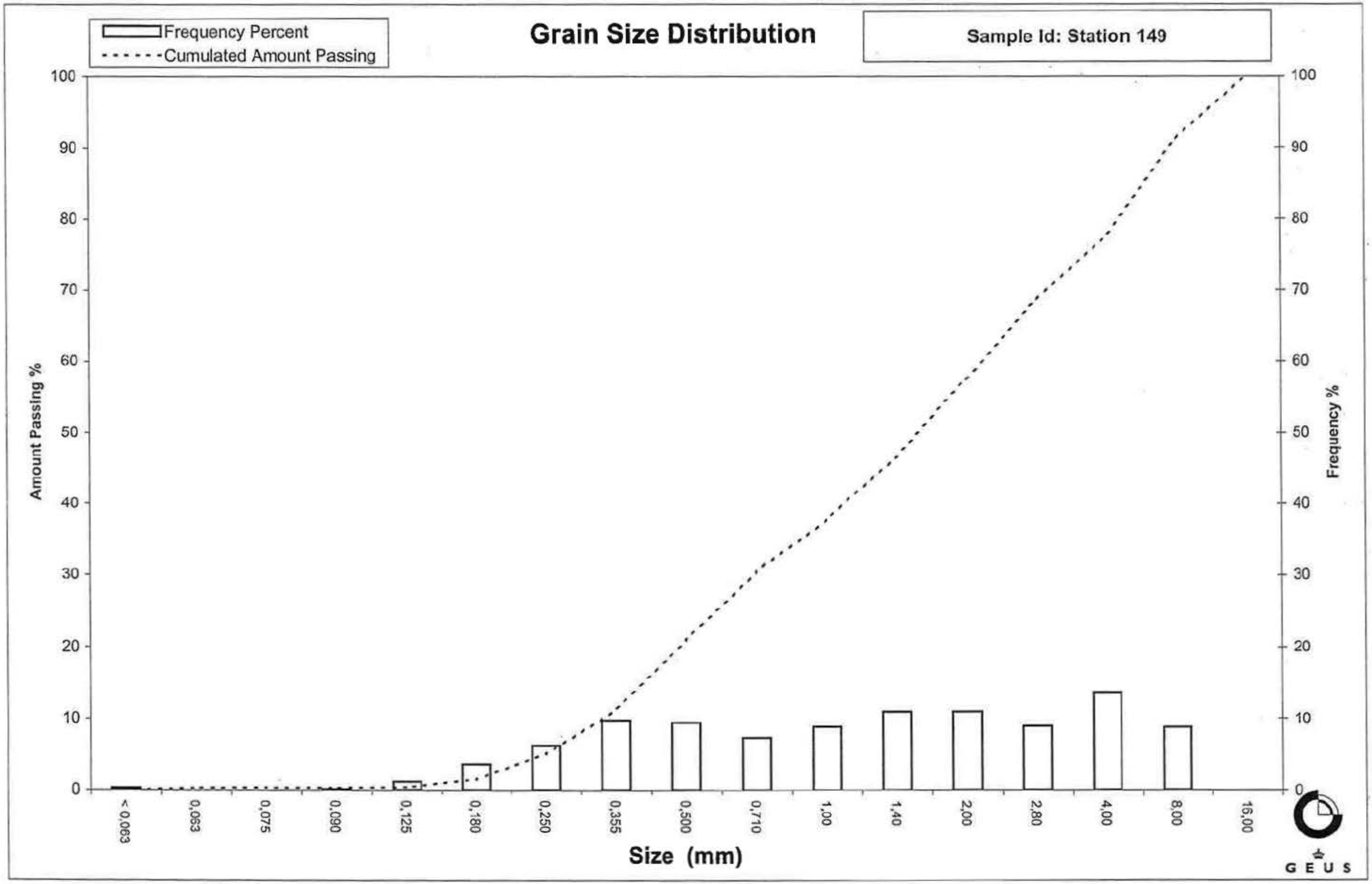

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 149
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id:	Station 154
Lab. Id:	080059
Submitter:	DFU
Subject:	Tobistogt< L 151> dec.07
Date:	Marts/april 2008
Executed:	K.Fries/I. Nørgaard
Remarks:	For mat < 2mm

GEUS

Total Weight 103,87 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,11	0,11	99,89
Gravel	2,00	-1,00	0,03	0,03	99,87
Sand	1,40	-0,49	0,08	0,08	99,79
Sand	1,00	0,00	0,11	0,11	99,68
Sand	0,710	0,49	1,23	1,18	98,50
Sand	0,500	1,00	16,15	15,55	82,95
Sand	0,355	1,49	41,13	39,60	43,35
Sand	0,250	2,00	29,23	28,14	15,21
Sand	0,180	2,47	9,90	9,53	5,68
Sand	0,125	3,00	4,61	4,44	1,24
Sand	0,090	3,47	0,65	0,63	0,62
Sand	0,075	3,74	0,06	0,06	0,56
Sand	0,063	3,99	0,01	0,01	0,55
	< 0,063	> 3,99	0,57	0,55	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,55
Sand, fine	(0,063 mm - 0,200 mm):	7,85
Sand, medium	(0,2 mm - 0,6 mm):	81,95
Sand, coarse	(0,6 mm - 2 mm):	9,51
Gravel	(> 2 mm):	0,13
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,66	0,59
16%	84%	0,51	0,96
25%	75%	0,47	1,09
40%	60%	0,42	1,27
Median 50%	50%	0,38	1,40
75%	25%	0,29	1,80
84%	16%	0,25	1,98
90%	10%	0,21	2,24
95%	5%	0,17	2,54

Moments Statistics

Mean	1,45
Sorting	0,55
Skewness	0,16
Kurtosis	1,11
Uniformity Coefficient	1.96

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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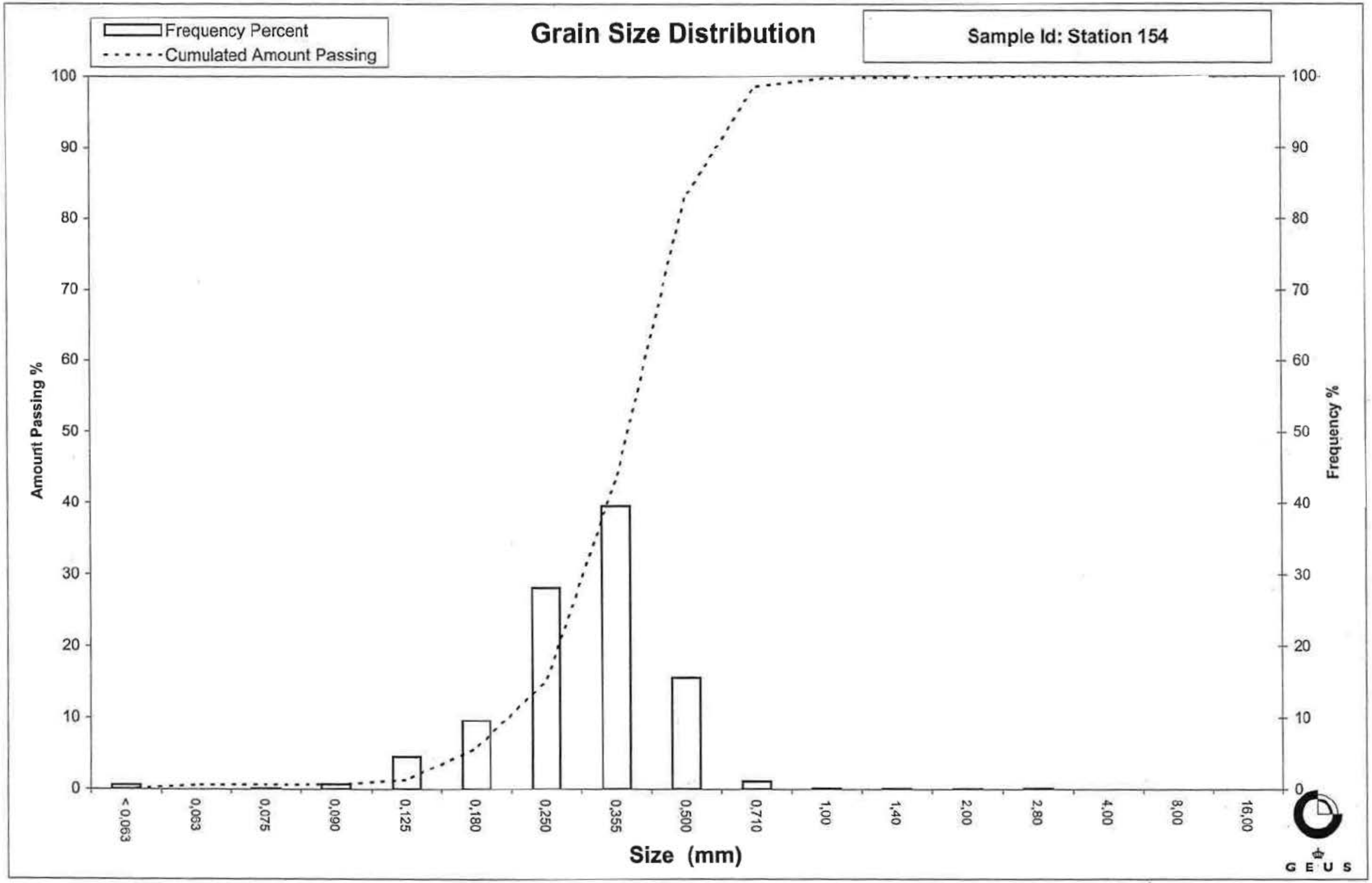

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 154
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)

Grain Size Distribution

Geotechnical

Sample Id: Station 155
Lab. Id: 080060
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 105,04 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,09	0,09	99,91
Sand	1,00	0,00	0,12	0,11	99,80
Sand	0,710	0,49	0,68	0,65	99,15
Sand	0,500	1,00	7,64	7,27	91,88
Sand	0,355	1,49	39,80	37,89	53,99
Sand	0,250	2,00	37,01	35,23	18,75
Sand	0,180	2,47	13,40	12,76	6,00
Sand	0,125	3,00	2,96	2,82	3,18
Sand	0,090	3,47	1,96	1,87	1,31
Sand	0,075	3,74	0,03	0,03	1,29
Sand	0,063	3,99	0,02	0,02	1,27
	< 0,063	> 3,99	1,33	1,27	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,27
Sand, fine	(0,063 mm - 0,200 mm):	8,38
Sand, medium	(0,2 mm - 0,6 mm):	85,70
Sand, coarse	(0,6 mm - 2 mm):	4,66
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,59	0,76
16%	84%	0,47	1,09
25%	75%	0,44	1,20
40%	60%	0,38	1,40
Median 50%	50%	0,34	1,54
75%	25%	0,27	1,90
84%	16%	0,23	2,09
90%	10%	0,20	2,31
95%	5%	0,16	2,64

Moments Statistics

Mean	1,57
Sorting	0,53
Skewness	0,13
Kurtosis	1,10
Uniformity Coefficient	1,87

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)
Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)
Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)
Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)
Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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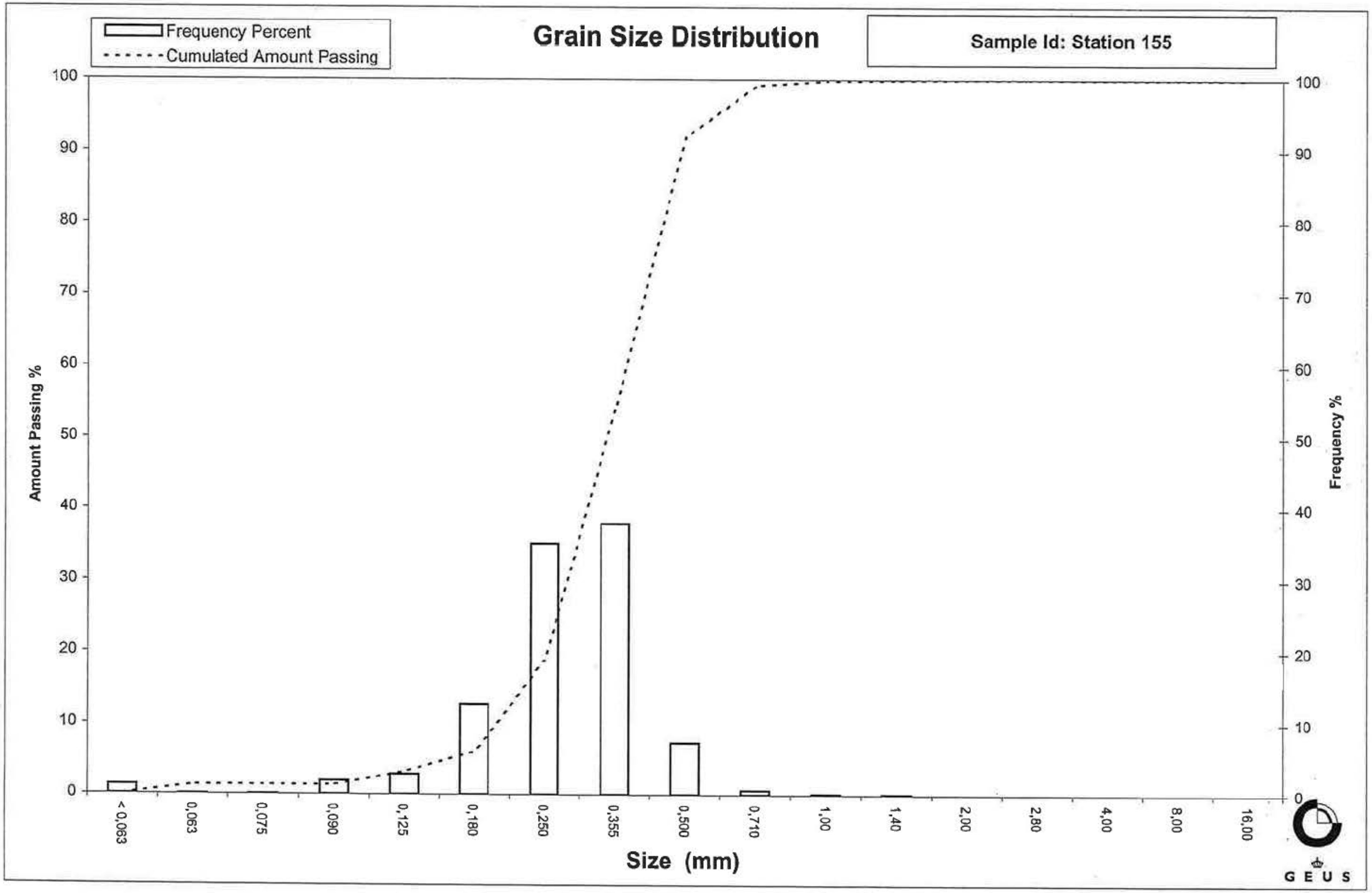

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 155
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 161
Lab. Id: 080061
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 8mm

GEUS

Total Weight 237,94 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	40,91	17,19	82,81
Gravel	4,00	-2,00	54,75	23,01	59,80
Gravel	2,80	-1,49	19,14	8,04	51,75
Gravel	2,00	-1,00	8,41	3,53	48,22
Sand	1,40	-0,49	7,15	3,00	45,21
Sand	1,00	0,00	8,65	3,64	41,58
Sand	0,710	0,49	15,35	6,45	35,13
Sand	0,500	1,00	27,89	11,72	23,41
Sand	0,355	1,49	32,08	13,48	9,92
Sand	0,250	2,00	15,67	6,59	3,34
Sand	0,180	2,47	4,63	1,95	1,39
Sand	0,125	3,00	1,15	0,48	0,91
Sand	0,090	3,47	0,91	0,38	0,53
Sand	0,075	3,74	0,25	0,11	0,42
Sand	0,063	3,99	0,16	0,07	0,35
	< 0,063	> 3,99	0,84	0,35	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,35
Sand, fine	(0,063 mm - 0,200 mm):	1,59
Sand, medium	(0,2 mm - 0,6 mm):	27,04
Sand, coarse	(0,6 mm - 2 mm):	19,23
Gravel	(> 2 mm):	51,78
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	13,67	-3,77
16%	84%	8,56	-3,10
25%	75%	6,64	-2,73
40%	60%	4,04	-2,01
Median 50%	50%	2,40	-1,27
75%	25%	0,53	0,92
84%	16%	0,42	1,25
90%	10%	0,36	1,49
95%	5%	0,28	1,85

Moments Statistics

Mean	-1,04
Sorting	1,94
Skewness	0,13
Kurtosis	0,63
Uniformity Coefficient	11,34

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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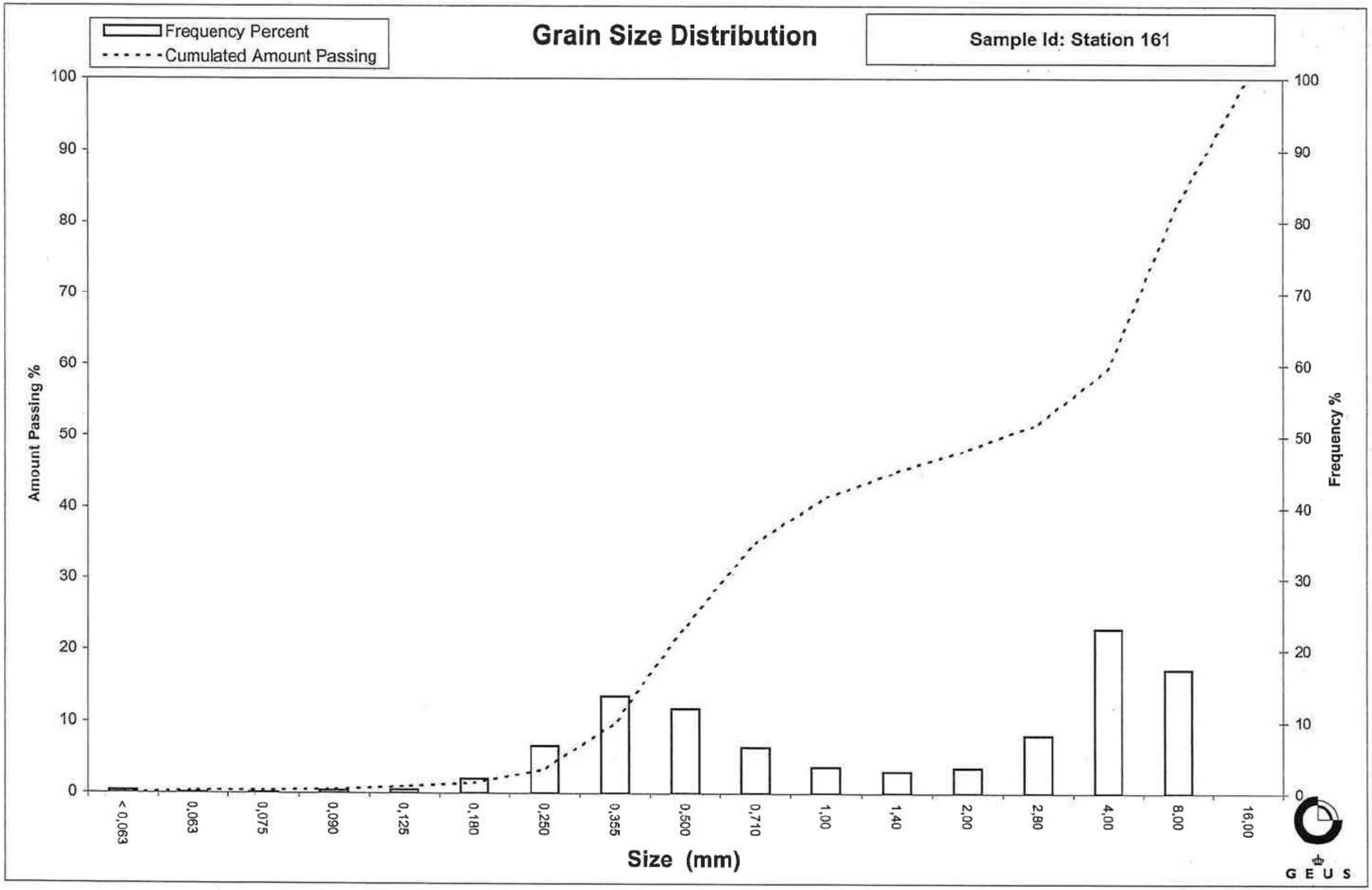

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 161
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 162
Lab. Id: 080062
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 8mm

GEUS

Total Weight 209,48 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	11,17	5,33	94,67
Gravel	4,00	-2,00	36,66	17,50	77,17
Gravel	2,80	-1,49	21,52	10,27	66,89
Gravel	2,00	-1,00	10,66	5,09	61,81
Sand	1,40	-0,49	9,66	4,61	57,19
Sand	1,00	0,00	10,15	4,85	52,35
Sand	0,710	0,49	14,53	6,94	45,41
Sand	0,500	1,00	26,88	12,83	32,58
Sand	0,355	1,49	40,08	19,13	13,45
Sand	0,250	2,00	22,11	10,55	2,89
Sand	0,180	2,47	4,29	2,05	0,84
Sand	0,125	3,00	0,47	0,22	0,62
Sand	0,090	3,47	0,23	0,11	0,51
Sand	0,075	3,74	0,06	0,03	0,48
Sand	0,063	3,99	0,03	0,01	0,47
	< 0,063	> 3,99	0,98	0,47	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,47
Sand, fine	(0,063 mm - 0,200 mm):	0,96
Sand, medium	(0,2 mm - 0,6 mm):	37,26
Sand, coarse	(0,6 mm - 2 mm):	23,11
Gravel	(> 2 mm):	38,19
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	8,50	-3,09
16%	84%	5,56	-2,48
25%	75%	3,75	-1,91
40%	60%	1,77	-0,82
Median 50%	50%	0,90	0,15
75%	25%	0,44	1,18
84%	16%	0,37	1,42
90%	10%	0,32	1,64
95%	5%	0,27	1,88

Moments Statistics

Mean	-0,30
Sorting	1,73
Skewness	-0,33
Kurtosis	0,66
Uniformity Coefficient	5,50

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)
Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)
Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)
Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)
Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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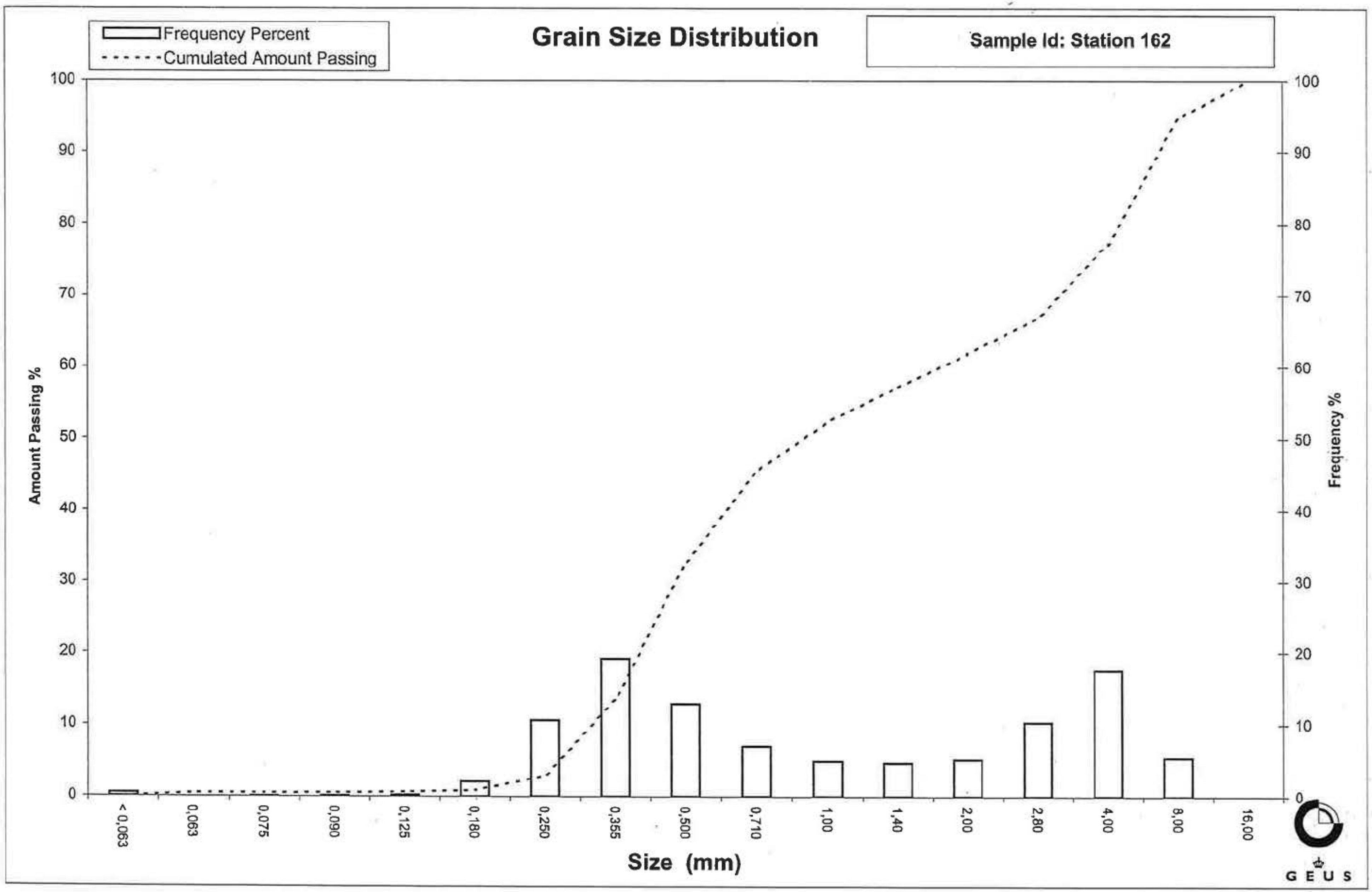
Grain Size Distribution
Sample Id: Station 162
Frequency Percent
Cumulated Amount Passing
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 167
Lab. Id: 080063
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 103,82 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,08	0,08	99,92
Sand	1,00	0,00	0,09	0,09	99,84
Sand	0,710	0,49	0,11	0,11	99,73
Sand	0,500	1,00	0,54	0,52	99,21
Sand	0,355	1,49	4,25	4,09	95,12
Sand	0,250	2,00	34,29	33,03	62,09
Sand	0,180	2,47	47,79	46,03	16,06
Sand	0,125	3,00	11,57	11,14	4,91
Sand	0,090	3,47	3,97	3,82	1,09
Sand	0,075	3,74	0,12	0,12	0,97
Sand	0,063	3,99	0,06	0,06	0,92
	< 0,063	> 3,99	0,95	0,92	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,92
Sand, fine	(0,063 mm - 0,200 mm):	28,29
Sand, medium	(0,2 mm - 0,6 mm):	70,25
Sand, coarse	(0,6 mm - 2 mm):	0,54
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,35	1,50
16%	84%	0,32	1,65
25%	75%	0,29	1,78
40%	60%	0,25	2,02
Median 50%	50%	0,23	2,11
75%	25%	0,19	2,37
84%	16%	0,18	2,48
90%	10%	0,15	2,74
95%	5%	0,13	3,00

Moments Statistics

Mean	2,08
Sorting	0,43
Skewness	0,03
Kurtosis	1,04
Uniformity Coefficient	1,64

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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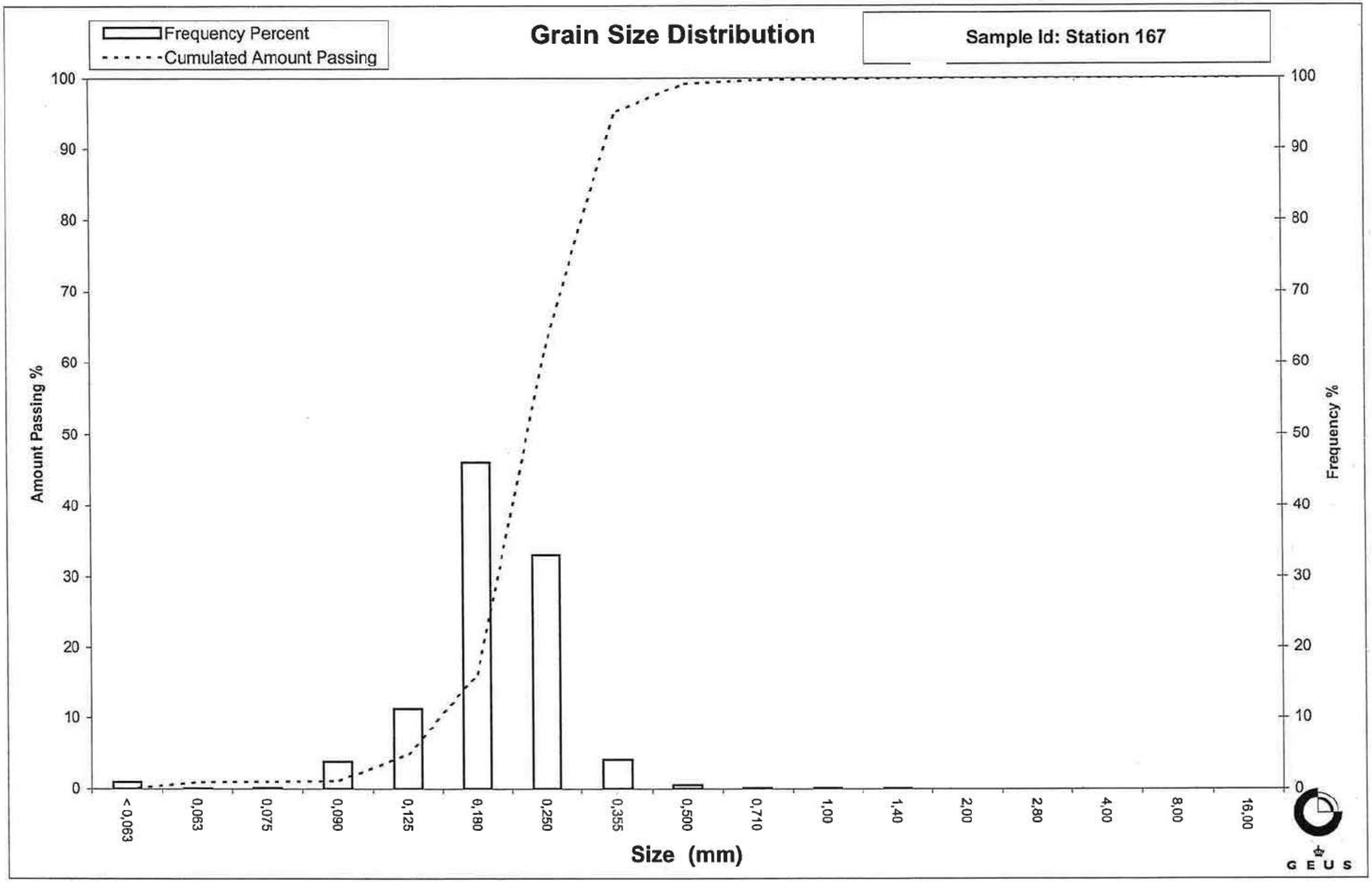

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 167
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 168
Lab. Id: 080064
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 108,77 g

Size Fractions

Sieve Analysis

	Size (mm)	Size (Φ)	Weight (g)	Weight (%)	Cumulated amount passing (%)
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,07	0,06	99,94
Sand	1,00	0,00	0,05	0,05	99,89
Sand	0,710	0,49	0,08	0,07	99,82
Sand	0,500	1,00	0,48	0,44	99,37
Sand	0,355	1,49	3,32	3,05	96,32
Sand	0,250	2,00	31,89	29,32	67,00
Sand	0,180	2,47	49,97	45,94	21,06
Sand	0,125	3,00	19,73	18,14	2,92
Sand	0,090	3,47	1,98	1,82	1,10
Sand	0,075	3,74	0,19	0,17	0,93
Sand	0,063	3,99	0,06	0,06	0,87
	< 0,063	> 3,99	0,95	0,87	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,87
Sand, fine	(0,063 mm - 0,200 mm):	33,32
Sand, medium	(0,2 mm - 0,6 mm):	65,40
Sand, coarse	(0,6 mm - 2 mm):	0,42
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,35	1,51
16%	84%	0,31	1,69
25%	75%	0,28	1,84
40%	60%	0,24	2,06
Median 50%	50%	0,22	2,16
75%	25%	0,19	2,43
84%	16%	0,16	2,60
90%	10%	0,15	2,77
95%	5%	0,13	2,93

Moments Statistics

Mean	2,15
Sorting	0,44
Skewness	0,03
Kurtosis	0,99
Uniformity Coefficient	1,63

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)
Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)
Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)
Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)
Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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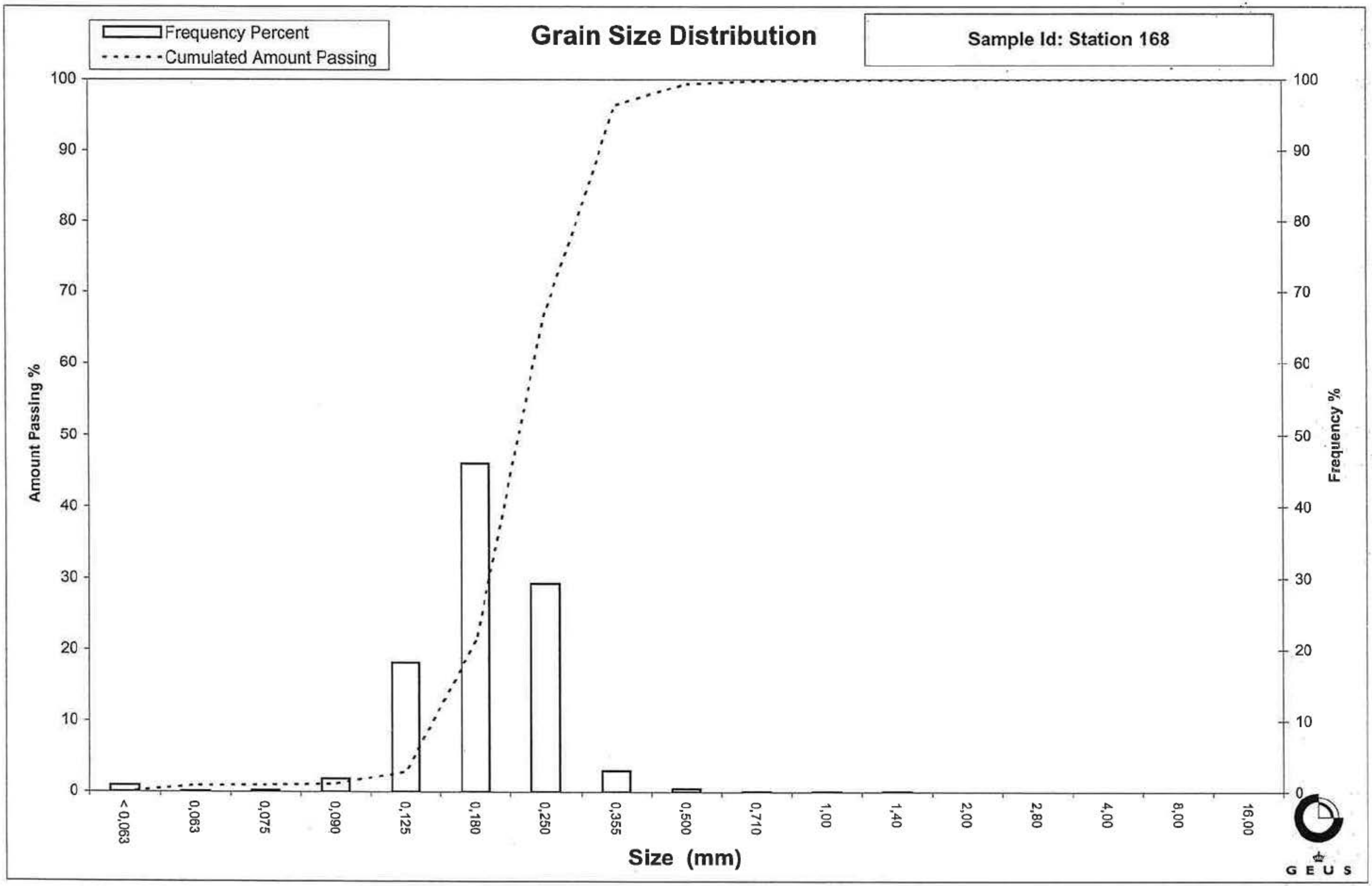
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 168
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution
Geotechnical

Sample Id: Station 173
Lab. Id: 080065
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 107,7 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,09	0,08	99,92
Sand	1,40	-0,49	0,19	0,18	99,74
Sand	1,00	0,00	0,40	0,37	99,37
Sand	0,710	0,49	1,86	1,73	97,64
Sand	0,500	1,00	7,53	6,99	90,65
Sand	0,355	1,49	27,96	25,96	64,69
Sand	0,250	2,00	44,40	41,23	23,46
Sand	0,180	2,47	20,14	18,70	4,76
Sand	0,125	3,00	2,13	1,98	2,79
Sand	0,090	3,47	1,74	1,62	1,17
Sand	0,075	3,74	0,09	0,08	1,09
Sand	0,063	3,99	0,03	0,03	1,06
	< 0,063	> 3,99	1,14	1,06	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,06
Sand, fine	(0,063 mm - 0,200 mm):	9,05
Sand, medium	(0,2 mm - 0,6 mm):	83,87
Sand, coarse	(0,6 mm - 2 mm):	5,94
Gravel	(> 2 mm):	0,08
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,63	0,67
16%	84%	0,46	1,11
25%	75%	0,41	1,28
40%	60%	0,34	1,54
Median 50%	50%	0,32	1,65
75%	25%	0,25	1,98
84%	16%	0,22	2,17
90%	10%	0,20	2,32
95%	5%	0,18	2,47

Moments Statistics

Mean	1,65
Sorting	0,54
Skewness	-0,06
Kurtosis	1,05
Uniformity Coefficient	1,72

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)
Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)
Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)
Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)
Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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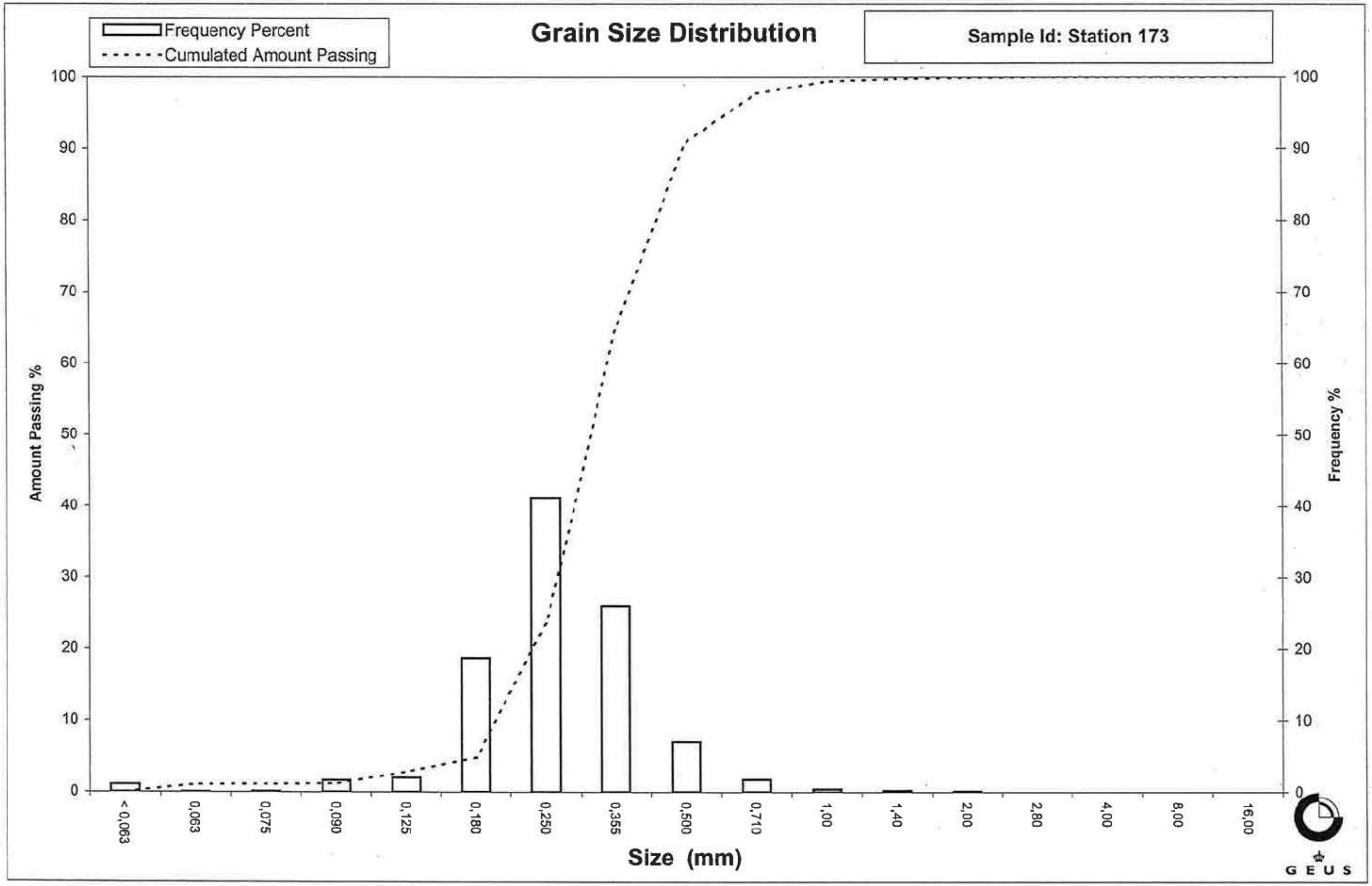
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 173
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 174
Lab. Id: 080066
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 103,07 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,04	0,04	99,96
Sand	1,40	-0,49	0,11	0,11	99,85
Sand	1,00	0,00	0,15	0,15	99,71
Sand	0,710	0,49	0,68	0,66	99,05
Sand	0,500	1,00	4,44	4,31	94,74
Sand	0,355	1,49	24,68	23,94	70,80
Sand	0,250	2,00	46,87	45,47	25,32
Sand	0,180	2,47	20,56	19,95	5,37
Sand	0,125	3,00	4,31	4,18	1,19
Sand	0,090	3,47	0,37	0,36	0,83
Sand	0,075	3,74	0,16	0,16	0,68
Sand	0,063	3,99	0,03	0,03	0,65
	< 0,063	> 3,99	0,67	0,65	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,65
Sand, fine	(0,063 mm - 0,200 mm):	10,42
Sand, medium	(0,2 mm - 0,6 mm):	85,72
Sand, coarse	(0,6 mm - 2 mm):	3,17
Gravel	(> 2 mm):	0,04
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,51	0,96
16%	84%	0,43	1,20
25%	75%	0,38	1,39
40%	60%	0,33	1,60
Median 50%	50%	0,31	1,70
75%	25%	0,25	2,01
84%	16%	0,22	2,20
90%	10%	0,20	2,35
95%	5%	0,18	2,51

Moments Statistics

Mean	1,70
Sorting	0,49
Skewness	0,02
Kurtosis	1,04
Uniformity Coefficient	1,68

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)
Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)
Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)
Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)
Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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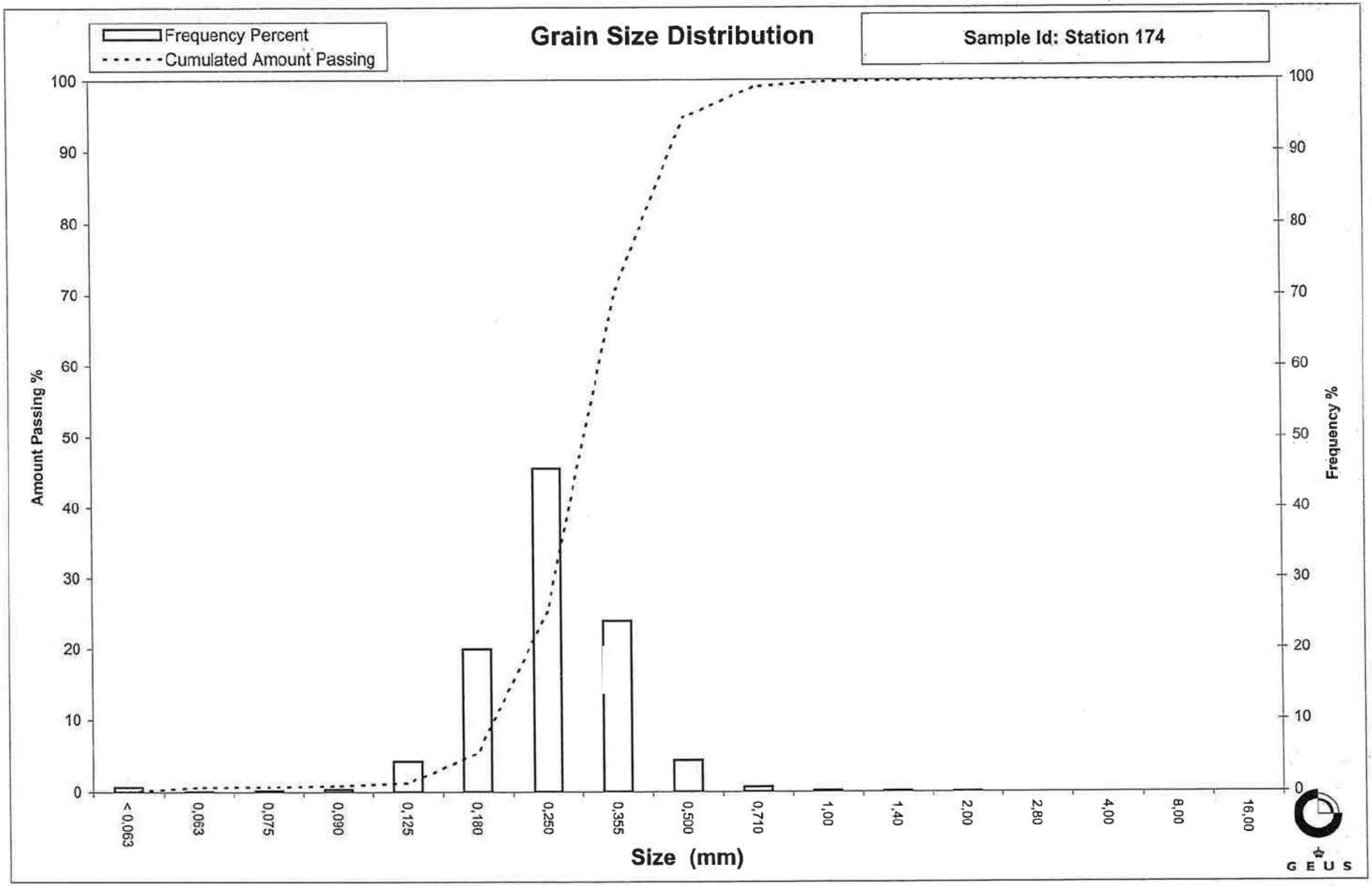
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 174
Amount Passing %
Frequency %
0
10
20
30
40
50
60
70
80
90
100
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 179
Lab. Id: 080067
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 101,84 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,07	0,07	99,93
Sand	1,00	0,00	0,05	0,05	99,88
Sand	0,710	0,49	0,12	0,12	99,76
Sand	0,500	1,00	0,71	0,70	99,07
Sand	0,355	1,49	4,93	4,84	94,23
Sand	0,250	2,00	23,24	22,82	71,41
Sand	0,180	2,47	48,29	47,42	23,99
Sand	0,125	3,00	21,58	21,19	2,80
Sand	0,090	3,47	2,13	2,09	0,71
Sand	0,075	3,74	0,25	0,25	0,46
Sand	0,063	3,99	0,10	0,10	0,36
	< 0,063	> 3,99	0,37	0,36	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,36
Sand, fine	(0,063 mm - 0,200 mm):	37,17
Sand, medium	(0,2 mm - 0,6 mm):	61,86
Sand, coarse	(0,6 mm - 2 mm):	0,60
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,38	1,40
16%	84%	0,31	1,70
25%	75%	0,27	1,91
40%	60%	0,23	2,10
Median 50%	50%	0,22	2,19
75%	25%	0,18	2,46
84%	16%	0,16	2,65
90%	10%	0,14	2,80
95%	5%	0,13	2,94

Moments Statistics

Mean	2,18
Sorting	0,47
Skewness	-0,04
Kurtosis	1,13
Uniformity Coefficient	1,62

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based or "Amount passing".

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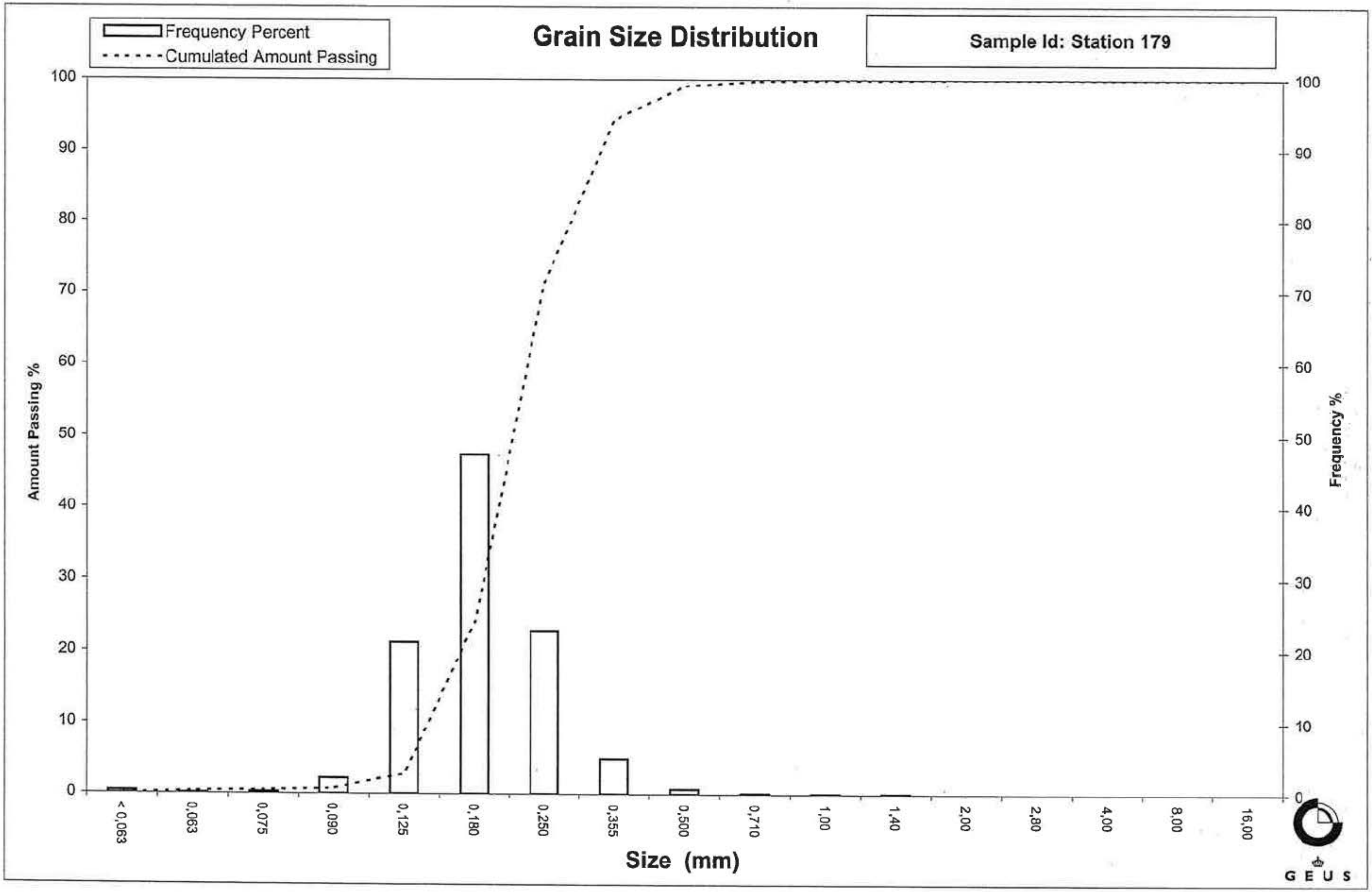
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 179
Amount Passing %
Frequency %
0
10
20
30
40
50
60
70
80
90
100
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 180
Lab. Id: 080068
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 102,51 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,00	0,00	100,00
Sand	1,00	0,00	0,05	0,05	99,95
Sand	0,710	0,49	0,13	0,13	99,82
Sand	0,500	1,00	0,69	0,67	99,15
Sand	0,355	1,49	5,09	4,97	94,19
Sand	0,250	2,00	22,99	22,43	71,76
Sand	0,180	2,47	53,22	51,92	19,84
Sand	0,125	3,00	15,02	14,65	5,19
Sand	0,090	3,47	4,69	4,58	0,61
Sand	0,075	3,74	0,13	0,13	0,49
Sand	0,063	3,99	0,07	0,07	0,42
	< 0,063	> 3,99	0,43	0,42	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,42
Sand, fine	(0,063 mm - 0,200 mm):	34,26
Sand, medium	(0,2 mm - 0,6 mm):	64,80
Sand, coarse	(0,6 mm - 2 mm):	0,53
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,38	1,40
16%	84%	0,31	1,70
25%	75%	0,27	1,91
40%	60%	0,23	2,09
Median 50%	50%	0,22	2,18
75%	25%	0,19	2,42
84%	16%	0,17	2,59
90%	10%	0,14	2,81
95%	5%	0,12	3,02

Moments Statistics

Mean	2,16
Sorting	0,47
Skewness	-0,02
Kurtosis	1,31
Uniformity Coefficient	1,64

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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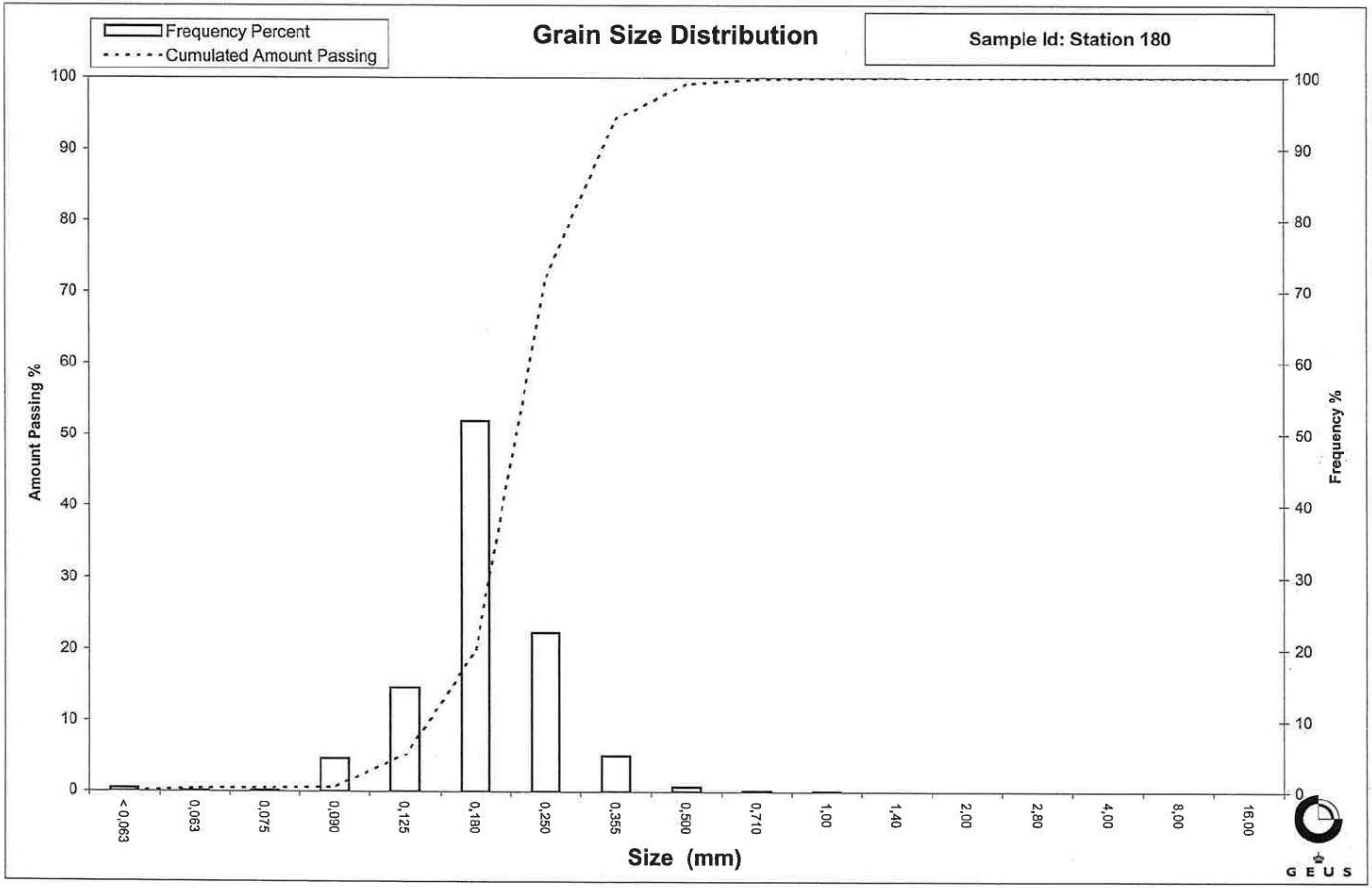

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 180
Amount Passing %
Frequency %
0
10
20
30
40
50
60
70
80
90
100
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution
Geotechnical

Sample Id: Station 185
Lab. Id: 080069
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 103,32 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,04	0,04	99,96
Sand	1,00	0,00	0,04	0,04	99,92
Sand	0,710	0,49	0,28	0,27	99,65
Sand	0,500	1,00	2,75	2,66	96,99
Sand	0,355	1,49	15,83	15,32	81,67
Sand	0,250	2,00	47,42	45,90	35,77
Sand	0,180	2,47	24,43	23,64	12,13
Sand	0,125	3,00	10,72	10,38	1,75
Sand	0,090	3,47	1,15	1,11	0,64
Sand	0,075	3,74	0,15	0,15	0,49
Sand	0,063	3,99	0,06	0,06	0,44
	< 0,063	> 3,99	0,45	0,44	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,44
Sand, fine	(0,063 mm - 0,200 mm):	18,45
Sand, medium	(0,2 mm - 0,6 mm):	79,37
Sand, coarse	(0,6 mm - 2 mm):	1,74
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,48	1,06
16%	84%	0,38	1,41
25%	75%	0,34	1,56
40%	60%	0,31	1,71
Median 50%	50%	0,28	1,82
75%	25%	0,22	2,20
84%	16%	0,19	2,38
90%	10%	0,17	2,57
95%	5%	0,14	2,81

Moments Statistics

Mean	1,87
Sorting	0,51
Skewness	0,14
Kurtosis	1,13
Uniformity Coefficient	1,81

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)
Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)
Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)
Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)
Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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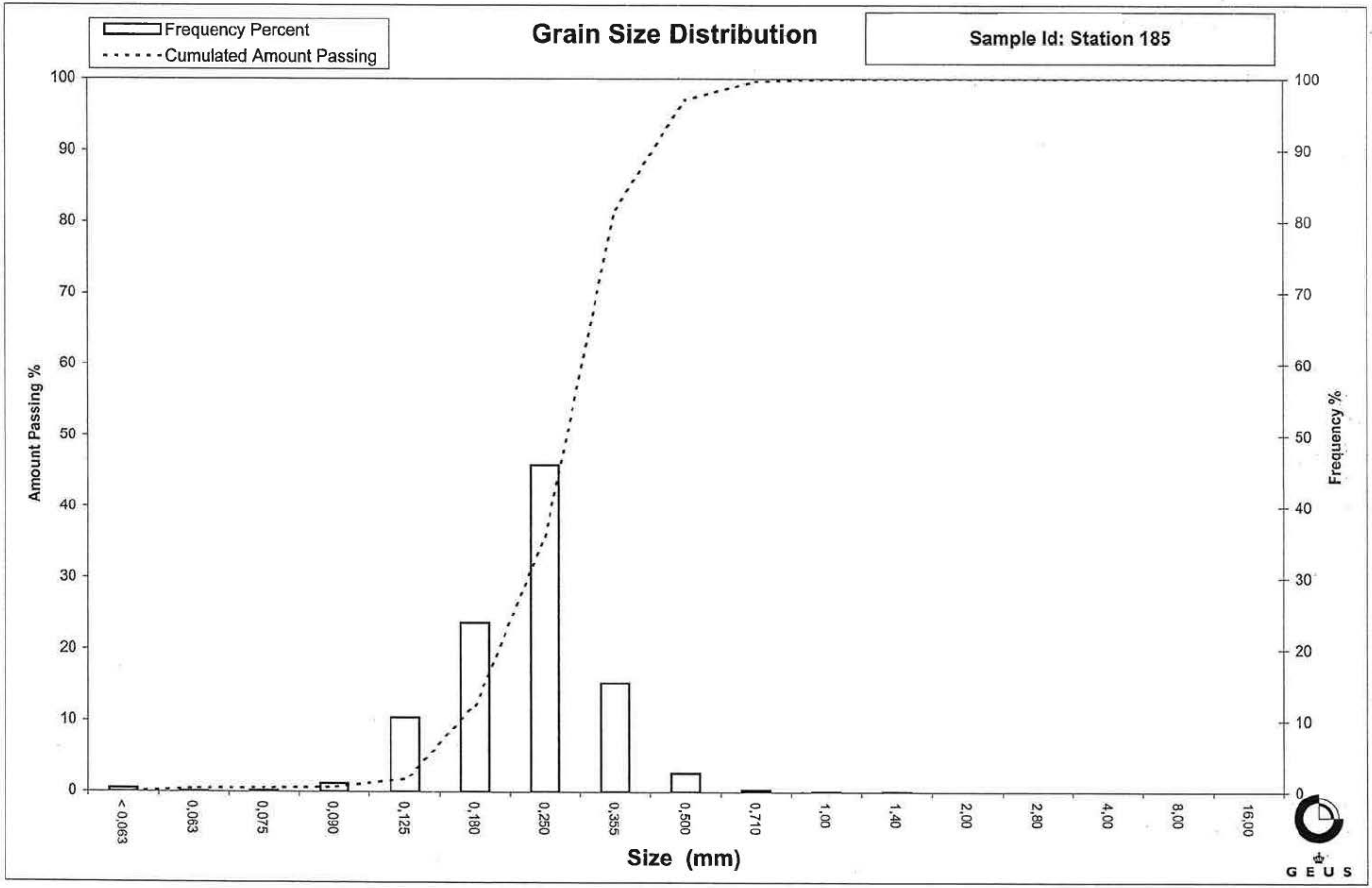

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 185
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 186
Lab. Id: 080070
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 100,95 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,10	0,10	99,90
Sand	1,00	0,00	0,17	0,17	99,73
Sand	0,710	0,49	0,86	0,85	98,88
Sand	0,500	1,00	4,93	4,88	94,00
Sand	0,355	1,49	19,77	19,58	74,41
Sand	0,250	2,00	44,45	44,03	30,38
Sand	0,180	2,47	22,28	22,07	8,31
Sand	0,125	3,00	3,75	3,71	4,60
Sand	0,090	3,47	2,48	2,46	2,14
Sand	0,075	3,74	0,15	0,15	1,99
Sand	0,063	3,99	0,04	0,04	1,95
	< 0,063	> 3,99	1,97	1,95	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,95
Sand, fine	(0,063 mm - 0,200 mm):	12,67
Sand, medium	(0,2 mm - 0,6 mm):	81,71
Sand, coarse	(0,6 mm - 2 mm):	3,68
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,54	0,88
16%	84%	0,43	1,23
25%	75%	0,36	1,48
40%	60%	0,32	1,64
Median 50%	50%	0,30	1,75
75%	25%	0,23	2,10
84%	16%	0,20	2,29
90%	10%	0,19	2,43
95%	5%	0,13	2,93

Moments Statistics

Mean	1,76
Sorting	0,58
Skewness	0,08
Kurtosis	1,34
Uniformity Coefficient	1,73

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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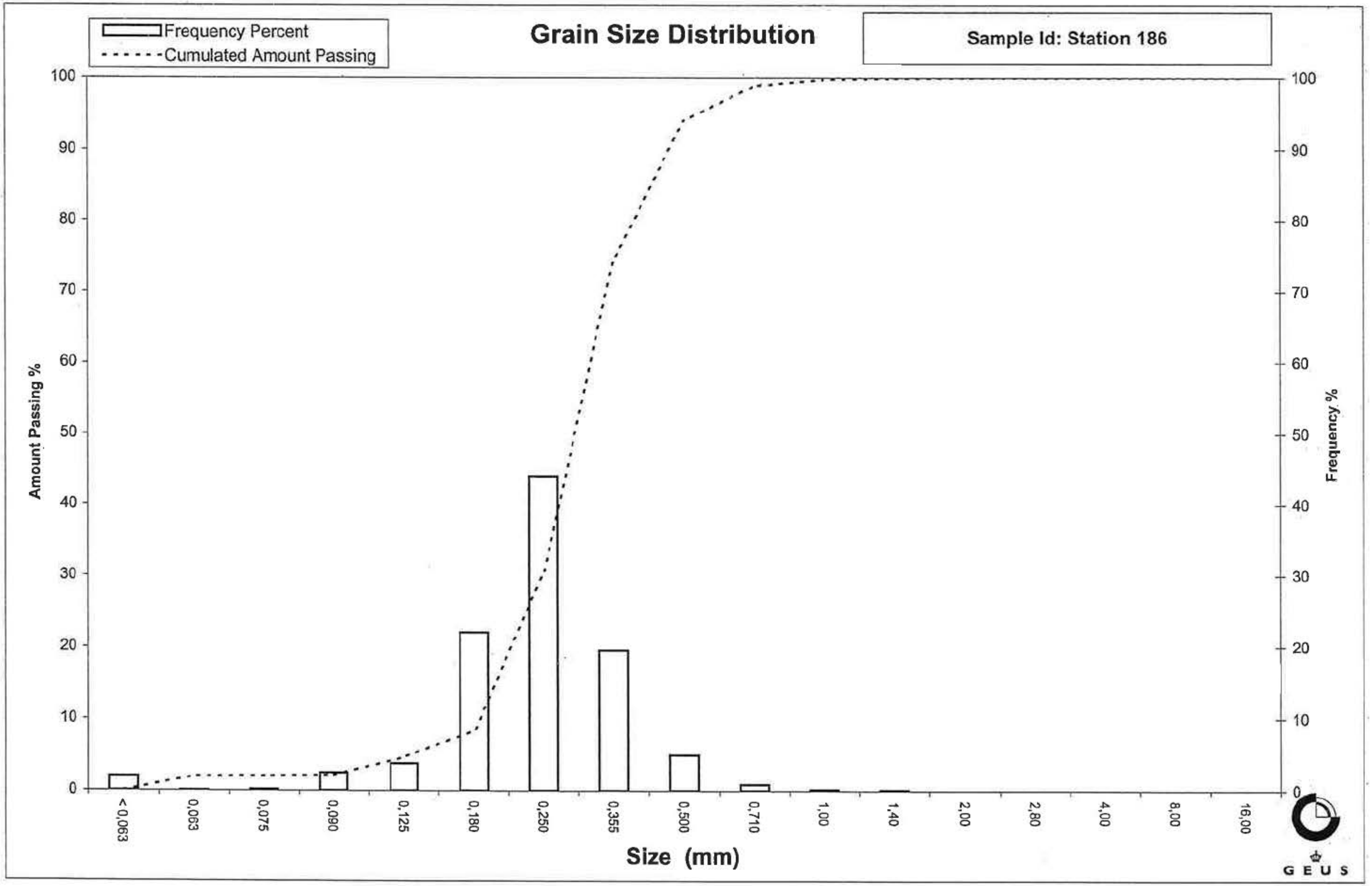

Grain Size Distribution
Sample Id: Station 186
Frequency Percent
Cumulated Amount Passing
Amount Passing %
Frequency %
Size (mm)
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 193
Lab. Id: 080071
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 8mm

GEUS

Total Weight 203,71 g

Size Fractions

Sieve Analysis		Size (mm)	Size (Φ)	Weight (g)	Weight (%)	Cumulated amount passing (%)
Sieve Analysis	Gravel	16,00	-4,00	1,92	0,94	99,06
	Gravel	8,00	-3,00	4,14	2,03	97,03
	Gravel	4,00	-2,00	17,46	8,57	88,45
	Gravel	2,80	-1,49	14,84	7,28	81,17
	Gravel	2,00	-1,00	11,40	5,60	75,57
	Sand	1,40	-0,49	11,25	5,52	70,05
	Sand	1,00	0,00	11,92	5,85	64,20
	Sand	0,710	0,49	17,95	8,81	55,39
	Sand	0,500	1,00	27,55	13,53	41,86
	Sand	0,355	1,49	35,89	17,62	24,24
	Sand	0,250	2,00	31,76	15,59	8,65
	Sand	0,180	2,47	13,26	6,51	2,14
	Sand	0,125	3,00	0,58	0,29	1,86
	Sand	0,090	3,47	2,04	1,00	0,85
	Sand	0,075	3,74	0,12	0,06	0,80
	Sand	0,063	3,99	0,00	0,00	0,80
		< 0,063	> 3,99	1,62	0,80	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,80
Sand, fine	(0,063 mm - 0,200 mm):	3,21
Sand, medium	(0,2 mm - 0,6 mm):	44,30
Sand, coarse	(0,6 mm - 2 mm):	27,27
Gravel	(> 2 mm):	24,43
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	7,05	-2,82
16%	84%	3,27	-1,71
25%	75%	1,94	-0,95
40%	60%	0,86	0,21
Median 50%	50%	0,63	0,67
75%	25%	0,36	1,47
84%	16%	0,30	1,74
90%	10%	0,26	1,95
95%	5%	0,21	2,25

Moments Statistics

Mean	0,24
Sorting	1,63
Skewness	-0,38
Kurtosis	0,86
Uniformity Coefficient	3,33

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean $(\phi16\%+\phi84\%+\phi50\%) / 3$ (Folk and Ward 1957)

Sorting $(\phi84\%-\phi16\%) / 4 + (\phi95\%-\phi5\%) / 6{,}6$ (Folk and Ward 1957)

Kurtosis $(\phi95\% - \phi5\%) / (2{,}44 * (\phi75\% - \phi25\%))$ (Folk and Ward 1957)

Skewness $(\phi16\%+\phi84\% - 2*\phi50\%) / (2*(\phi84\%-\phi16\%)) + (\phi5\%+\phi95\% - 2*\phi50\%) / (2*(\phi95\%-\phi5\%))$ (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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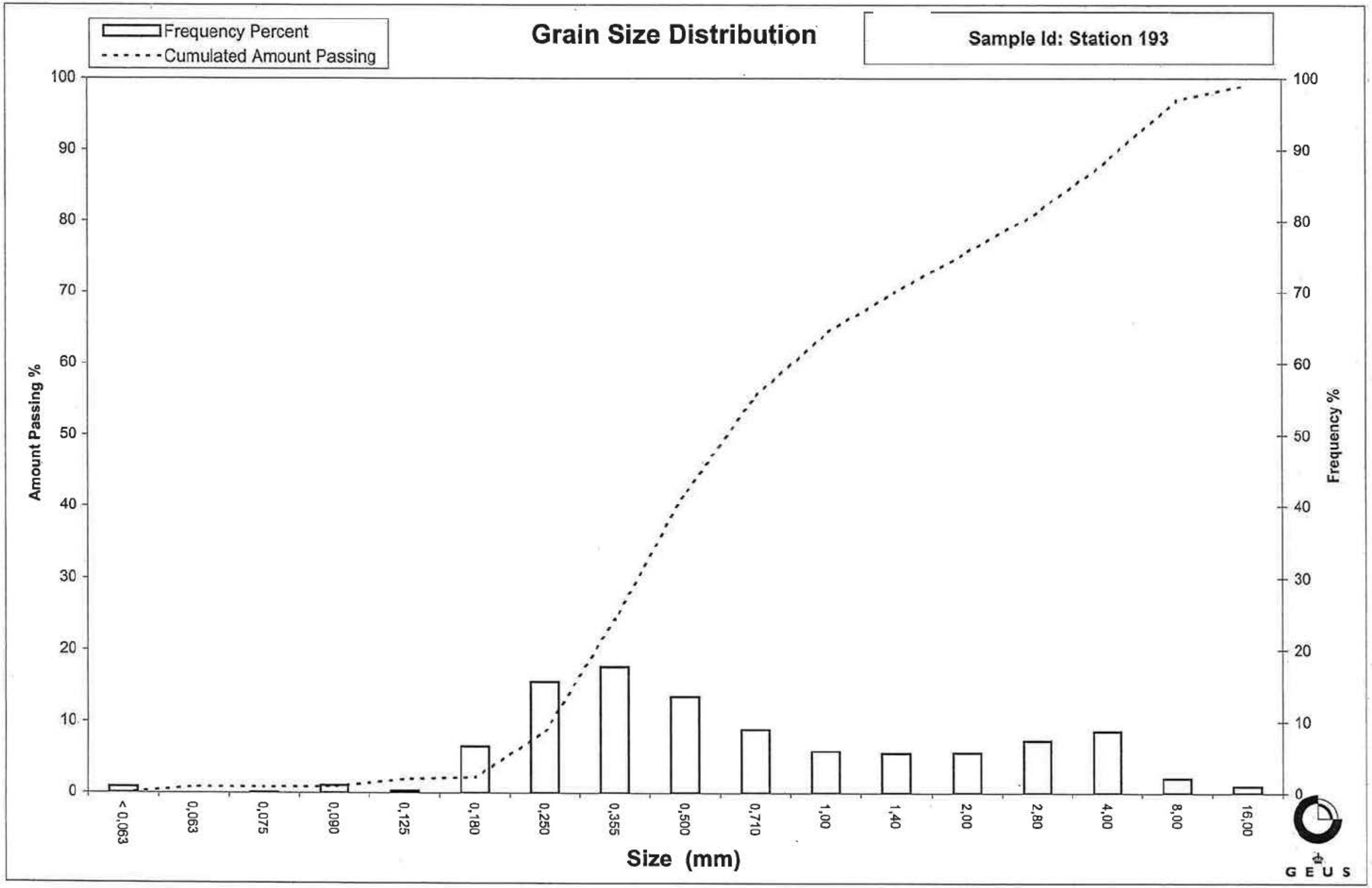

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 193
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 194
Lab. Id: 080072
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 8mm

GEUS

Total Weight 201,88 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	3,21	1,59	98,41
Gravel	4,00	-2,00	10,37	5,14	93,27
Gravel	2,80	-1,49	9,38	4,65	88,63
Gravel	2,00	-1,00	10,10	5,00	83,62
Sand	1,40	-0,49	10,23	5,07	78,56
Sand	1,00	0,00	12,93	6,40	72,15
Sand	0,710	0,49	23,02	11,40	60,75
Sand	0,500	1,00	38,44	19,04	41,71
Sand	0,355	1,49	45,12	22,35	19,36
Sand	0,250	2,00	27,85	13,80	5,57
Sand	0,180	2,47	6,71	3,32	2,24
Sand	0,125	3,00	3,32	1,65	0,60
Sand	0,090	3,47	0,24	0,12	0,48
Sand	0,075	3,74	0,08	0,04	0,44
Sand	0,063	3,99	0,00	0,00	0,44
	< 0,063	> 3,99	0,89	0,44	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,44
Sand, fine	(0,063 mm - 0,200 mm):	2,75
Sand, medium	(0,2 mm - 0,6 mm):	47,59
Sand, coarse	(0,6 mm - 2 mm):	32,84
Gravel	(> 2 mm):	16,38
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	5,34	-2,42
16%	84%	2,06	-1,04
25%	75%	1,18	-0,24
40%	60%	0,70	0,51
Median 50%	50%	0,59	0,76
75%	25%	0,39	1,35
84%	16%	0,33	1,60
90%	10%	0,28	1,82
95%	5%	0,24	2,07

Moments Statistics

Mean	0,44
Sorting	1,34
Skewness	0,39
Kurtosis	1,16
Uniformity Coefficient	2,47

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)
Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)
Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)
Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)
Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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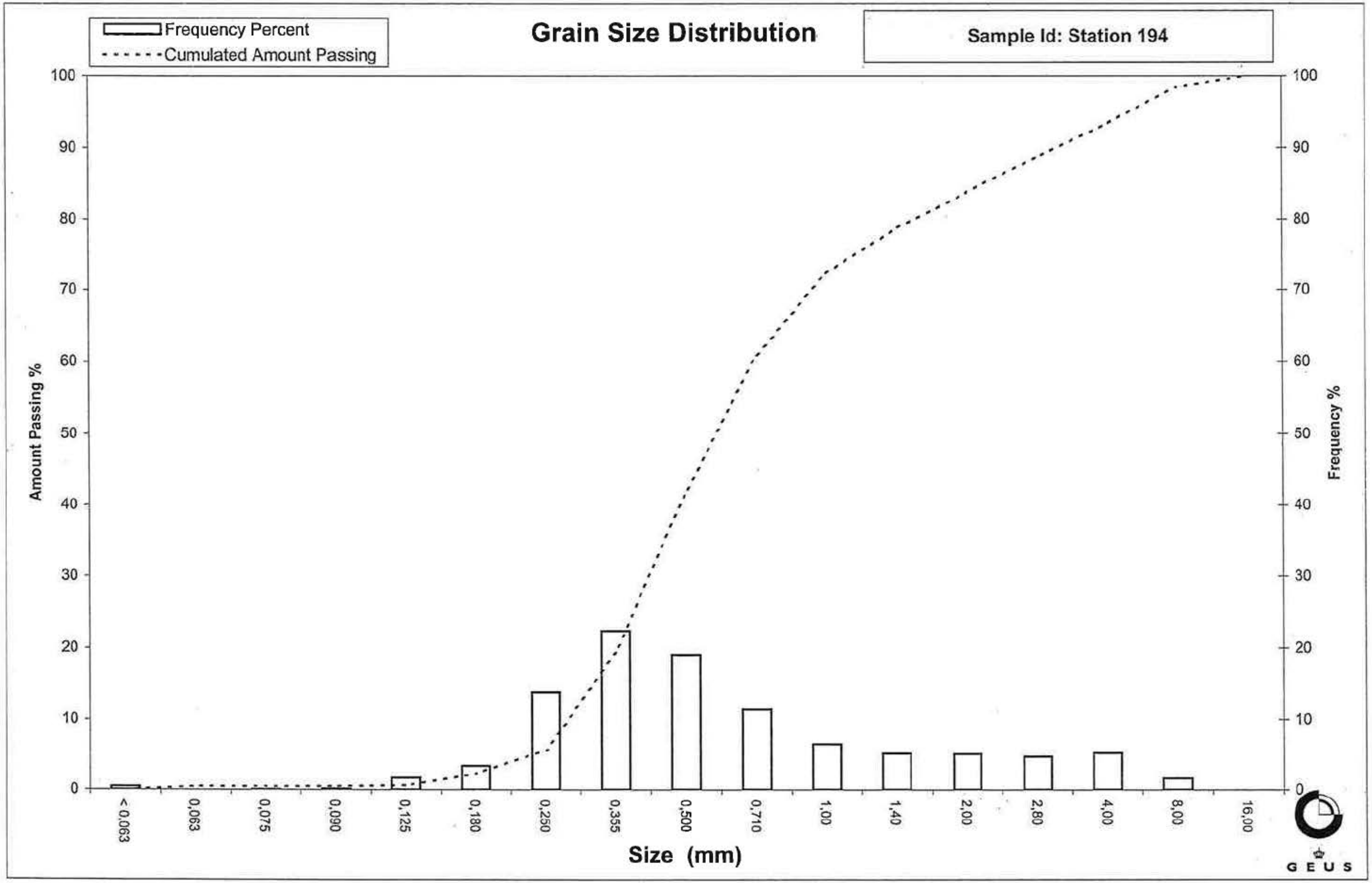
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 194
Amount Passing %
Frequency %
0
10
20
30
40
50
60
70
80
90
100
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 199
Lab. Id: 080073
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 100,63 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,16	0,16	99,84
Sand	1,00	0,00	0,30	0,30	99,54
Sand	0,710	0,49	0,61	0,61	98,94
Sand	0,500	1,00	1,15	1,14	97,79
Sand	0,355	1,49	2,33	2,32	95,48
Sand	0,250	2,00	5,74	5,70	89,77
Sand	0,180	2,47	22,90	22,76	67,02
Sand	0,125	3,00	50,48	50,16	16,85
Sand	0,090	3,47	14,15	14,06	2,79
Sand	0,075	3,74	0,38	0,38	2,41
Sand	0,063	3,99	0,09	0,09	2,33
	< 0,063	> 3,99	2,34	2,33	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	2,33
Sand, fine	(0,063 mm - 0,200 mm):	71,19
Sand, medium	(0,2 mm - 0,6 mm):	24,82
Sand, coarse	(0,6 mm - 2 mm):	1,66
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,35	1,53
16%	84%	0,23	2,11
25%	75%	0,20	2,29
40%	60%	0,17	2,54
Median 50%	50%	0,16	2,63
75%	25%	0,13	2,90
84%	16%	0,12	3,02
90%	10%	0,11	3,21
95%	5%	0,10	3,39

Moments Statistics

Mean	2,59
Sorting	0,51
Skewness	-0,16
Kurtosis	1,25
Uniformity Coefficient	,60

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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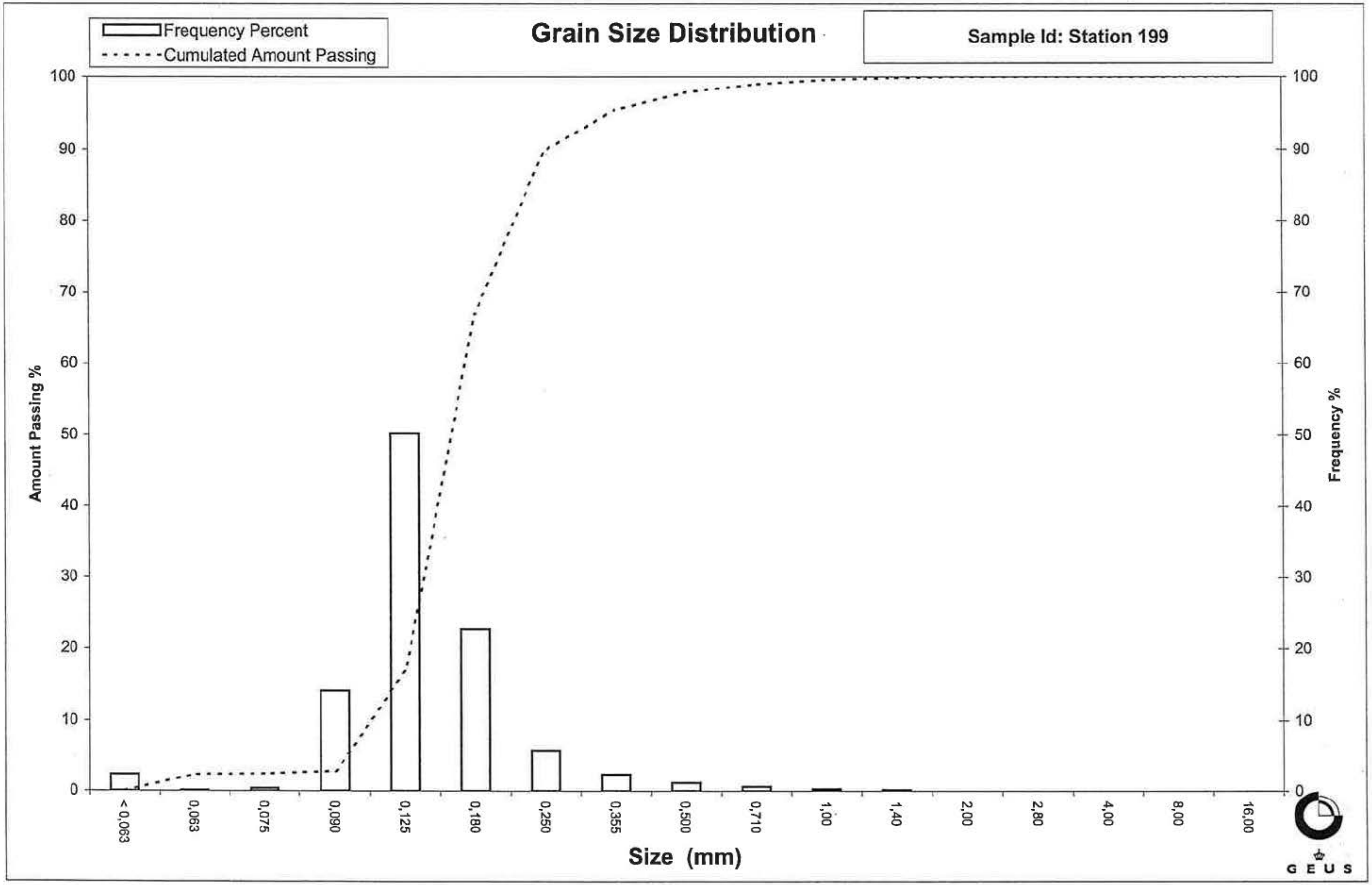

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 199
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 200
Lab. Id: 080074
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 103,81 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,11	0,11	99,89
Sand	1,00	0,00	0,25	0,24	99,65
Sand	0,710	0,49	0,51	0,49	99,16
Sand	0,500	1,00	1,00	0,96	98,20
Sand	0,355	1,49	2,20	2,12	96,08
Sand	0,250	2,00	6,56	6,32	89,76
Sand	0,180	2,47	21,62	20,83	68,93
Sand	0,125	3,00	61,06	58,82	10,11
Sand	0,090	3,47	8,12	7,82	2,29
Sand	0,075	3,74	0,28	0,27	2,02
Sand	0,063	3,99	0,05	0,05	1,97
	< 0,063	> 3,99	2,05	1,97	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,97
Sand, fine	(0,063 mm - 0,200 mm):	72,91
Sand, medium	(0,2 mm - 0,6 mm):	23,77
Sand, coarse	(0,6 mm - 2 mm):	1,34
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,34	1,57
16%	84%	0,23	2,12
25%	75%	0,20	2,32
40%	60%	0,17	2,54
Median 50%	50%	0,16	2,62
75%	25%	0,14	2,85
84%	16%	0,13	2,94
90%	10%	0,12	3,01
95%	5%	0,10	3,29

Moments Statistics

Mean	2,56
Sorting	0,47
Skewness	-0,23
Kurtosis	1,34
Uniformity Coefficient	1,38

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)
Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)
Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)
Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)
Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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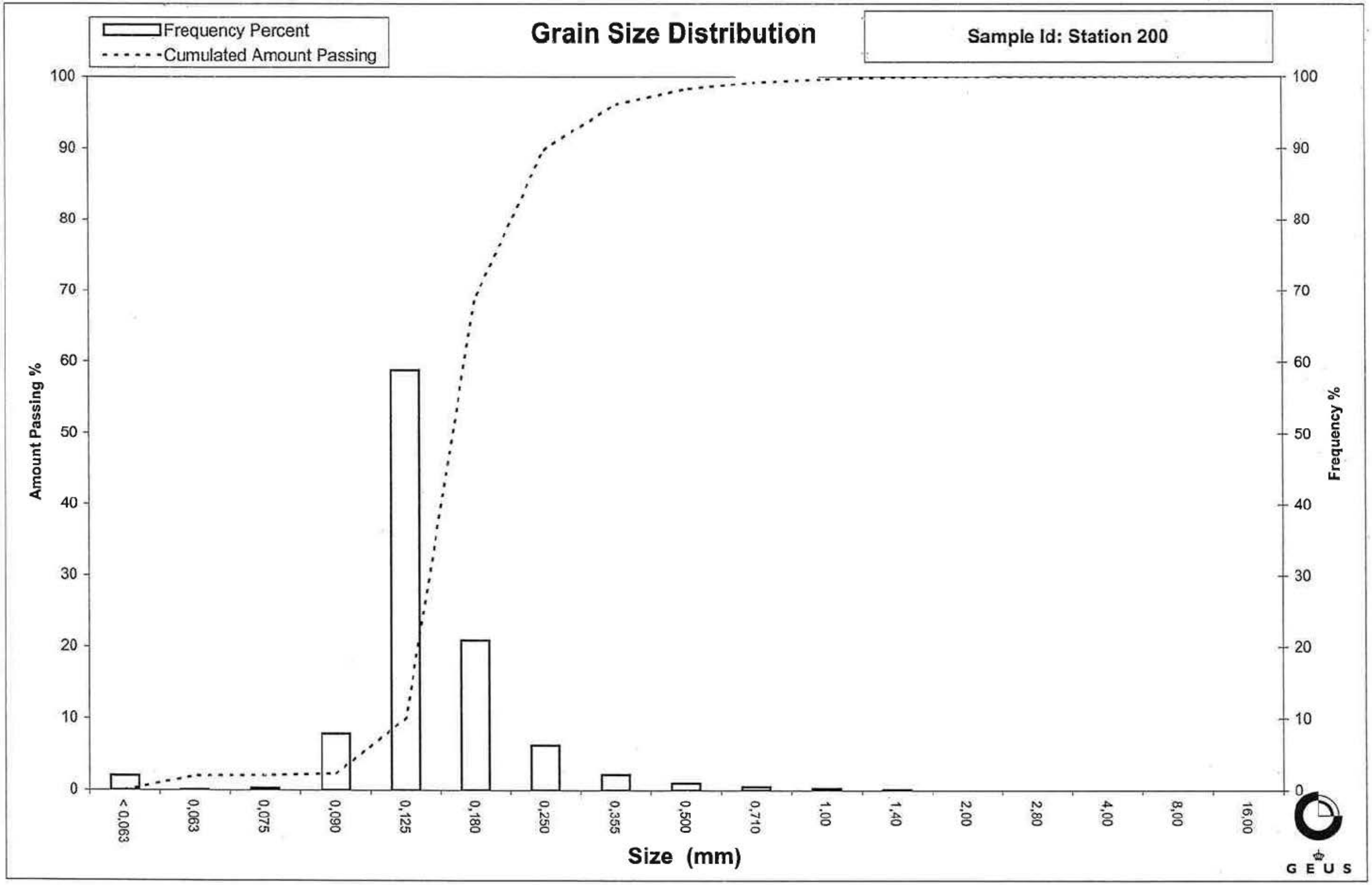

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 200
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 210
Lab. Id: 080075
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 105,13 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	1,09	1,04	98,96
Gravel	4,00	-2,00	0,39	0,37	98,59
Gravel	2,80	-1,49	0,10	0,10	98,50
Gravel	2,00	-1,00	0,07	0,07	98,43
Sand	1,40	-0,49	0,17	0,16	98,27
Sand	1,00	0,00	0,37	0,35	97,92
Sand	0,710	0,49	0,38	0,36	97,56
Sand	0,500	1,00	0,69	0,66	96,90
Sand	0,355	1,49	1,53	1,46	95,44
Sand	0,250	2,00	6,55	6,23	89,21
Sand	0,180	2,47	27,13	25,81	63,41
Sand	0,125	3,00	57,96	55,13	8,28
Sand	0,090	3,47	6,49	6,17	2,10
Sand	0,075	3,74	0,29	0,28	1,83
Sand	0,063	3,99	0,05	0,05	1,78
	< 0,063	> 3,99	1,87	1,78	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,78
Sand, fine	(0,063 mm - 0,200 mm):	69,00
Sand, medium	(0,2 mm - 0,6 mm):	26,43
Sand, coarse	(0,6 mm - 2 mm):	1,22
Gravel	(> 2 mm):	1,57
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,35	1,52
16%	84%	0,24	2,08
25%	75%	0,21	2,24
40%	60%	0,18	2,50
Median 50%	50%	0,17	2,59
75%	25%	0,14	2,82
84%	16%	0,13	2,91
90%	10%	0,13	2,98
95%	5%	0,11	3,23

Moments Statistics

Mean	2,53
Sorting	0,47
Skewness	-0,23
Kurtosis	1,21
Uniformity Coefficient	1,39

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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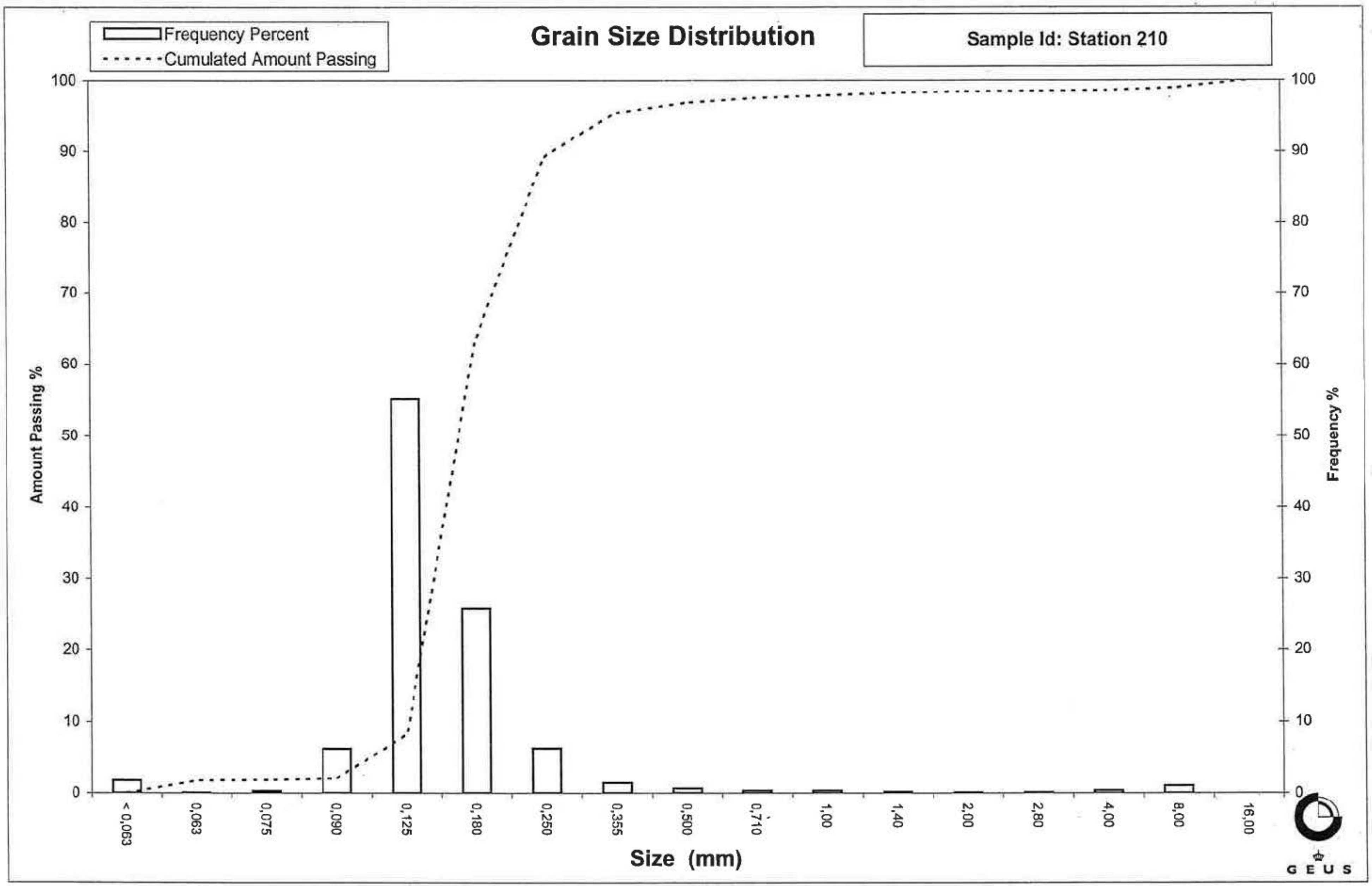
Grain Size Distribution
Sample Id: Station 210
Frequency Percent
Cumulated Amount Passing
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 211
Lab. Id: 080076
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 108,76 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	5,22	4,80	95,20
Gravel	8,00	-3,00	0,00	0,00	95,20
Gravel	4,00	-2,00	0,00	0,00	95,20
Gravel	2,80	-1,49	0,00	0,00	95,20
Gravel	2,00	-1,00	0,00	0,00	95,20
Sand	1,40	-0,49	0,28	0,26	94,94
Sand	1,00	0,00	0,15	0,14	94,81
Sand	0,710	0,49	0,26	0,24	94,57
Sand	0,500	1,00	0,45	0,41	94,15
Sand	0,355	1,49	1,32	1,21	92,94
Sand	0,250	2,00	6,46	5,94	87,00
Sand	0,180	2,47	28,52	26,22	60,78
Sand	0,125	3,00	57,89	53,23	7,55
Sand	0,090	3,47	6,97	6,41	1,14
Sand	0,075	3,74	0,34	0,31	0,83
Sand	0,063	3,99	0,09	0,08	0,74
	< 0,063	> 3,99	0,81	0,74	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,74
Sand, fine	(0,063 mm - 0,200 mm):	67,52
Sand, medium	(0,2 mm - 0,6 mm):	26,08
Sand, coarse	(0,6 mm - 2 mm):	0,85
Gravel	(> 2 mm):	4,80
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	1,53	-0,62
16%	84%	0,24	2,05
25%	75%	0,22	2,20
40%	60%	0,18	2,48
Median 50%	50%	0,17	2,57
75%	25%	0,14	2,81
84%	16%	0,13	2,90
90%	10%	0,13	2,97
95%	5%	0,11	3,17

Moments Statistics

Mean	2,51
Sorting	0,79
Skewness	-0,45
Kurtosis	2,55
Uniformity Coefficient	1,41

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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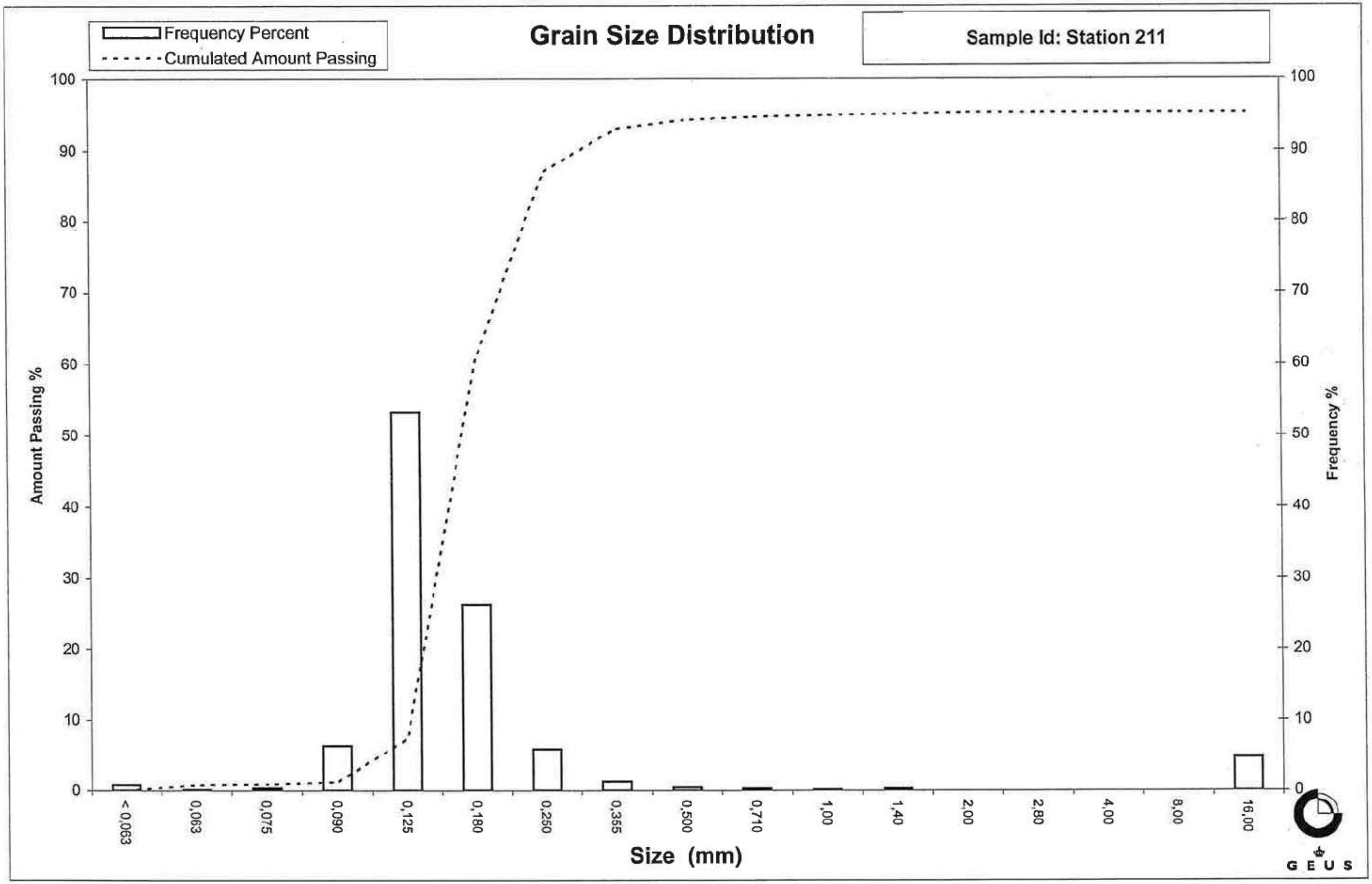

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 211
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 217
Lab. Id: 080077
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 8mm

GEUS

Total Weight 202,75 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	2,03	1,00	99,00
Gravel	8,00	-3,00	1,12	0,55	98,45
Gravel	4,00	-2,00	0,78	0,38	98,06
Gravel	2,80	-1,49	6,97	3,44	94,62
Gravel	2,00	-1,00	30,24	14,91	79,71
Sand	1,40	-0,49	60,99	30,08	49,63
Sand	1,00	0,00	51,90	25,60	24,03
Sand	0,710	0,49	25,28	12,47	11,56
Sand	0,500	1,00	7,59	3,75	7,82
Sand	0,355	1,49	3,64	1,80	6,02
Sand	0,250	2,00	3,52	1,74	4,28
Sand	0,180	2,47	3,84	1,89	2,39
Sand	0,125	3,00	2,05	1,01	1,38
Sand	0,090	3,47	0,28	0,14	1,25
Sand	0,075	3,74	0,04	0,02	1,23
Sand	0,063	3,99	0,02	0,01	1,22
	< 0,063	> 3,99	2,47	1,22	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,22
Sand, fine	(0,063 mm - 0,200 mm):	1,71
Sand, medium	(0,2 mm - 0,6 mm):	6,67
Sand, coarse	(0,6 mm - 2 mm):	70,11
Gravel	(> 2 mm):	20,29
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	2,93	-1,55
16%	84%	2,23	-1,16
25%	75%	1,91	-0,93
40%	60%	1,61	-0,68
Median 50%	50%	1,41	-0,49
75%	25%	1,02	-0,02
84%	16%	0,81	0,30
90%	10%	0,62	0,68
95%	5%	0,29	1,77

Moments Statistics

Mean	-0,45
Sorting	0,87
Skewness	0,23
Kurtosis	1,50
Uniformity Coefficient	2,58

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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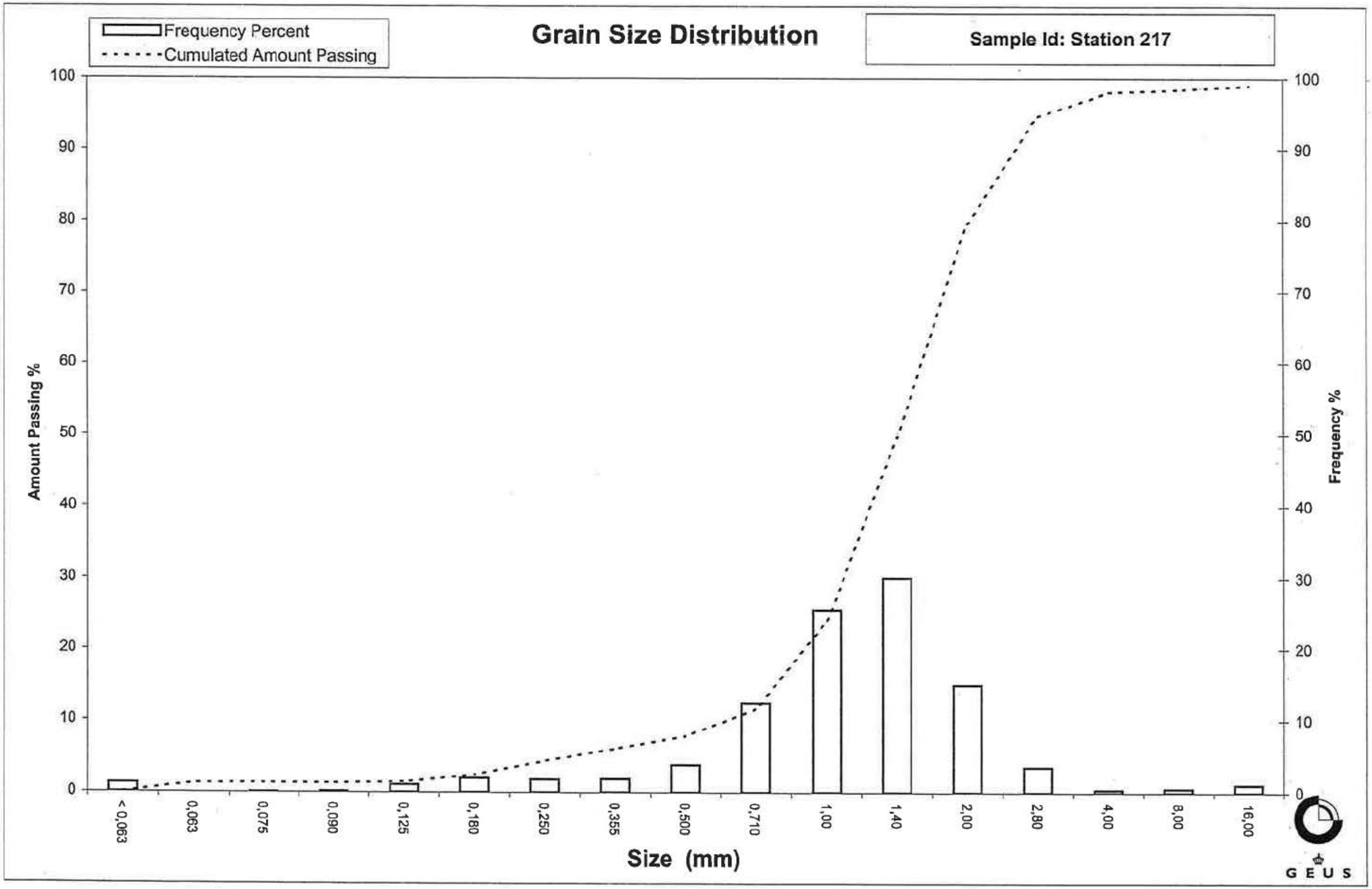

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 217
Amount Passing %
Frequency %
0
10
20
30
40
50
60
70
80
90
100
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 218
Lab. Id: 080078
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 8mm

GEUS

Total Weight 200,1 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,48	0,24	99,76
Gravel	2,80	-1,49	9,37	4,68	95,08
Gravel	2,00	-1,00	42,27	21,12	73,95
Sand	1,40	-0,49	68,65	34,31	39,65
Sand	1,00	0,00	38,89	19,43	20,21
Sand	0,710	0,49	13,88	6,93	13,28
Sand	0,500	1,00	7,71	3,85	9,43
Sand	0,355	1,49	5,30	2,65	6,78
Sand	0,250	2,00	5,15	2,57	4,21
Sand	0,180	2,47	4,84	2,42	1,79
Sand	0,125	3,00	2,16	1,08	0,71
Sand	0,090	3,47	0,35	0,18	0,53
Sand	0,075	3,74	0,06	0,03	0,50
Sand	0,063	3,99	0,00	0,00	0,50
	< 0,063	> 3,99	1,00	0,50	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,50
Sand, fine	(0,063 mm - 0,200 mm):	1,98
Sand, medium	(0,2 mm - 0,6 mm):	8,78
Sand, coarse	(0,6 mm - 2 mm):	62,69
Gravel	(> 2 mm):	26,05
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	2,80	-1,48
16%	84%	2,38	-1,25
25%	75%	2,04	-1,03
40%	60%	1,76	-0,81
Median 50%	50%	1,58	-0,66
75%	25%	1,10	-0,14
84%	16%	0,82	0,28
90%	10%	0,53	0,91
95%	5%	0,28	1,82

Moments Statistics

Mean	-0,54
Sorting	0,88
Skewness	0,37
Kurtosis	1,52
Uniformity Coefficient	3,31

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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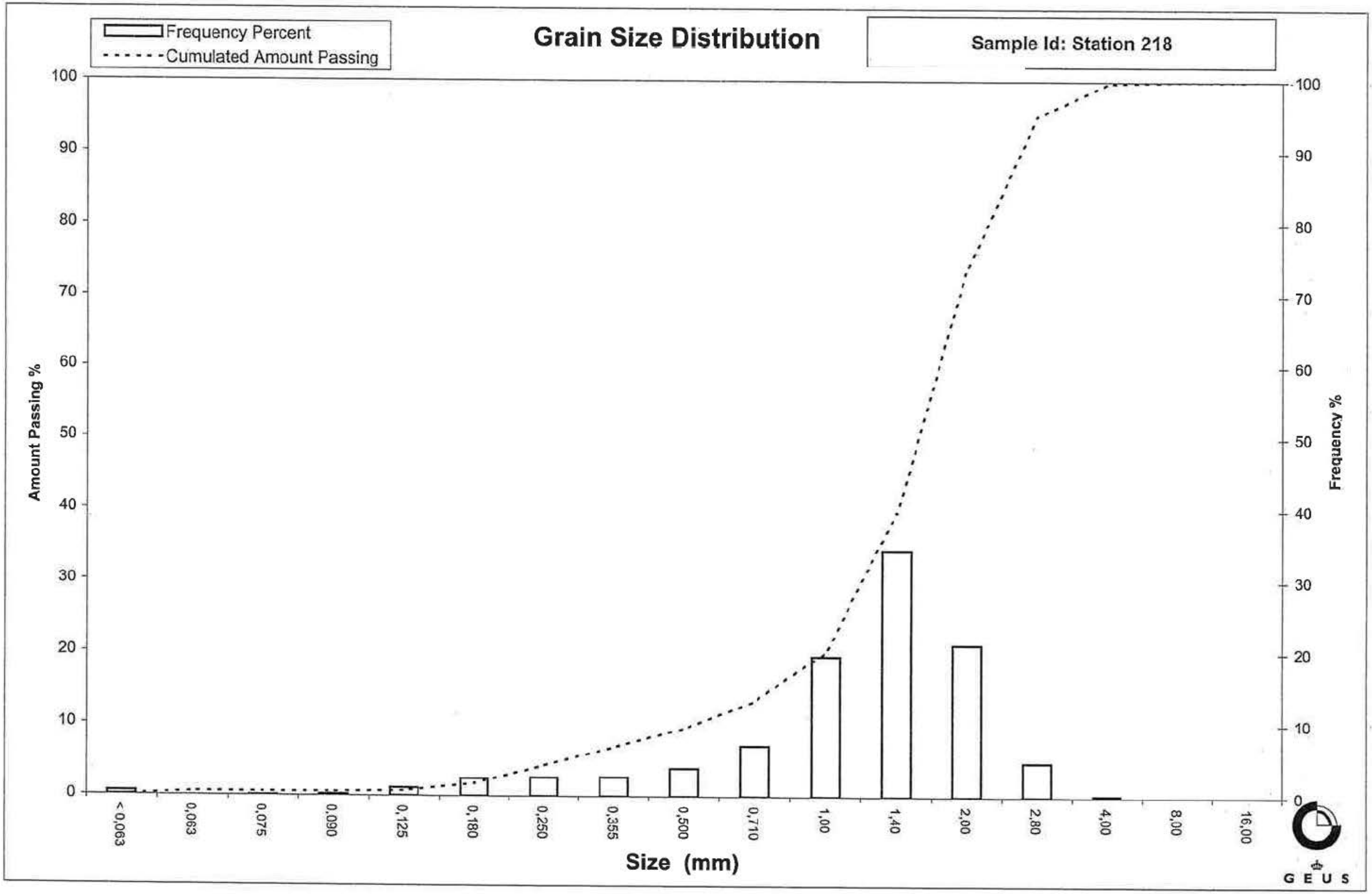

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 218
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id:	Station 224
Lab. Id:	080079
Submitter:	DFU
Subject:	Tobistogt< L 151> dec.07
Date:	Marts/april 2008
Executed:	K.Fries/I. Nørgaard
Remarks:	For mat < 2mm

GEUS

Total Weight 101,52 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,27	0,27	99,73
Sand	1,40	-0,49	0,34	0,33	99,40
Sand	1,00	0,00	0,26	0,26	99,14
Sand	0,710	0,49	0,17	0,17	98,98
Sand	0,500	1,00	0,30	0,30	98,68
Sand	0,355	1,49	1,39	1,37	97,31
Sand	0,250	2,00	9,00	8,87	88,45
Sand	0,180	2,47	67,58	66,57	21,88
Sand	0,125	3,00	20,46	20,15	1,72
Sand	0,090	3,47	0,75	0,74	0,99
Sand	0,075	3,74	0,07	0,07	0,92
Sand	0,063	3,99	0,01	0,01	0,91
	< 0,063	> 3,99	0,92	0,91	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,91
Sand, fine	(0,063 mm - 0,200 mm):	39,99
Sand, medium	(0,2 mm - 0,6 mm):	57,92
Sand, coarse	(0,6 mm - 2 mm):	0,91
Gravel	(> 2 mm):	0,27
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,33	1,61
16%	84%	0,25	2,03
25%	75%	0,24	2,08
40%	60%	0,22	2,18
Median 50%	50%	0,21	2,25
75%	25%	0,18	2,45
84%	16%	0,16	2,61
90%	10%	0,15	2,76
95%	5%	0,13	2,90

Moments Statistics

Mean	2,30
Sorting	0,34
Skewness	0,11
Kurtosis	1,45
Uniformity Coefficient	1,49

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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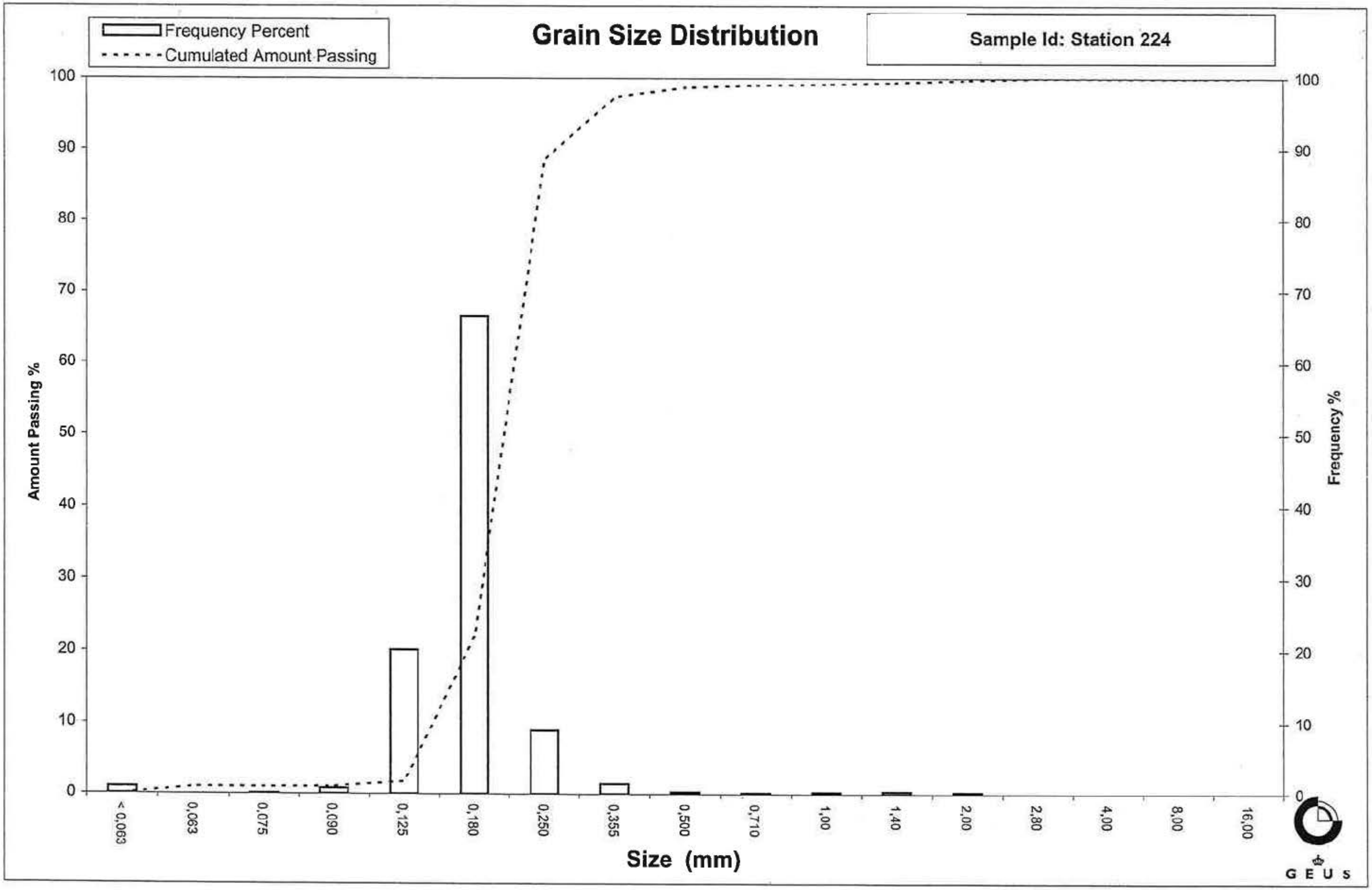
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 224
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 225
Lab. Id: 080080
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 101,02 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,17	0,17	99,83
Sand	1,40	-0,49	0,03	0,03	99,80
Sand	1,00	0,00	0,02	0,02	99,78
Sand	0,710	0,49	0,05	0,05	99,73
Sand	0,500	1,00	0,22	0,22	99,51
Sand	0,355	1,49	1,35	1,34	98,18
Sand	0,250	2,00	9,52	9,42	88,75
Sand	0,180	2,47	61,35	60,73	28,02
Sand	0,125	3,00	25,97	25,71	2,32
Sand	0,090	3,47	1,12	1,11	1,21
Sand	0,075	3,74	0,08	0,08	1,13
Sand	0,063	3,99	0,00	0,00	1,13
	< 0,063	> 3,99	1,14	1,13	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,13
Sand, fine	(0,063 mm - 0,200 mm):	44,25
Sand, medium	(0,2 mm - 0,6 mm):	54,24
Sand, coarse	(0,6 mm - 2 mm):	0,21
Gravel	(> 2 mm):	0,17
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,32	1,65
16%	84%	0,24	2,03
25%	75%	0,23	2,09
40%	60%	0,22	2,21
Median 50%	50%	0,21	2,28
75%	25%	0,17	2,53
84%	16%	0,15	2,70
90%	10%	0,14	2,82
95%	5%	0,13	2,94

Moments Statistics

Mean	2,34
Sorting	0,36
Skewness	0,13
Kurtosis	1,22
Uniformity Coefficient	1,53

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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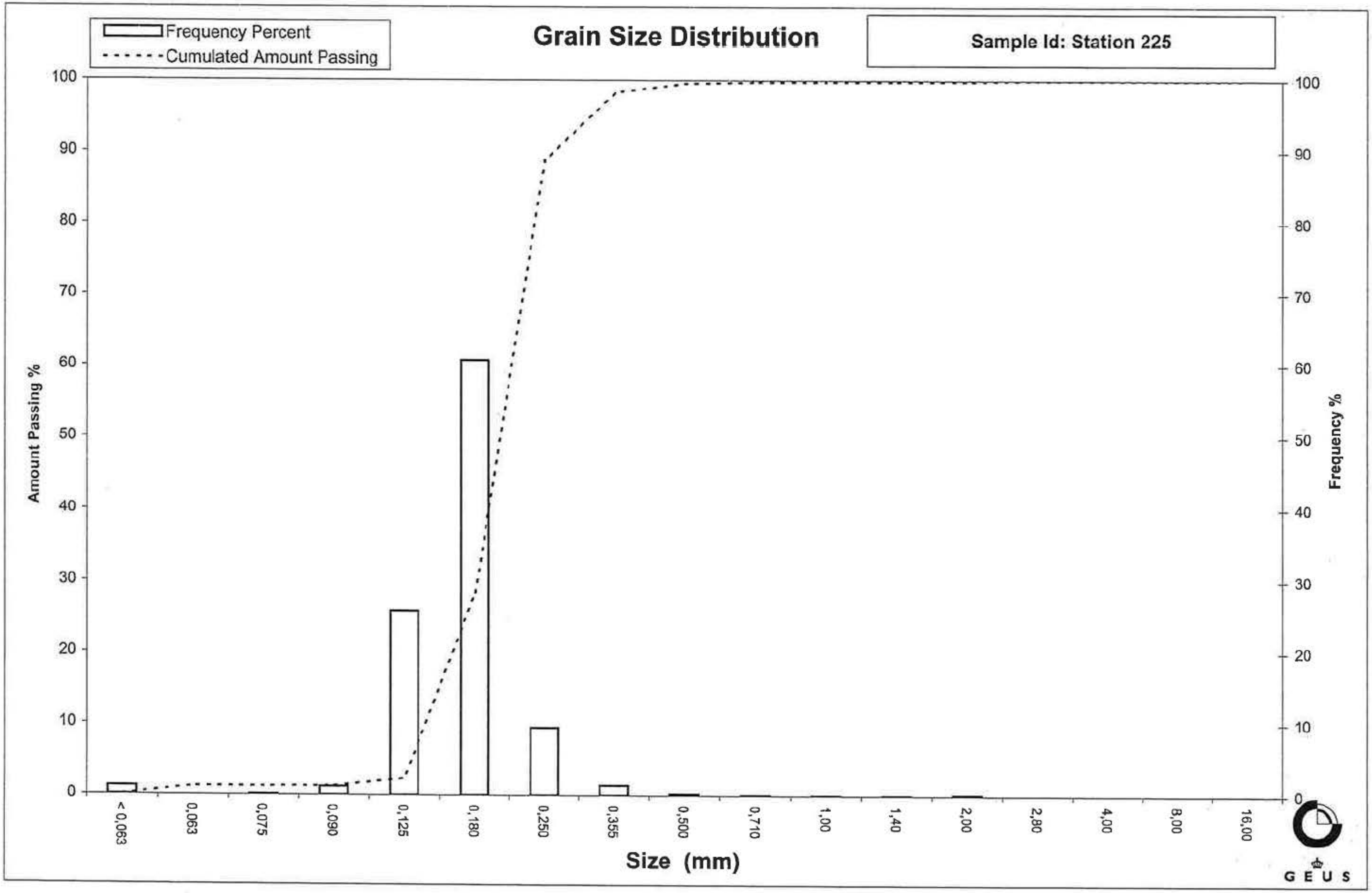

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 225
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 229
Lab. Id: 080081
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 111,74 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,32	0,29	99,71
Sand	1,40	-0,49	0,09	0,08	99,63
Sand	1,00	0,00	0,05	0,04	99,59
Sand	0,710	0,49	0,04	0,04	99,55
Sand	0,500	1,00	0,14	0,13	99,43
Sand	0,355	1,49	1,96	1,75	97,67
Sand	0,250	2,00	24,48	21,91	75,77
Sand	0,180	2,47	62,61	56,03	19,73
Sand	0,125	3,00	19,78	17,70	2,03
Sand	0,090	3,47	0,85	0,76	1,27
Sand	0,075	3,74	0,10	0,09	1,18
Sand	0,063	3,99	0,03	0,03	1,15
	< 0,063	> 3,99	1,29	1,15	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,15
Sand, fine	(0,063 mm - 0,200 mm):	34,59
Sand, medium	(0,2 mm - 0,6 mm):	63,74
Sand, coarse	(0,6 mm - 2 mm):	0,23
Gravel	(> 2 mm):	0,29
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,34	1,55
16%	84%	0,29	1,79
25%	75%	0,25	2,01
40%	60%	0,23	2,12
Median 50%	50%	0,22	2,20
75%	25%	0,19	2,42
84%	16%	0,17	2,57
90%	10%	0,15	2,74
95%	5%	0,13	2,90

Moments Statistics

Mean	2,19
Sorting	0,40
Skewness	-0,01
Kurtosis	1,33
Uniformity Coefficient	1,54

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)
Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)
Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)
Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)
Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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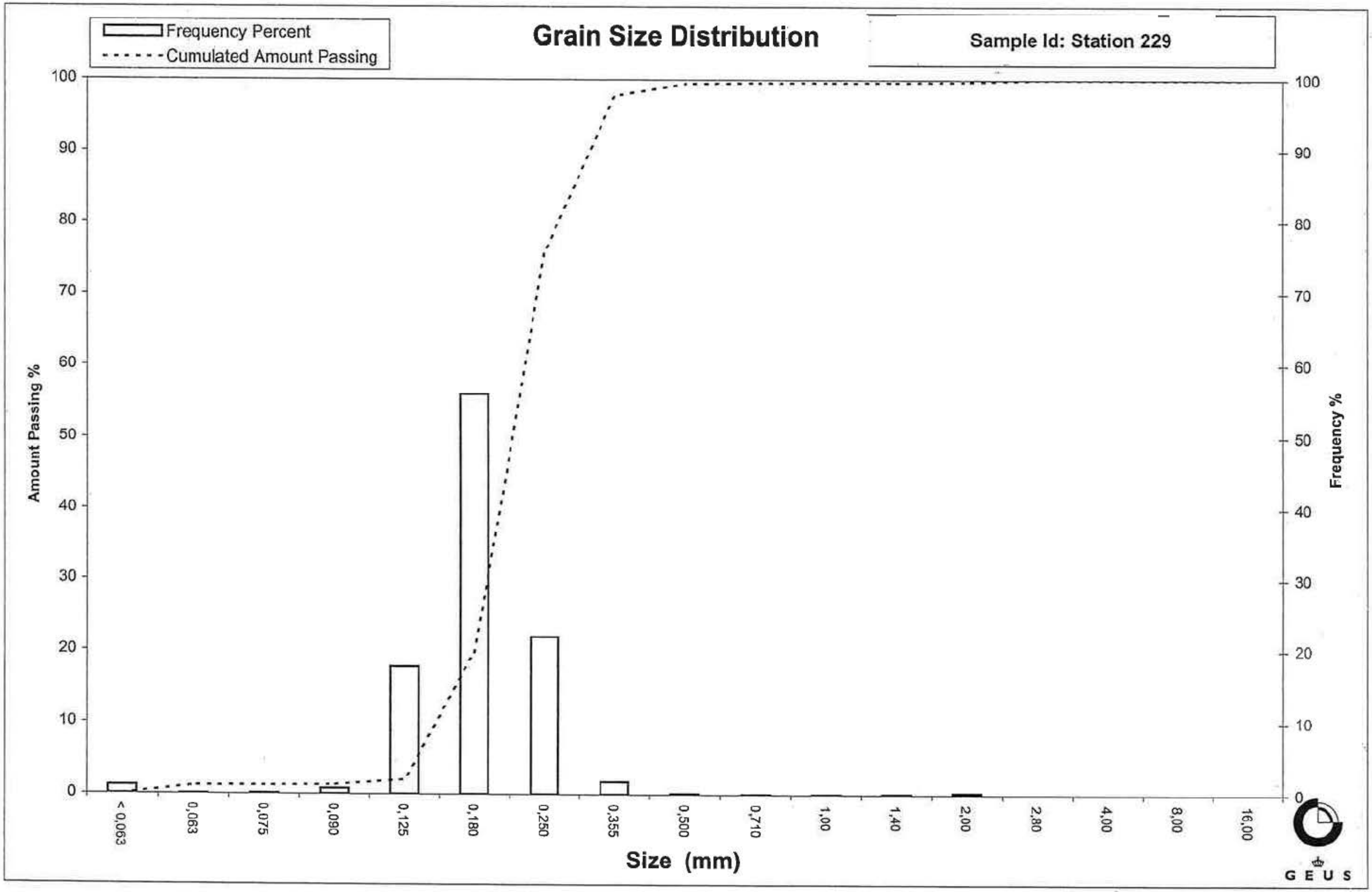
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 229
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 230
Lab. Id: 080082
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 100,49 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,03	0,03	99,97
Sand	1,00	0,00	0,04	0,04	99,93
Sand	0,710	0,49	0,03	0,03	99,90
Sand	0,500	1,00	0,10	0,10	99,80
Sand	0,355	1,49	1,88	1,87	97,93
Sand	0,250	2,00	21,79	21,68	76,25
Sand	0,180	2,47	60,43	60,14	16,11
Sand	0,125	3,00	13,85	13,78	2,33
Sand	0,090	3,47	0,47	0,47	1,86
Sand	0,075	3,74	0,05	0,05	1,81
Sand	0,063	3,99	0,03	0,03	1,78
	< 0,063	> 3,99	1,79	1,78	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,78
Sand, fine	(0,063 mm - 0,200 mm):	31,51
Sand, medium	(0,2 mm - 0,6 mm):	66,56
Sand, coarse	(0,6 mm - 2 mm):	0,15
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,34	1,55
16%	84%	0,29	1,80
25%	75%	0,25	2,01
40%	60%	0,23	2,11
Median 50%	50%	0,22	2,19
75%	25%	0,19	2,39
84%	16%	0,18	2,48
90%	10%	0,16	2,68
95%	5%	0,14	2,88

Moments Statistics

Mean	2,15
Sorting	0,37
Skewness	-0,05
Kurtosis	1,42
Uniformity Coefficient	1,49

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)
Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)
Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)
Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)
Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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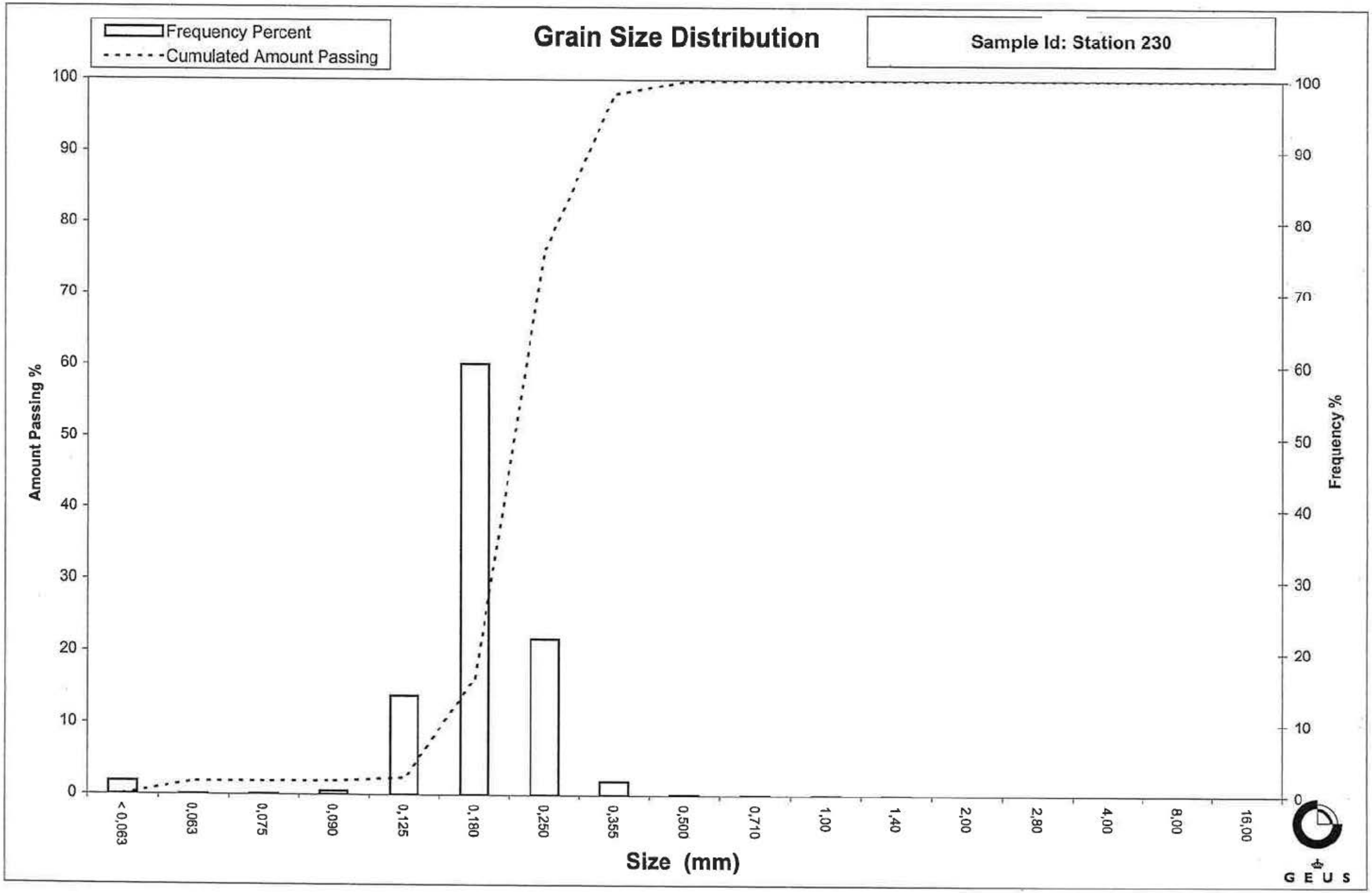
Grain Size Distribution
Sample Id: Station 230
Frequency Percent
Cumulated Amount Passing
Amount Passing %
Frequency %
Size (mm)
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 234
Lab. Id: 080083
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 102,49 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,58	0,57	99,43
Gravel	4,00	-2,00	0,07	0,07	99,37
Gravel	2,80	-1,49	0,02	0,02	99,35
Gravel	2,00	-1,00	0,06	0,06	99,29
Sand	1,40	-0,49	0,51	0,50	98,79
Sand	1,00	0,00	1,32	1,29	97,50
Sand	0,710	0,49	3,36	3,28	94,22
Sand	0,500	1,00	10,34	10,09	84,14
Sand	0,355	1,49	30,04	29,31	54,82
Sand	0,250	2,00	45,21	44,11	10,71
Sand	0,180	2,47	9,26	9,04	1,68
Sand	0,125	3,00	0,52	0,51	1,17
Sand	0,090	3,47	0,00	0,00	1,17
Sand	0,075	3,74	0,00	0,00	1,17
Sand	0,063	3,99	0,00	0,00	1,17
	< 0,063	> 3,99	1,20	1,17	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,17
Sand, fine	(0,063 mm - 0,200 mm):	3,09
Sand, medium	(0,2 mm - 0,6 mm):	84,68
Sand, coarse	(0,6 mm - 2 mm):	10,35
Gravel	(> 2 mm):	0,71
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,78	0,36
16%	84%	0,50	1,00
25%	75%	0,45	1,14
40%	60%	0,38	1,39
Median 50%	50%	0,34	1,54
75%	25%	0,28	1,82
84%	16%	0,26	1,93
90%	10%	0,24	2,03
95%	5%	0,21	2,28

Moments Statistics

Mean	1,49
Sorting	0,52
Skewness	-0,20
Kurtosis	1,16
Uniformity Coefficient	1,56

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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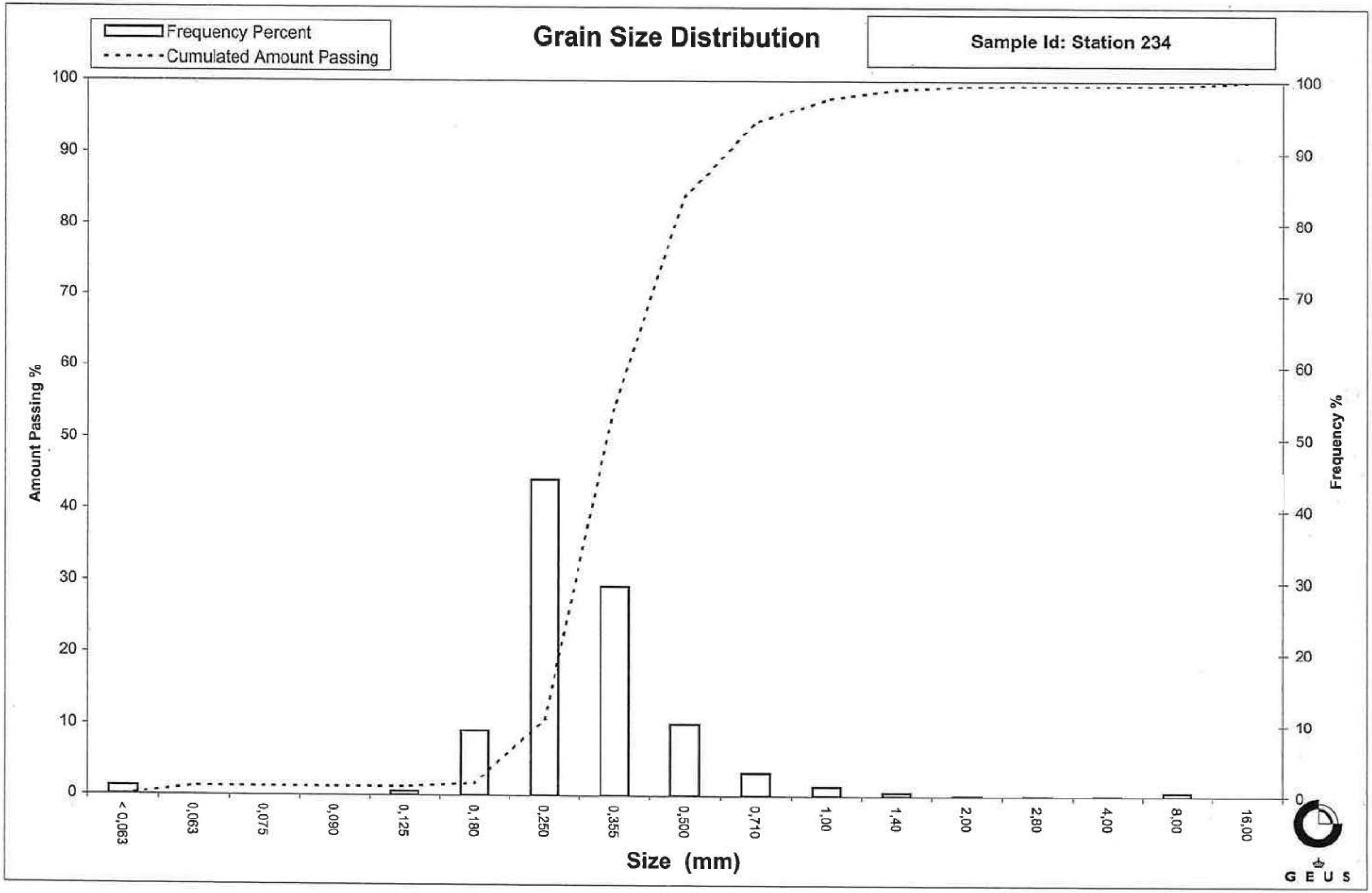
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 234
Amount Passing %
Frequency %
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 235
Lab. Id: 080084
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 105,34 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,57	0,54	99,46
Sand	1,00	0,00	1,08	1,03	98,43
Sand	0,710	0,49	3,47	3,29	95,14
Sand	0,500	1,00	11,14	10,58	84,56
Sand	0,355	1,49	32,95	31,28	53,28
Sand	0,250	2,00	46,76	44,39	8,90
Sand	0,180	2,47	7,95	7,55	1,35
Sand	0,125	3,00	0,40	0,38	0,97
Sand	0,090	3,47	0,02	0,02	0,95
Sand	0,075	3,74	0,00	0,00	0,95
Sand	0,063	3,99	0,00	0,00	0,95
	< 0,063	> 3,99	1,00	0,95	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,95
Sand, fine	(0,063 mm - 0,200 mm):	2,55
Sand, medium	(0,2 mm - 0,6 mm):	86,10
Sand, coarse	(0,6 mm - 2 mm):	10,40
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,71	0,50
16%	84%	0,50	1,01
25%	75%	0,46	1,13
40%	60%	0,39	1,37
Median 50%	50%	0,35	1,53
75%	25%	0,29	1,80
84%	16%	0,27	1,91
90%	10%	0,25	1,98
95%	5%	0,21	2,23

Moments Statistics

Mean	1,48
Sorting	0,49
Skewness	-0,17
Kurtosis	1,07
Uniformity Coefficient	1,53

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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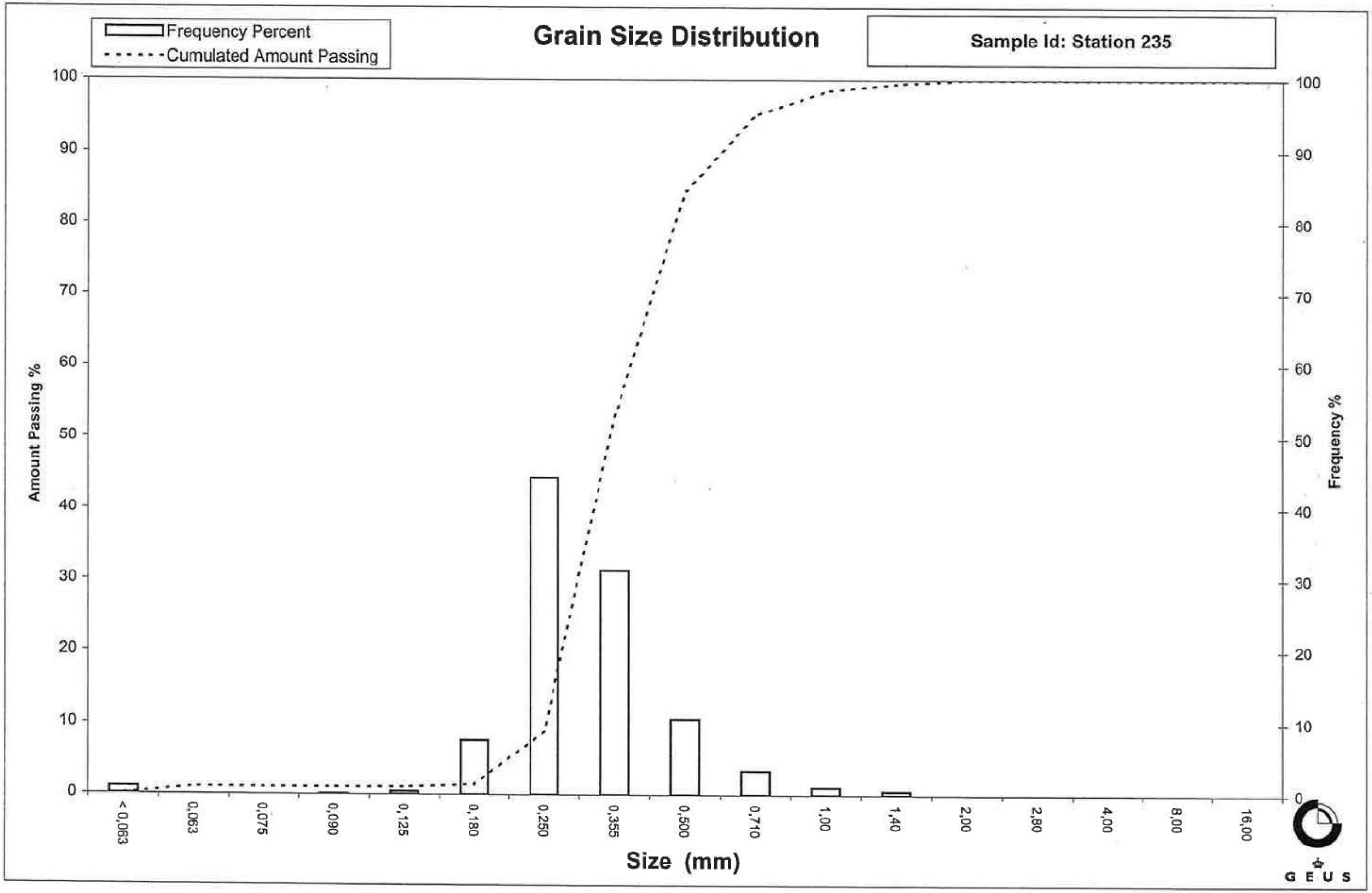

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 235
Amount Passing %
Frequency %
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 241
Lab. Id: 080085
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 101,79 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,49	0,48	99,52
Sand	1,00	0,00	1,51	1,48	98,04
Sand	0,710	0,49	4,28	4,20	93,83
Sand	0,500	1,00	11,48	11,28	82,55
Sand	0,355	1,49	37,15	36,50	46,06
Sand	0,250	2,00	38,85	38,17	7,89
Sand	0,180	2,47	4,57	4,49	3,40
Sand	0,125	3,00	2,35	2,31	1,09
Sand	0,090	3,47	0,08	0,08	1,01
Sand	0,075	3,74	0,00	0,00	1,01
Sand	0,063	3,99	0,00	0,00	1,01
	< 0,063	> 3,99	1,03	1,01	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,01
Sand, fine	(0,063 mm - 0,200 mm):	3,67
Sand, medium	(0,2 mm - 0,6 mm):	83,24
Sand, coarse	(0,6 mm - 2 mm):	12,08
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,79	0,34
16%	84%	0,53	0,92
25%	75%	0,47	1,09
40%	60%	0,41	1,28
Median 50%	50%	0,37	1,43
75%	25%	0,30	1,75
84%	16%	0,27	1,88
90%	10%	0,26	1,97
95%	5%	0,20	2,29

Moments Statistics

Mean	1,41
Sorting	0,53
Skewness	-0,09
Kurtosis	1,21
Uniformity Coefficient	1,60

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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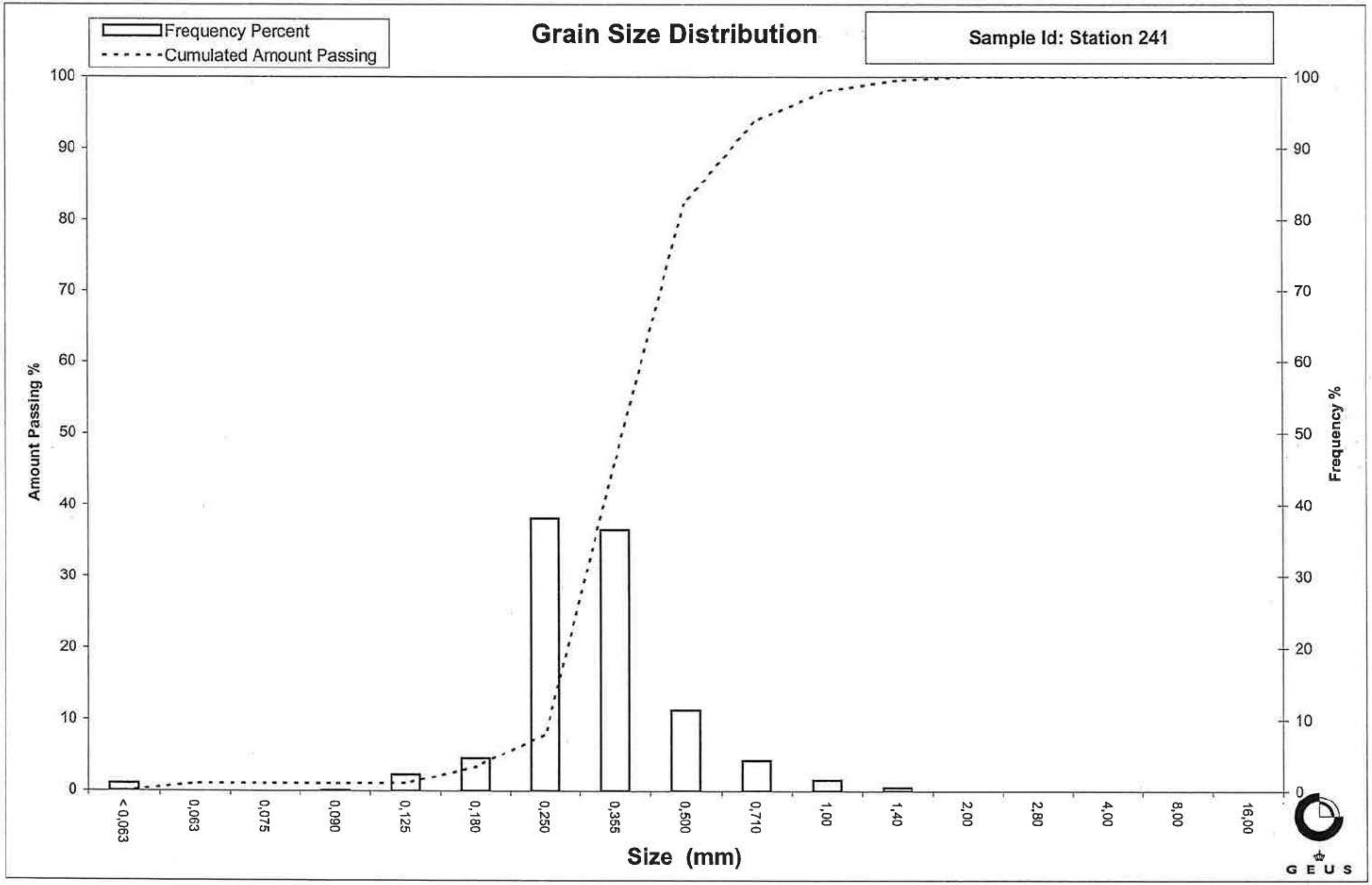
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 241
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 242
Lab. Id: 080086
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 100,08 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,21	0,21	99,79
Sand	1,40	-0,49	0,37	0,37	99,42
Sand	1,00	0,00	0,95	0,95	98,47
Sand	0,710	0,49	3,11	3,11	95,36
Sand	0,500	1,00	9,34	9,33	86,03
Sand	0,355	1,49	36,89	36,86	49,17
Sand	0,250	2,00	40,76	40,73	8,44
Sand	0,180	2,47	6,08	6,08	2,37
Sand	0,125	3,00	1,42	1,42	0,95
Sand	0,090	3,47	0,06	0,06	0,89
Sand	0,075	3,74	0,00	0,00	0,89
Sand	0,063	3,99	0,00	0,00	0,89
	< 0,063	> 3,99	0,89	0,89	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,89
Sand, fine	(0,063 mm - 0,200 mm):	3,21
Sand, medium	(0,2 mm - 0,6 mm):	86,37
Sand, coarse	(0,6 mm - 2 mm):	9,31
Gravel	(> 2 mm):	0,21
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,70	0,51
16%	84%	0,49	1,02
25%	75%	0,46	1,13
40%	60%	0,40	1,33
Median 50%	50%	0,36	1,48
75%	25%	0,29	1,77
84%	16%	0,27	1,89
90%	10%	0,25	1,98
95%	5%	0,21	2,25

Moments Statistics

Mean	1,47
Sorting	0,48
Skewness	-0,08
Kurtosis	1,11
Uniformity Coefficient	1,57

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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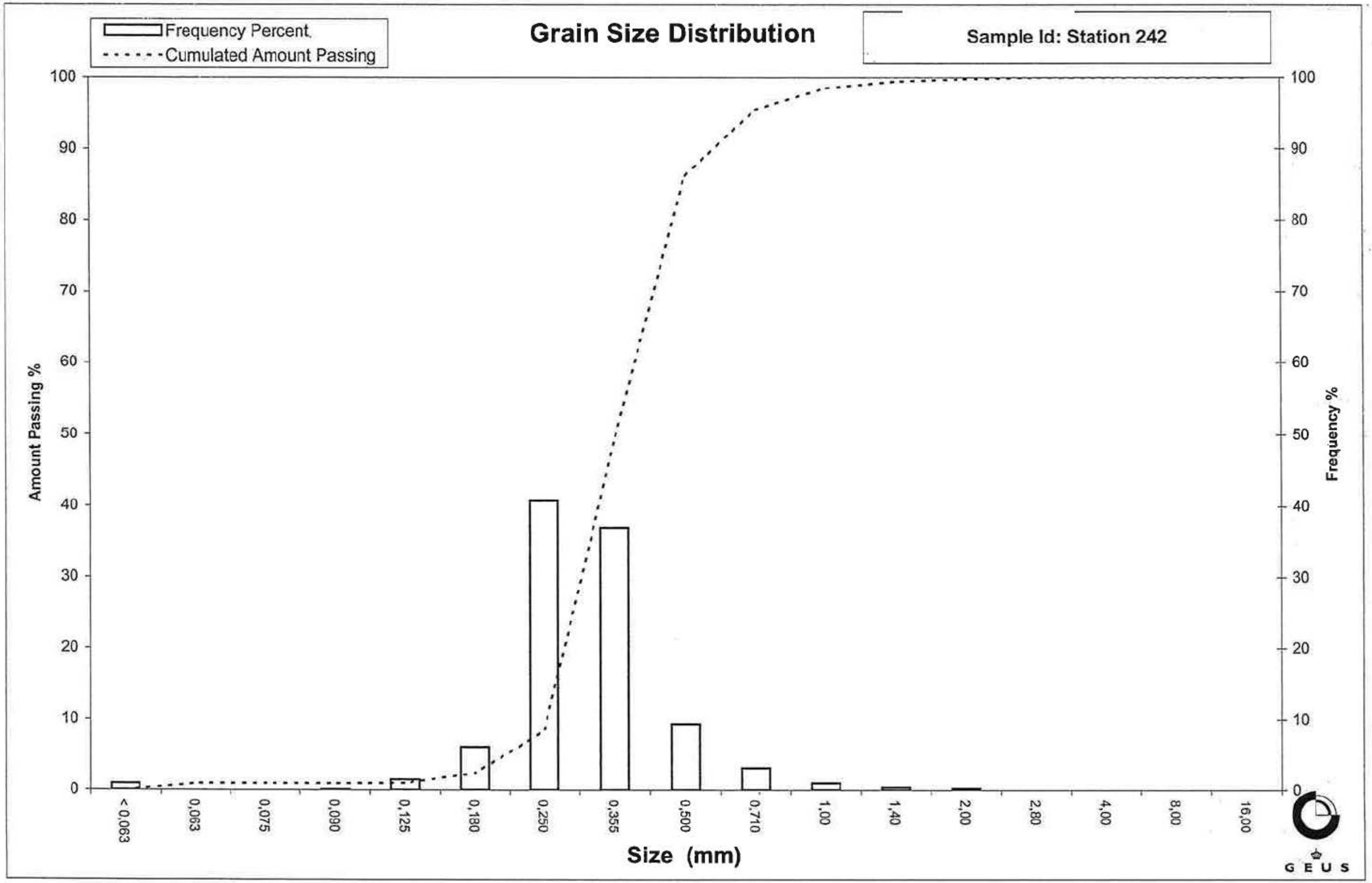

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 242
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 250
Lab. Id: 080087
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 105,39 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,27	0,26	99,74
Gravel	2,00	-1,00	0,36	0,34	99,40
Sand	1,40	-0,49	0,01	0,01	99,39
Sand	1,00	0,00	0,10	0,09	99,30
Sand	0,710	0,49	0,08	0,08	99,22
Sand	0,500	1,00	0,53	0,50	98,72
Sand	0,355	1,49	4,05	3,84	94,88
Sand	0,250	2,00	19,51	18,51	76,36
Sand	0,180	2,47	37,05	35,16	41,21
Sand	0,125	3,00	38,08	36,13	5,08
Sand	0,090	3,47	3,55	3,37	1,71
Sand	0,075	3,74	0,27	0,26	1,45
Sand	0,063	3,99	0,01	0,01	1,44
	< 0,063	> 3,99	1,52	1,44	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,44
Sand, fine	(0,063 mm - 0,200 mm):	49,81
Sand, medium	(0,2 mm - 0,6 mm):	47,71
Sand, coarse	(0,6 mm - 2 mm):	0,44
Gravel	(> 2 mm):	0,60
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,36	1,48
16%	84%	0,29	1,77
25%	75%	0,25	2,02
40%	60%	0,22	2,20
Median 50%	50%	0,20	2,34
75%	25%	0,16	2,69
84%	16%	0,14	2,82
90%	10%	0,13	2,92
95%	5%	0,12	3,01

Moments Statistics

Mean	2,31
Sorting	0,49
Skewness	-0,11
Kurtosis	0,94
Uniformity Coefficient	1,64

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean $(\phi16\%+\phi84\%+\phi50\%) / 3$ (Folk and Ward 1957)

Sorting $(\phi84\%-\phi16\%) / 4 + (\phi95\%-\phi5\%) / 6,6$ (Folk and Ward 1957)

Kurtosis $(\phi95\% - \phi5\%) / (2,44 * (\phi75\% - \phi25\%))$ (Folk and Ward 1957)

Skewness $(\phi16\%+\phi84\% - 2*\phi50\%) / (2*(\phi84\%-\phi16\%)) + (\phi5\%+\phi95\% - 2*\phi50\%) / (2*(\phi95\%-\phi5\%))$ (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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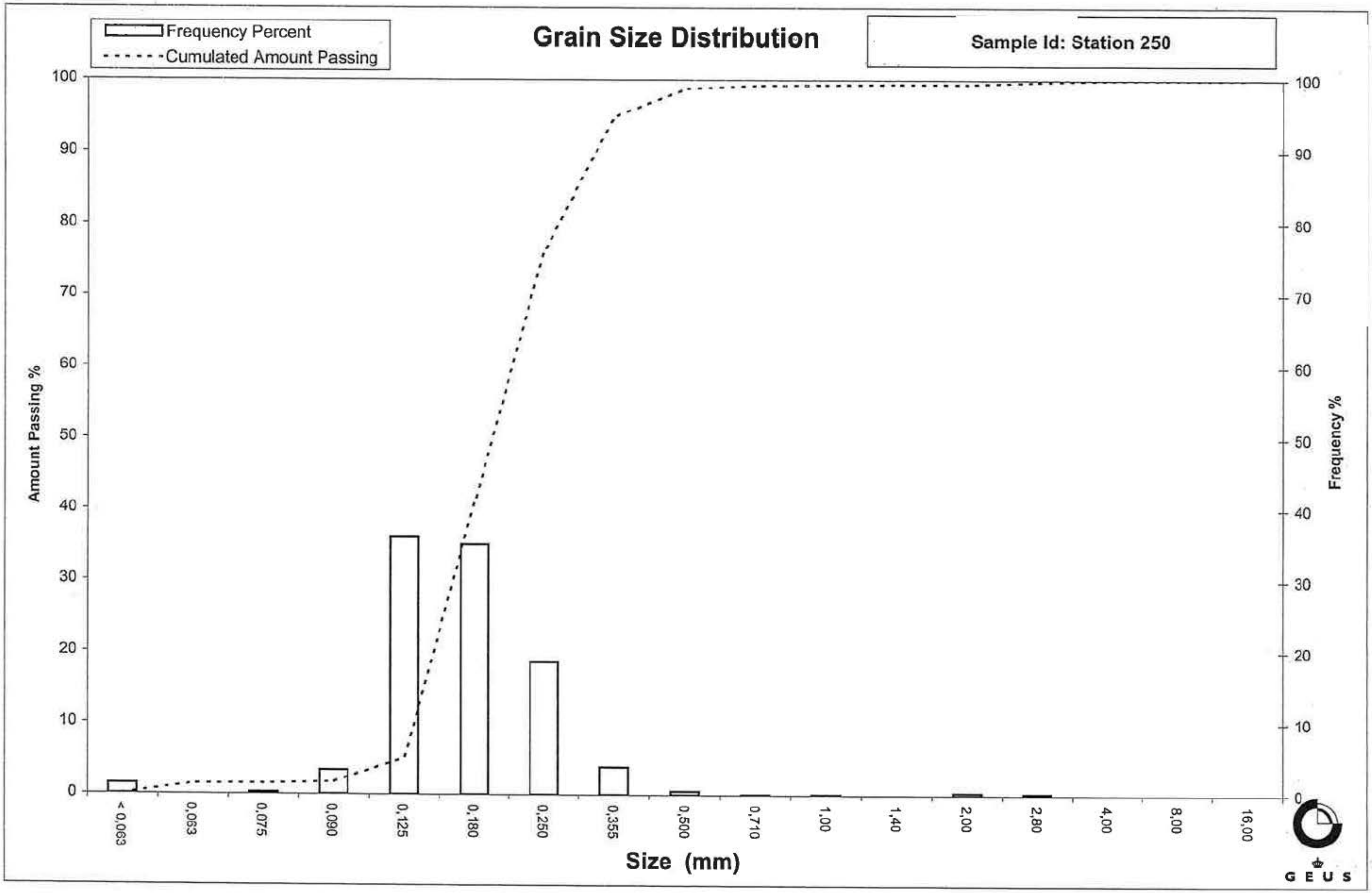

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 250
Amount Passing %
Frequency %
Size (mm)
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 251
Lab. Id: 080088
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 101,18 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,25	0,25	99,75
Gravel	4,00	-2,00	0,69	0,68	99,07
Gravel	2,80	-1,49	0,18	0,18	98,89
Gravel	2,00	-1,00	0,03	0,03	98,86
Sand	1,40	-0,49	0,15	0,15	98,72
Sand	1,00	0,00	0,03	0,03	98,69
Sand	0,710	0,49	0,08	0,08	98,61
Sand	0,500	1,00	0,39	0,39	98,22
Sand	0,355	1,49	3,37	3,33	94,89
Sand	0,250	2,00	19,53	19,30	75,59
Sand	0,180	2,47	33,28	32,89	42,70
Sand	0,125	3,00	37,76	37,32	5,38
Sand	0,090	3,47	3,89	3,84	1,53
Sand	0,075	3,74	0,30	0,30	1,24
Sand	0,063	3,99	0,00	0,00	1,24
	< 0,063	> 3,99	1,25	1,24	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,24
Sand, fine	(0,063 mm - 0,200 mm):	50,86
Sand, medium	(0,2 mm - 0,6 mm):	46,31
Sand, coarse	(0,6 mm - 2 mm):	0,46
Gravel	(> 2 mm):	1,14
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,36	1,47
16%	84%	0,30	1,76
25%	75%	0,25	2,01
40%	60%	0,22	2,21
Median 50%	50%	0,20	2,35
75%	25%	0,15	2,70
84%	16%	0,14	2,83
90%	10%	0,13	2,92
95%	5%	0,12	3,04

Moments Statistics

Mean	2,31
Sorting	0,51
Skewness	-0,12
Kurtosis	0,93
Uniformity Coefficient	1,64

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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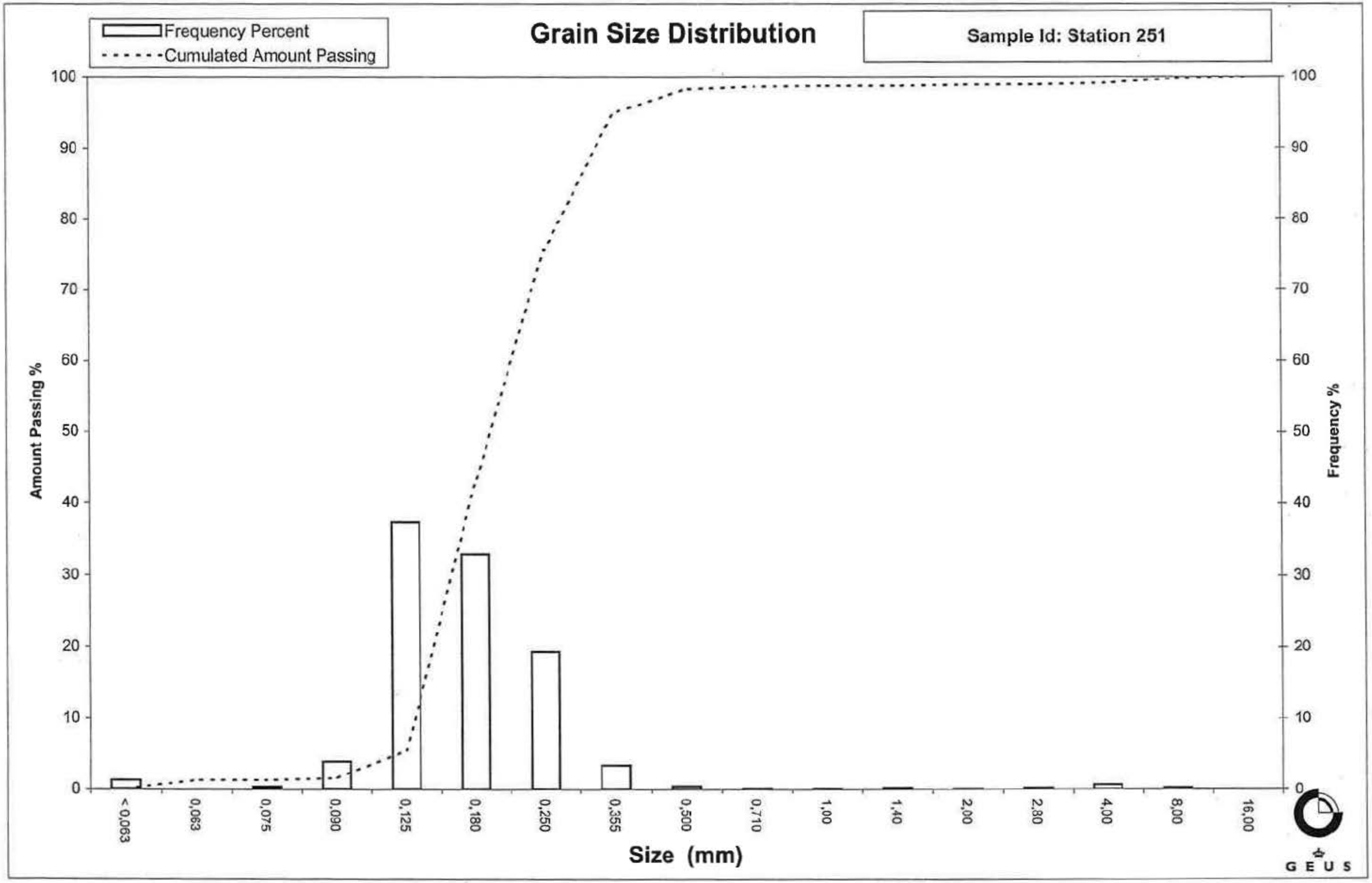

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 251
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 252
Lab. Id: 080089
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 101,25 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	1,47	1,45	98,55
Gravel	8,00	-3,00	0,00	0,00	98,55
Gravel	4,00	-2,00	0,00	0,00	98,55
Gravel	2,80	-1,49	0,22	0,22	98,33
Gravel	2,00	-1,00	0,46	0,45	97,88
Sand	1,40	-0,49	0,54	0,53	97,34
Sand	1,00	0,00	1,43	1,41	95,93
Sand	0,710	0,49	4,15	4,10	91,83
Sand	0,500	1,00	26,12	25,80	66,03
Sand	0,355	1,49	36,48	36,03	30,00
Sand	0,250	2,00	21,74	21,47	8,53
Sand	0,180	2,47	3,67	3,62	4,91
Sand	0,125	3,00	3,66	3,61	1,29
Sand	0,090	3,47	0,34	0,34	0,96
Sand	0,075	3,74	0,03	0,03	0,93
Sand	0,063	3,99	0,00	0,00	0,93
	< 0,063	> 3,99	0,94	0,93	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,93
Sand, fine	(0,063 mm - 0,200 mm):	5,02
Sand, medium	(0,2 mm - 0,6 mm):	72,37
Sand, coarse	(0,6 mm - 2 mm):	19,56
Gravel	(> 2 mm):	2,12
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,93	0,10
16%	84%	0,65	0,63
25%	75%	0,57	0,80
40%	60%	0,48	1,07
Median 50%	50%	0,44	1,20
75%	25%	0,33	1,60
84%	16%	0,29	1,80
90%	10%	0,26	1,96
95%	5%	0,18	2,46

Moments Statistics

Mean	1,21
Sorting	0,65
Skewness	0,05
Kurtosis	1,22
Uniformity Coefficient	1,85

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)
Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)
Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)
Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)
Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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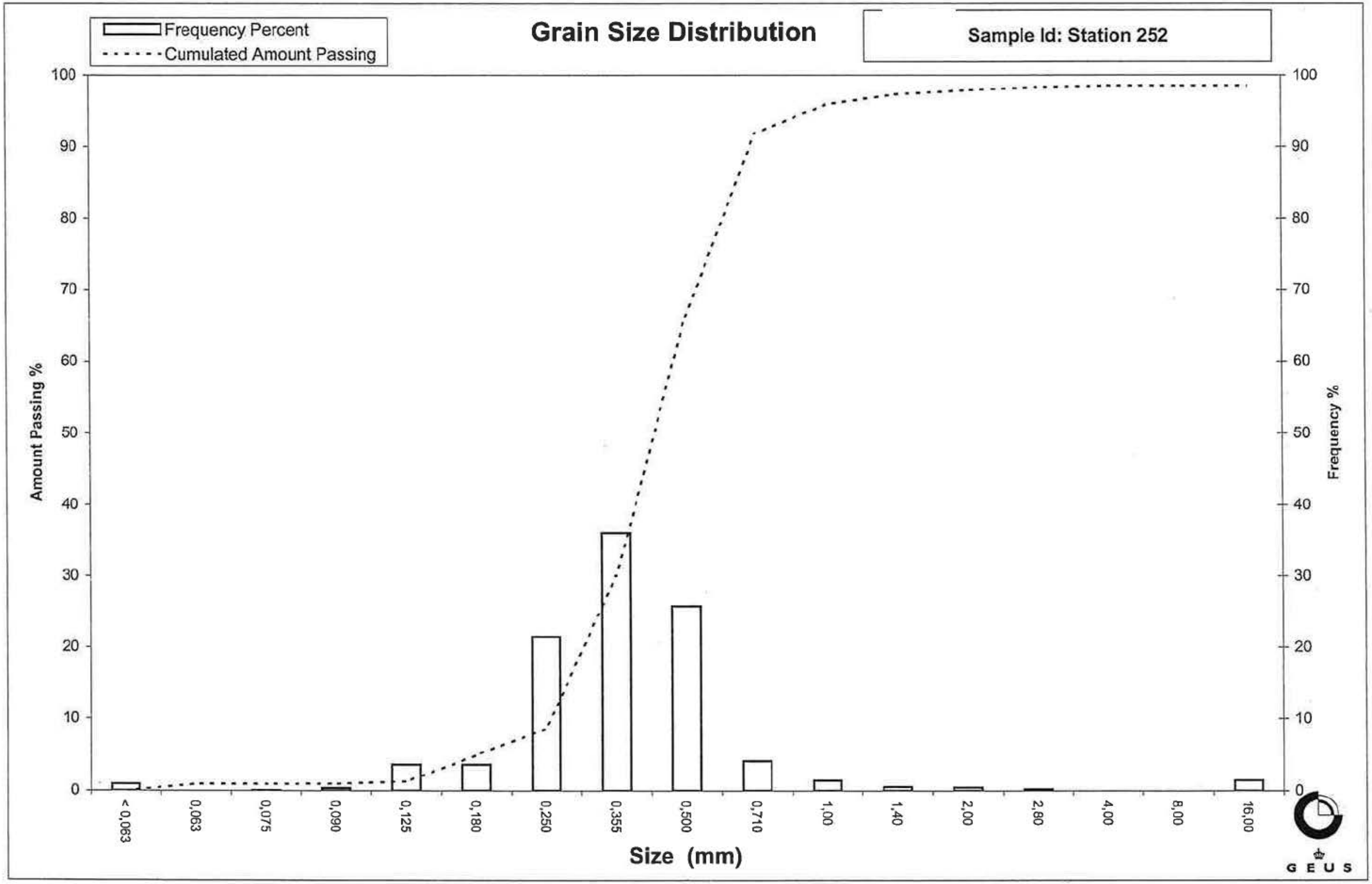
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 252
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 253
Lab. Id: 080090
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 108,7 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	2,76	2,54	97,46
Gravel	8,00	-3,00	0,00	0,00	97,46
Gravel	4,00	-2,00	0,36	0,33	97,13
Gravel	2,80	-1,49	0,15	0,14	96,99
Gravel	2,00	-1,00	0,24	0,22	96,77
Sand	1,40	-0,49	0,75	0,69	96,08
Sand	1,00	0,00	1,51	1,39	94,69
Sand	0,710	0,49	4,32	3,97	90,72
Sand	0,500	1,00	25,66	23,61	67,11
Sand	0,355	1,49	39,70	36,52	30,59
Sand	0,250	2,00	22,80	20,98	9,61
Sand	0,180	2,47	5,58	5,13	4,48
Sand	0,125	3,00	3,09	2,84	1,64
Sand	0,090	3,47	0,49	0,45	1,19
Sand	0,075	3,74	0,04	0,04	1,15
Sand	0,063	3,99	0,02	0,02	1,13
	< 0,063	> 3,99	1,23	1,13	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,13
Sand, fine	(0,063 mm - 0,200 mm):	4,82
Sand, medium	(0,2 mm - 0,6 mm):	72,41
Sand, coarse	(0,6 mm - 2 mm):	18,42
Gravel	(> 2 mm):	3,23
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	1,09	-0,12
16%	84%	0,65	0,62
25%	75%	0,57	0,81
40%	60%	0,47	1,08
Median 50%	50%	0,43	1,21
75%	25%	0,33	1,61
84%	16%	0,28	1,83
90%	10%	0,25	1,99
95%	5%	0,19	2,42

Moments Statistics

Mean	1,22
Sorting	0,69
Skewness	-0,01
Kurtosis	1,30
Uniformity Coefficient	1,87

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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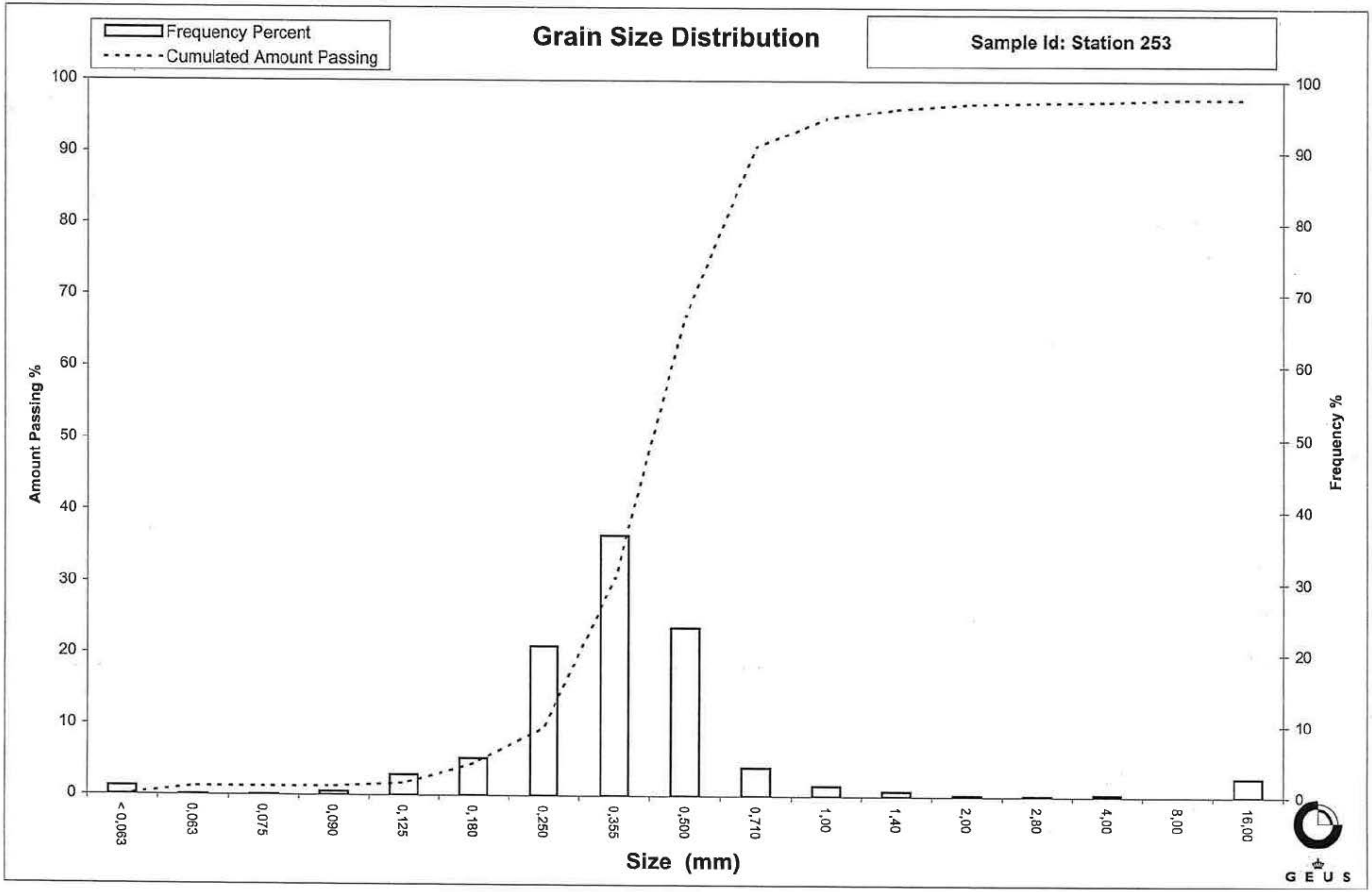

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 253
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 259
Lab. Id: 080091
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 105,69 g

Size Fractions

Sieve Analysis

	Size mm	Size Φ	Weight g	Weight %	Cumulated amount passing %
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,13	0,12	99,88
Sand	1,00	0,00	0,52	0,49	99,38
Sand	0,710	0,49	3,18	3,01	96,38
Sand	0,500	1,00	12,98	12,28	84,09
Sand	0,355	1,49	26,21	24,80	59,30
Sand	0,250	2,00	33,13	31,35	27,95
Sand	0,180	2,47	23,16	21,91	6,04
Sand	0,125	3,00	5,04	4,77	1,27
Sand	0,090	3,47	0,25	0,24	1,03
Sand	0,075	3,74	0,02	0,02	1,01
Sand	0,063	3,99	0,00	0,00	1,01
	< 0,063	> 3,99	1,07	1,01	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,01
Sand, fine	(0,063 mm - 0,200 mm):	11,29
Sand, medium	(0,2 mm - 0,6 mm):	77,65
Sand, coarse	(0,6 mm - 2 mm):	10,06
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,69	0,54
16%	84%	0,50	1,00
25%	75%	0,45	1,16
40%	60%	0,36	1,48
Median 50%	50%	0,32	1,63
75%	25%	0,24	2,06
84%	16%	0,21	2,24
90%	10%	0,19	2,38
95%	5%	0,17	2,57

Moments Statistics

Mean	1,62
Sorting	0,62
Skewness	-0,04
Kurtosis	0,93
Uniformity Coefficient	1,86

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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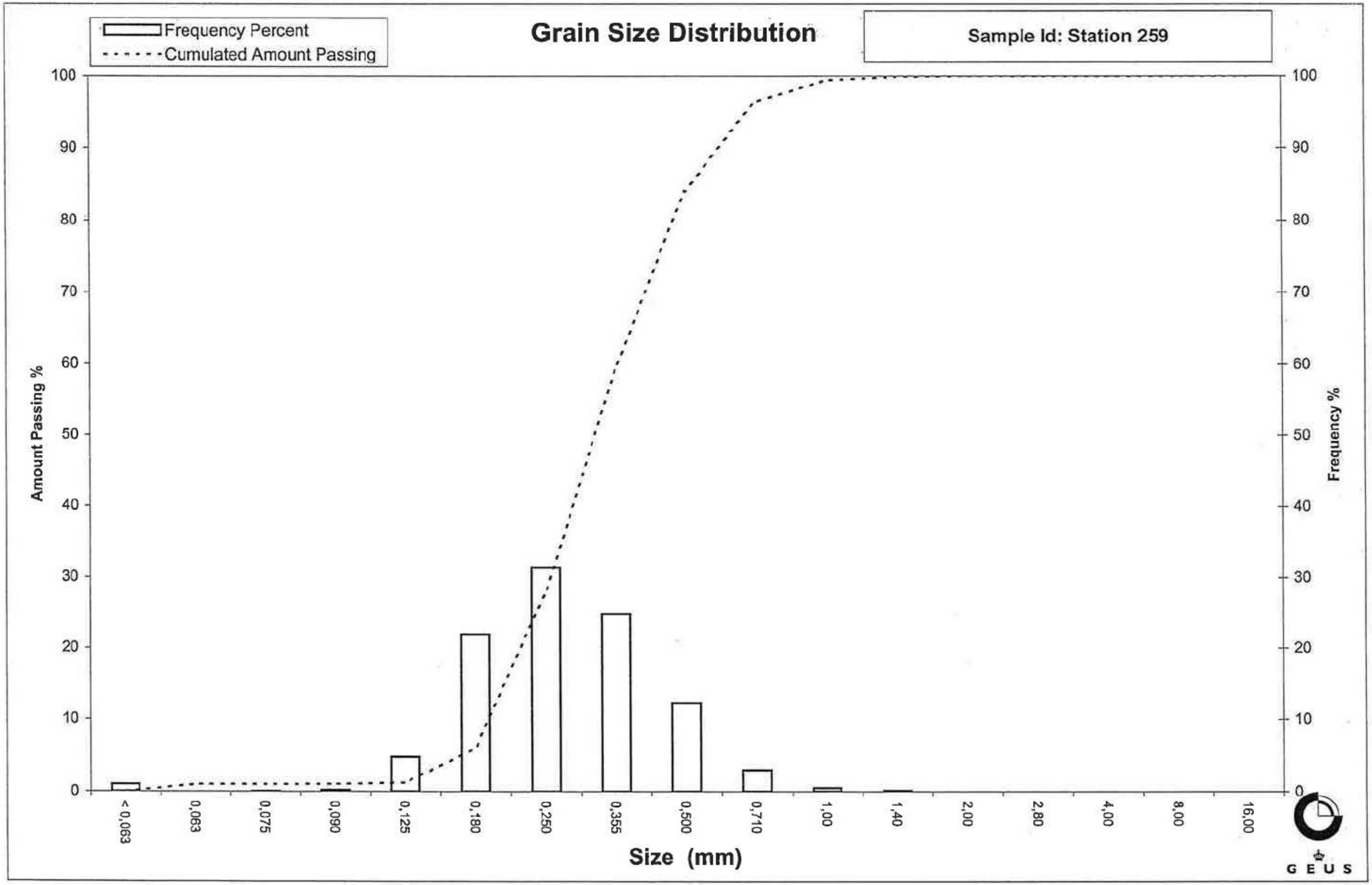
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 259
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 260
Lab. Id: 080092
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 101,17 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,00	0,00	100,00
Gravel	2,00	-1,00	0,00	0,00	100,00
Sand	1,40	-0,49	0,08	0,08	99,92
Sand	1,00	0,00	0,08	0,08	99,84
Sand	0,710	0,49	0,26	0,26	99,58
Sand	0,500	1,00	2,05	2,03	97,56
Sand	0,355	1,49	11,60	11,47	86,09
Sand	0,250	2,00	36,70	36,28	49,82
Sand	0,180	2,47	36,46	36,04	13,78
Sand	0,125	3,00	12,39	12,25	1,53
Sand	0,090	3,47	0,53	0,52	1,01
Sand	0,075	3,74	0,03	0,03	0,98
Sand	0,063	3,99	0,00	0,00	0,98
	< 0,063	> 3,99	0,99	0,98	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,98
Sand, fine	(0,063 mm - 0,200 mm):	23,10
Sand, medium	(0,2 mm - 0,6 mm):	74,45
Sand, coarse	(0,6 mm - 2 mm):	1,48
Gravel	(> 2 mm):	0,00
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,47	1,10
16%	84%	0,35	1,52
25%	75%	0,32	1,63
40%	60%	0,28	1,84
Median 50%	50%	0,25	2,00
75%	25%	0,20	2,31
84%	16%	0,18	2,44
90%	10%	0,16	2,62
95%	5%	0,14	2,83

Moments Statistics

Mean	1,99
Sorting	0,49
Skewness	-0,04
Kurtosis	1,05
Uniformity Coefficient	1,71

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)
Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)
Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)
Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)
Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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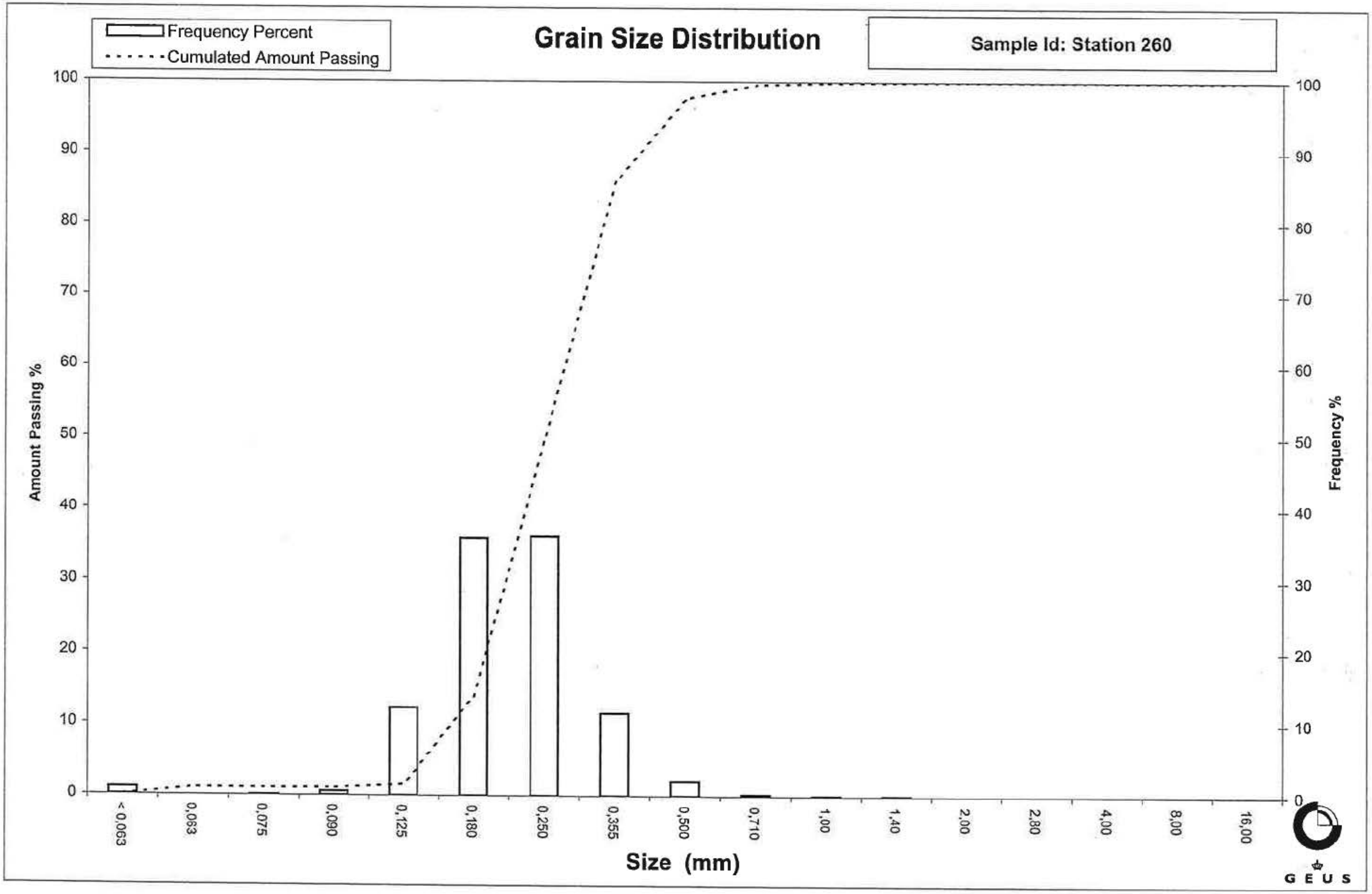
Grain Size Distribution
Sample Id: Station 260
Frequency Percent
Cumulated Amount Passing
Amount Passing %
Frequency %
0
10
20
30
40
50
60
70
80
90
100
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 265
Lab. Id: 080093
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 100,79 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	1,28	1,27	98,73
Gravel	4,00	-2,00	0,00	0,00	98,73
Gravel	2,80	-1,49	0,13	0,13	98,60
Gravel	2,00	-1,00	0,06	0,06	98,54
Sand	1,40	-0,49	0,24	0,24	98,30
Sand	1,00	0,00	0,70	0,69	97,61
Sand	0,710	0,49	2,80	2,78	94,83
Sand	0,500	1,00	6,53	6,48	88,35
Sand	0,355	1,49	11,76	11,67	76,68
Sand	0,250	2,00	22,34	22,16	54,52
Sand	0,180	2,47	38,30	38,00	16,52
Sand	0,125	3,00	14,68	14,56	1,95
Sand	0,090	3,47	0,93	0,92	1,03
Sand	0,075	3,74	0,07	0,07	0,96
Sand	0,063	3,99	0,00	0,00	0,96
	< 0,063	> 3,99	0,97	0,96	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,96
Sand, fine	(0,063 mm - 0,200 mm):	26,41
Sand, medium	(0,2 mm - 0,6 mm):	64,06
Sand, coarse	(0,6 mm - 2 mm):	7,10
Gravel	(> 2 mm):	1,46
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,73	0,46
16%	84%	0,45	1,17
25%	75%	0,35	1,53
40%	60%	0,28	1,86
Median 50%	50%	0,24	2,05
75%	25%	0,20	2,35
84%	16%	0,18	2,49
90%	10%	0,16	2,69
95%	5%	0,14	2,87

Moments Statistics

Mean	1,90
Sorting	0,70
Skewness	-0,33
Kurtosis	1,20
Uniformity Coefficient	1,78

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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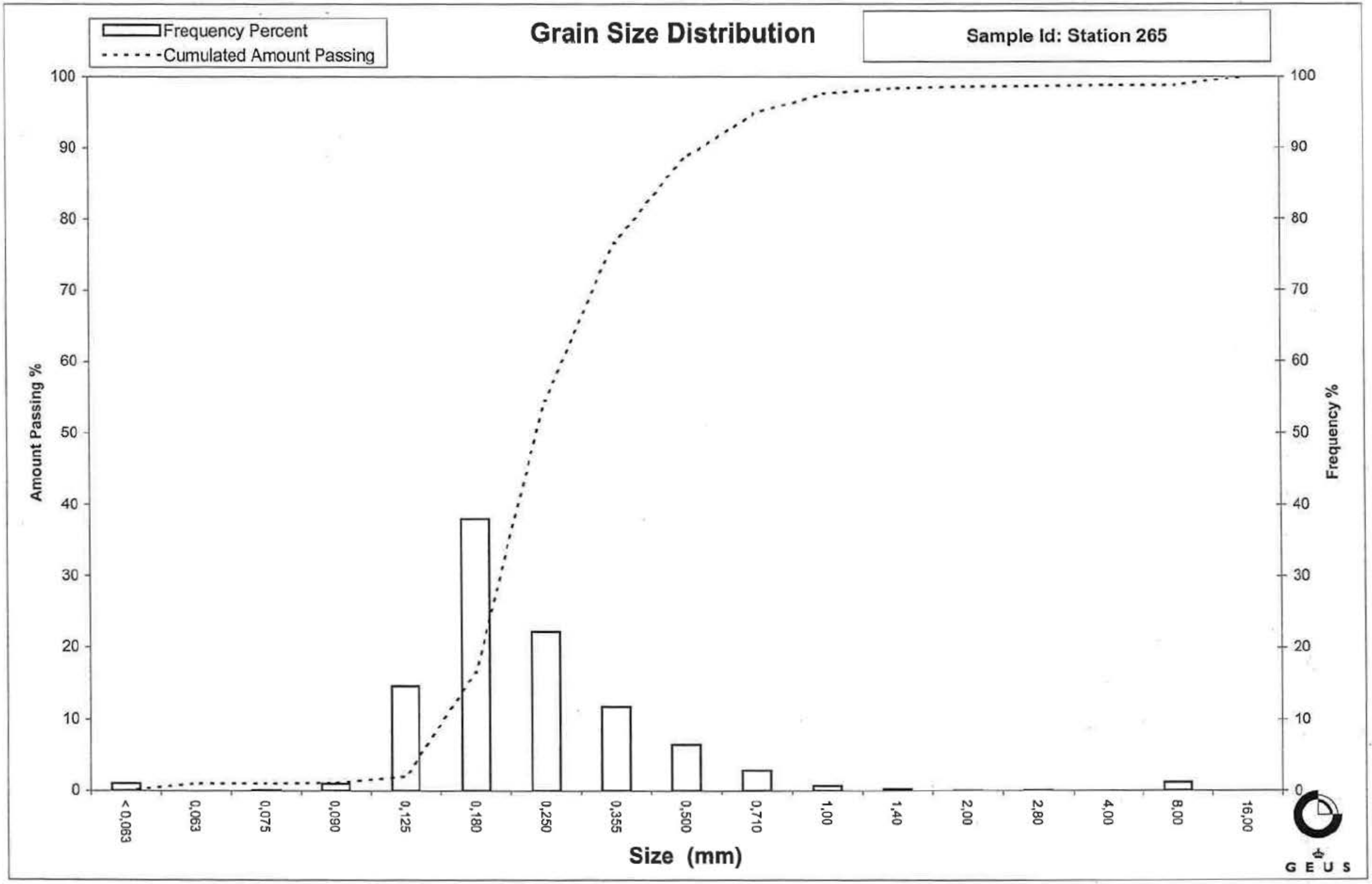

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 265
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 266
Lab. Id: 080094
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 104,3 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,00	0,00	100,00
Gravel	4,00	-2,00	0,00	0,00	100,00
Gravel	2,80	-1,49	0,20	0,19	99,81
Gravel	2,00	-1,00	0,00	0,00	99,81
Sand	1,40	-0,49	0,27	0,26	99,55
Sand	1,00	0,00	0,68	0,65	98,90
Sand	0,710	0,49	3,29	3,15	95,74
Sand	0,500	1,00	8,66	8,30	87,44
Sand	0,355	1,49	14,71	14,10	73,34
Sand	0,250	2,00	24,18	23,18	50,15
Sand	0,180	2,47	36,63	35,12	15,03
Sand	0,125	3,00	13,65	13,09	1,95
Sand	0,090	3,47	1,01	0,97	0,98
Sand	0,075	3,74	0,07	0,07	0,91
Sand	0,063	3,99	0,00	0,00	0,91
	< 0,063	> 3,99	0,95	0,91	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,91
Sand, fine	(0,063 mm - 0,200 mm):	24,16
Sand, medium	(0,2 mm - 0,6 mm):	66,33
Sand, coarse	(0,6 mm - 2 mm):	8,41
Gravel	(> 2 mm):	0,19
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	0,69	0,53
16%	84%	0,46	1,11
25%	75%	0,37	1,43
40%	60%	0,29	1,76
Median 50%	50%	0,25	2,00
75%	25%	0,20	2,32
84%	16%	0,18	2,46
90%	10%	0,16	2,65
95%	5%	0,14	2,86

Moments Statistics

Mean	1,86
Sorting	0,69
Skewness	-0,29
Kurtosis	1,06
Uniformity Coefficient	1,85

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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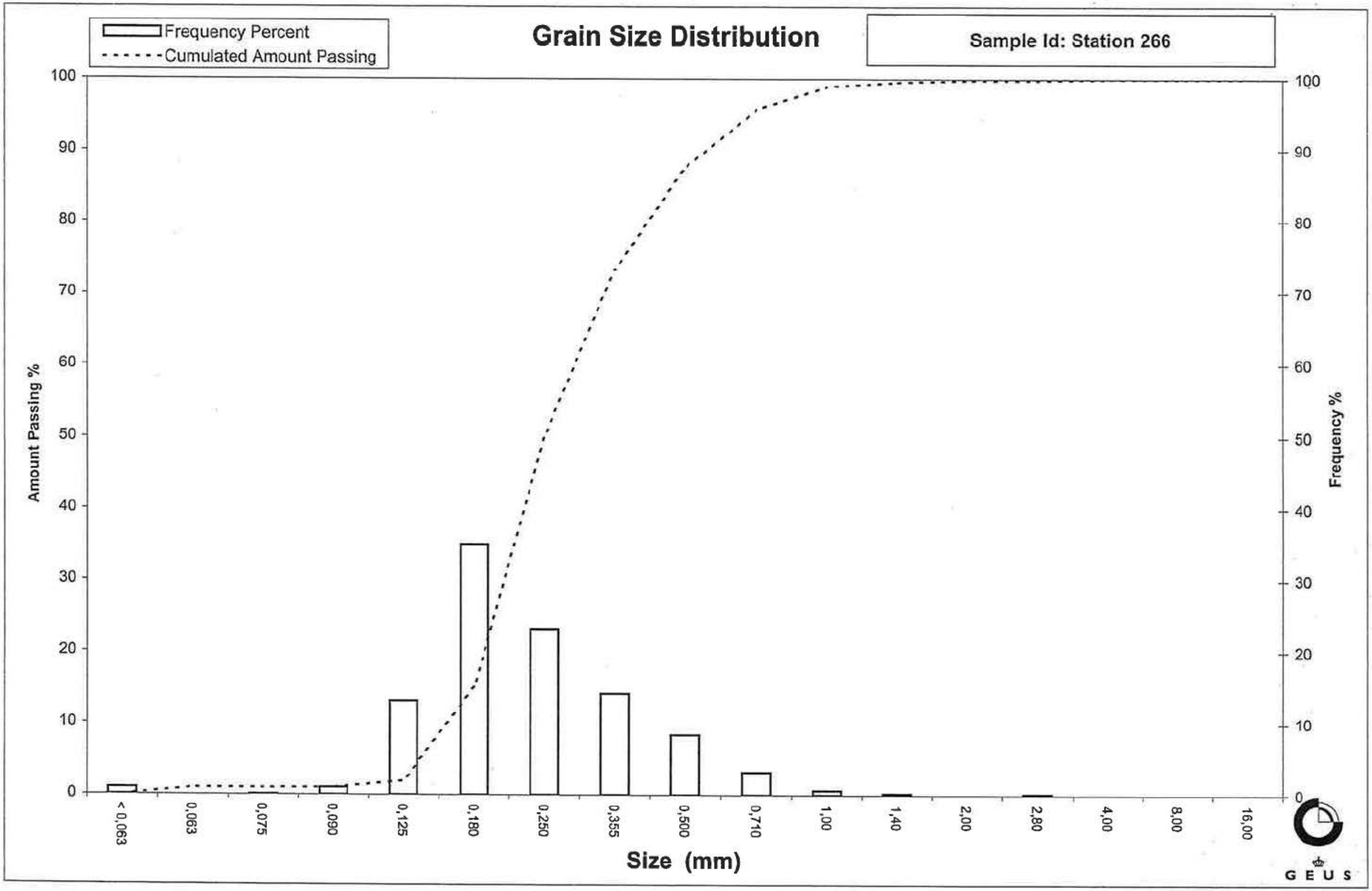

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 266
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 271
Lab. Id: 080095
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 102,2 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	3,42	3,35	96,65
Gravel	4,00	-2,00	0,88	0,86	95,79
Gravel	2,80	-1,49	0,99	0,97	94,82
Gravel	2,00	-1,00	1,10	1,08	93,75
Sand	1,40	-0,49	1,92	1,88	91,87
Sand	1,00	0,00	3,05	2,98	88,88
Sand	0,710	0,49	8,16	7,98	80,90
Sand	0,500	1,00	18,63	18,23	62,67
Sand	0,355	1,49	26,99	26,41	36,26
Sand	0,250	2,00	23,24	22,74	13,52
Sand	0,180	2,47	10,29	10,07	3,45
Sand	0,125	3,00	2,30	2,25	1,20
Sand	0,090	3,47	0,14	0,14	1,07
Sand	0,075	3,74	0,00	0,00	1,07
Sand	0,063	3,99	0,00	0,00	1,07
	< 0,063	> 3,99	1,09	1,07	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,07
Sand, fine	(0,063 mm - 0,200 mm):	5,26
Sand, medium	(0,2 mm - 0,6 mm):	65,02
Sand, coarse	(0,6 mm - 2 mm):	22,40
Gravel	(> 2 mm):	6,25
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	3,02	-1,59
16%	84%	0,82	0,28
25%	75%	0,64	0,64
40%	60%	0,49	1,04
Median 50%	50%	0,43	1,22
75%	25%	0,30	1,72
84%	16%	0,26	1,94
90%	10%	0,23	2,15
95%	5%	0,19	2,39

Moments Statistics

Mean	1,14
Sorting	1,02
Skewness	-0,27
Kurtosis	1,51
Uniformity Coefficient	2,15

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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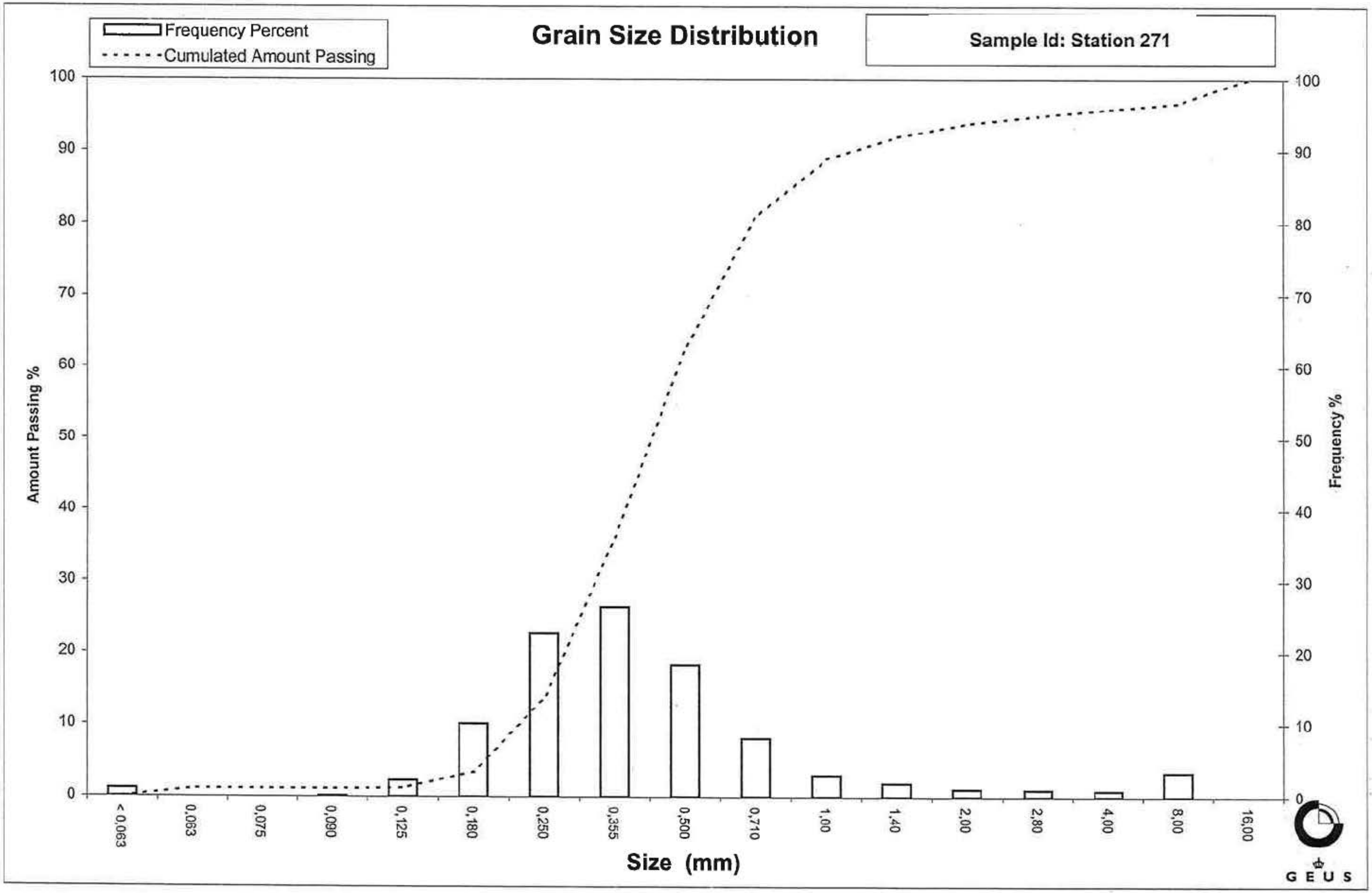

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 271
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 272
Lab. Id: 080096
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

G E U S

Total Weight 105,52 g

Size Fractions

Sieve Analysis

	Size (mm)	Size (Φ)	Weight (g)	Weight (%)	Cumulated amount passing (%)
Gravel	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	3,09	2,93	97,07
Gravel	4,00	-2,00	4,99	4,73	92,34
Gravel	2,80	-1,49	5,79	5,49	86,86
Gravel	2,00	-1,00	5,17	4,90	81,96
Sand	1,40	-0,49	5,24	4,97	76,99
Sand	1,00	0,00	6,59	6,25	70,74
Sand	0,710	0,49	13,06	12,38	58,37
Sand	0,500	1,00	20,88	19,79	38,58
Sand	0,355	1,49	21,92	20,77	17,81
Sand	0,250	2,00	13,09	12,41	5,40
Sand	0,180	2,47	4,08	3,87	1,54
Sand	0,125	3,00	0,77	0,73	0,81
Sand	0,090	3,47	0,04	0,04	0,77
Sand	0,075	3,74	0,00	0,00	0,77
Sand	0,063	3,99	0,00	0,00	0,77
	< 0,063	> 3,99	0,81	0,77	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	0,77
Sand, fine	(0,063 mm - 0,200 mm):	1,87
Sand, medium	(0,2 mm - 0,6 mm):	45,36
Sand, coarse	(0,6 mm - 2 mm):	33,95
Gravel	(> 2 mm):	18,04
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	6,25	-2,64
16%	84%	2,33	-1,22
25%	75%	1,27	-0,35
40%	60%	0,75	0,42
Median 50%	50%	0,62	0,69
75%	25%	0,41	1,30
84%	16%	0,34	1,56
90%	10%	0,29	1,79
95%	5%	0,24	2,04

Moments Statistics

Mean	0,34
Sorting	1,41
Skewness	-0,40
Kurtosis	1,16
Uniformity Coefficient	2,59

The analysis is executed according to DS 405.9
extended by sieves to the ½ phi scale

Size Classes and Percentiles
are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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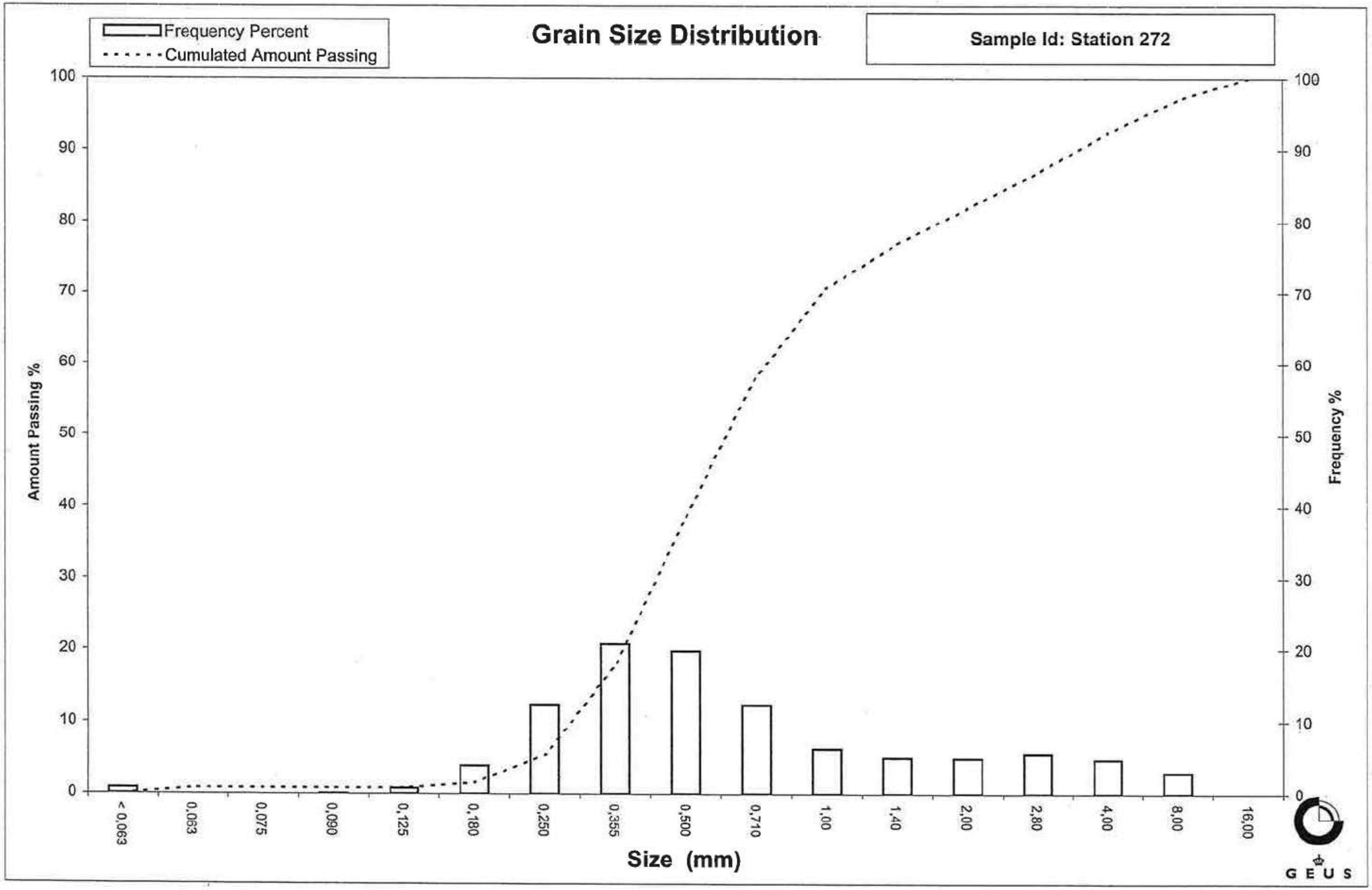
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 272
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 277
Lab. Id: 080097
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

GEUS

Total Weight 100,09 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	1,35	1,35	98,65
	4,00	-2,00	0,76	0,76	97,89
	2,80	-1,49	1,39	1,39	96,50
	2,00	-1,00	0,44	0,44	96,06
Sand	1,40	-0,49	2,64	2,64	93,43
	1,00	0,00	3,96	3,96	89,47
	0,710	0,49	6,14	6,13	83,33
	0,500	1,00	12,33	12,32	71,02
	0,355	1,49	34,14	34,11	36,91
	0,250	2,00	29,79	29,76	7,14
	0,180	2,47	3,54	3,54	3,61
	0,125	3,00	2,10	2,10	1,51
	0,090	3,47	0,12	0,12	1,39
	0,075	3,74	0,02	0,02	1,37
	0,063	3,99	0,00	0,00	1,37
	< 0,063	> 3,99	1,37	1,37	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,37
Sand, fine	(0,063 mm - 0,200 mm):	3,25
Sand, medium	(0,2 mm - 0,6 mm):	72,26
Sand, coarse	(0,6 mm - 2 mm):	19,18
Gravel	(> 2 mm):	3,94
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	1,76	-0,81
16%	84%	0,74	0,43
25%	75%	0,57	0,82
40%	60%	0,45	1,14
Median 50%	50%	0,41	1,28
75%	25%	0,31	1,68
84%	16%	0,28	1,83
90%	10%	0,26	1,94
95%	5%	0,21	2,27

Moments Statistics

Mean	1,18
Sorting	0,82
Skewness	-0,29
Kurtosis	1,47
Uniformity Coefficient	1,74

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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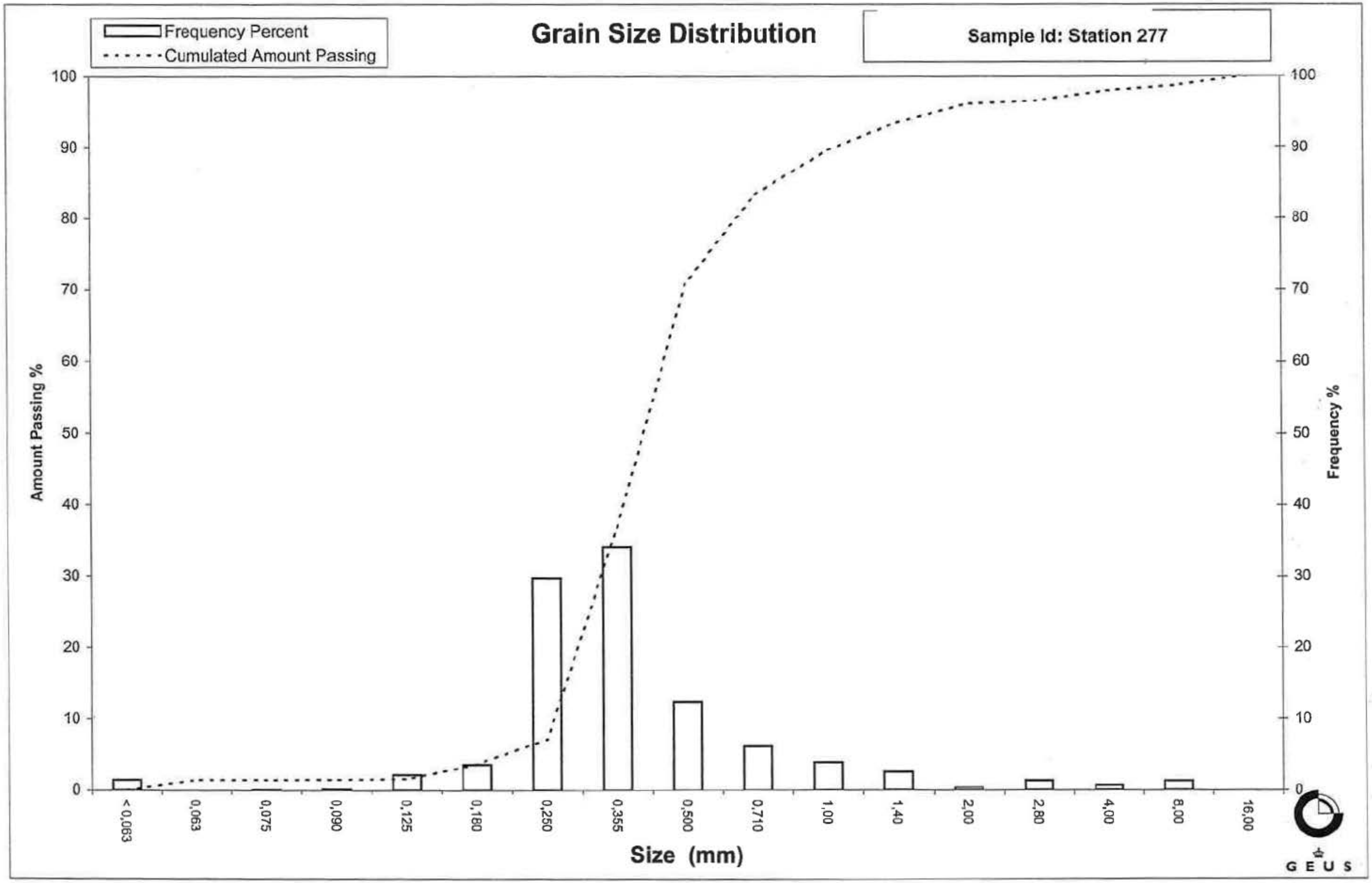
Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 277
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS

Grain Size Distribution

Geotechnical

Sample Id: Station 278
Lab. Id: 080098
Submitter: DFU
Subject: Tobistogt< L 151> dec.07
Date: Marts/april 2008
Executed: K.Fries/I. Nørgaard
Remarks: For mat < 2mm

Total Weight 101,73 g

Size Fractions

Sieve Analysis

	Size	Size	Weight	Weight	Cumulated amount passing
	mm	Φ	g	%	%
	16,00	-4,00	0,00	0,00	100,00
Gravel	8,00	-3,00	0,42	0,41	99,59
Gravel	4,00	-2,00	1,16	1,14	98,45
Gravel	2,80	-1,49	0,40	0,39	98,05
Gravel	2,00	-1,00	0,86	0,85	97,21
Sand	1,40	-0,49	1,71	1,68	95,53
Sand	1,00	0,00	2,80	2,75	92,77
Sand	0,710	0,49	5,18	5,09	87,68
Sand	0,500	1,00	12,49	12,28	75,41
Sand	0,355	1,49	37,08	36,45	38,96
Sand	0,250	2,00	32,29	31,74	7,22
Sand	0,180	2,47	3,29	3,23	3,98
Sand	0,125	3,00	2,75	2,70	1,28
Sand	0,090	3,47	0,14	0,14	1,14
Sand	0,075	3,74	0,00	0,00	1,14
Sand	0,063	3,99	0,00	0,00	1,14
	< 0,063	> 3,99	1,16	1,14	0,00

Size Classes (DGF-Bulletin 1 1988)

		Weight %
Silt and clay	(< 0,063 mm):	1,14
Sand, fine	(0,063 mm - 0,200 mm):	3,76
Sand, medium	(0,2 mm - 0,6 mm):	76,35
Sand, coarse	(0,6 mm - 2 mm):	15,96
Gravel	(> 2 mm):	2,79
Sum:		100,00

Moments Measures (Folk and Wards)

Percentile Amount in sieve	Percentile Amount passing	d(mm)	Φ
5%	95%	1,32	-0,40
16%	84%	0,65	0,63
25%	75%	0,50	1,00
40%	60%	0,44	1,19
Median 50%	50%	0,40	1,33
75%	25%	0,31	1,70
84%	16%	0,28	1,84
90%	10%	0,26	1,95
95%	5%	0,20	2,31

Moments Statistics

Mean	1,27
Sorting	0,71
Skewness	-0,21
Kurtosis	1,61
Uniformity Coefficient	1,69

The analysis is executed according to DS 405.9 extended by sieves to the ½ phi scale

Size Classes and Percentiles are found by linear interpolation

Formulas

Mean (ϕ16%+ϕ84%+ϕ50%) / 3 (Folk and Ward 1957)

Sorting (ϕ84%-ϕ16%) / 4 + (ϕ95%-ϕ5%) / 6,6 (Folk and Ward 1957)

Kurtosis (ϕ95% - ϕ5%) / (2,44 * (ϕ75% - ϕ25%)) (Folk and Ward 1957)

Skewness (ϕ16%+ϕ84% - 2*ϕ50%) / (2*(ϕ84%-ϕ16%)) + (ϕ5%+ϕ95% - 2*ϕ50%) / (2*(ϕ95%-ϕ5%)) (Folk and Ward 1957)

Uniformity Coefficient (d60% / d10%) (dgf-Bulletin 1988)

Mean, sorting, skewness and kurtosis are based on "Amount in sieve". Uniformity coefficient is based on "Amount passing".

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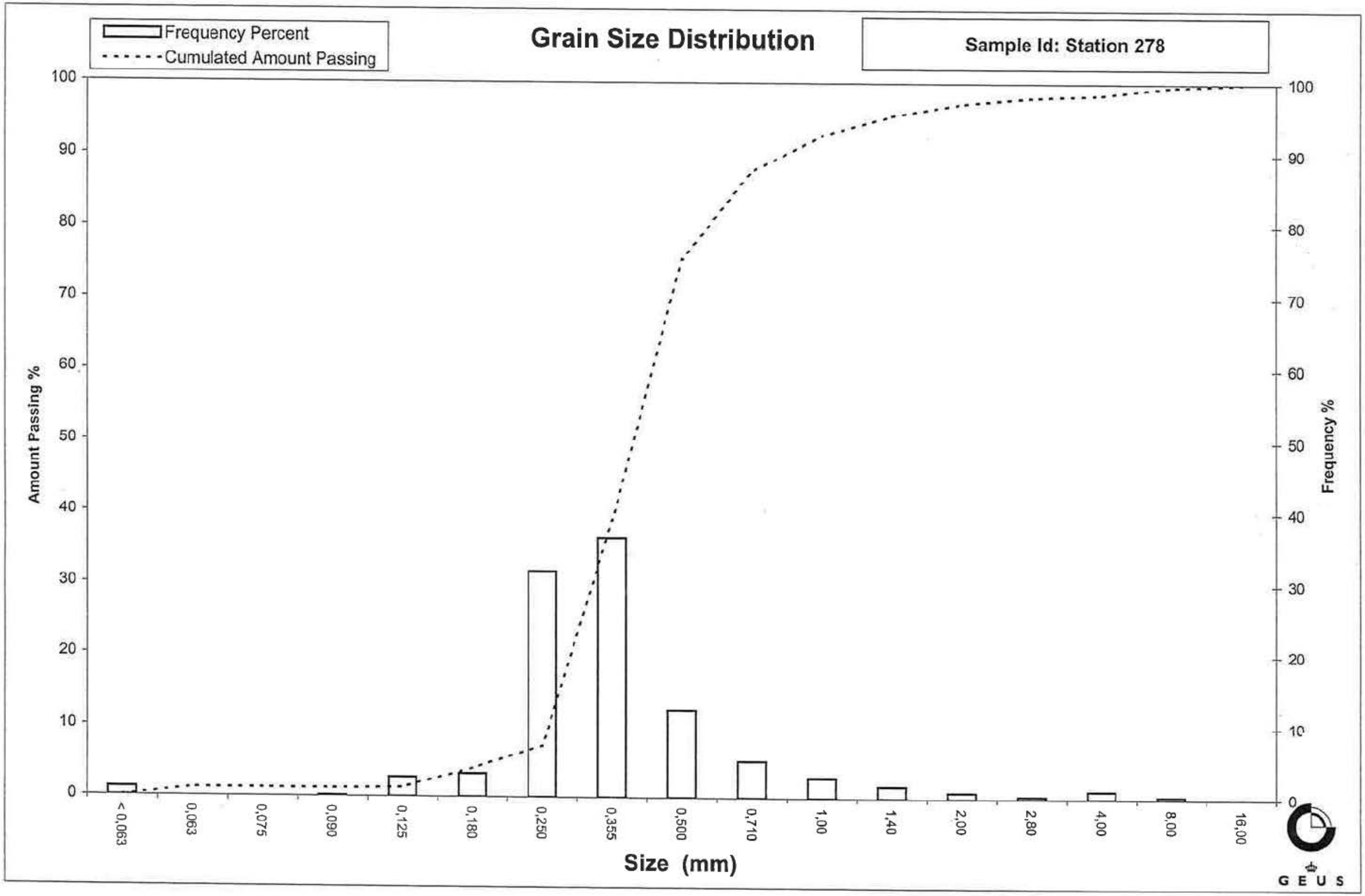

Frequency Percent
Cumulated Amount Passing
Grain Size Distribution
Sample Id: Station 278
Amount Passing %
Frequency %
100
90
80
70
60
50
40
30
20
10
0
< 0,063
0,063
0,075
0,090
0,125
0,180
0,250
0,355
0,500
0,710
1,00
1,40
2,00
2,80
4,00
8,00
16,00
Size (mm)
GEUS