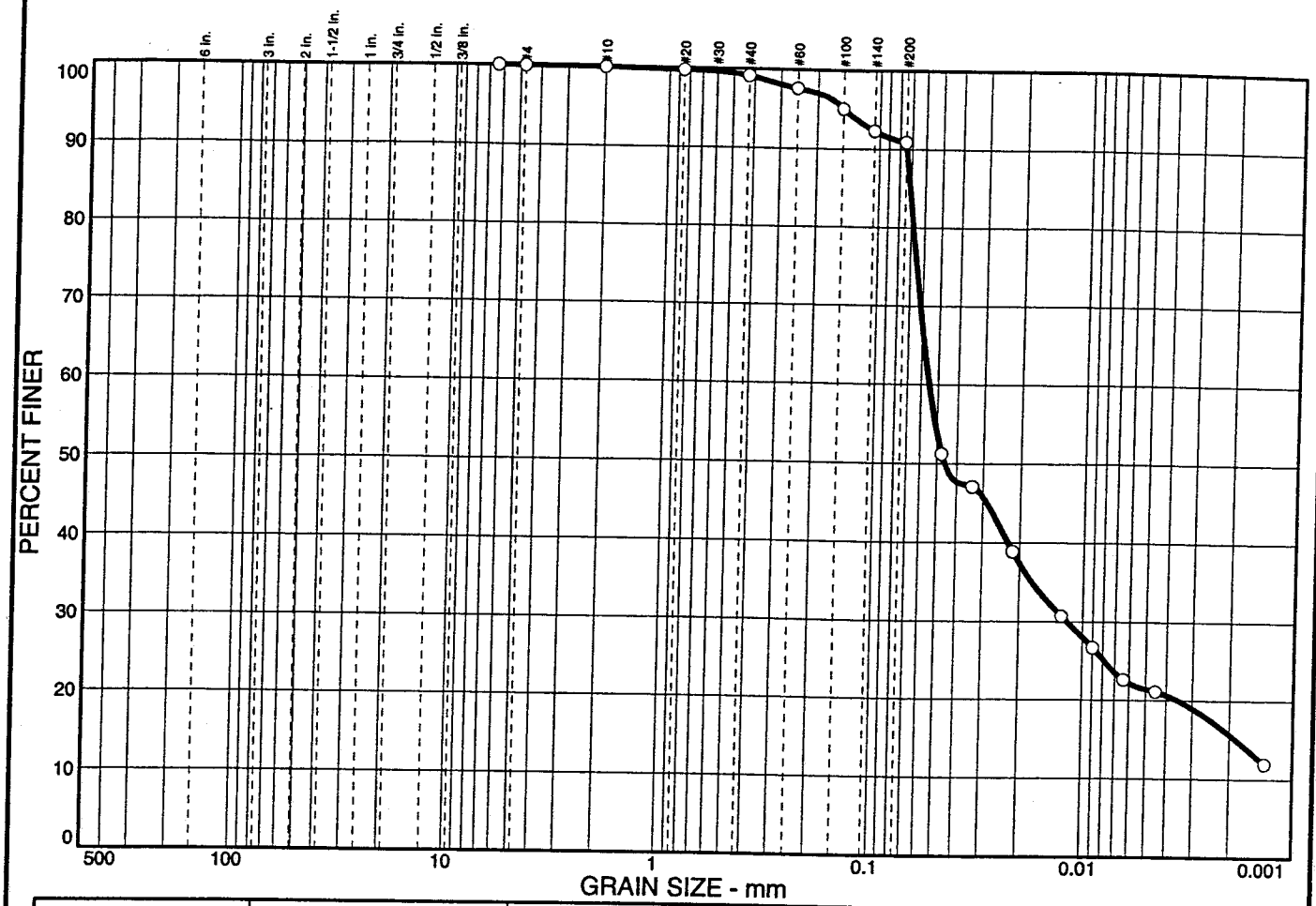
GRAIN SIZE DATA

Client: FOSTER WHEELER
Project: ROXANNA MARSH
SDG: 920839, 920866A, 920866B, 920866C

JJRS JAH

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	9.1	69.5	21.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.9		
#20	99.7		
#40	99.1		
#60	97.6		
#100	95.1		
#140	92.3		
#200	90.9		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.0711 D_{60}= 0.0549 D_{50}= 0.0457
D_{30}= 0.0119 D_{15}= 0.0019 D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

Remarks

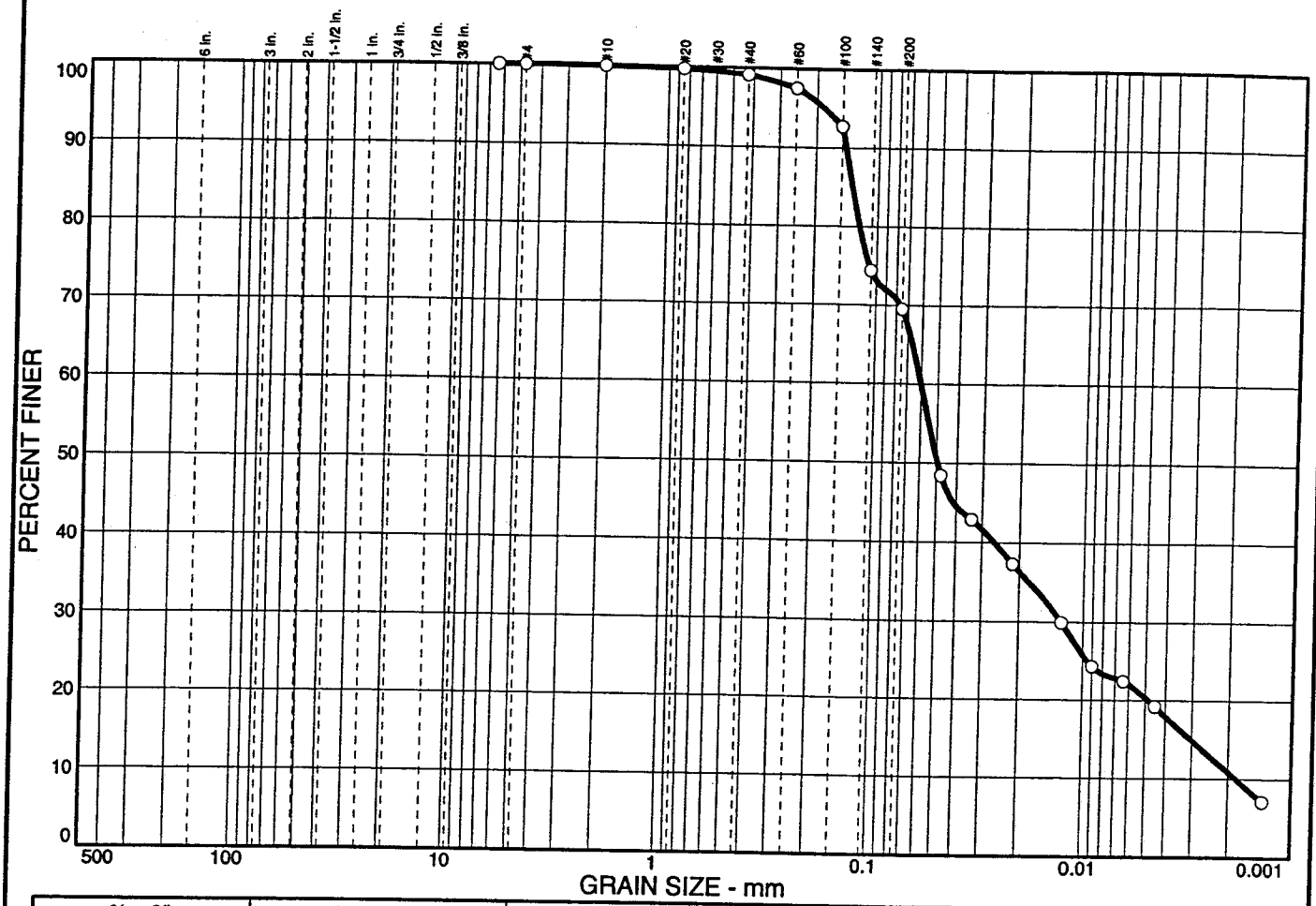
Sample No.: 001 **Source of Sample:** 920866 **Date:** 4/1/02
Location: FW-RM-11-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

JTRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	30.5	49.2	20.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.9		
#20	99.7		
#40	99.1		
#60	97.5		
#100	92.7		
#140	74.4		
#200	69.5		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.133 D_{60}= 0.0602 D_{50}= 0.0493
D_{30}= 0.0127 D_{15}= 0.0030 D_{10}= 0.0018
C_u= 32.77 C_c= 1.45

Classification

USCS= AASHTO=

Remarks

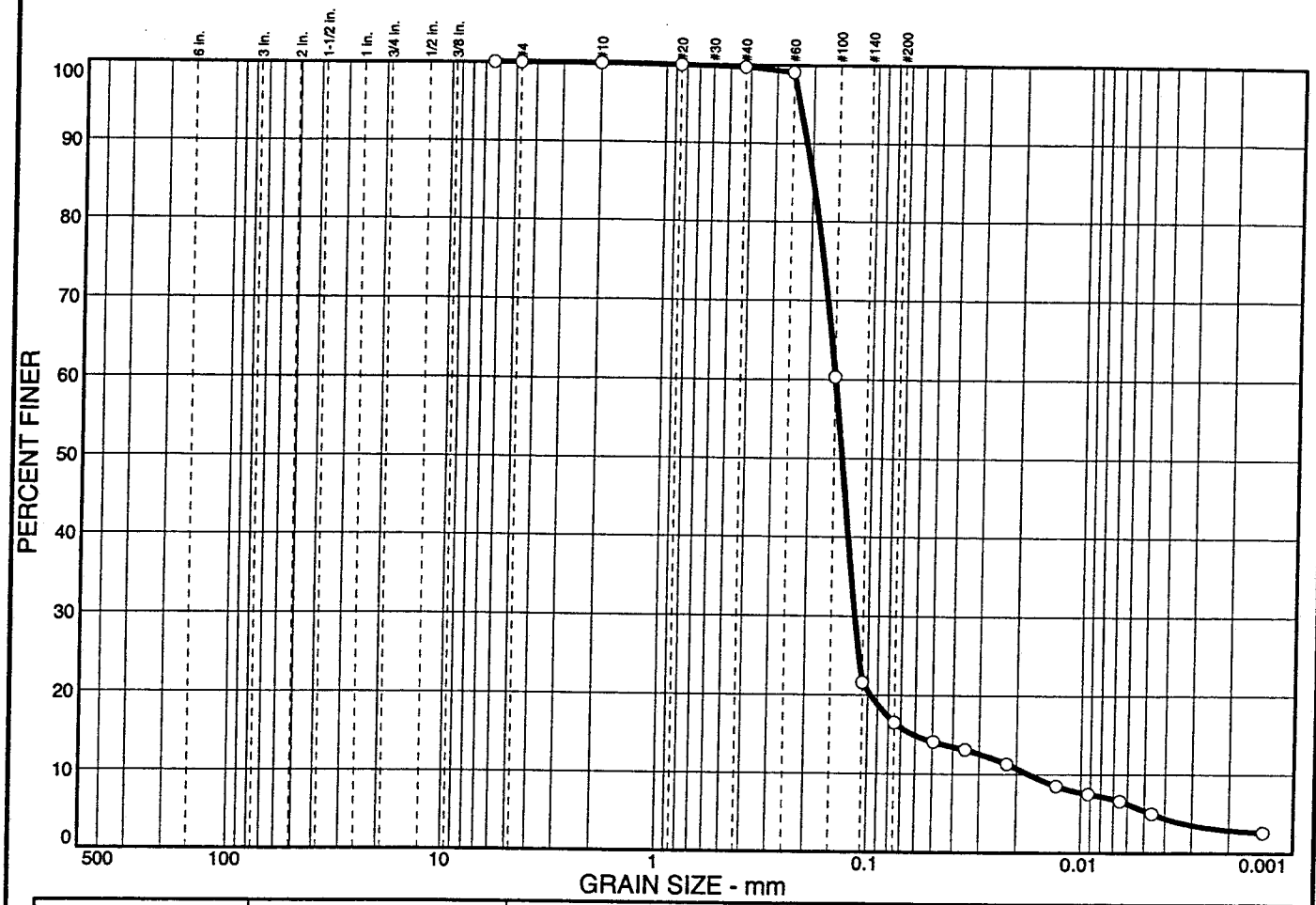
Sample No.: 002 **Source of Sample:** 920866 **Date:** 4/1/02
Location: FW-RM-03-CS-2.3-4.8 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

VTRS JM

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	83.5	11.1	5.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.9		
#40	99.7		
#60	99.1		
#100	60.3		
#140	21.6		
#200	16.5		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.198 D_{60}= 0.150 D_{50}= 0.138
D_{30}= 0.117 D_{15}= 0.0610 D_{10}= 0.0175
C_u= 8.54 C_c= 5.20

Classification

USCS= AASHTO=

Remarks

Sample No.: 005 **Source of Sample:** 920866 **Date:** 4/1/02
Location: FW-RM-03-CS-0.8-2.3 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT

% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	8.1	68.2	23.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.9		
#20	99.5		
#40	98.8		
#60	97.7		
#100	95.8		
#140	93.2		
#200	91.9		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.0686 D_{60}= 0.0416 D_{50}= 0.0253
D_{30}= 0.0070 D_{15}= 0.0029 D_{10}= 0.0014
C_u= 28.74 C_c= 0.83

Classification

USCS= AASHTO=

Remarks

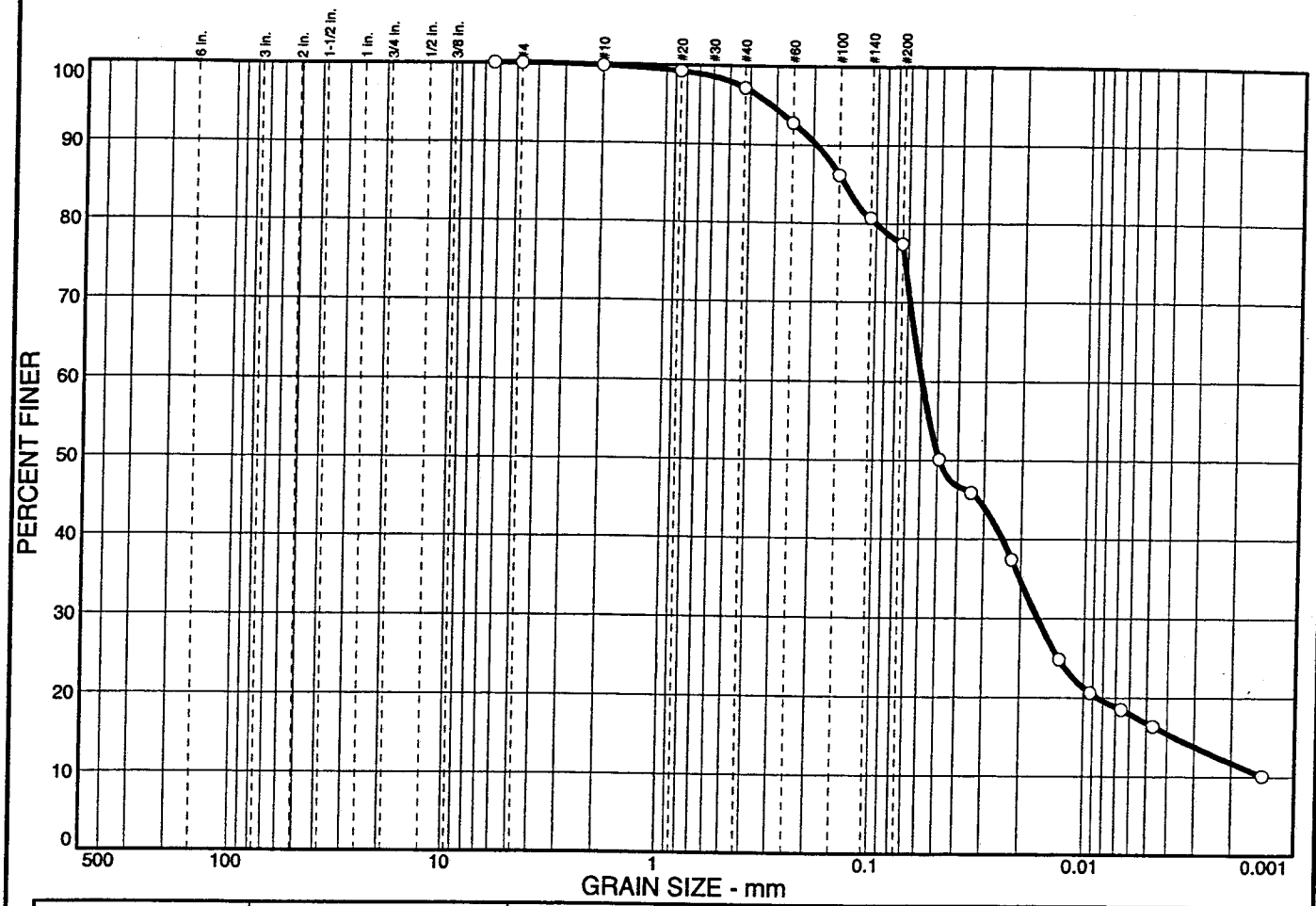
Sample No.: 006 **Source of Sample:** 920866 **Date:** 4/1/02
Location: FW-RM-20-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

JTRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	22.6	60.6	16.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.8		
#20	99.2		
#40	97.2		
#60	92.8		
#100	86.2		
#140	80.7		
#200	77.4		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.141 D_{60}= 0.0595 D_{50}= 0.0486
D_{30}= 0.0166 D_{15}= 0.0037 D_{10}=
C_u= C_c=

Classification

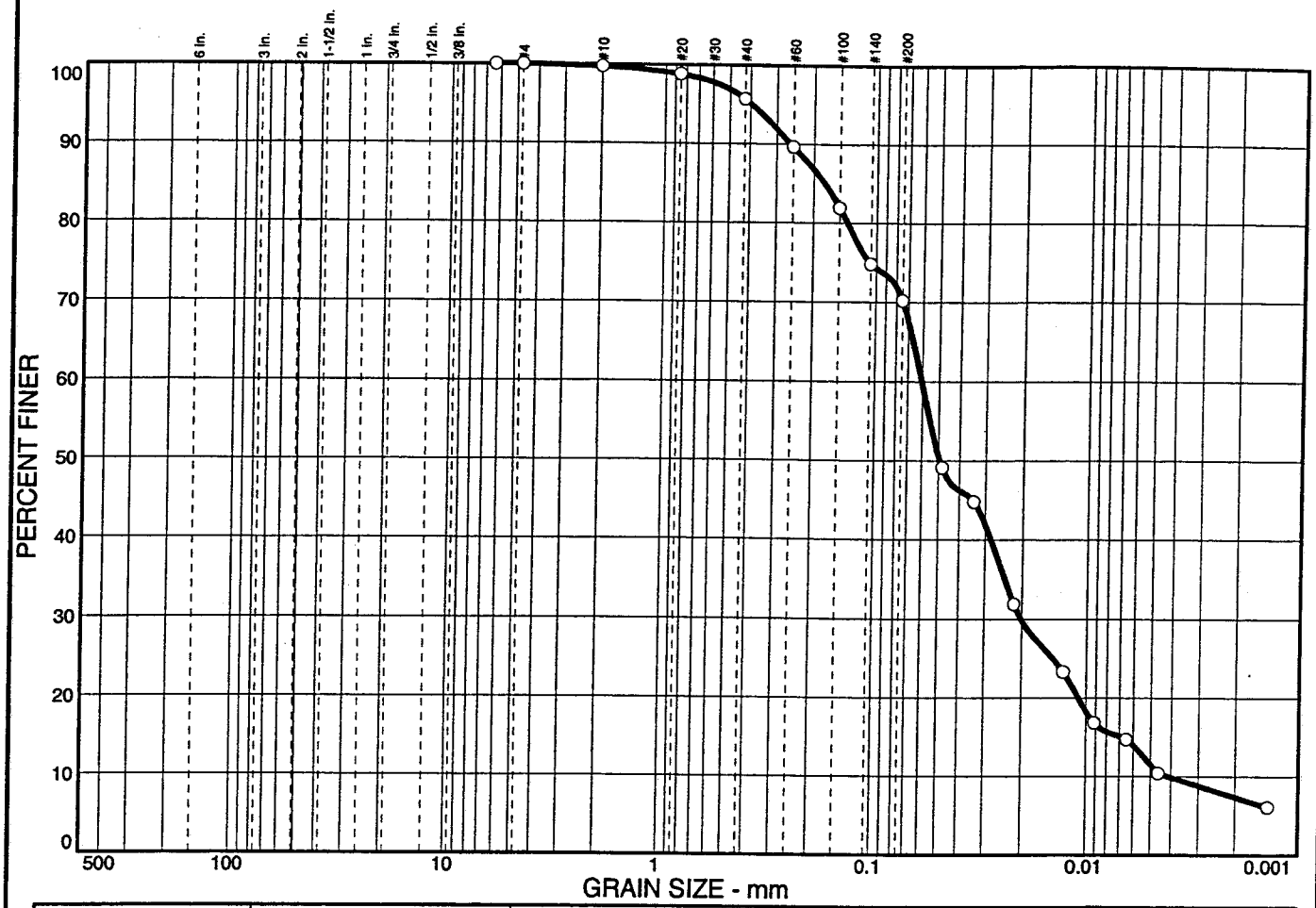
USCS= AASHTO=

Remarks

Sample No.: 007 **Source of Sample:** 920866 **Date:** 4/1/02
Location: FW-RM-14-SS **Elev./Depth:**

RMT, Inc.	Client:
	Project: EN CHEM
	Project No: 4241.01 Figure:

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	29.8	58.7	11.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.7		
#20	98.8		
#40	95.7		
#60	89.6		
#100	81.9		
#140	74.8		
#200	70.2		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.177 D_{60}= 0.0605 D_{50}= 0.0492
D_{30}= 0.0202 D_{15}= 0.0068 D_{10}= 0.0041
C_u= 14.66 C_c= 1.64

Classification

USCS= AASHTO=

Remarks

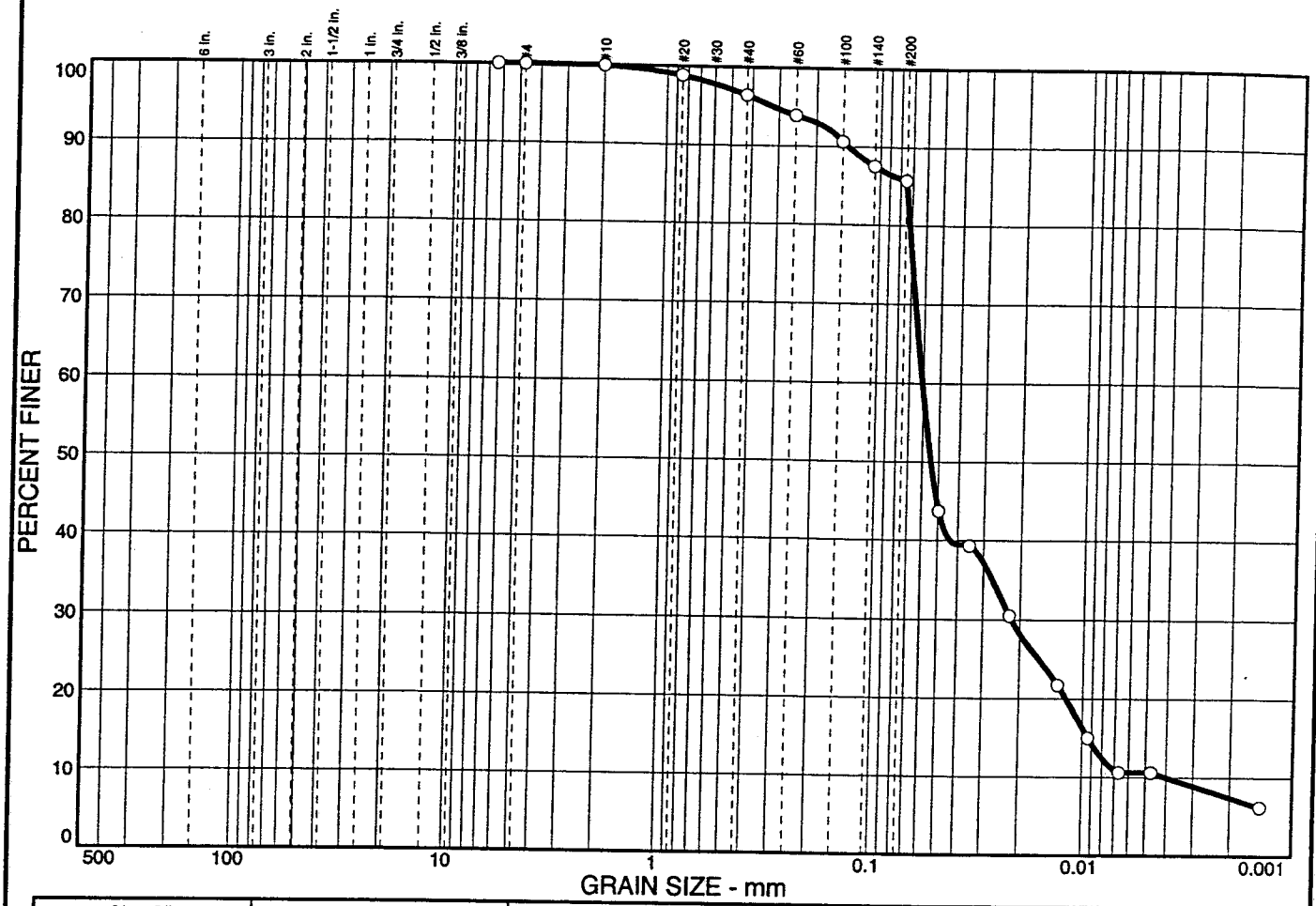
Sample No.: 008 **Source of Sample:** 920866 **Date:** 4/21/02
Location: FW-RM-21-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

√TRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	14.3	75.1	10.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.9		
#20	98.8		
#40	96.4		
#60	93.9		
#100	90.6		
#140	87.5		
#200	85.7		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.0746 D_{60}= 0.0606 D_{50}= 0.0545
D_{30}= 0.0220 D_{15}= 0.0094 D_{10}= 0.0040
C_u= 15.14 C_c= 1.99

Classification

USCS= AASHTO=

Remarks

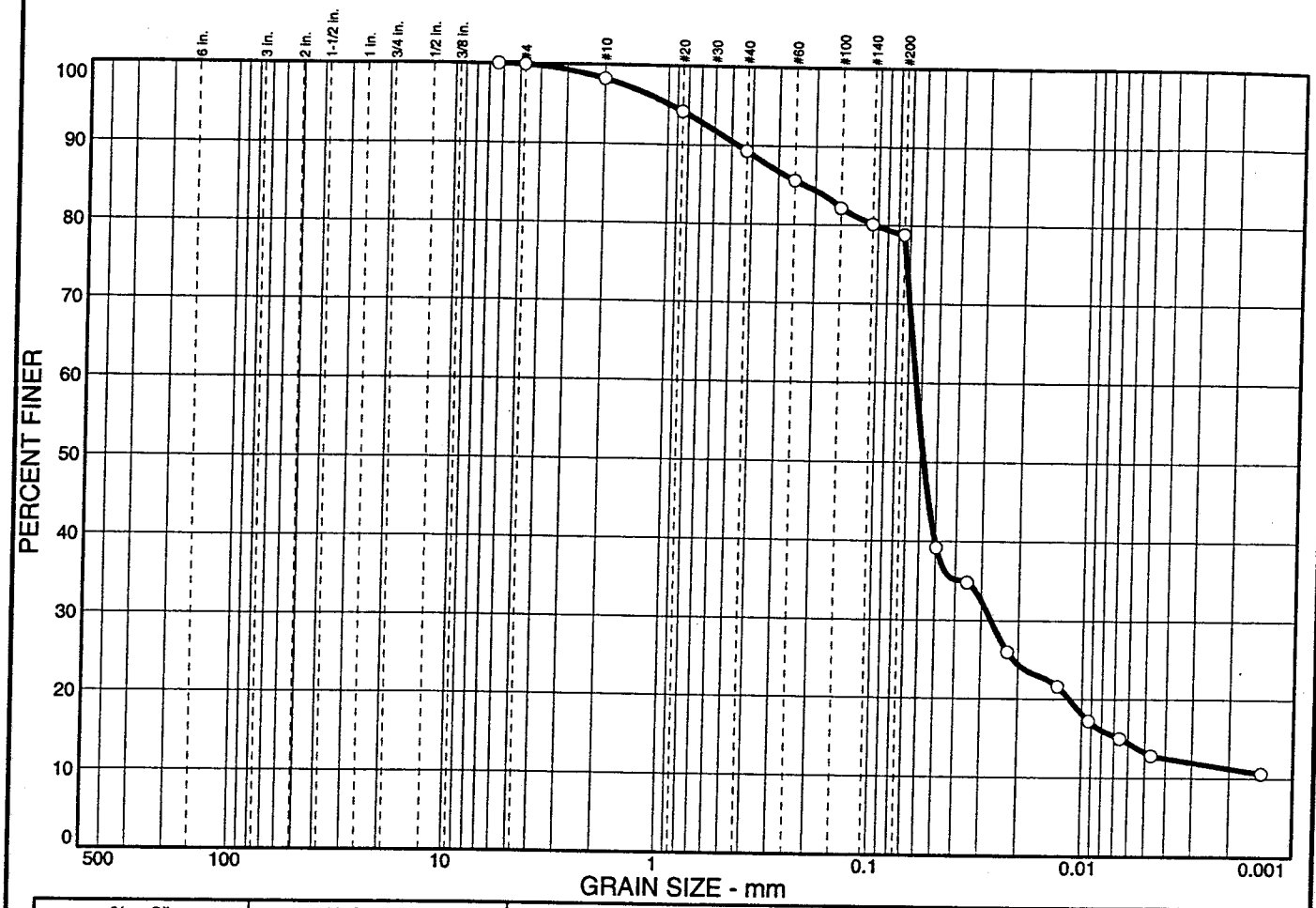
Sample No.: 009 **Source of Sample:** 920866 **Date:** 4-2-02
Location: FW-RM-19-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

JTRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.1	21.1	65.6	13.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	99.9		
#10	98.2		
#20	94.2		
#40	89.3		
#60	85.6		
#100	82.1		
#140	80.1		
#200	78.8		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.224 D_{60}= 0.0638 D_{50}= 0.0577
D_{30}= 0.0269 D_{15}= 0.0066 D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

Remarks

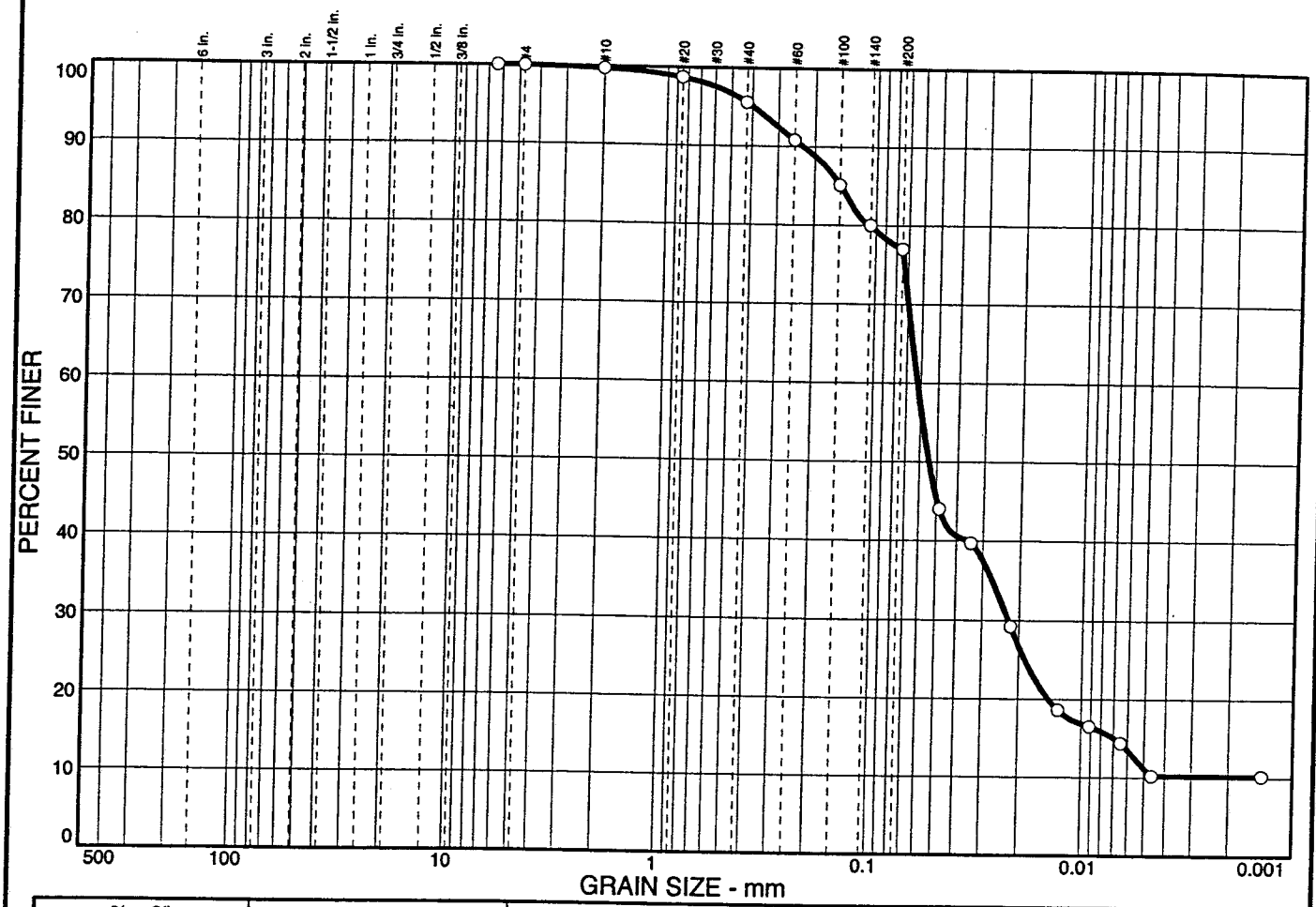
Sample No.: 010 **Source of Sample:** 920866 **Date:** 4-2-02
Location: FW-RM-18-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

VTRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	23.0	65.8	11.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.7		
#20	98.7		
#40	95.6		
#60	90.8		
#100	85.1		
#140	80.0		
#200	77.0		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.149 D_{60}= 0.0623 D_{50}= 0.0544
D_{30}= 0.0226 D_{15}= 0.0069 D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

Remarks

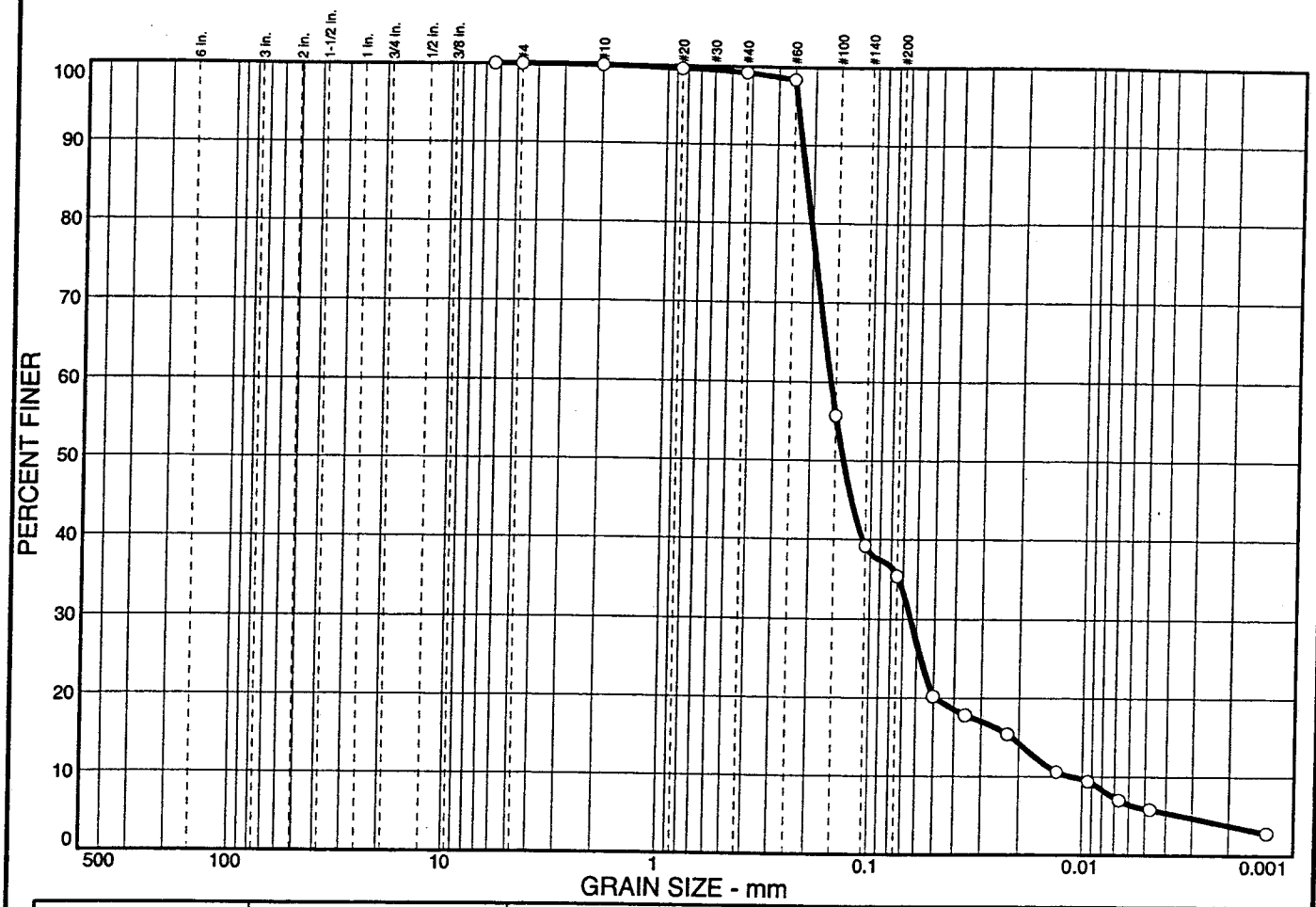
Sample No.: 011 **Source of Sample:** 920866 **Date:** 4-2-02
Location: FW-RM-13-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

JTRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	64.6	29.5	5.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.9		
#20	99.6		
#40	99.2		
#60	98.4		
#100	55.7		
#140	39.2		
#200	35.4		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.216 D_{60}= 0.159 D_{50}= 0.137
D_{30}= 0.0642 D_{15}= 0.0216 D_{10}= 0.0112
C_u= 14.26 C_c= 2.32

Classification

USCS= AASHTO=

Remarks

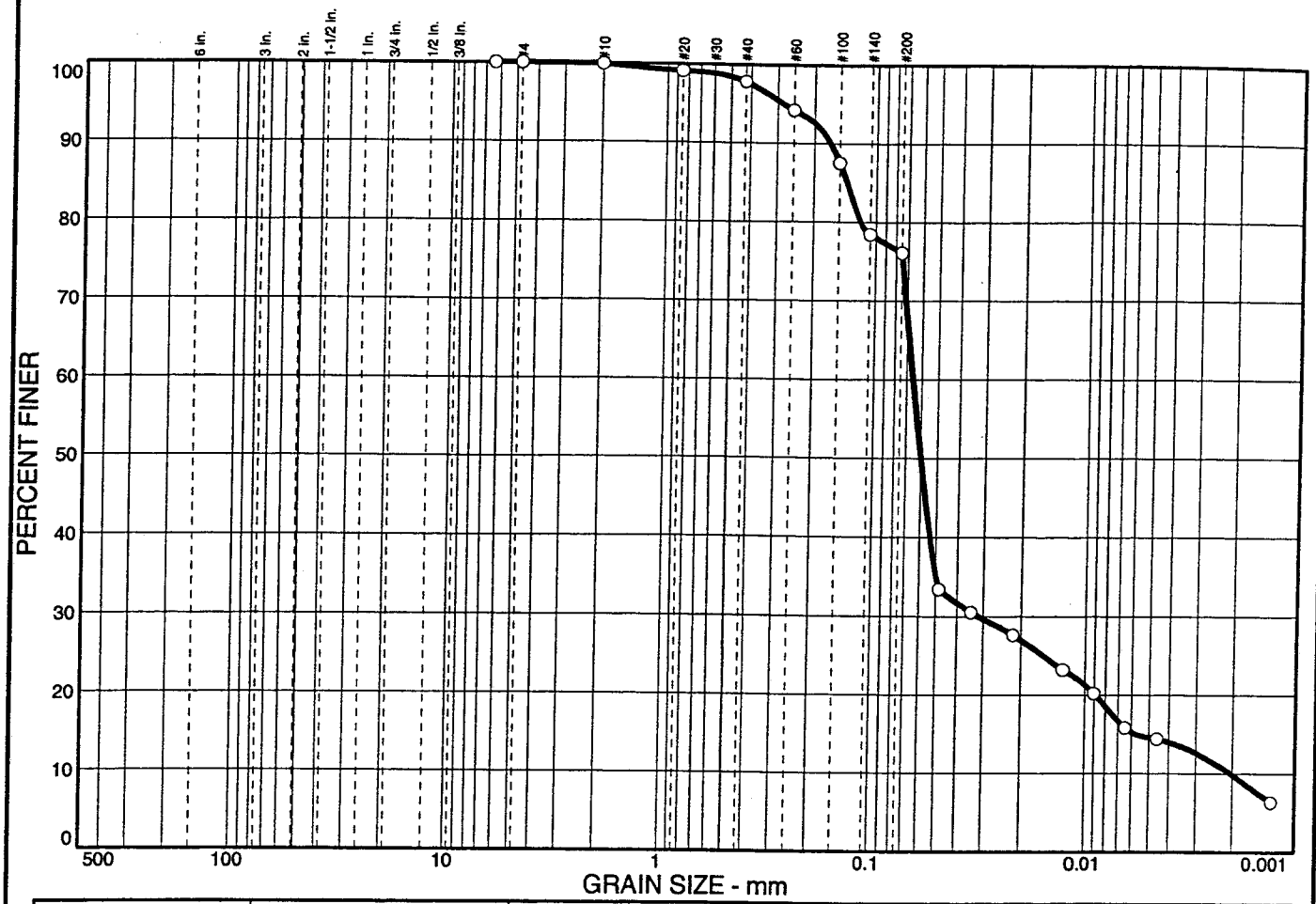
Sample No.: 015 **Source of Sample:** 920866 **Date:** 4-02-02
Location: FW-RM-07-CS-2.6-5.4 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

JTRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	23.9	61.5	14.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.9		
#20	99.1		
#40	97.8		
#60	94.2		
#100	87.5		
#140	78.4		
#200	76.1		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.139 D_{60}= 0.0656 D_{50}= 0.0599
D_{30}= 0.0317 D_{15}= 0.0057 D_{10}= 0.0020
C_u= 32.22 C_c= 7.53

Classification

USCS= AASHTO=

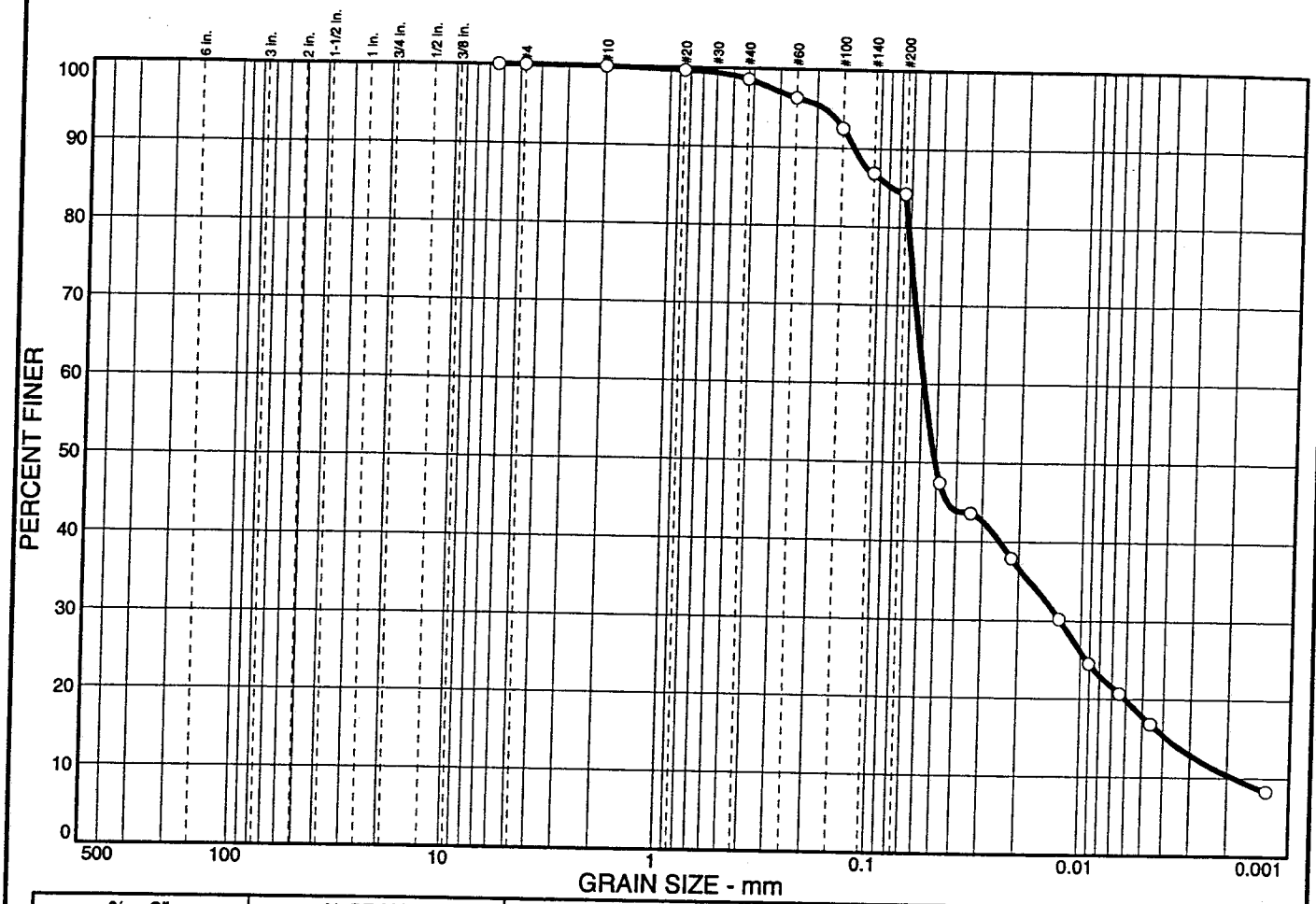
Remarks

Sample No.: 016 **Source of Sample:** 920866 **Date:** 4-2-02
Location: FW-RM-07-CS-0.5-2.6 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	15.7	66.5	17.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.9		
#20	99.6		
#40	98.6		
#60	96.3		
#100	92.5		
#140	86.9		
#200	84.3		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= / PI=

Coefficients

D_{85}= 0.0863 D_{60}= 0.0585 D_{50}= 0.0507
D_{30}= 0.0126 D_{15}= 0.0038 D_{10}= 0.0019
C_u= 31.60 C_c= 1.45

Classification

USCS= AASHTO=

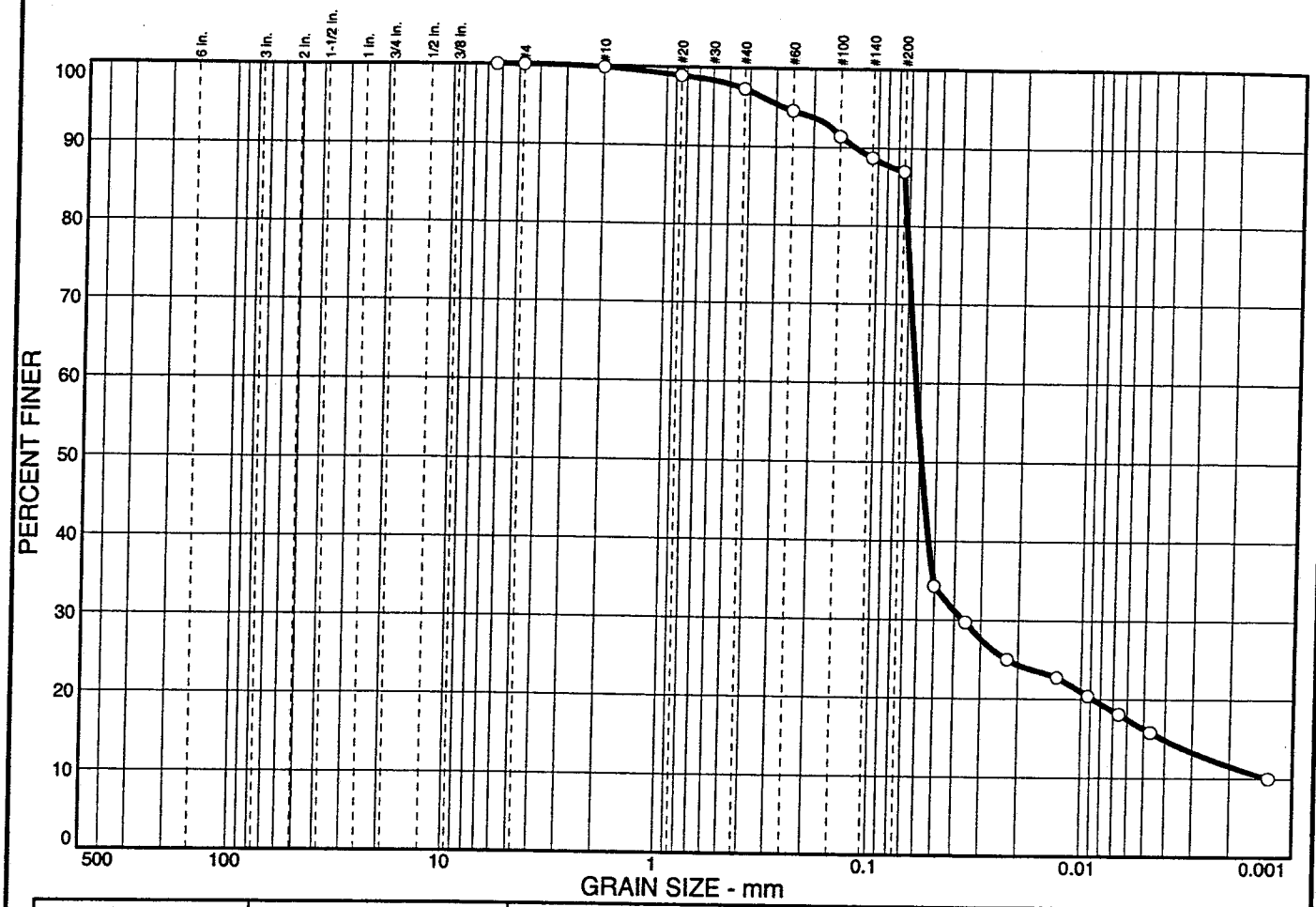
Remarks

Sample No.: 017 **Source of Sample:** 920866 **Date:** 4-2-02
Location: FW-RM-20-CS-0.8-2.4 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	13.0	70.7	16.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.8		
#20	98.9		
#40	97.3		
#60	94.6		
#100	91.4		
#140	88.7		
#200	87.0		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.0741 D_{60}= 0.0632 D_{50}= 0.0587
D_{30}= 0.0364 D_{15}= 0.0041 D_{10}= 0.0013
C_u= 48.12 C_c= 15.97

Classification

USCS= AASHTO=

Remarks

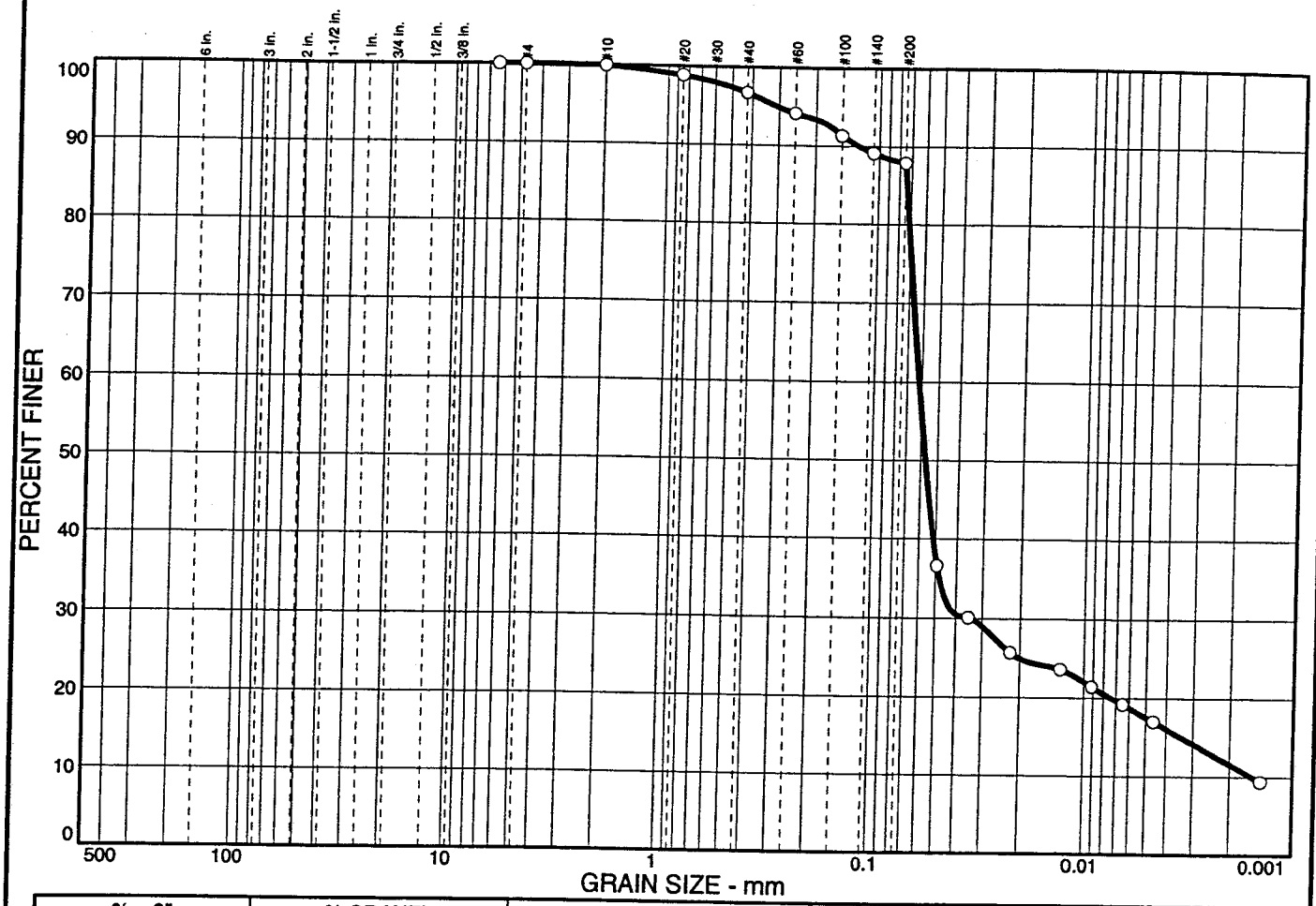
Sample No.: 019 **Source of Sample:** 920866 **Date:** 4-2-02
Location: FW-RM-21-CS-3.6-5.6 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

JTRS JRH

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	12.1	70.4	17.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.9		
#20	98.8		
#40	96.7		
#60	94.1		
#100	91.3		
#140	89.1		
#200	87.9		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.0736 D_{60}= 0.0618 D_{50}= 0.0570
D_{30}= 0.0341 D_{15}= 0.0034 D_{10}= 0.0016
C_u= 39.76 C_c= 12.10

Classification

USCS= AASHTO=

Remarks

Sample No.: 020 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-01-CS-3.6-5.6 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

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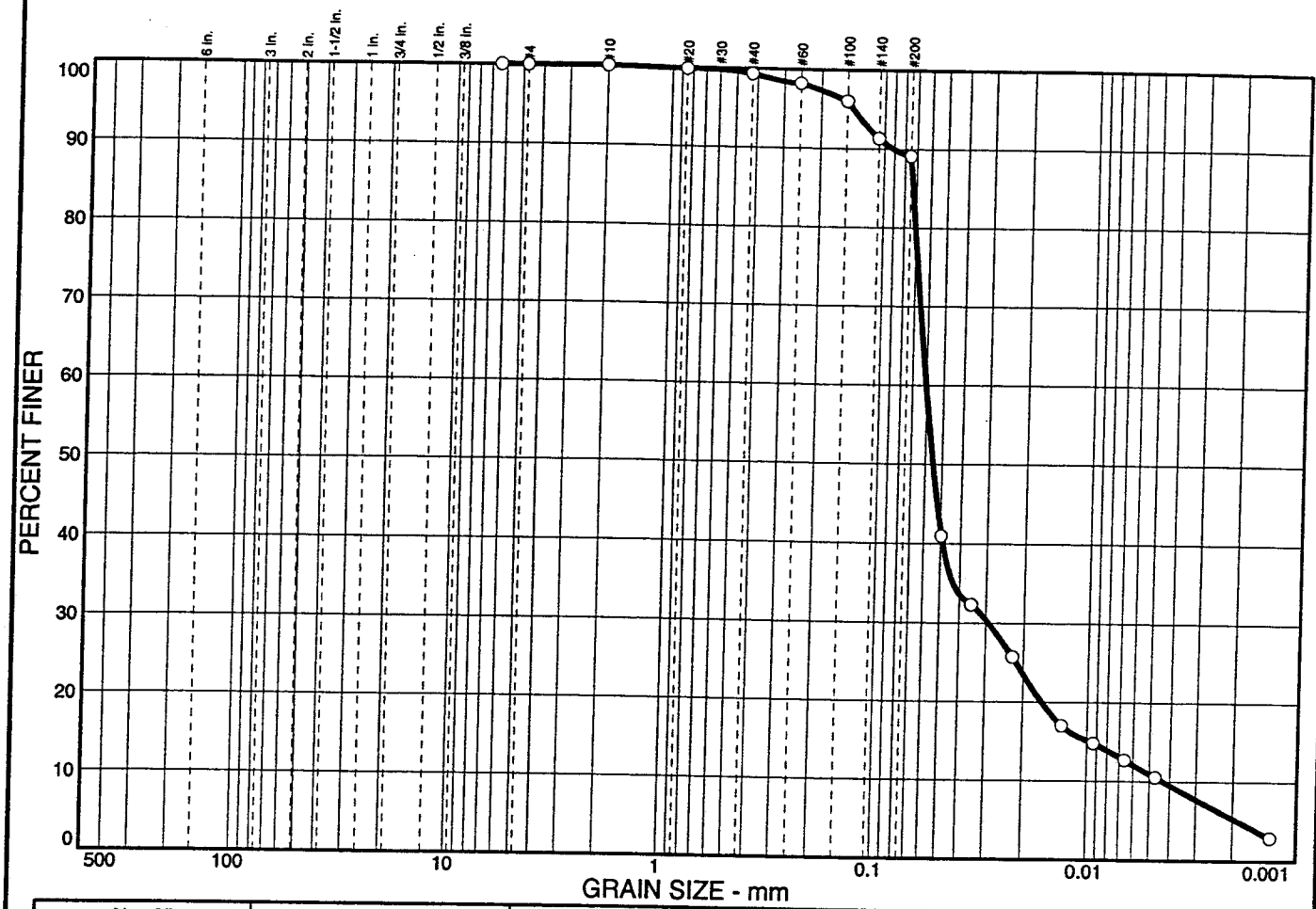
GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	10.9	78.2	10.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.8		
#40	99.3		
#60	98.2		
#100	96.0		
#140	91.3		
#200	89.1		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.0729 D_{60}= 0.0604 D_{50}= 0.0551
D_{30}= 0.0292 D_{15}= 0.0097 D_{10}= 0.0043
C_u= 13.96 C_c= 3.27

Classification

USCS= AASHTO=

Remarks

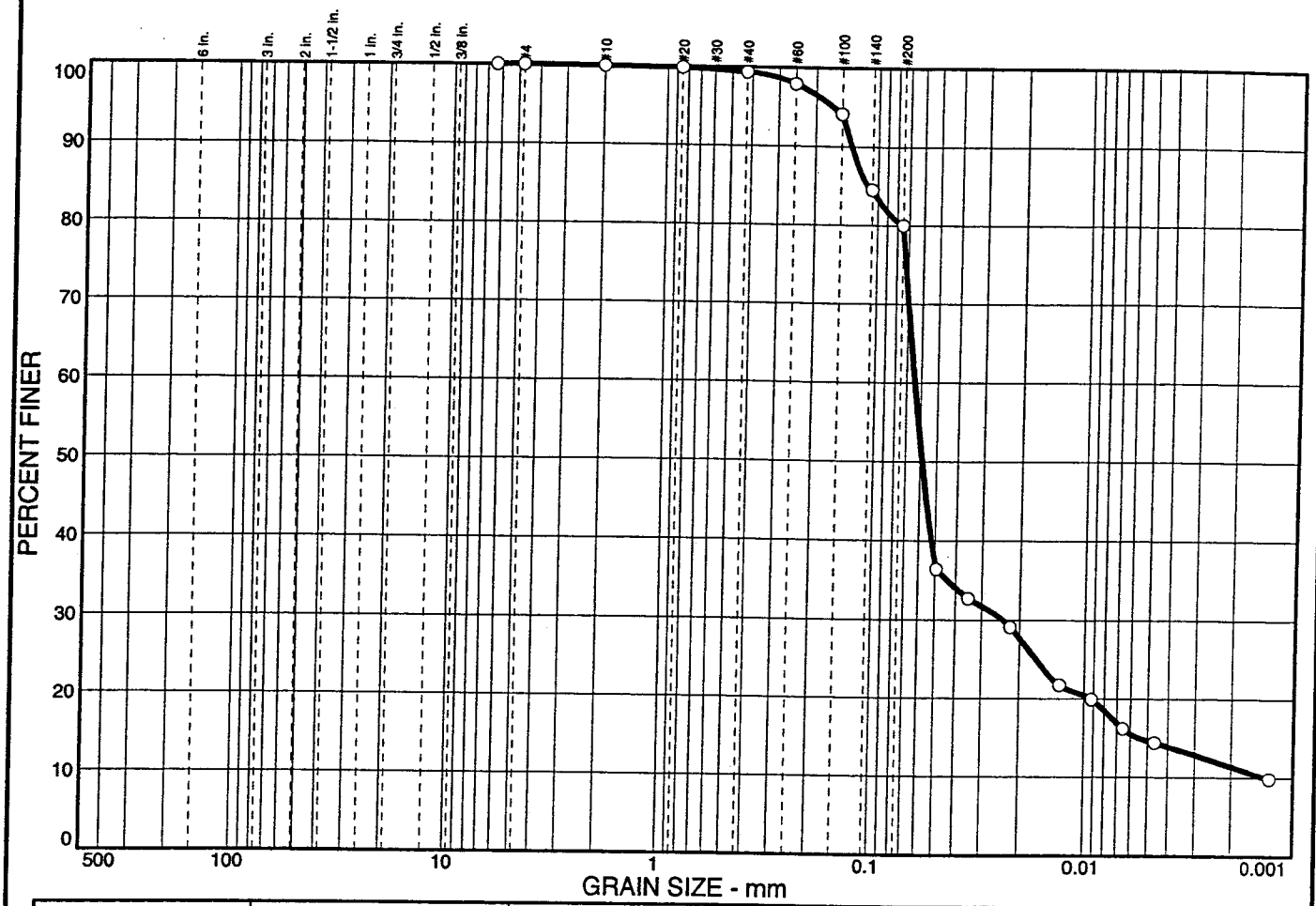
Sample No.: 021 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-21-CS-7.0-9.0 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

VTRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	20.0	65.3	14.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.9		
#20	99.8		
#40	99.3		
#60	97.9		
#100	94.1		
#140	84.5		
#200	80.0		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.112 D_{60}= 0.0642 D_{50}= 0.0586
D_{30}= 0.0241 D_{15}= 0.0055 D_{10}= 0.0014
C_u= 46.62 C_c= 6.57

Classification

USCS= AASHTO=

Remarks

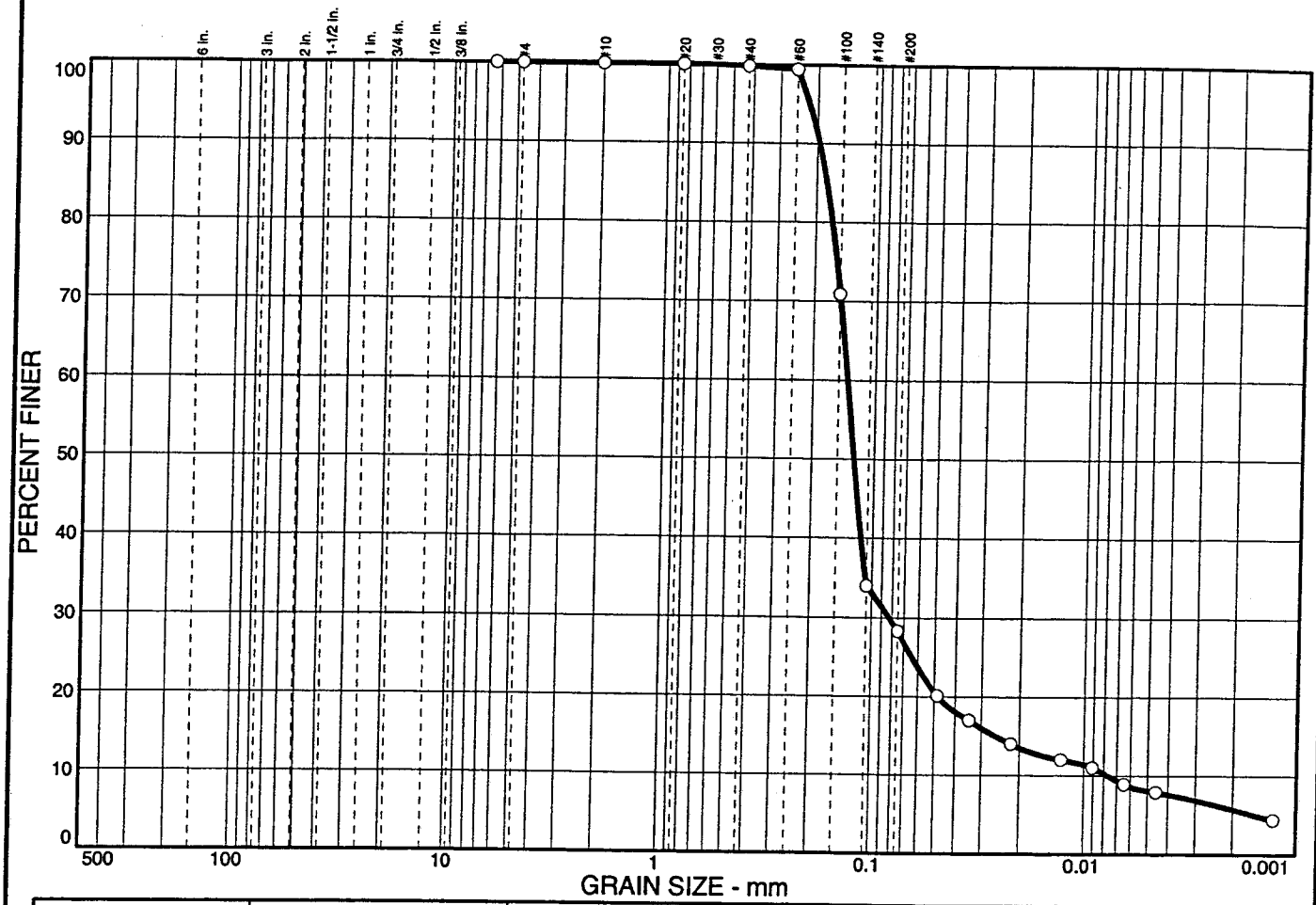
Sample No.: 022 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-01-CS-7.9-9.0 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

VOTRS J

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	71.7	20.2	8.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	100.0		
#40	99.8		
#60	99.4		
#100	70.9		
#140	34.0		
#200	28.3		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.178 D_{60}= 0.136 D_{50}= 0.125
D_{30}= 0.0828 D_{15}= 0.0259 D_{10}= 0.0077
C_u= 17.69 C_c= 6.54

Classification

USCS= AASHTO=

Remarks

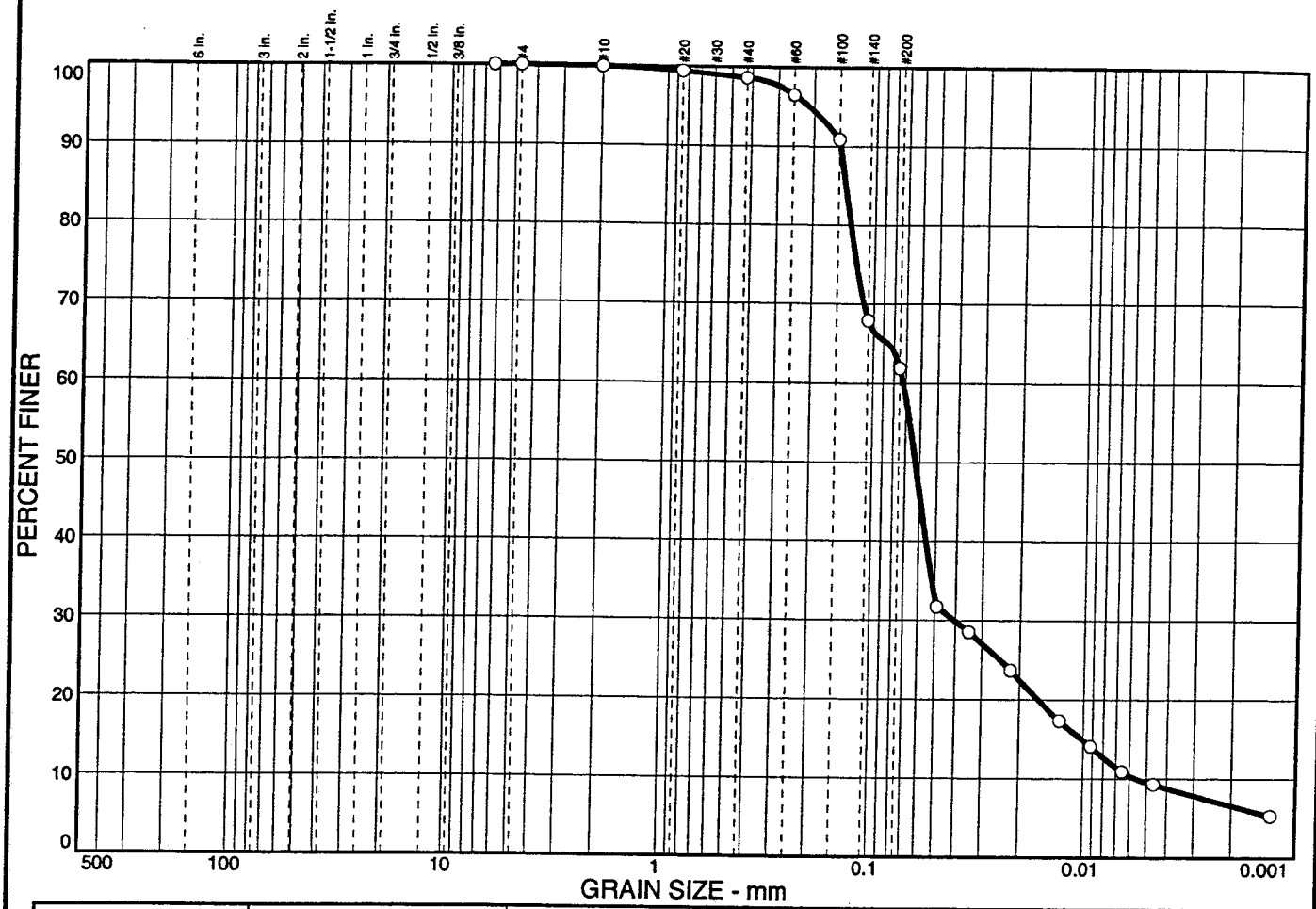
Sample No.: 023 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-10-CS-1.7-4.0 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

VJRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	38.1	52.3	9.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.9		
#20	99.4		
#40	98.6		
#60	96.5		
#100	90.9		
#140	67.9		
#200	61.9		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.140 D_{60}= 0.0722 D_{50}= 0.0628
D_{30}= 0.0405 D_{15}= 0.0101 D_{10}= 0.0056
C_u= 12.90 C_c= 4.07

Classification

USCS= AASHTO=

Remarks

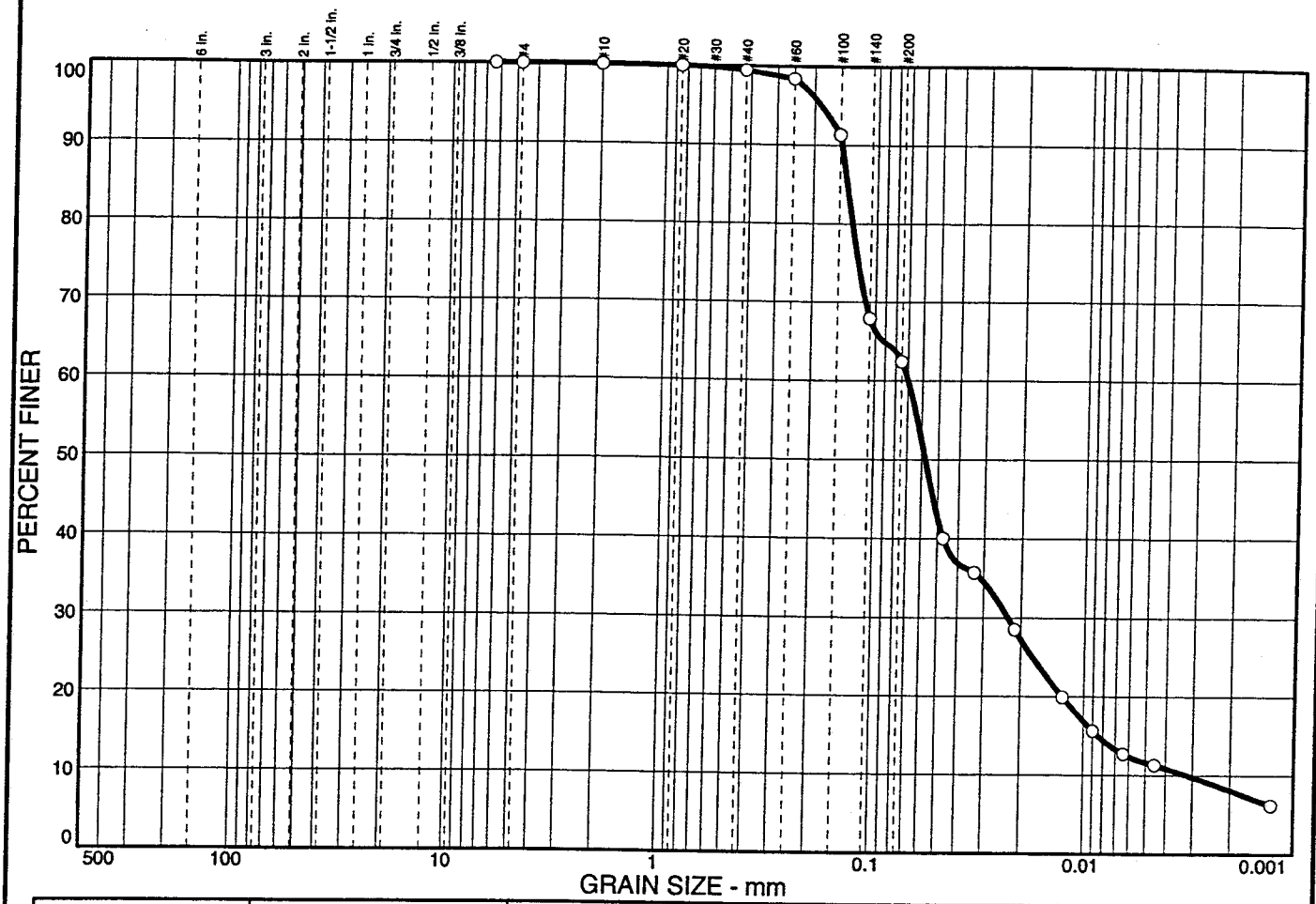
Sample No.: 026 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-10-CS-0.7-1.7 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

VTRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	37.6	50.8	11.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.9		
#40	99.4		
#60	98.4		
#100	91.3		
#140	67.9		
#200	62.4		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.139 D_{60}= 0.0699 D_{50}= 0.0576
D_{30}= 0.0232 D_{15}= 0.0085 D_{10}= 0.0032
C_u= 22.14 C_c= 2.43

Classification

USCS= AASHTO=

Remarks

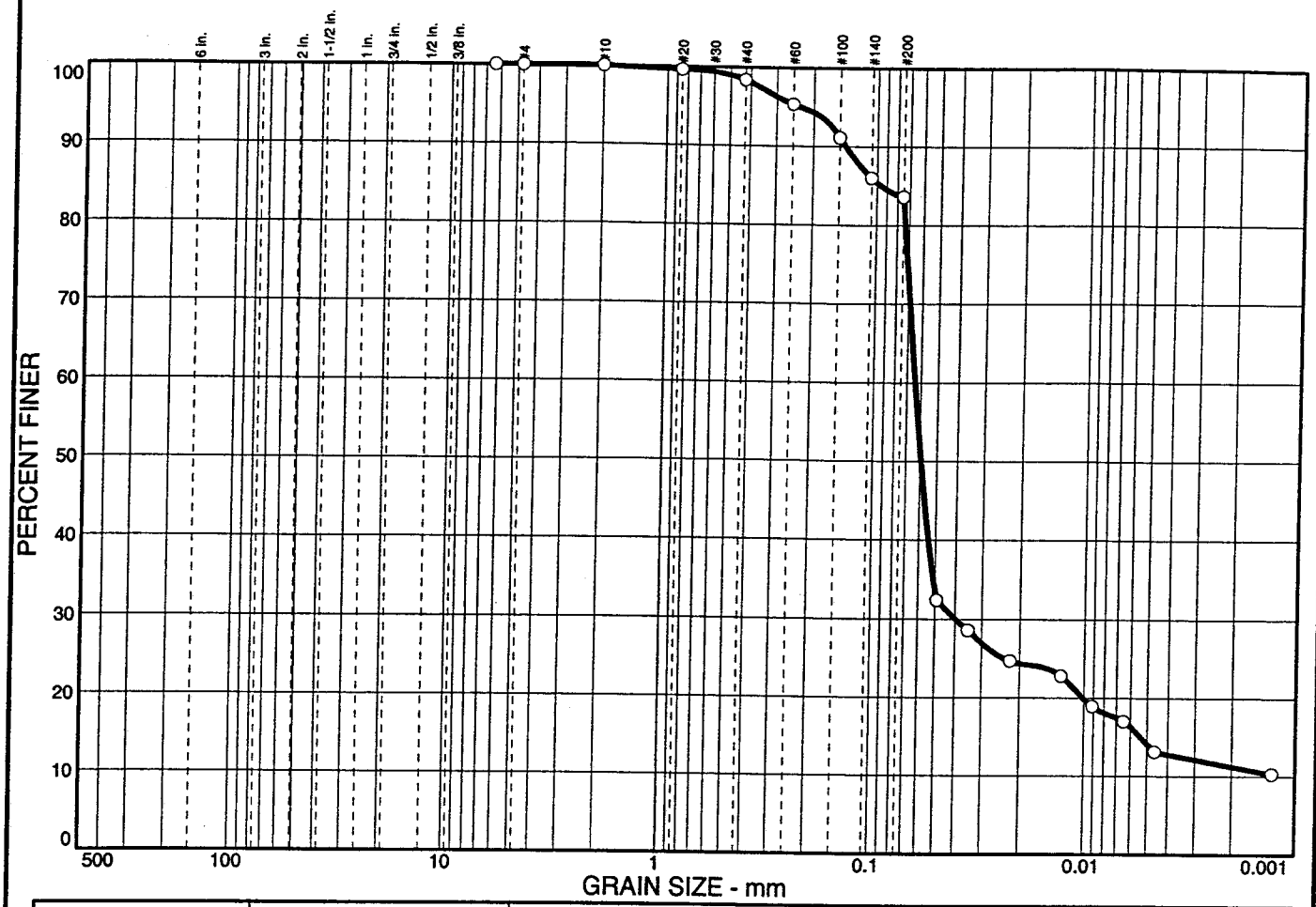
Sample No.: 028 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-13-CS-3.1-6.0 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

VJTRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	16.4	69.5	14.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.6		
#40	98.4		
#60	95.3		
#100	91.1		
#140	86.0		
#200	83.6		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.0956 D_{60}= 0.0640 D_{50}= 0.0593
D_{30}= 0.0398 D_{15}= 0.0054 D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

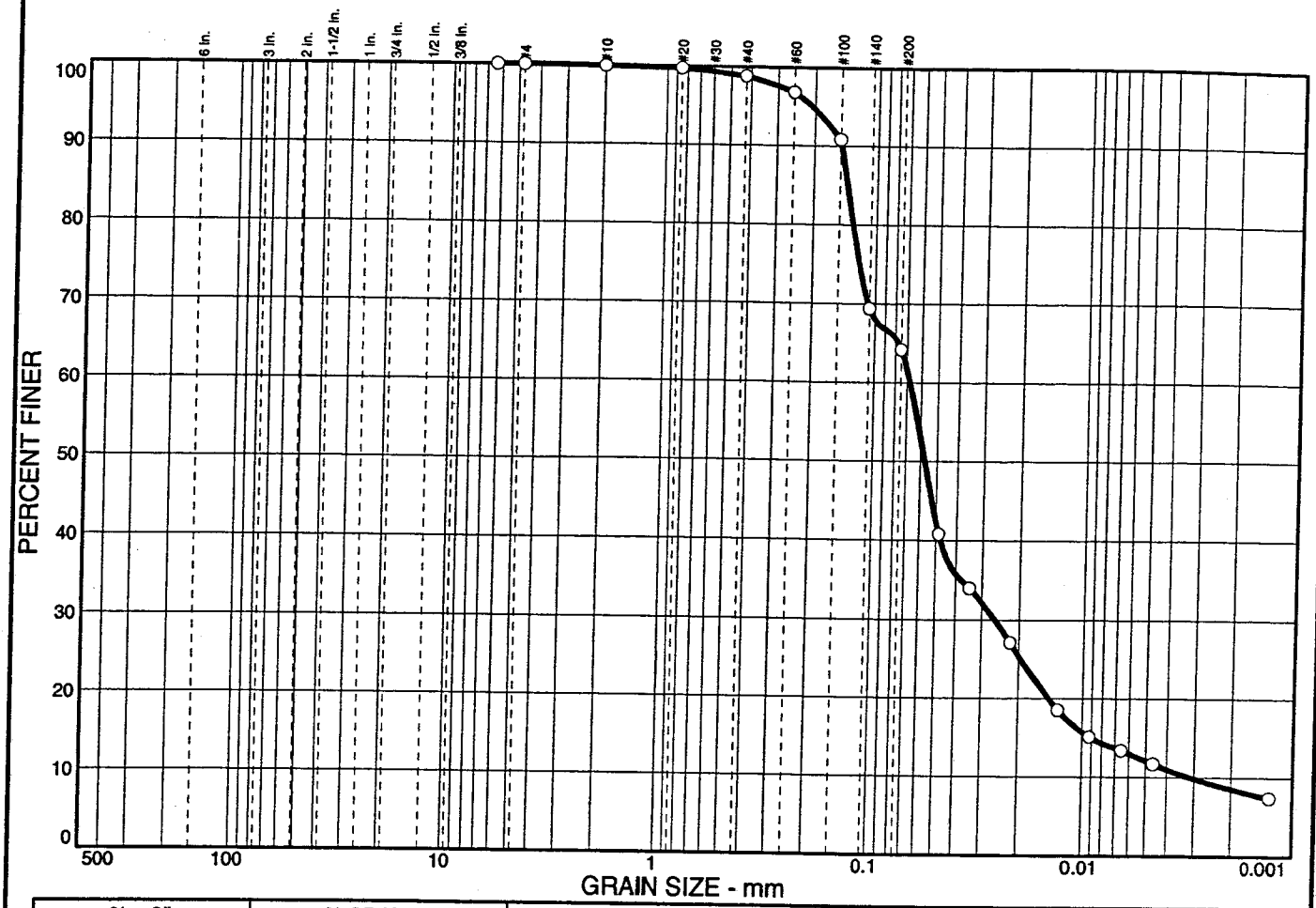
Remarks

Sample No.: 029 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-13-CS-1.0-3.1 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	35.8	52.1	12.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.9		
#20	99.7		
#40	98.8		
#60	96.8		
#100	90.8		
#140	69.4		
#200	64.2		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.139 D_{60}= 0.0678 D_{50}= 0.0572
D_{30}= 0.0262 D_{15}= 0.0091 D_{10}= 0.0031
C_u= 21.83 C_c= 3.27

Classification

USCS= AASHTO=

Remarks

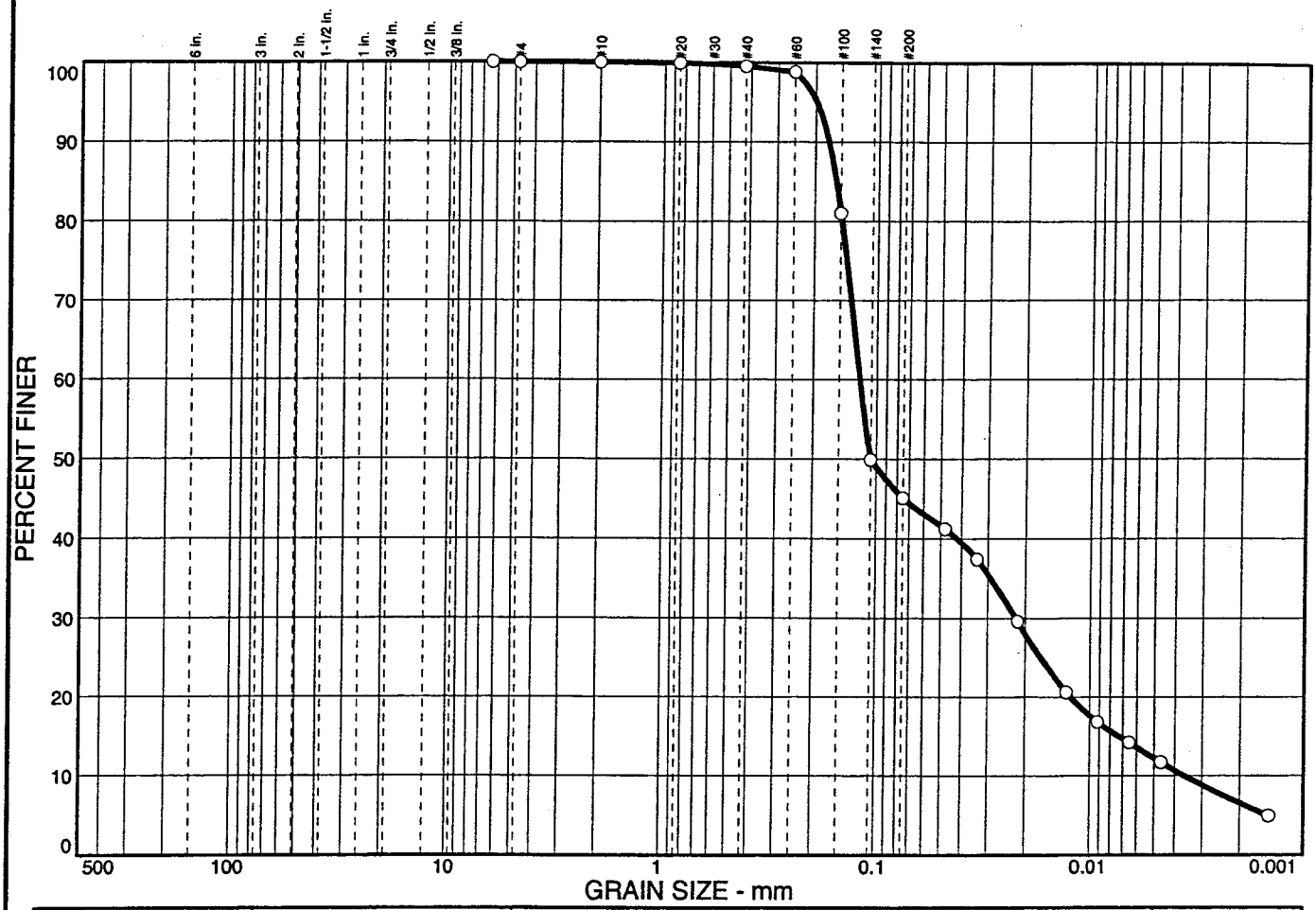
Sample No.: 030 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-20-CS-2.4-4.2 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

JORS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	54.9	32.8	12.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.9		
#40	99.5		
#60	98.8		
#100	81.0		
#140	49.9		
#200	45.1		

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.158 D_{60}= 0.121 D_{50}= 0.106
D_{30}= 0.0223 D_{15}= 0.0073 D_{10}= 0.0036
C_u= 33.49 C_c= 1.14

Classification

USCS= AASHTO=

Remarks

* (no specification provided)

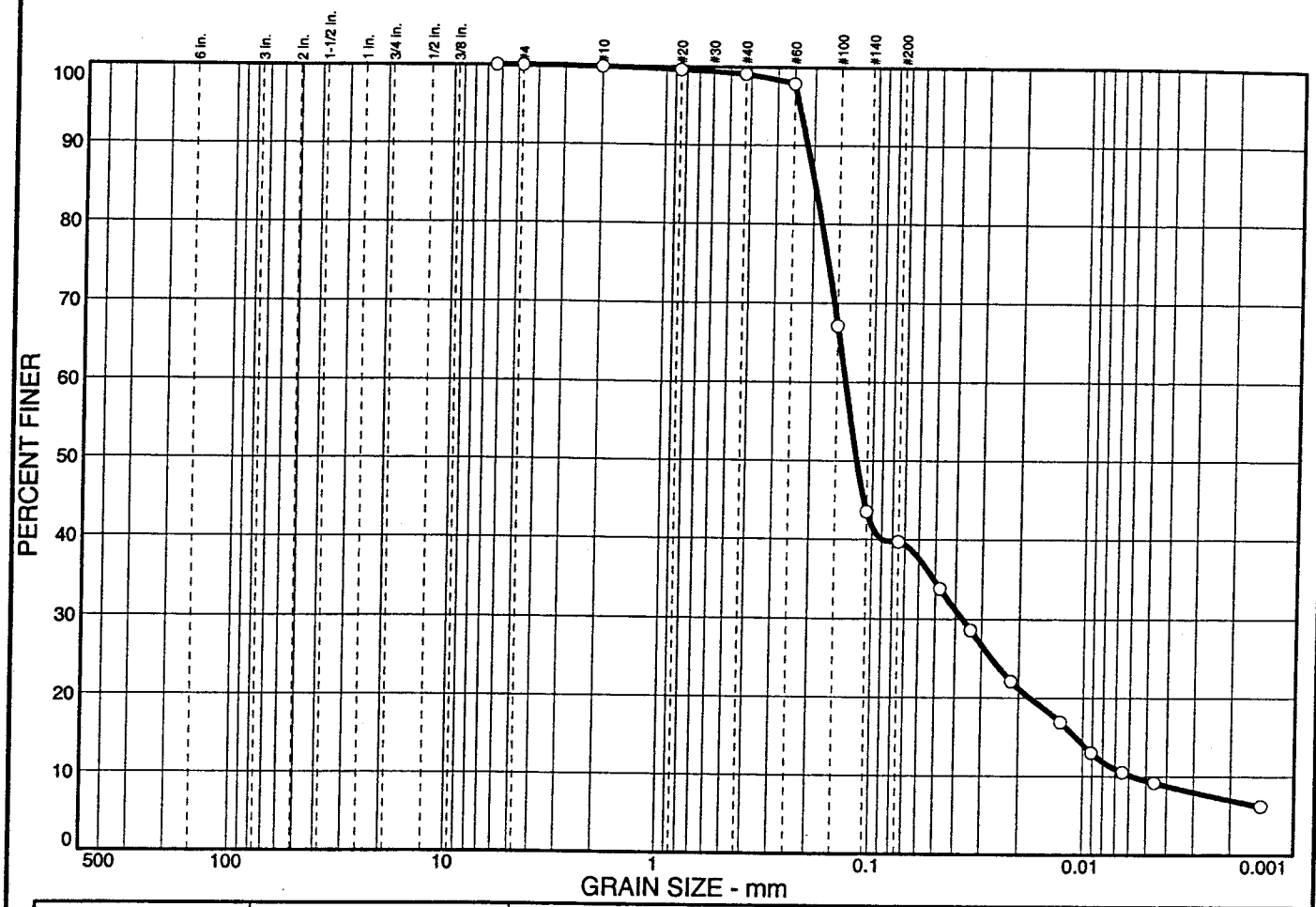
Sample No.: 032 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-20-CS-4.2-6.0 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

VJR5

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	60.3	30.2	9.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.9		
#20	99.6		
#40	99.1		
#60	97.9		
#100	67.1		
#140	43.5		
#200	39.7		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.197 D_{60}= 0.137 D_{50}= 0.119
D_{30}= 0.0371 D_{15}= 0.0108 D_{10}= 0.0058
C_u= 23.72 C_c= 1.75

Classification

USCS= AASHTO=

Remarks

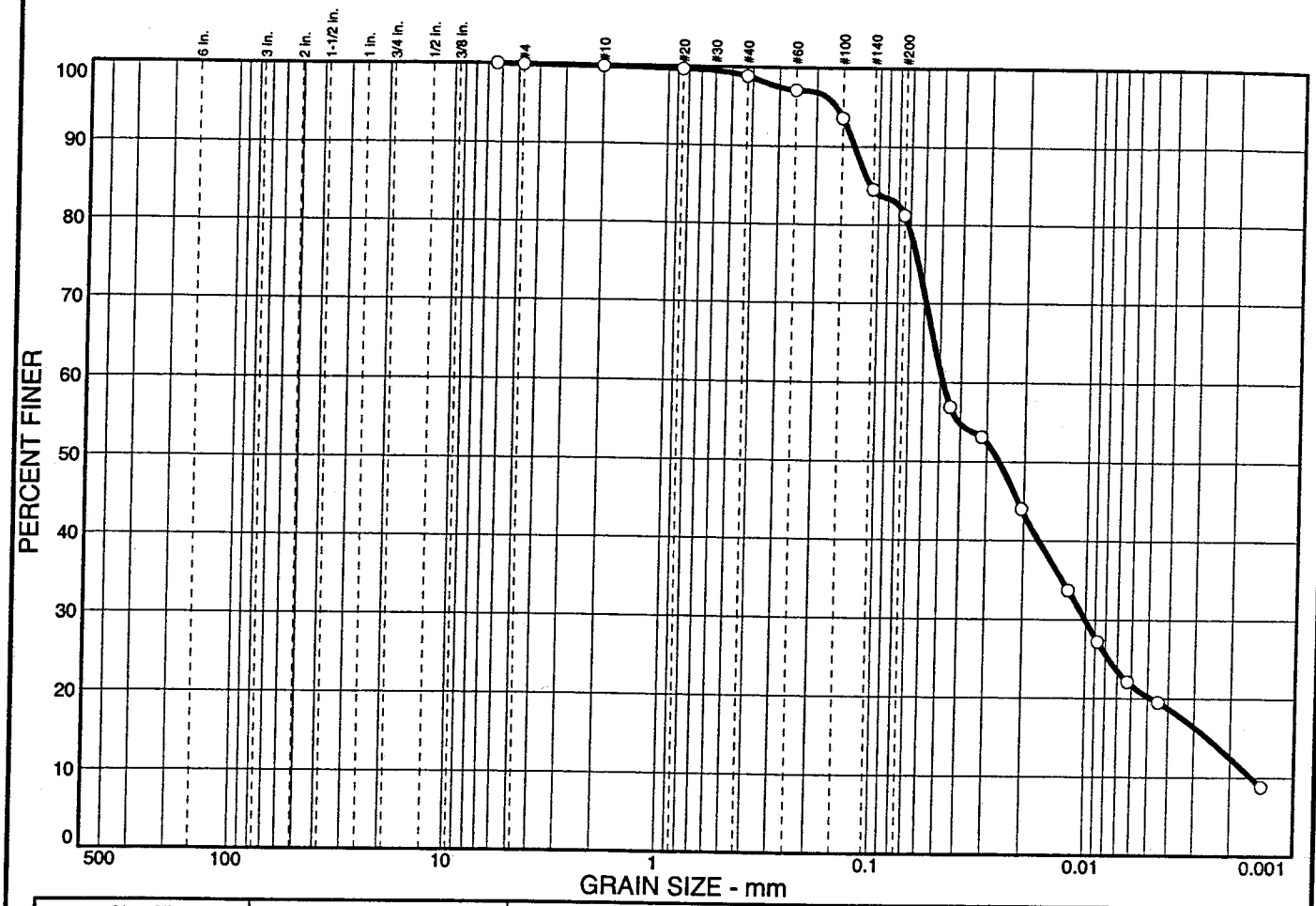
Sample No.: 034 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-15-CS-3.0-4.6 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

JTRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.1	18.7	61.0	20.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	99.9		
#10	99.8		
#20	99.6		
#40	98.8		
#60	97.1		
#100	93.6		
#140	84.5		
#200	81.2		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.109 D_{60}= 0.0483 D_{50}= 0.0264
D_{30}= 0.0101 D_{15}= 0.0026 D_{10}= 0.0016
C_u= 30.52 C_c= 1.34

Classification

USCS= AASHTO=

Remarks

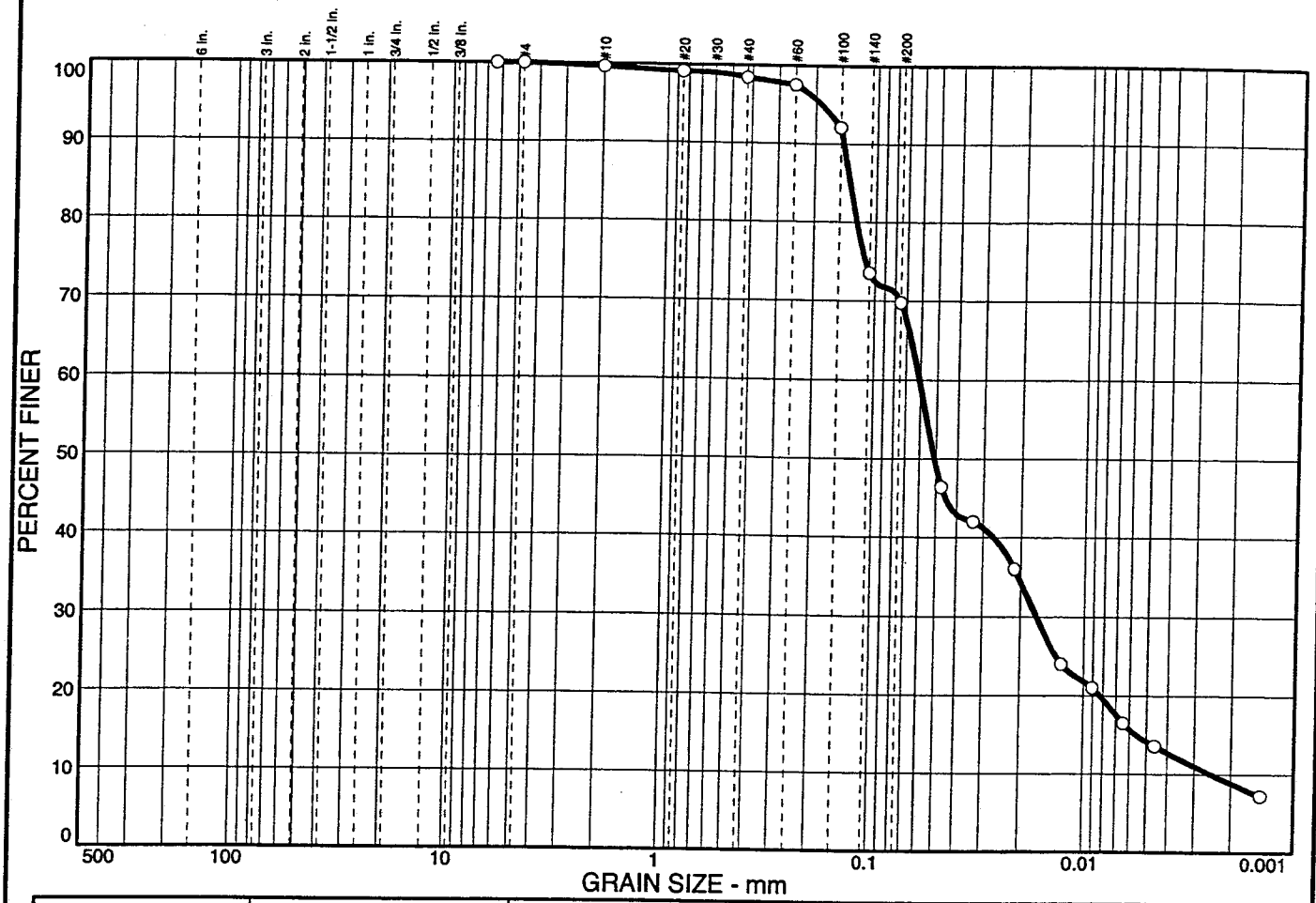
Sample No.: 035 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-25-CS-1.2-3.0 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

VJRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	30.2	55.6	14.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.6		
#20	99.1		
#40	98.4		
#60	97.5		
#100	92.1		
#140	73.5		
#200	69.8		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.135 D_{60}= 0.0608 D_{50}= 0.0510
D_{30}= 0.0169 D_{15}= 0.0056 D_{10}= 0.0025
C_u= 24.58 C_c= 1.90

Classification

USCS= AASHTO=

Remarks

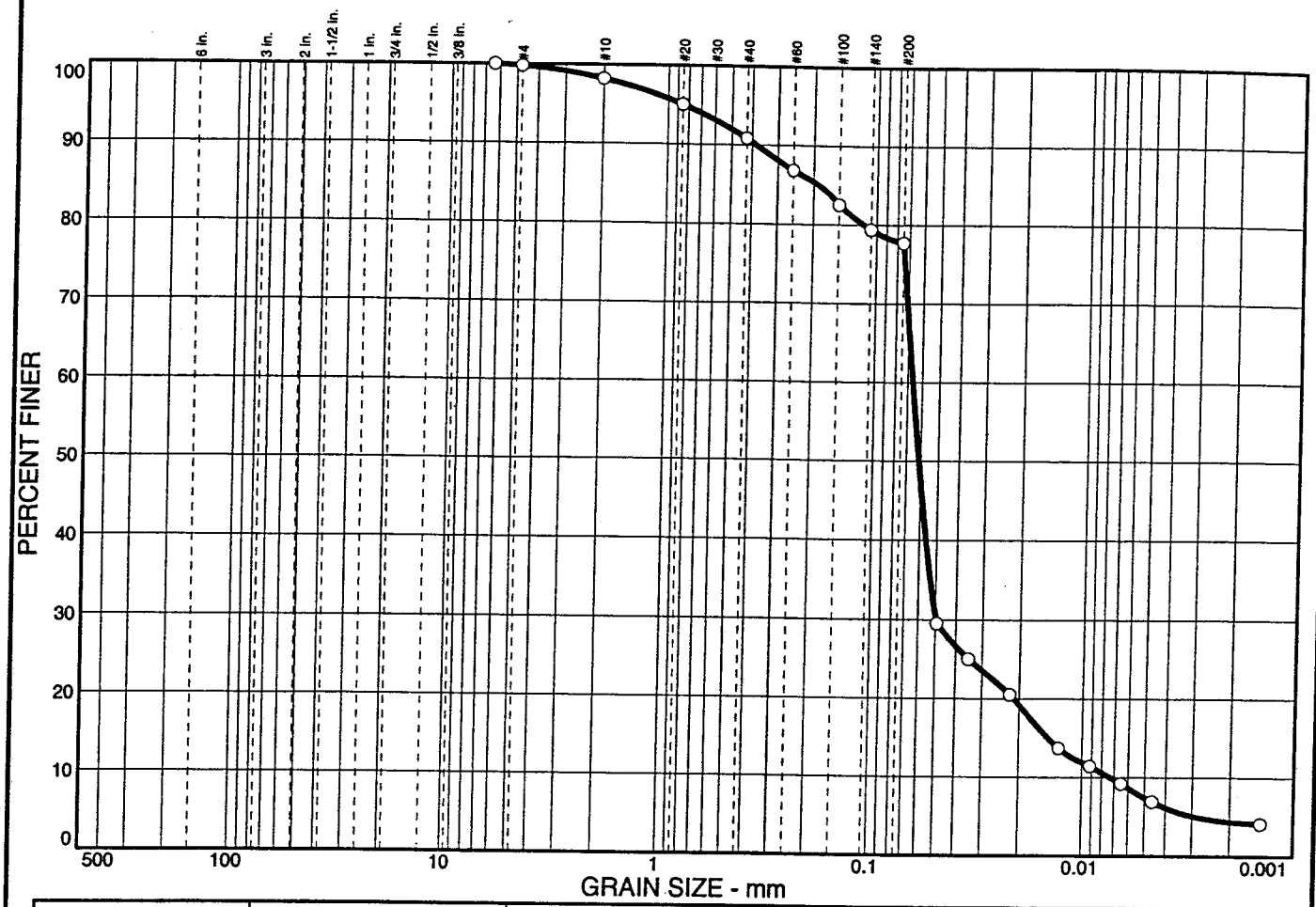
Sample No.: 037 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-12-CS-2.3-5.3 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

VJRS ✓ [illegible]

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.2	22.1	70.3	7.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	99.8		
#10	98.2		
#20	95.0		
#40	90.8		
#60	86.8		
#100	82.5		
#140	79.4		
#200	77.7		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.189 D_{60}= 0.0661 D_{50}= 0.0612
D_{30}= 0.0495 D_{15}= 0.0146 D_{10}= 0.0073
C_u= 9.05 C_c= 5.07

Classification

USCS= AASHTO=

Remarks

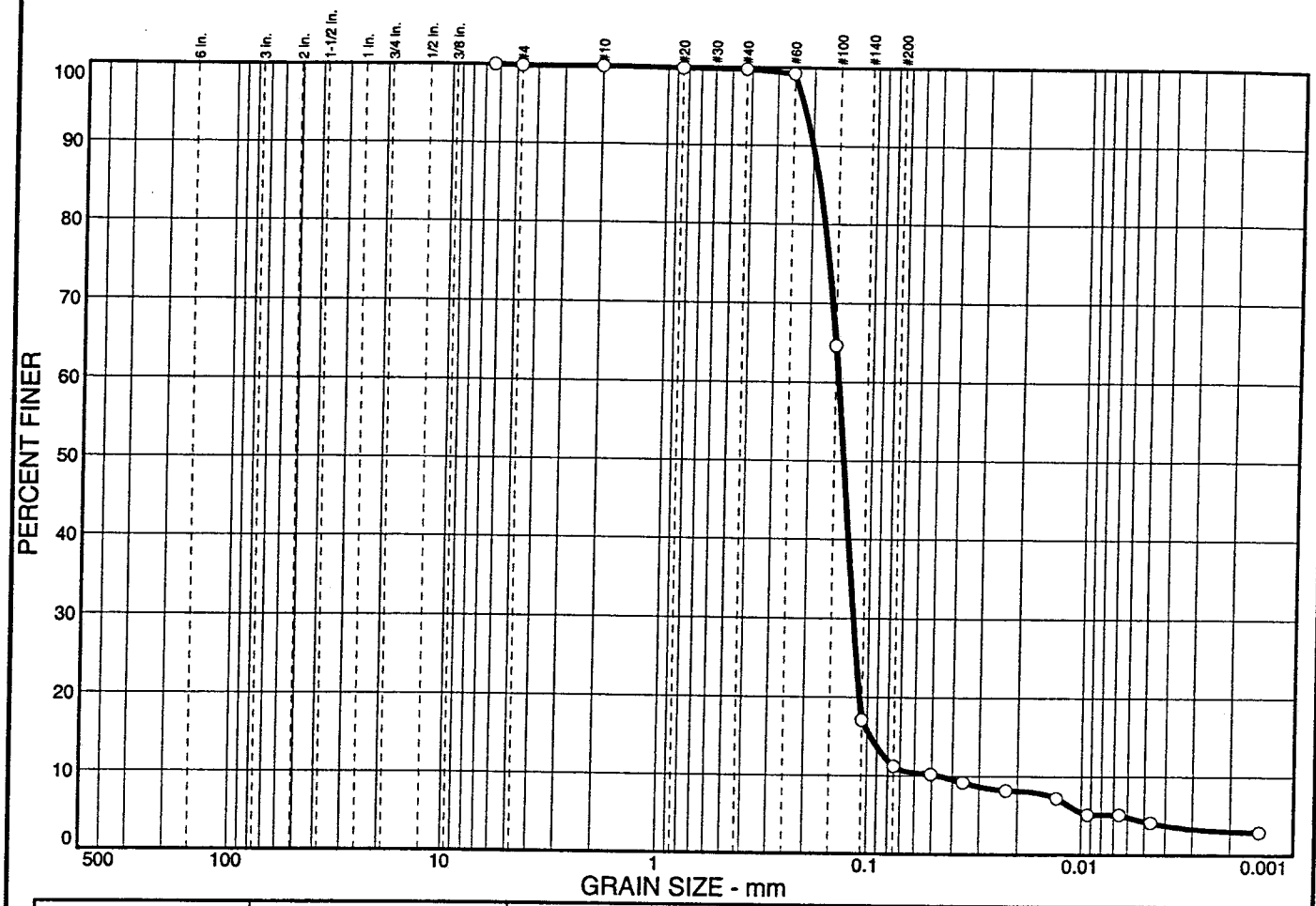
Sample No.: 038 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-12-CS-1.1-1.9 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

JJTB

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.1	88.7	6.9	4.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	99.9		
#10	99.9		
#20	99.8		
#40	99.7		
#60	99.2		
#100	64.6		
#140	17.1		
#200	11.2		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.185 D_{60}= 0.145 D_{50}= 0.136
D_{30}= 0.119 D_{15}= 0.0963 D_{10}= 0.0459
C_u= 3.16 C_c= 2.12

Classification

USCS= AASHTO=

Remarks

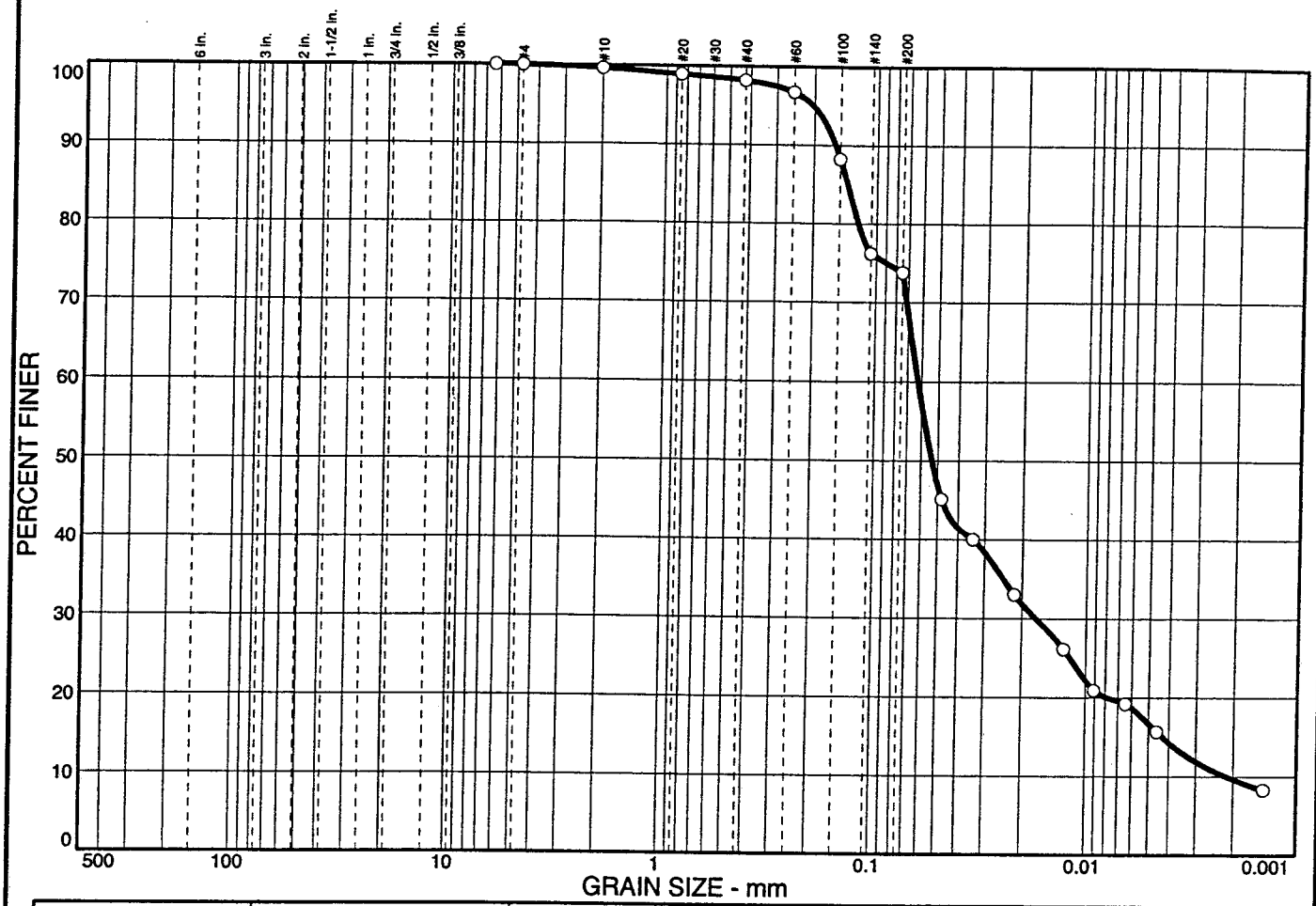
Sample No.: 040 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-04-CS-2.7-4.8 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

VTRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	26.2	57.1	16.7

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.6		
#20	98.9		
#40	98.2		
#60	96.7		
#100	88.2		
#140	76.2		
#200	73.8		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.138 D_{60}= 0.0625 D_{50}= 0.0533
D_{30}= 0.0173 D_{15}= 0.0043 D_{10}= 0.0021
C_u= 29.18 C_c= 2.23

Classification

USCS= AASHTO=

Remarks

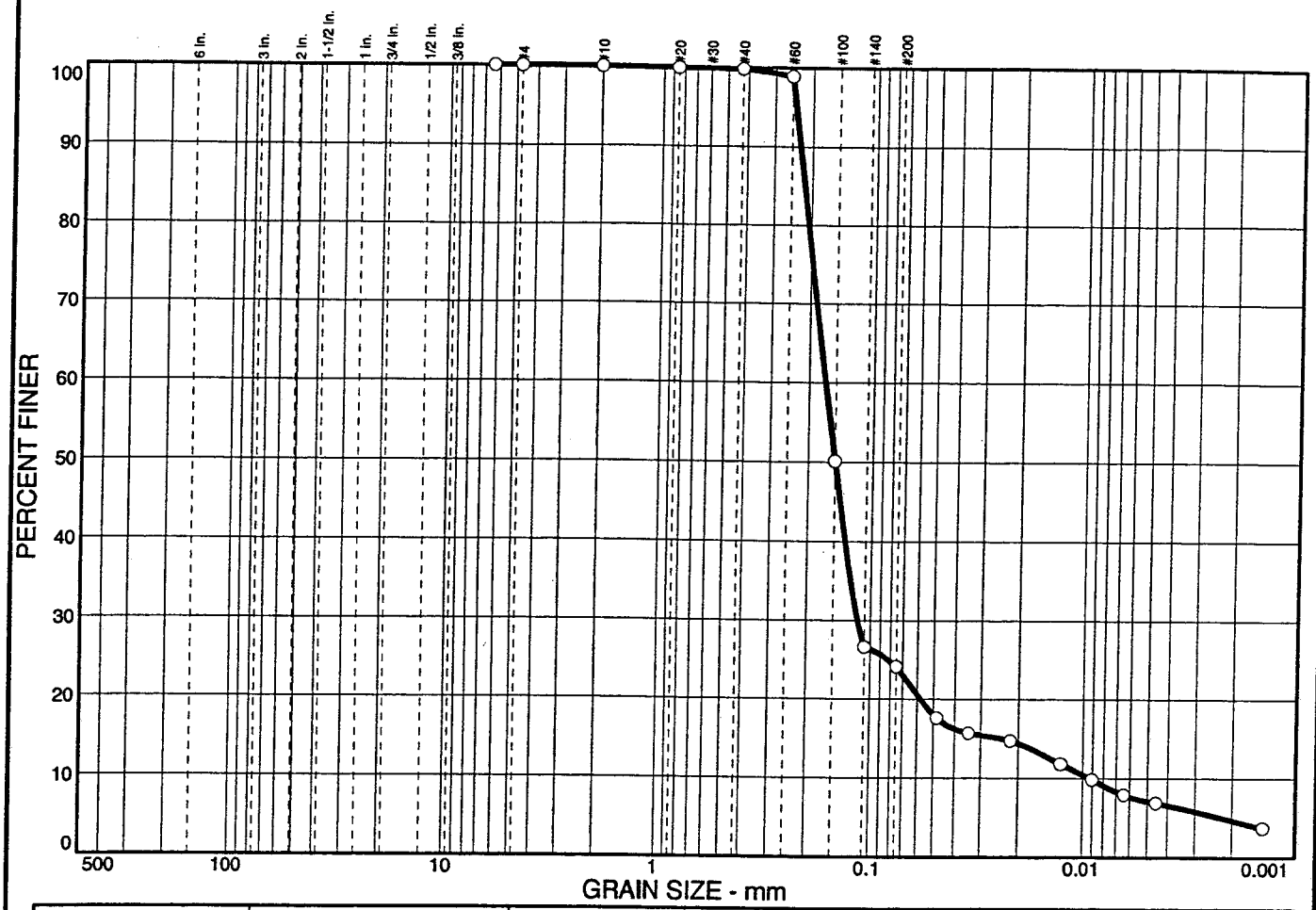
Sample No.: 041 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-04-CS-0.5-2.7 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

VTRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	75.9	17.0	7.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.9		
#40	99.8		
#60	98.9		
#100	50.1		
#140	26.6		
#200	24.1		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.217 D_{60}= 0.167 D_{50}= 0.150
D_{30}= 0.115 D_{15}= 0.0241 D_{10}= 0.0093
C_u= 17.96 C_c= 8.44

Classification

USCS= AASHTO=

Remarks

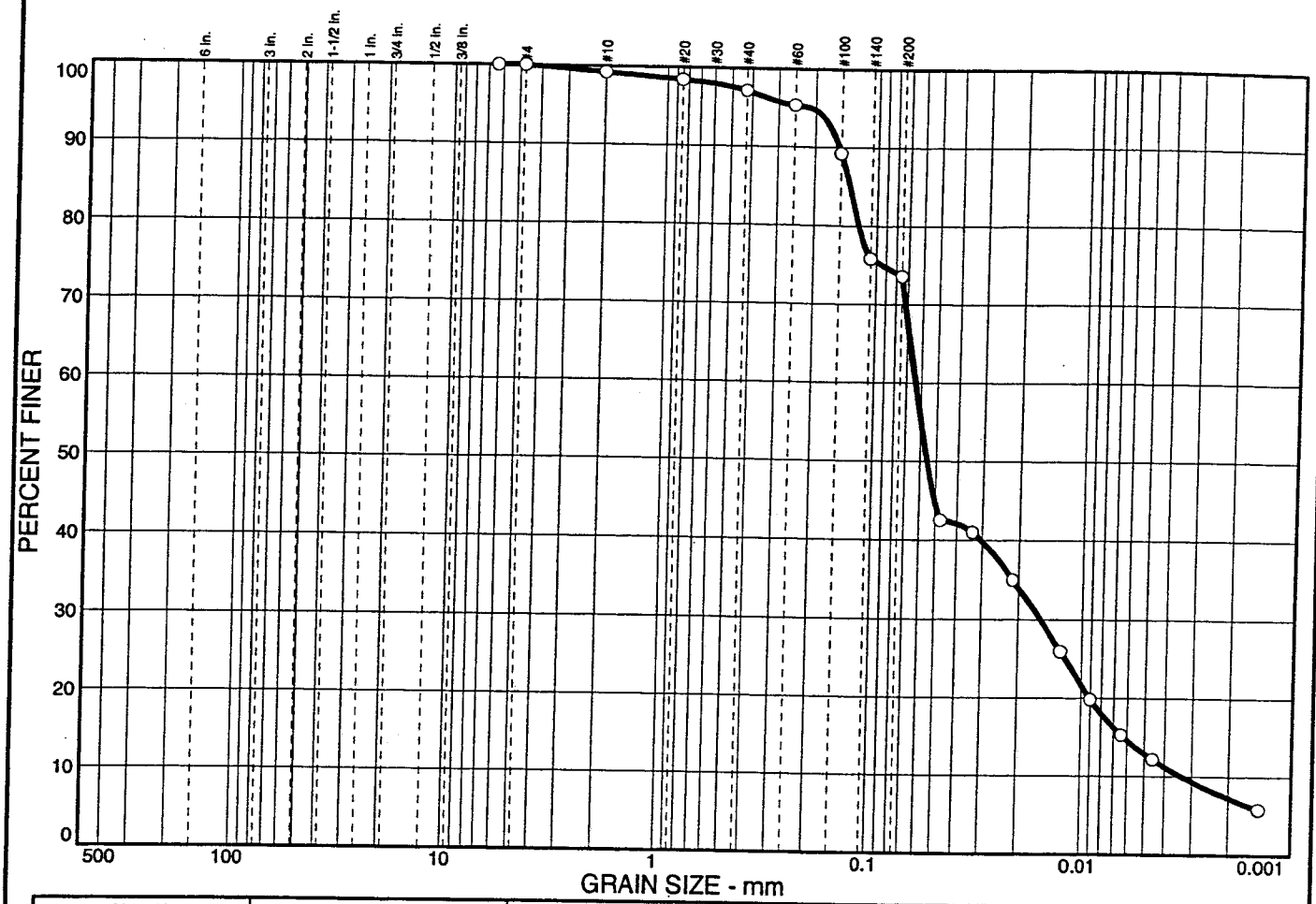
Sample No.: 042 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-05-CS-3.3-5.9 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

MRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	26.4	60.7	12.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.2		
#20	98.4		
#40	97.1		
#60	95.3		
#100	89.2		
#140	75.8		
#200	73.6		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.136 D_{60}= 0.0638 D_{50}= 0.0555
D_{30}= 0.0158 D_{15}= 0.0062 D_{10}= 0.0033
C_u= 19.20 C_c= 1.18

Classification

USCS= AASHTO=

Remarks

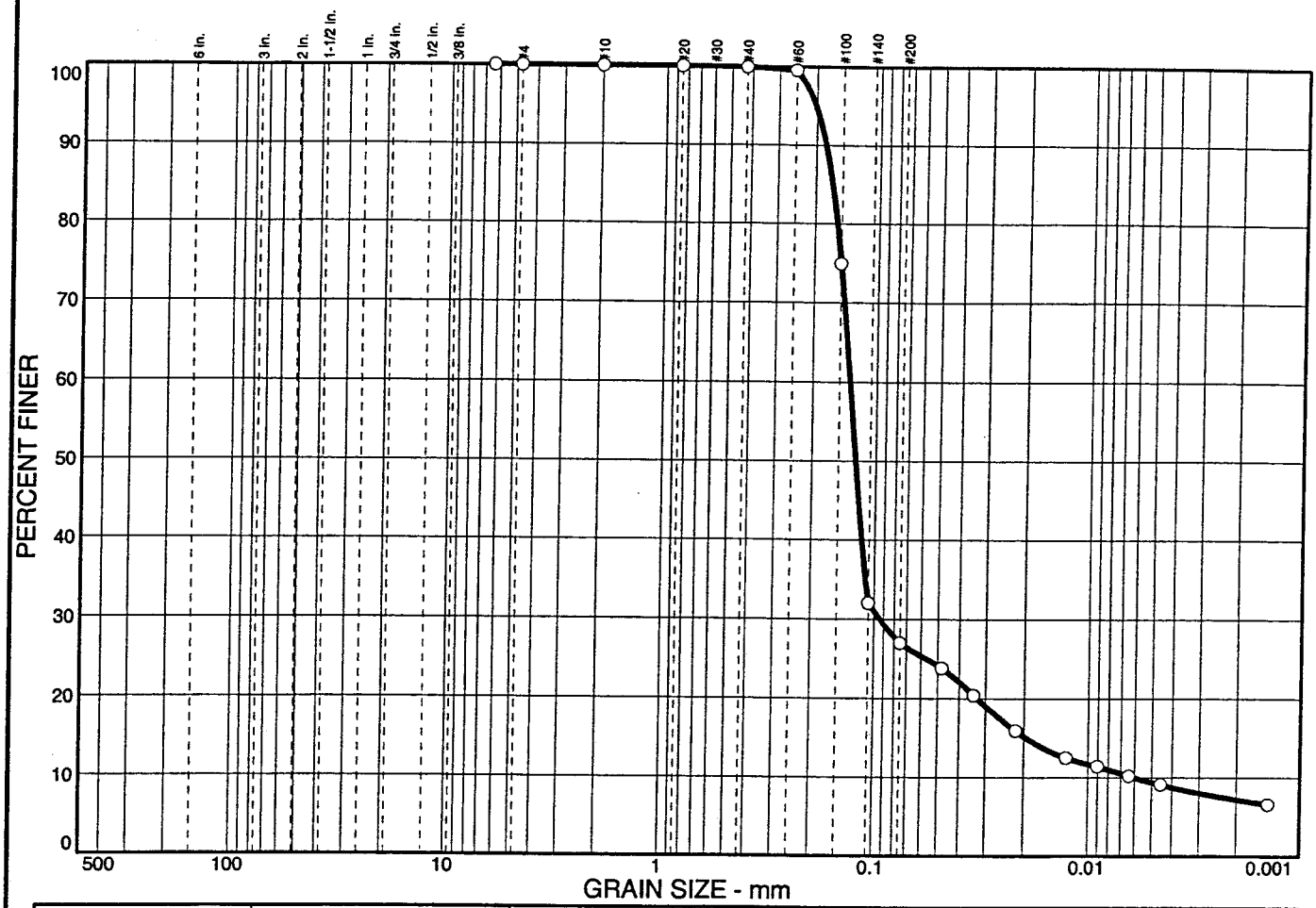
Sample No.: 043 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-05-CS-0.7-3.3 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

VORS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	73.0	17.6	9.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	100.0		
#40	99.9		
#60	99.5		
#100	74.9		
#140	32.0		
#200	27.0		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.167 D_{60}= 0.134 D_{50}= 0.124
D_{30}= 0.0939 D_{15}= 0.0195 D_{10}= 0.0060
C_u= 22.17 C_c= 10.94

Classification

USCS= AASHTO=

Remarks

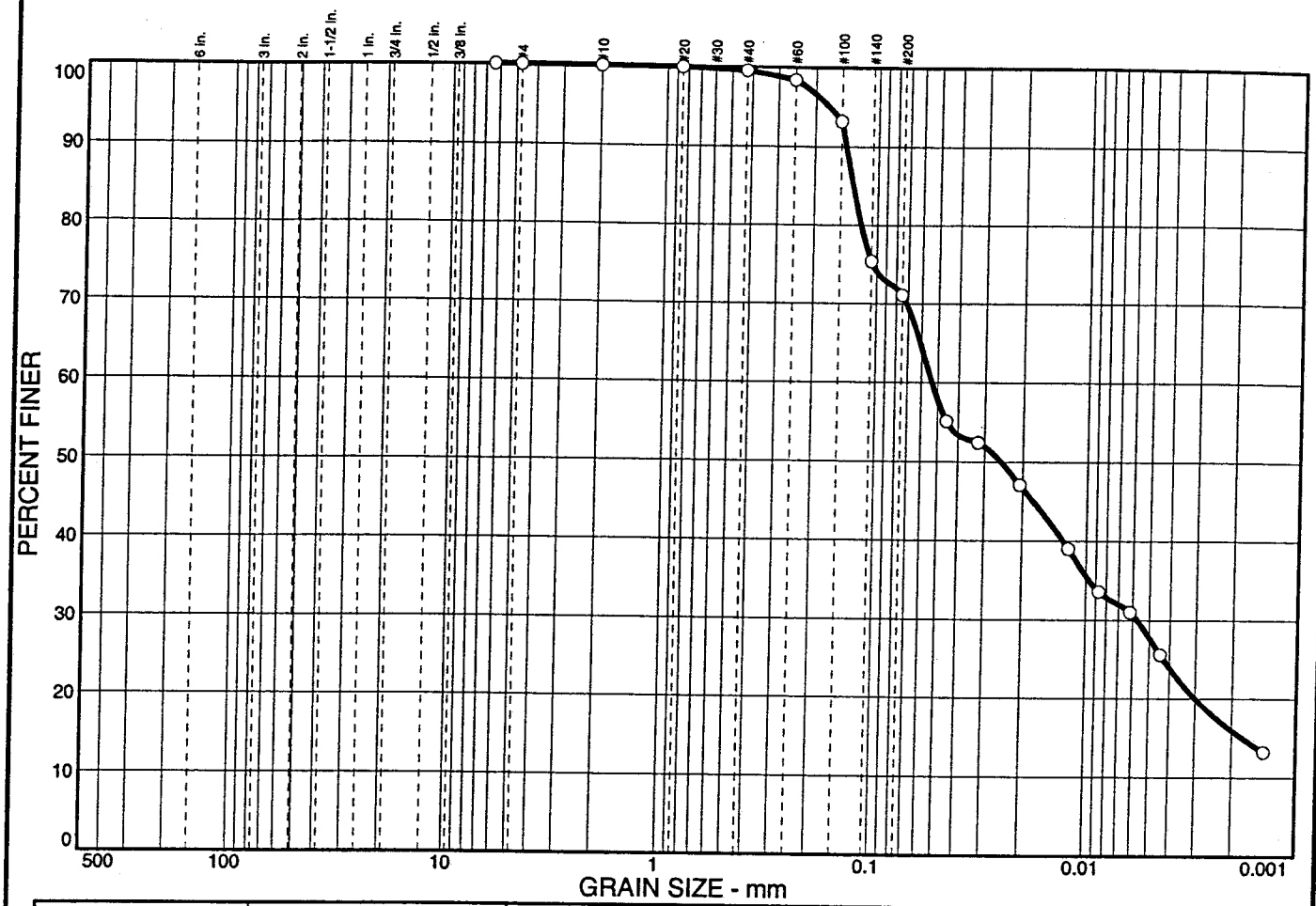
Sample No.: 045 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-02-CS-2.7-5.2 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

JTRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	28.9	43.3	27.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.9		
#40	99.5		
#60	98.4		
#100	93.2		
#140	75.4		
#200	71.1		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.131 D_{60}= 0.0533 D_{50}= 0.0252
D_{30}= 0.0057 D_{15}= 0.0018 D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

Remarks

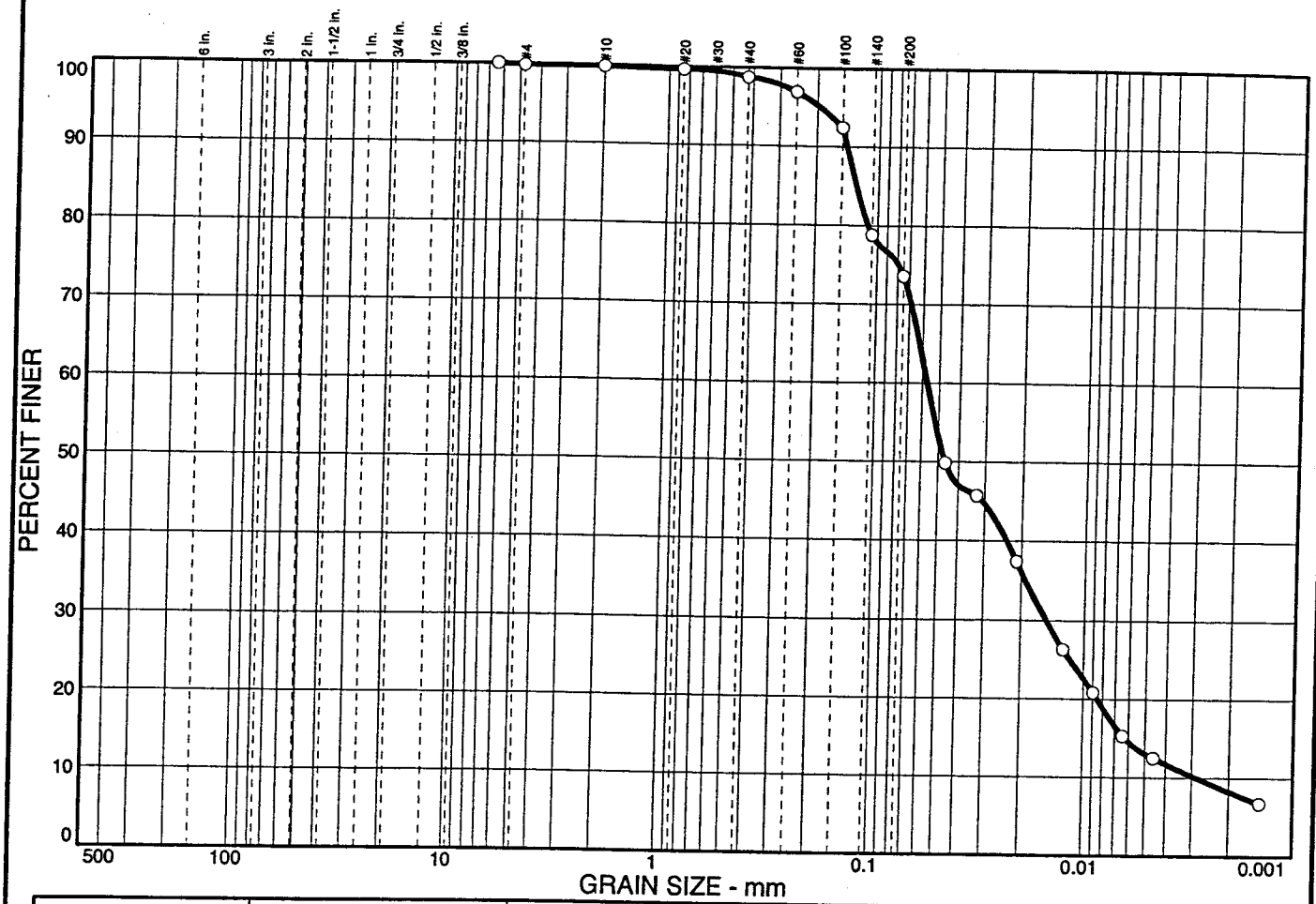
Sample No.: 046 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-02-CS-0.8-2.7 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

VOBS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.2	26.2	60.5	13.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	99.8		
#10	99.8		
#20	99.6		
#40	98.7		
#60	96.9		
#100	92.4		
#140	78.8		
#200	73.6		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.128 D_{60}= 0.0569 D_{50}= 0.0463
D_{30}= 0.0152 D_{15}= 0.0063 D_{10}= 0.0029
C_u= 19.92 C_c= 1.42

Classification

USCS= AASHTO=

Remarks

Sample No.: 047 **Source of Sample:** 920866 **Date:** 4/2/02
Location: FW-RM-19-CS-2.0-4.0 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

✓ HJW

GRAIN SIZE DISTRIBUTION TEST REPORT

% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	15.1	68.7	16.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.7		
#20	98.7		
#40	96.8		
#60	94.2		
#100	91.2		
#140	87.1		
#200	84.9		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.0770 D_{60}= 0.0577 D_{50}= 0.0495
D_{30}= 0.0172 D_{15}= 0.0039 D_{10}= 0.0020
C_u= 29.38 C_c= 2.62

Classification

USCS= AASHTO=

Remarks

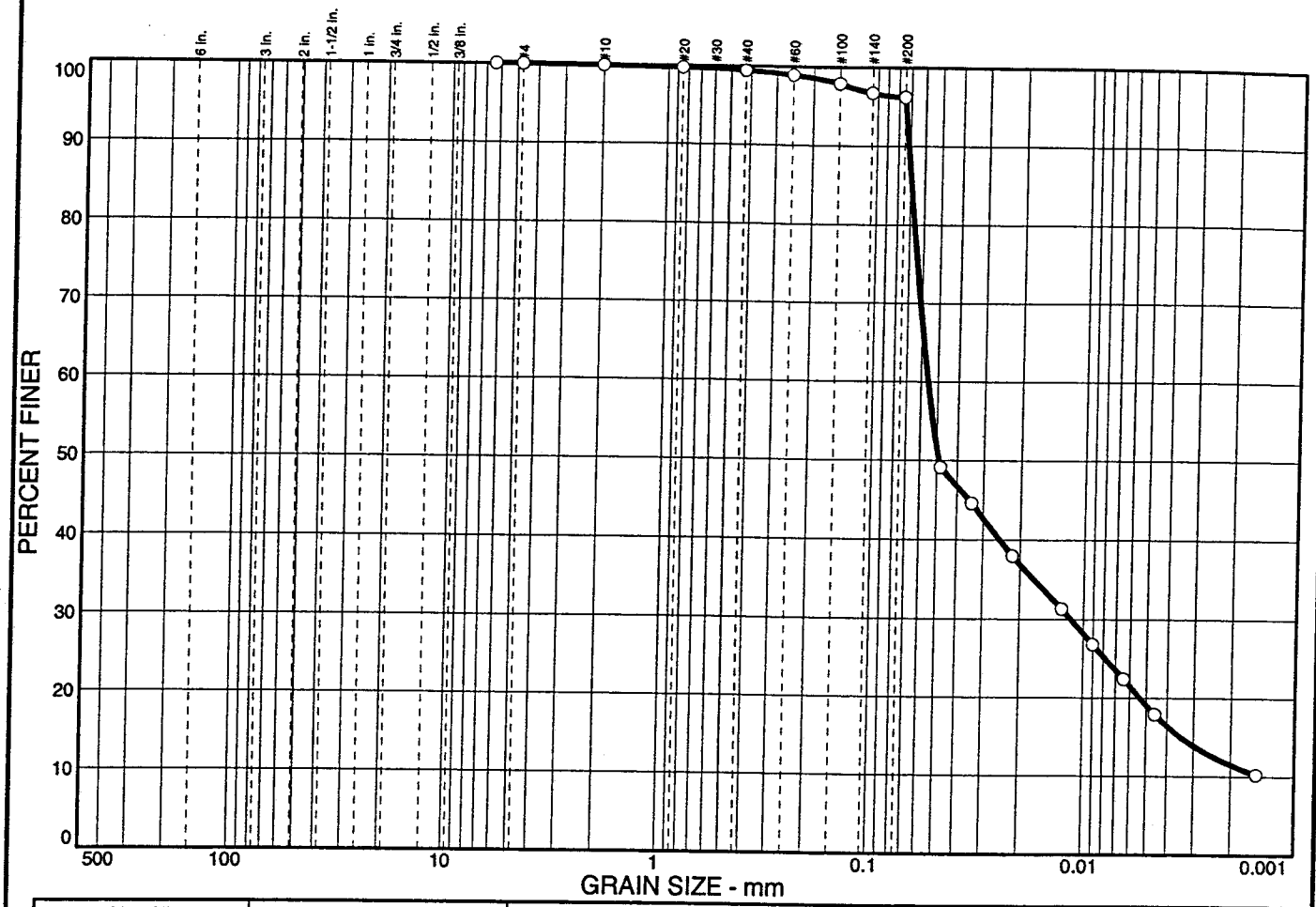
Sample No.: 049 **Source of Sample:** 920866 **Date:** 4/3/02
Location: FW-RM-19-CS-0.7-2.0 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

✓ HJW

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	3.8	77.1	19.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.9		
#20	99.7		
#40	99.4		
#60	98.9		
#100	97.9		
#140	96.7		
#200	96.2		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.0689 D_{60}= 0.0555 D_{50}= 0.0487
D_{30}= 0.0115 D_{15}= 0.0034 D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

Remarks

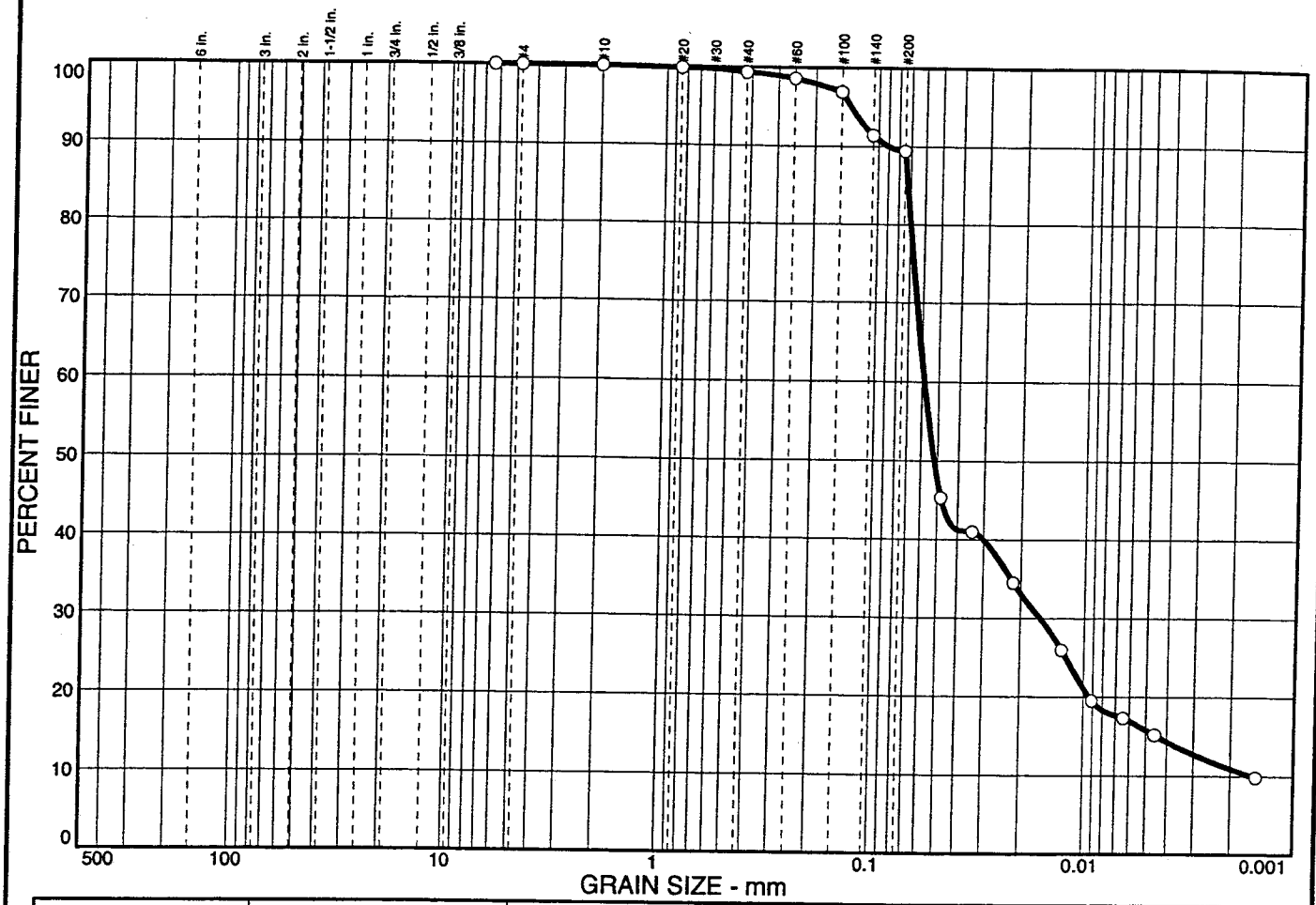
Sample No.: 050 **Source of Sample:** 920866 **Date:** 4/3/02
Location: FW-RM-18-CS-0.7-2.3 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

JTRS JPN

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	10.6	73.6	15.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.8		
#40	99.3		
#60	98.6		
#100	96.9		
#140	91.4		
#200	89.4		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.0725 D_{60}= 0.0583 D_{50}= 0.0519
D_{30}= 0.0163 D_{15}= 0.0044 D_{10}= 0.0016
C_u= 36.90 C_c= 2.87

Classification

USCS= AASHTO=

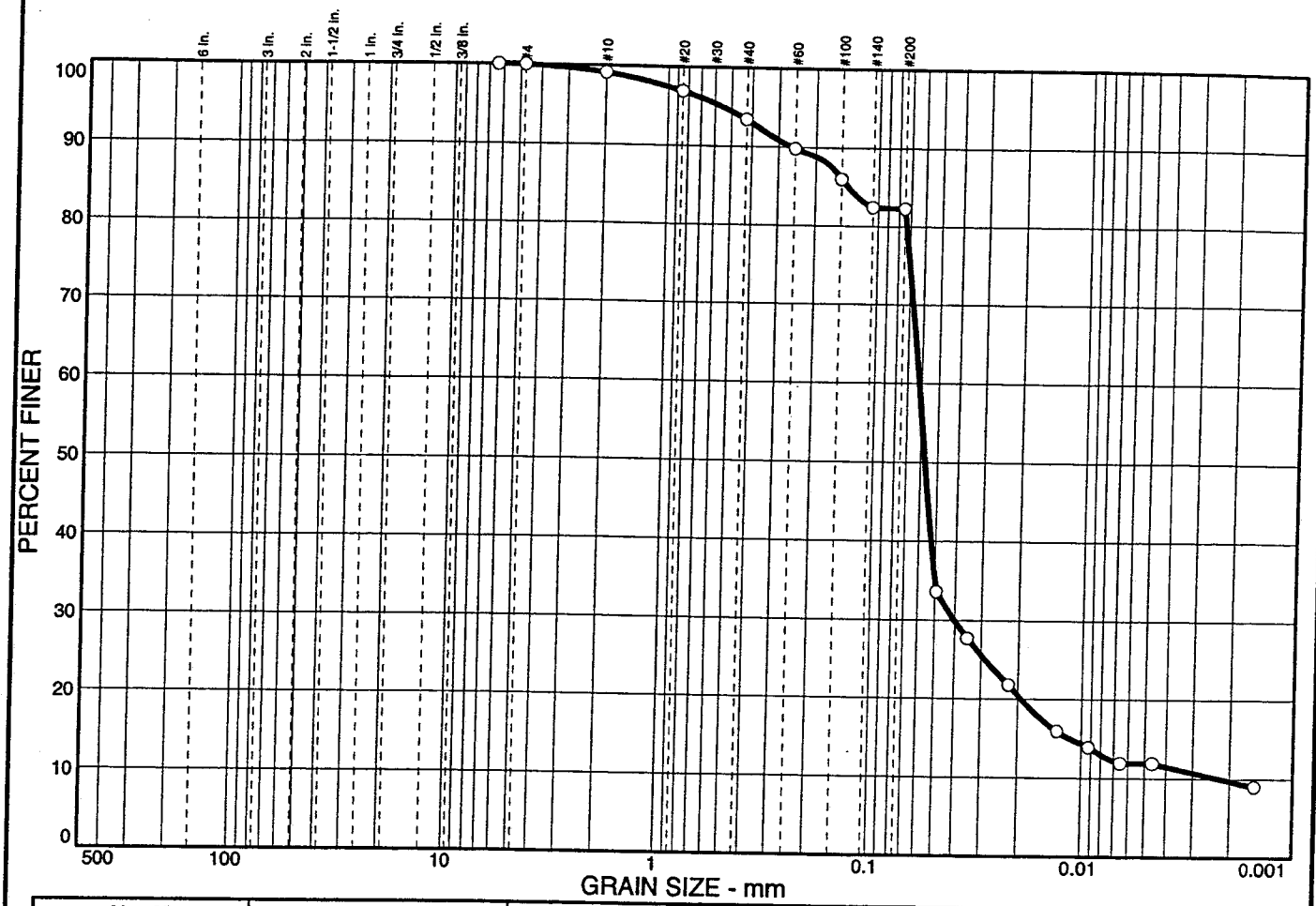
Remarks

Sample No.: 051 **Source of Sample:** 920866 **Date:** 4/3/02
Location: FW-RM-18-CS-2.3-4.3 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	17.7	70.4	11.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.1		
#20	96.9		
#40	93.4		
#60	89.8		
#100	86.0		
#140	82.4		
#200	82.3		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.140 D_{60}= 0.0617 D_{50}= 0.0571
D_{30}= 0.0403 D_{15}= 0.0113 D_{10}= 0.0022
C_u= 27.67 C_c= 11.78

Classification

USCS= AASHTO=

Remarks

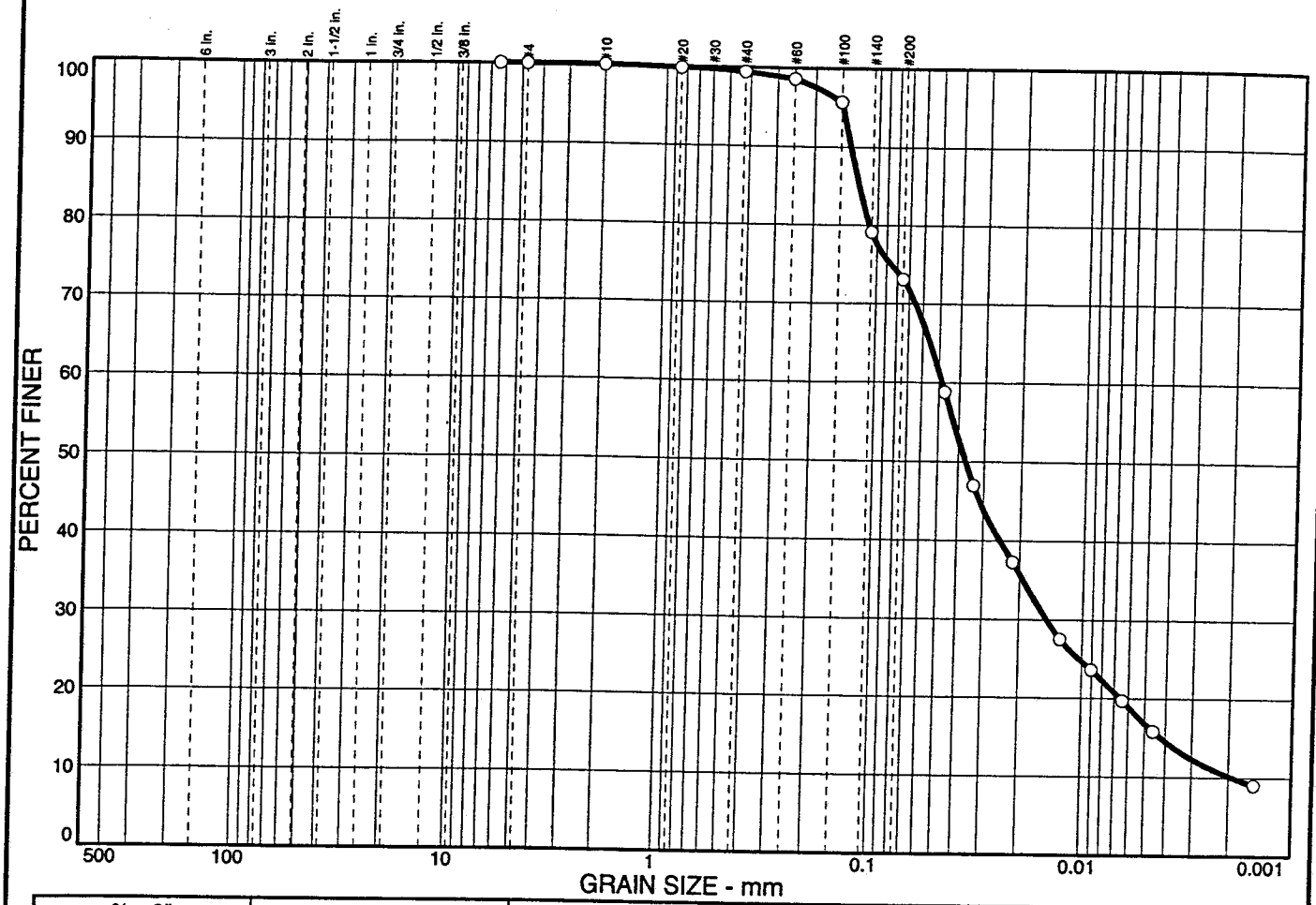
Sample No.: 053 **Source of Sample:** 920866 **Date:** 4/3/02
Location: FW-RM-16-CS-0.7-2.0 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

✓ HJW ✓ MH

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	26.9	56.3	16.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.8		
#40	99.4		
#60	98.6		
#100	95.7		
#140	79.1		
#200	73.1		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.123 D_{60}= 0.0482 D_{50}= 0.0369
D_{30}= 0.0148 D_{15}= 0.0042 D_{10}= 0.0019
C_u= 25.21 C_c= 2.37

Classification

USCS= AASHTO=

Remarks

Sample No.: 054 **Source of Sample:** 920866 **Date:** 4/3/02
Location: FW-RM-16-CS-2.0-3.5 **Elev./Depth:**

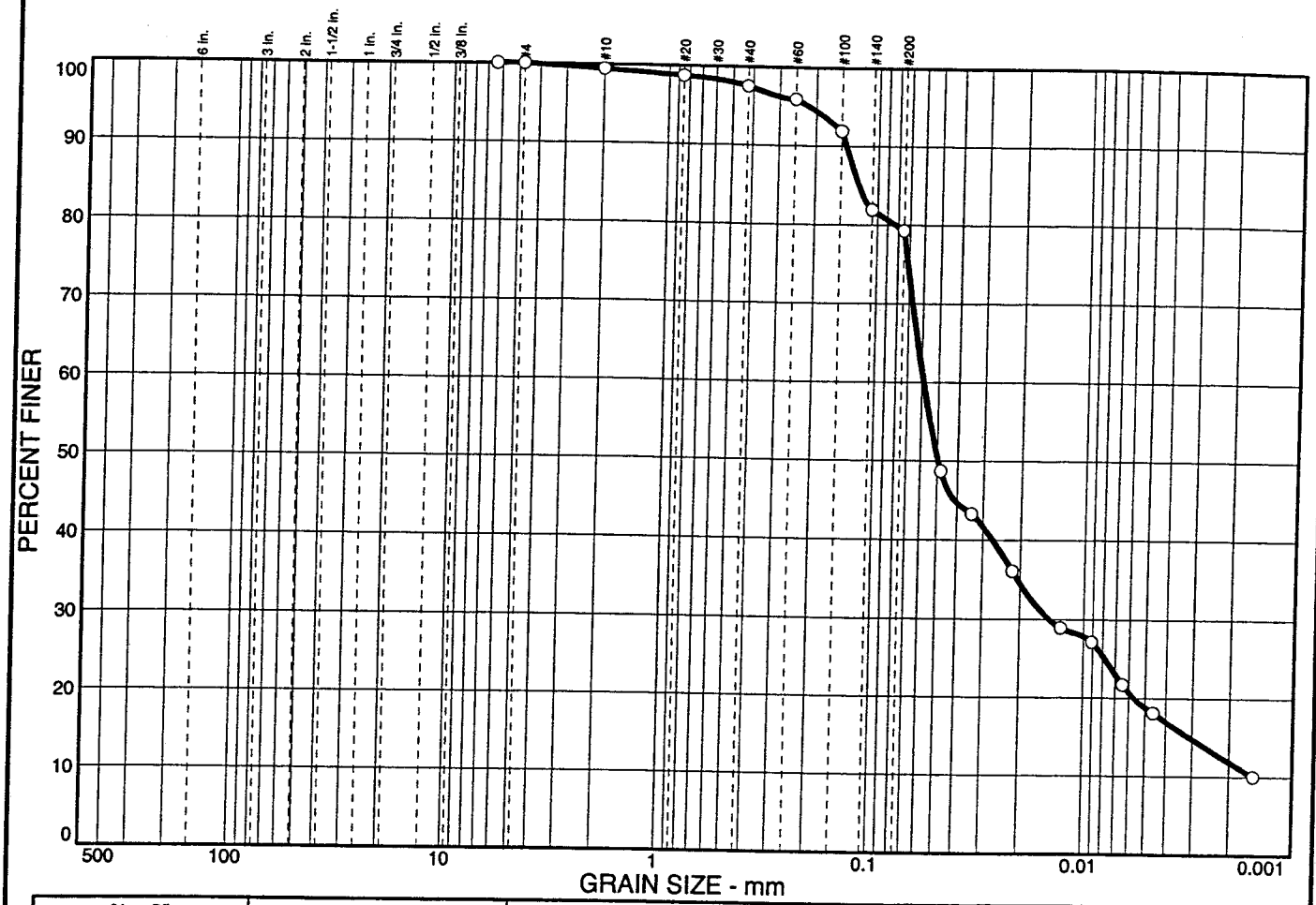
RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

✓ HJW

✓ JMK

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	20.7	60.5	18.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.4		
#20	98.7		
#40	97.5		
#60	95.9		
#100	91.9		
#140	81.9		
#200	79.3		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.124 D_{60}= 0.0588 D_{50}= 0.0495
D_{30}= 0.0146 D_{15}= 0.0031 D_{10}= 0.0015
C_u= 38.56 C_c= 2.38

Classification

USCS= AASHTO=

Remarks

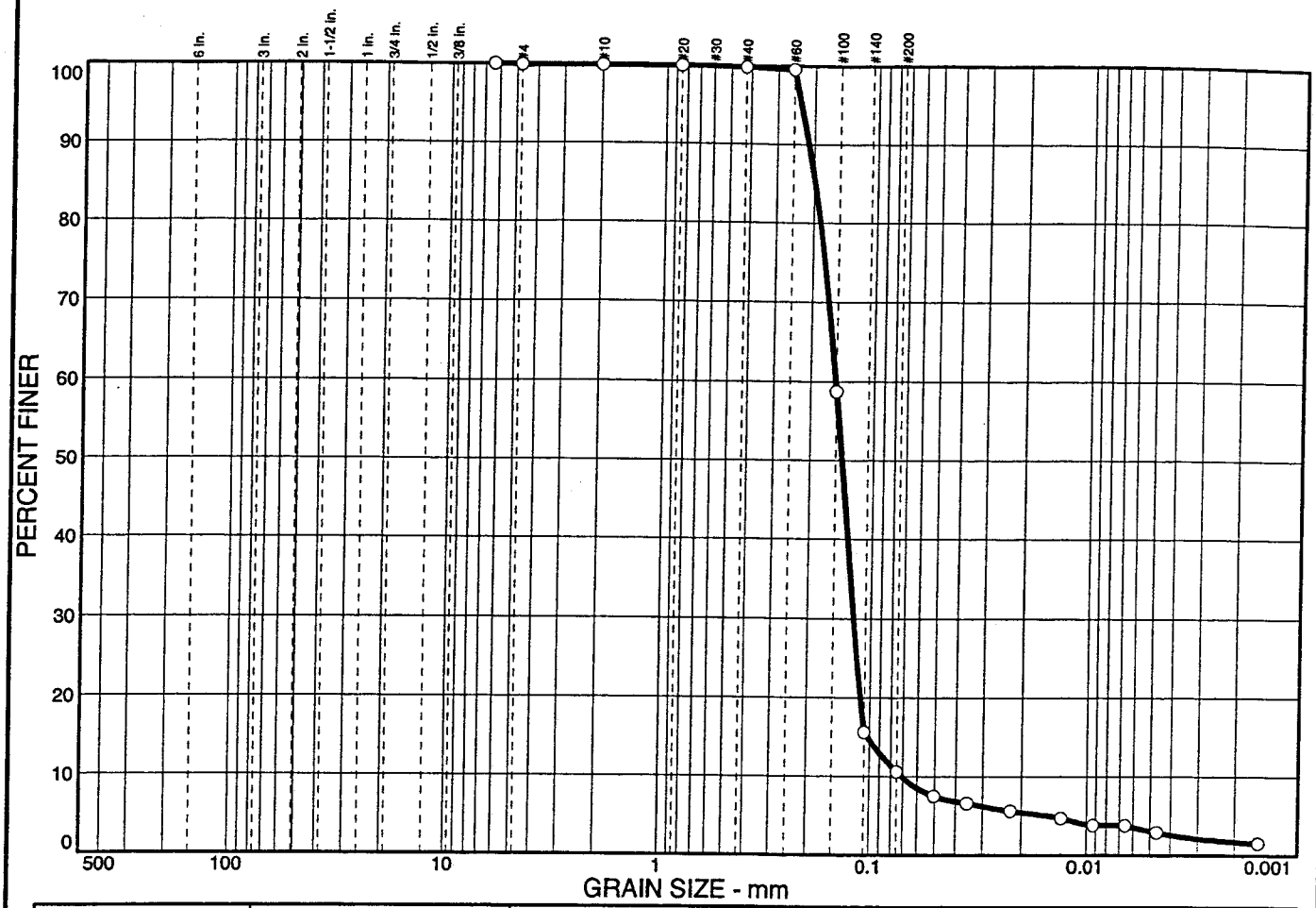
Sample No.: 056 **Source of Sample:** 920866 **Date:** 4/3/02
Location: FW-RM-06-CS-0.7-2.3 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

JJRS JAH

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.1	89.3	7.5	3.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	99.9		
#10	99.9		
#20	99.9		
#40	99.8		
#60	99.5		
#100	58.7		
#140	15.6		
#200	10.6		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.198 D_{60}= 0.152 D_{50}= 0.141
D_{30}= 0.122 D_{15}= 0.102 D_{10}= 0.0709
C_u= 2.14 C_c= 1.37

Classification

USCS= AASHTO=

Remarks

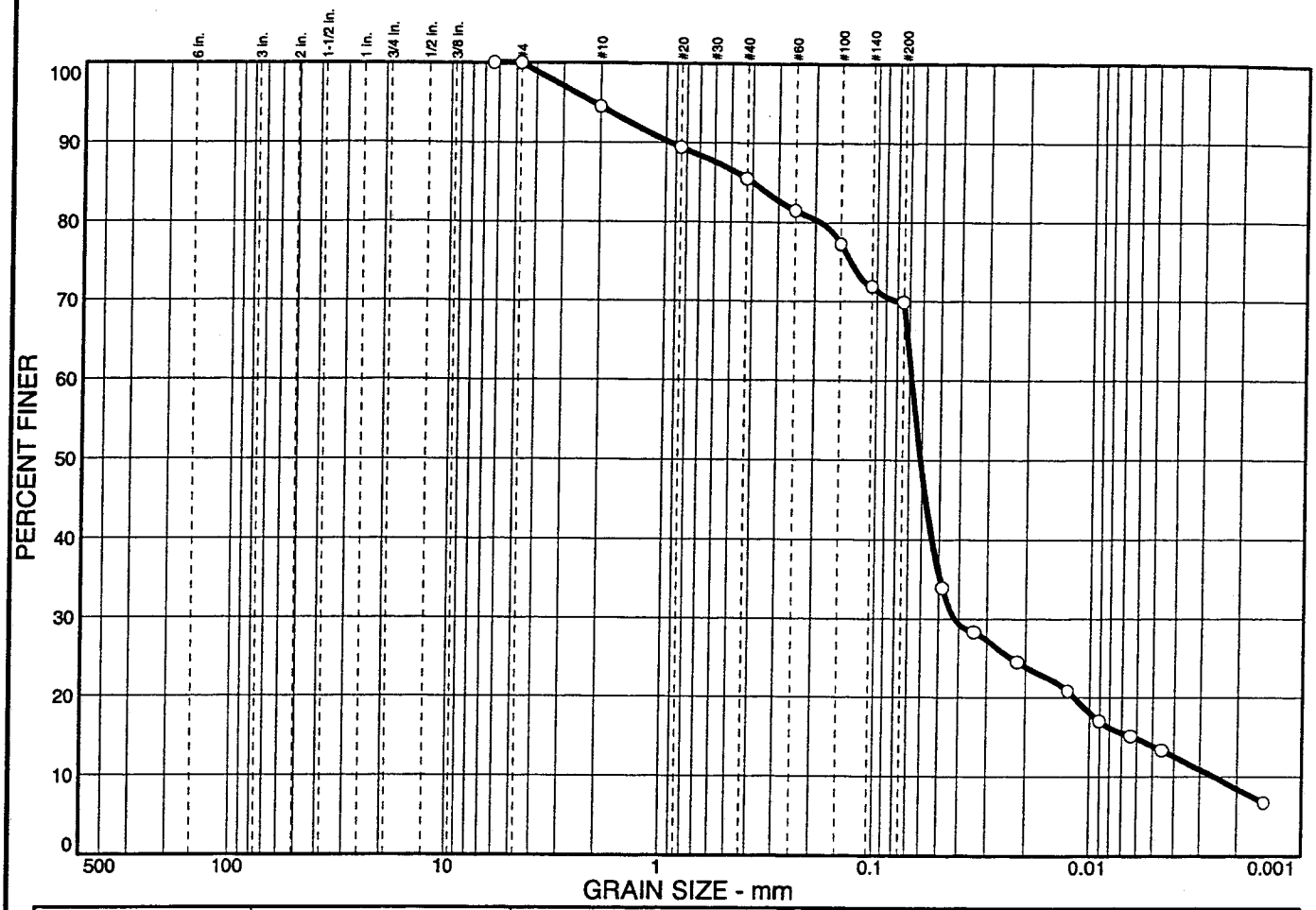
Sample No.: 057 **Source of Sample:** 920866 **Date:** 4/3/02
Location: FW-RM-06-CS-2.8-4.7 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

✓ HJW ✓

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	30.1	56.0	13.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	94.5		
#20	89.4		
#40	85.5		
#60	81.5		
#100	77.3		
#140	71.9		
#200	69.9		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.398 D_{60}= 0.0680 D_{50}= 0.0611
D_{30}= 0.0419 D_{15}= 0.0062 D_{10}= 0.0026
C_u= 26.32 C_c= 9.98

Classification

USCS= AASHTO=

Remarks

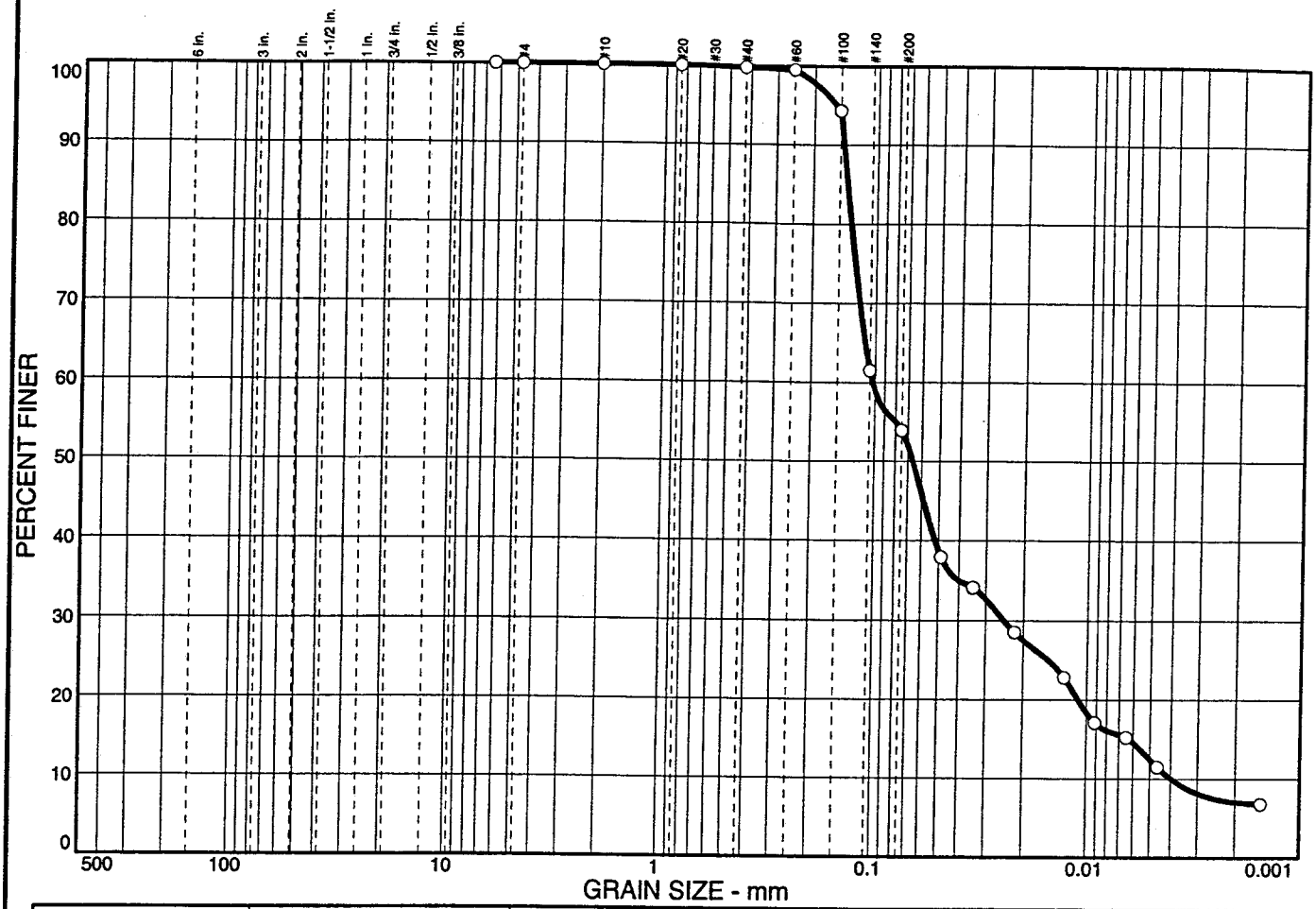
Sample No.: 058 **Source of Sample:** 920866 **Date:** 4/3/02
Location: FW-RM-11-CS-0.7-2.4 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

✓ HJW ✓ JMH

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	46.1	41.4	12.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	100.0		
#40	99.8		
#60	99.5		
#100	94.3		
#140	61.5		
#200	53.9		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.138 D_{60}= 0.103 D_{50}= 0.0662
D_{30}= 0.0247 D_{15}= 0.0063 D_{10}= 0.0040
C_u= 25.94 C_c= 1.50

Classification

USCS= AASHTO=

Remarks

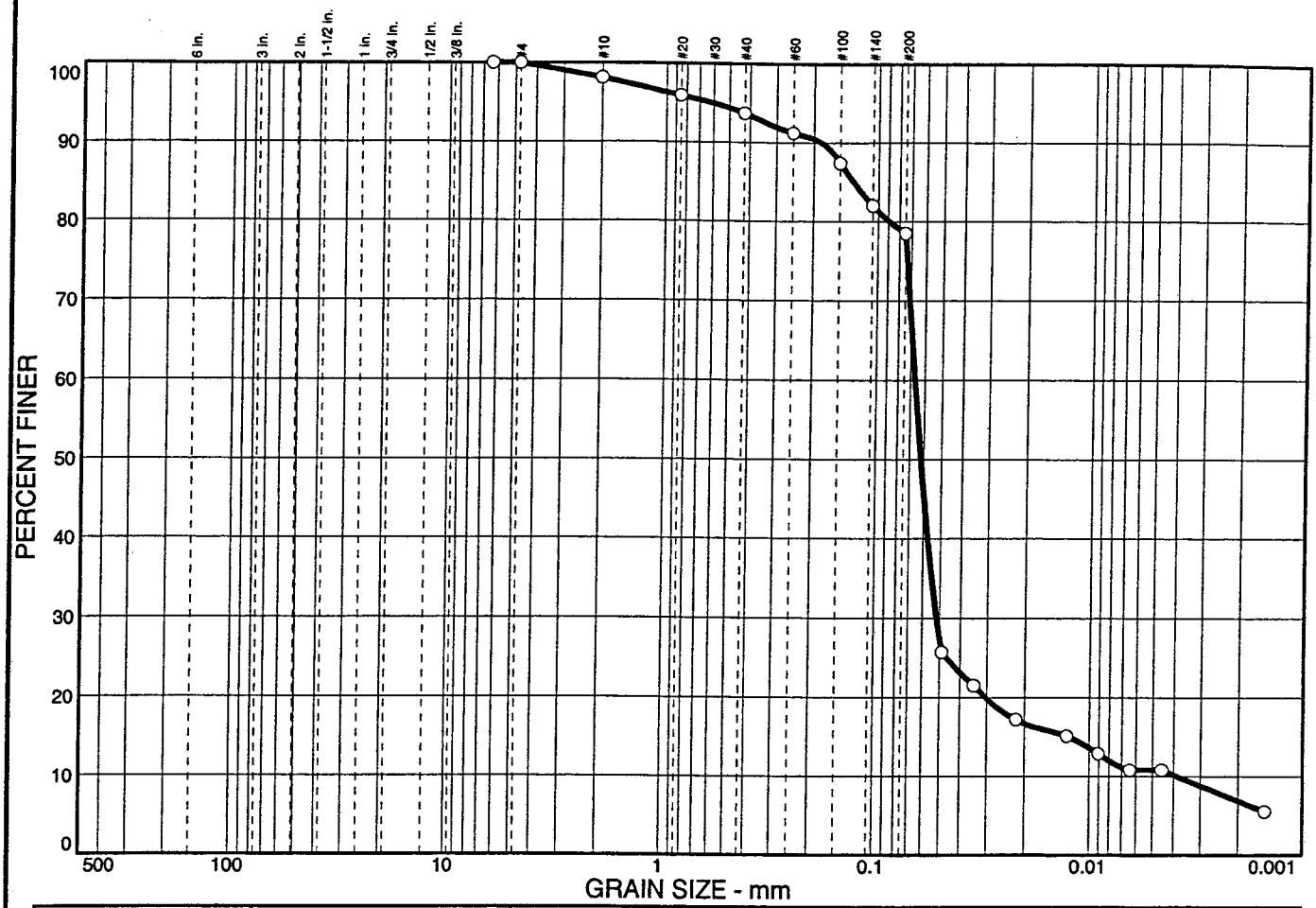
Sample No.: 059 **Source of Sample:** 920866 **Date:** 4/3/02
Location: FW-RM-11-CS-2.4-4.2 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

✓ HJW

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	21.5	67.7	10.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	98.1		
#20	95.9		
#40	93.7		
#60	91.2		
#100	87.4		
#140	82.0		
#200	78.5		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.130 D_{60}= 0.0664 D_{50}= 0.0619
D_{30}= 0.0517 D_{15}= 0.0125 D_{10}= 0.0038
C_u= 17.34 C_c= 10.50

Classification

USCS= AASHTO=

Remarks

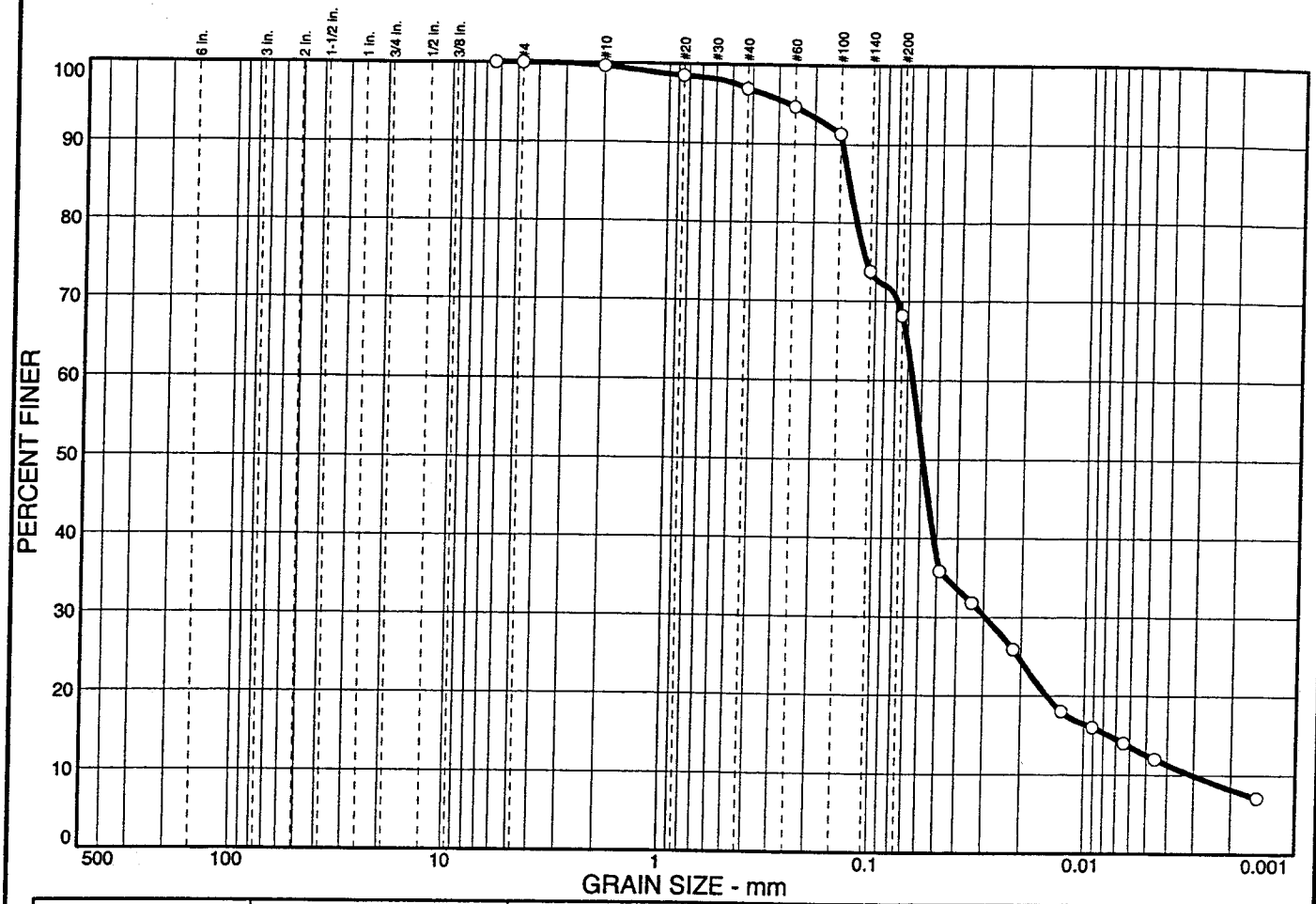
Sample No.: 061 **Source of Sample:** 920866 **Date:** 4/3/02
Location: FW-RM-14-CS-0.7-2.0 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

JTRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	31.8	55.7	12.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.6		
#20	98.5		
#40	96.9		
#60	94.7		
#100	91.3		
#140	73.8		
#200	68.2		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.136 D_{60}= 0.0660 D_{50}= 0.0587
D_{30}= 0.0295 D_{15}= 0.0076 D_{10}= 0.0030
C_u= 21.73 C_c= 4.33

Classification

USCS= AASHTO=

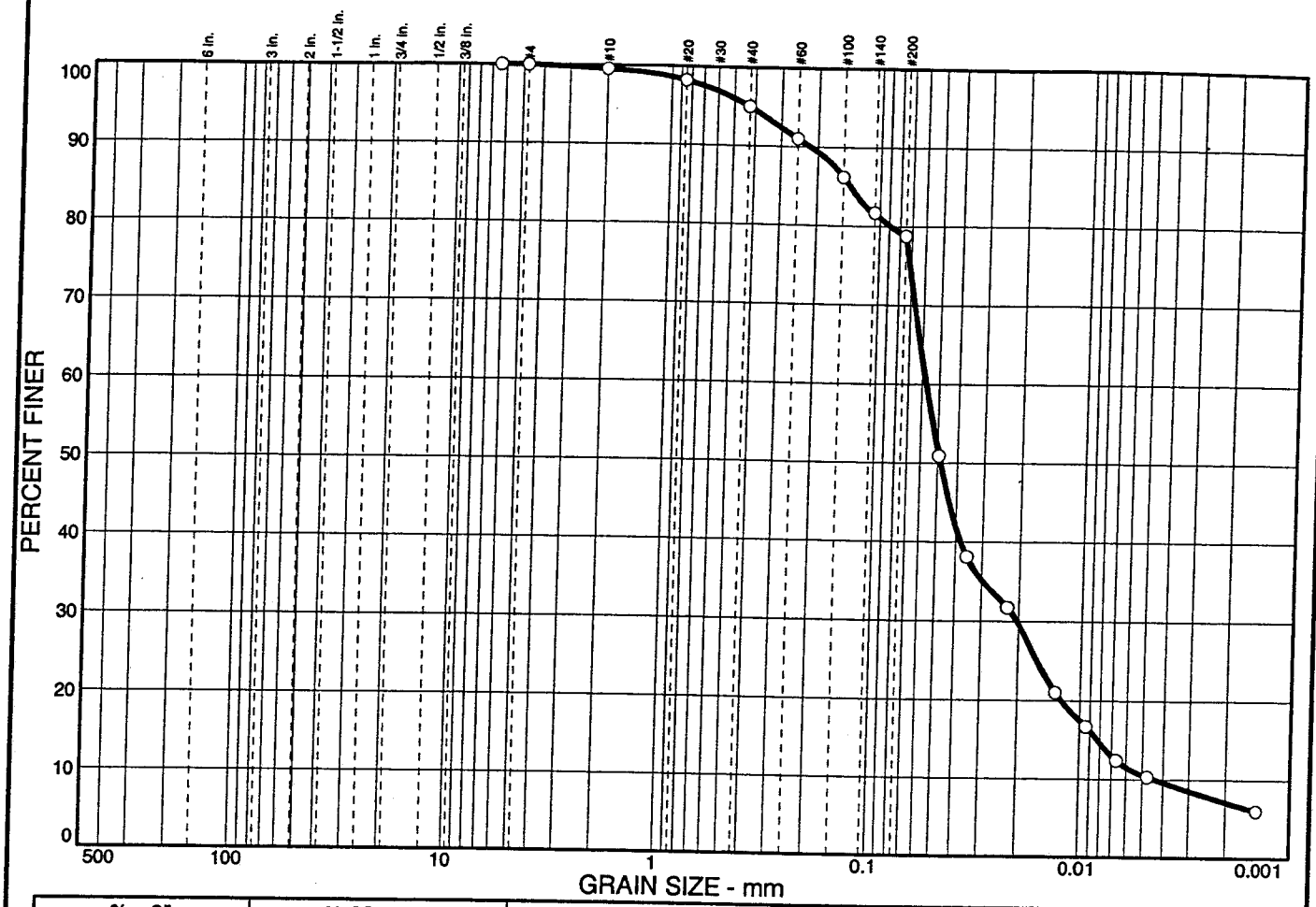
Remarks

Sample No.: 062 **Source of Sample:** 920866 **Date:** 4/3/02
Location: FW-RM-14-CS-2.0-3.8 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	21.2	68.3	10.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.5		
#20	98.2		
#40	95.0		
#60	91.0		
#100	86.2		
#140	81.7		
#200	78.8		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.139 D_{60}= 0.0573 D_{50}= 0.0482
D_{30}= 0.0204 D_{15}= 0.0082 D_{10}= 0.0044
C_u= 13.07 C_c= 1.66

Classification

USCS= AASHTO=

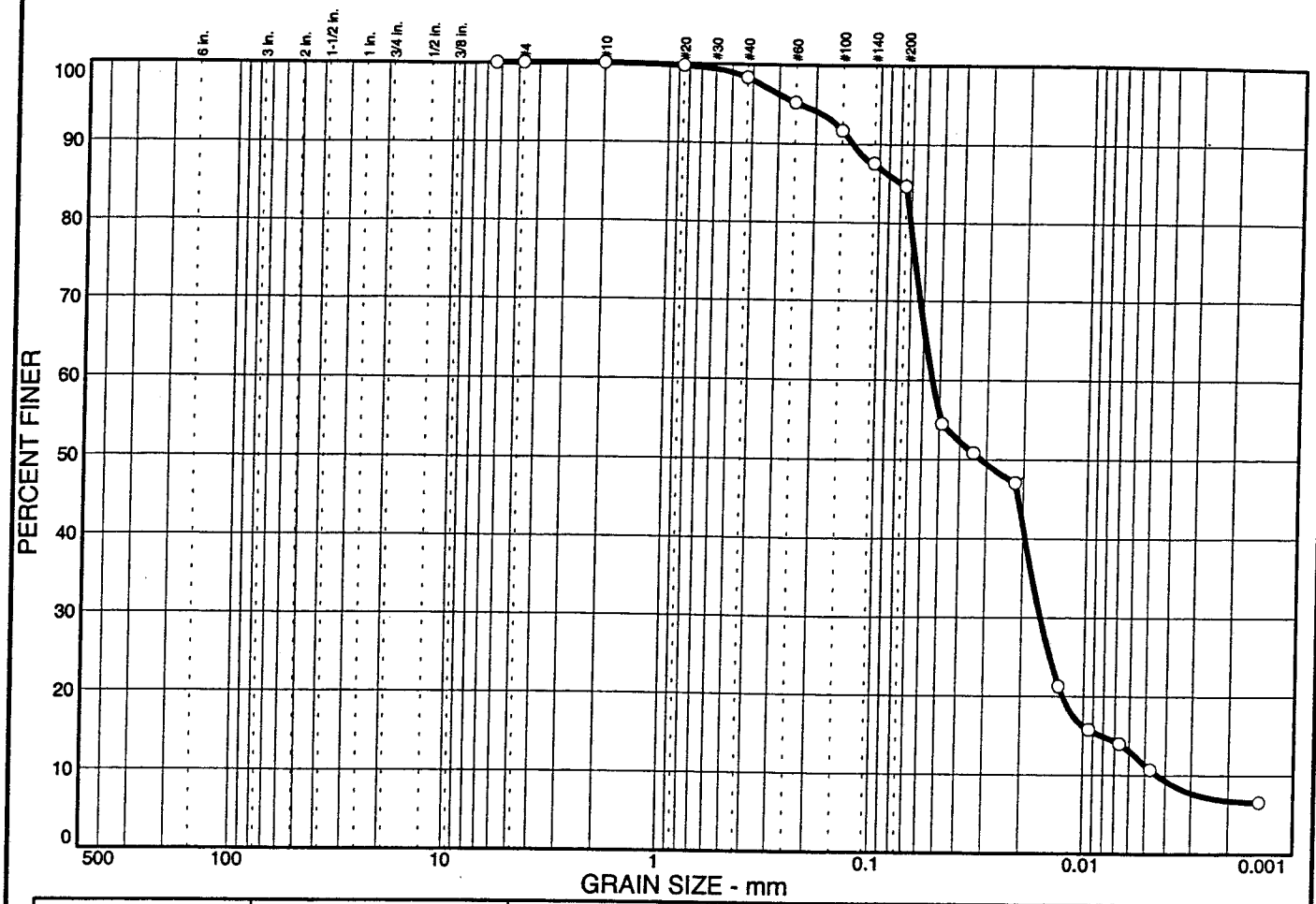
Remarks

Sample No.: 001 **Source of Sample:** 920839 **Date:** 4/1/02
Location: FW-RM-15-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	15.3	73.4	11.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.7		
#40	98.3		
#60	95.2		
#100	91.7		
#140	87.6		
#200	84.7		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.0783 D_{60}= 0.0544 D_{50}= 0.0317
D_{30}= 0.0163 D_{15}= 0.0081 D_{10}= 0.0044
C_u= 12.49 C_c= 1.12

Classification

USCS= AASHTO=

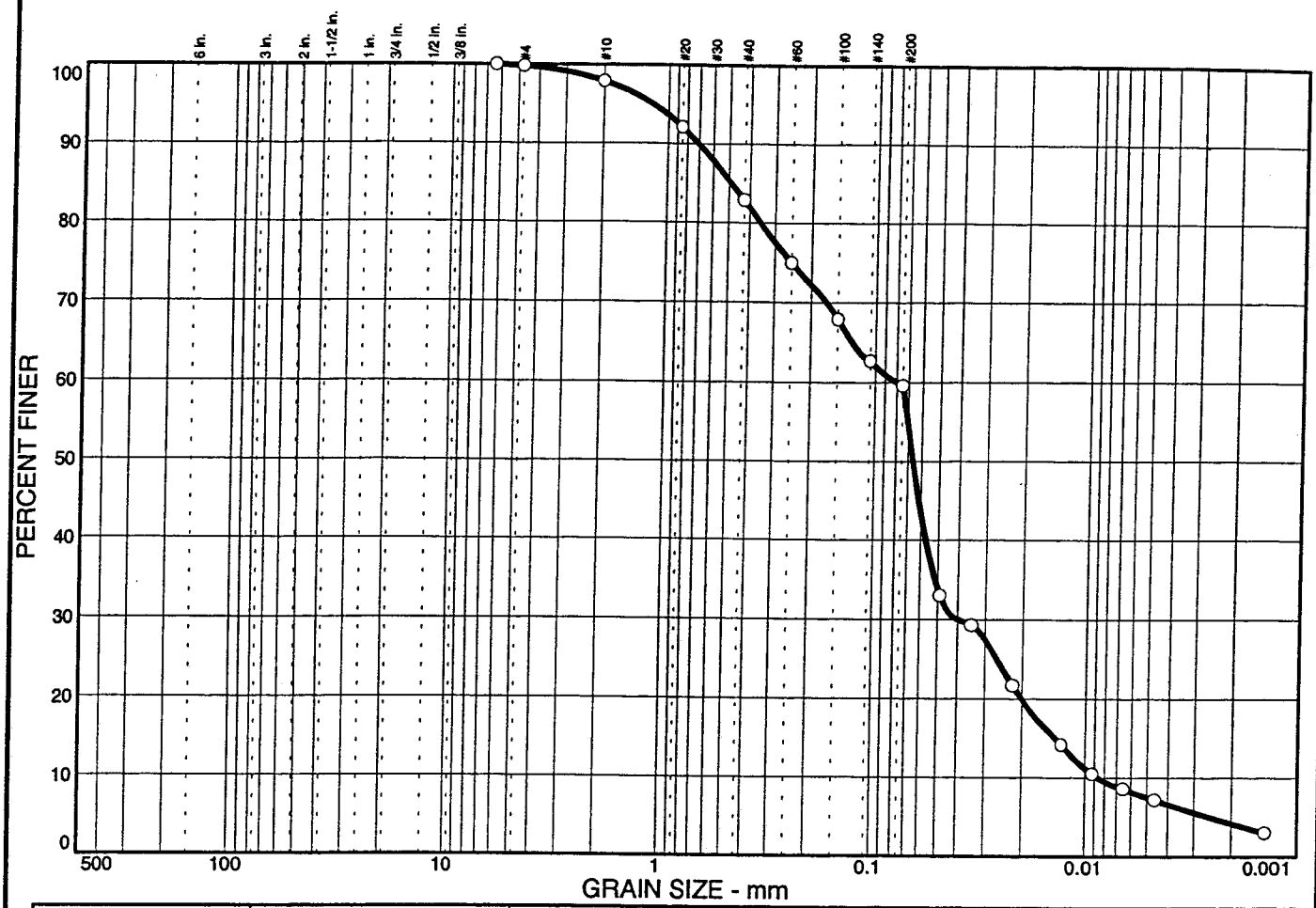
Remarks

Sample No.: 002 **Source of Sample:** 920839 **Date:** 3/28/02
Location: FW-RM-10-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.2	40.2	52.1	7.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	99.8		
#10	97.9		
#20	92.1		
#40	82.9		
#60	75.0		
#100	67.9		
#140	62.7		
#200	59.6		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.489 D_{60}= 0.0798 D_{50}= 0.0662
D_{30}= 0.0399 D_{15}= 0.0139 D_{10}= 0.0086
C_u= 9.24 C_c= 2.31

Classification

USCS= AASHTO=

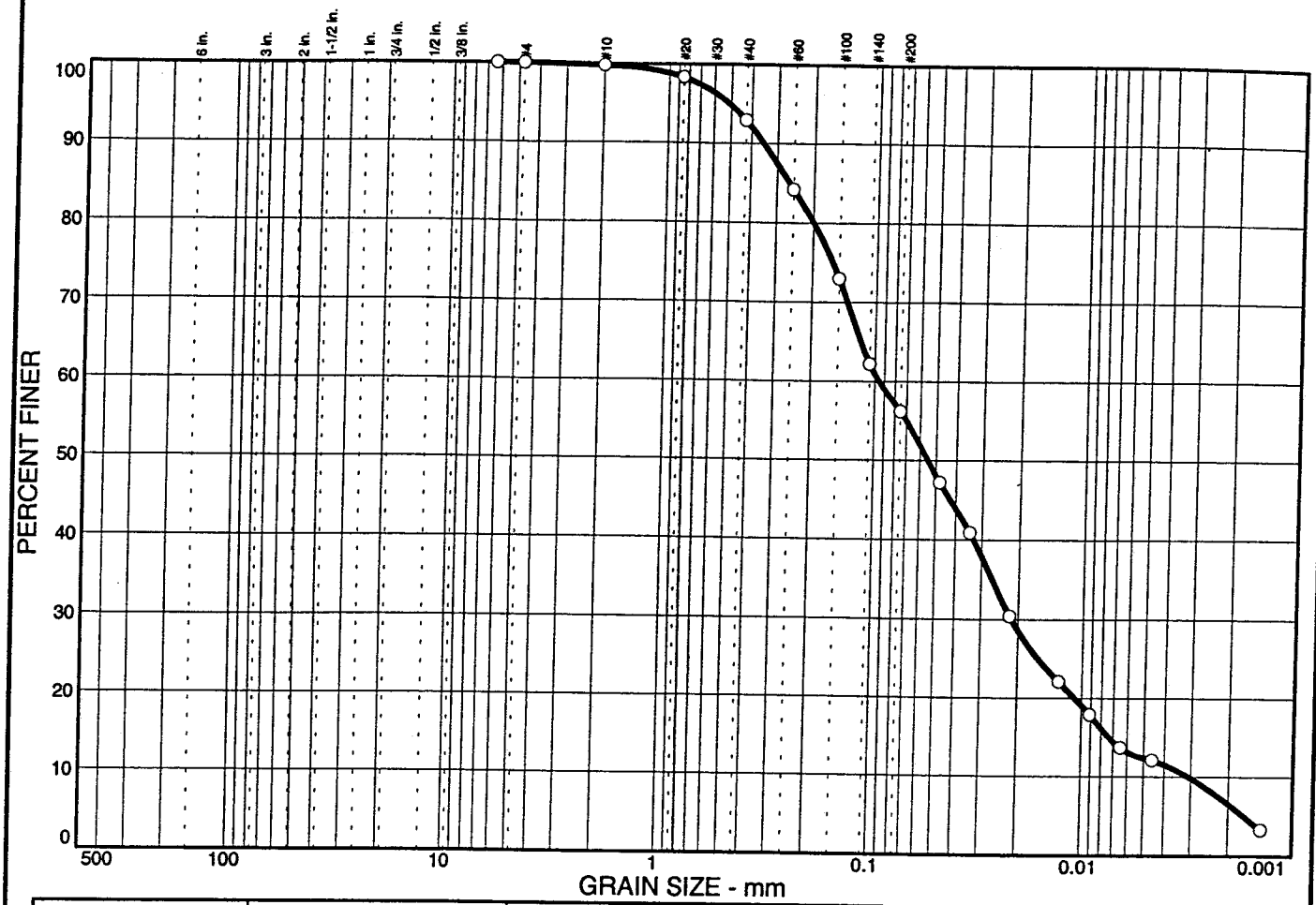
Remarks

Sample No.: 003 **Source of Sample:** 920839 **Date:** 3/28/02
Location: FW-RM-12-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	43.8	43.8	12.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.8		
#20	98.3		
#40	92.9		
#60	84.2		
#100	73.0		
#140	62.2		
#200	56.2		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.261 D_{60}= 0.0955 D_{50}= 0.0549
D_{30}= 0.0215 D_{15}= 0.0073 D_{10}= 0.0031
C_u= 31.12 C_c= 1.58

Classification

USCS= AASHTO=

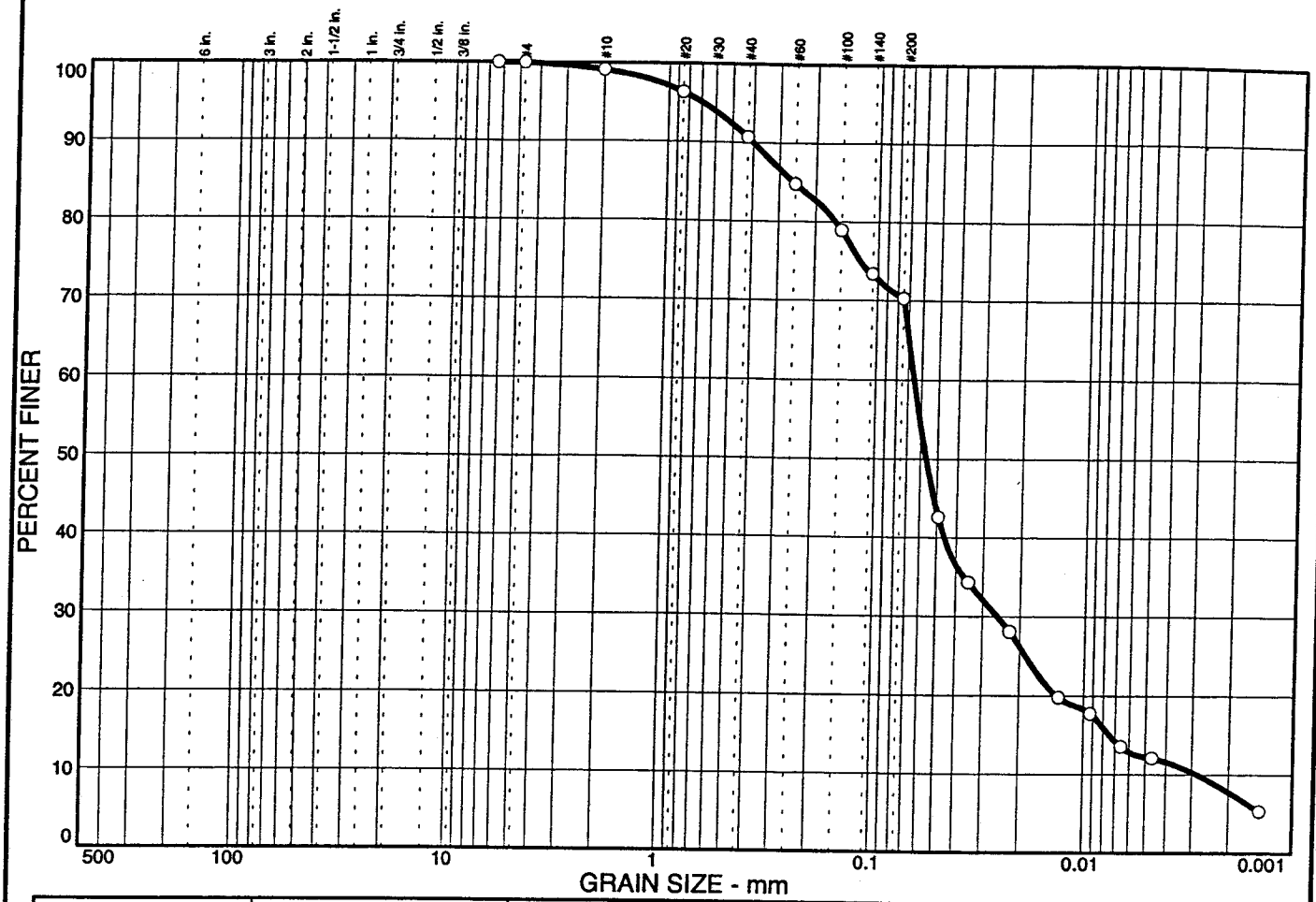
Remarks

Sample No.: 004 **Source of Sample:** 920839 **Date:** 3/28/02
Location: FW-RM-16-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	29.7	58.0	12.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.1		
#20	96.3		
#40	90.7		
#60	84.8		
#100	78.9		
#140	73.4		
#200	70.3		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.255 D_{60}= 0.0656 D_{50}= 0.0566
D_{30}= 0.0255 D_{15}= 0.0074 D_{10}= 0.0028
C_u= 23.26 C_c= 3.52

Classification

USCS= AASHTO=

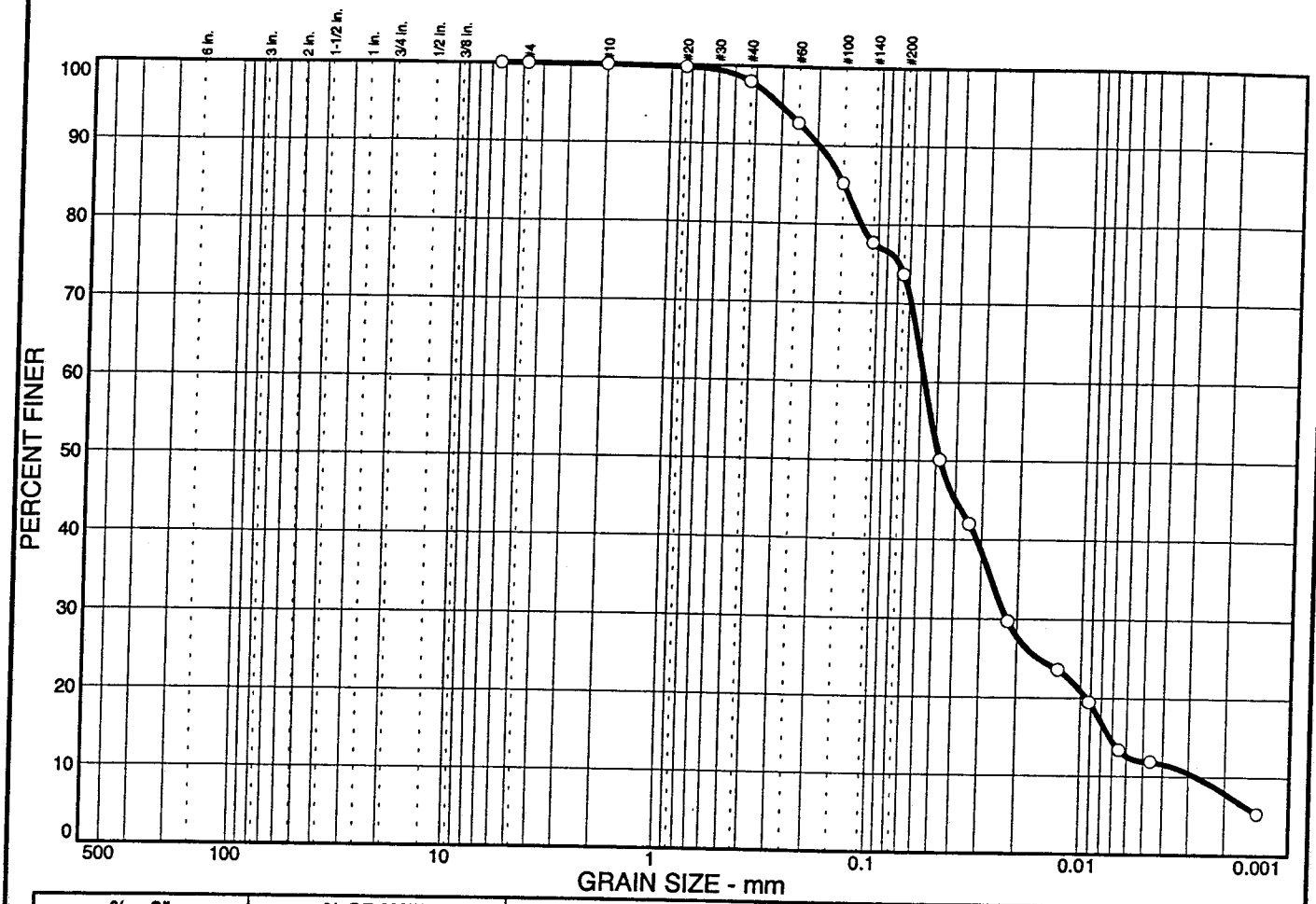
Remarks

Sample No.: 005 **Source of Sample:** 920839 **Date:** 3/28/02
Location: FW-RM-02-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	26.3	61.7	12.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.7		
#40	98.0		
#60	92.8		
#100	85.2		
#140	77.7		
#200	73.7		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.149 D_{60}= 0.0576 D_{50}= 0.0478
D_{30}= 0.0224 D_{15}= 0.0072 D_{10}= 0.0027
C_u= 20.98 C_c= 3.16

Classification

USCS= AASHTO=

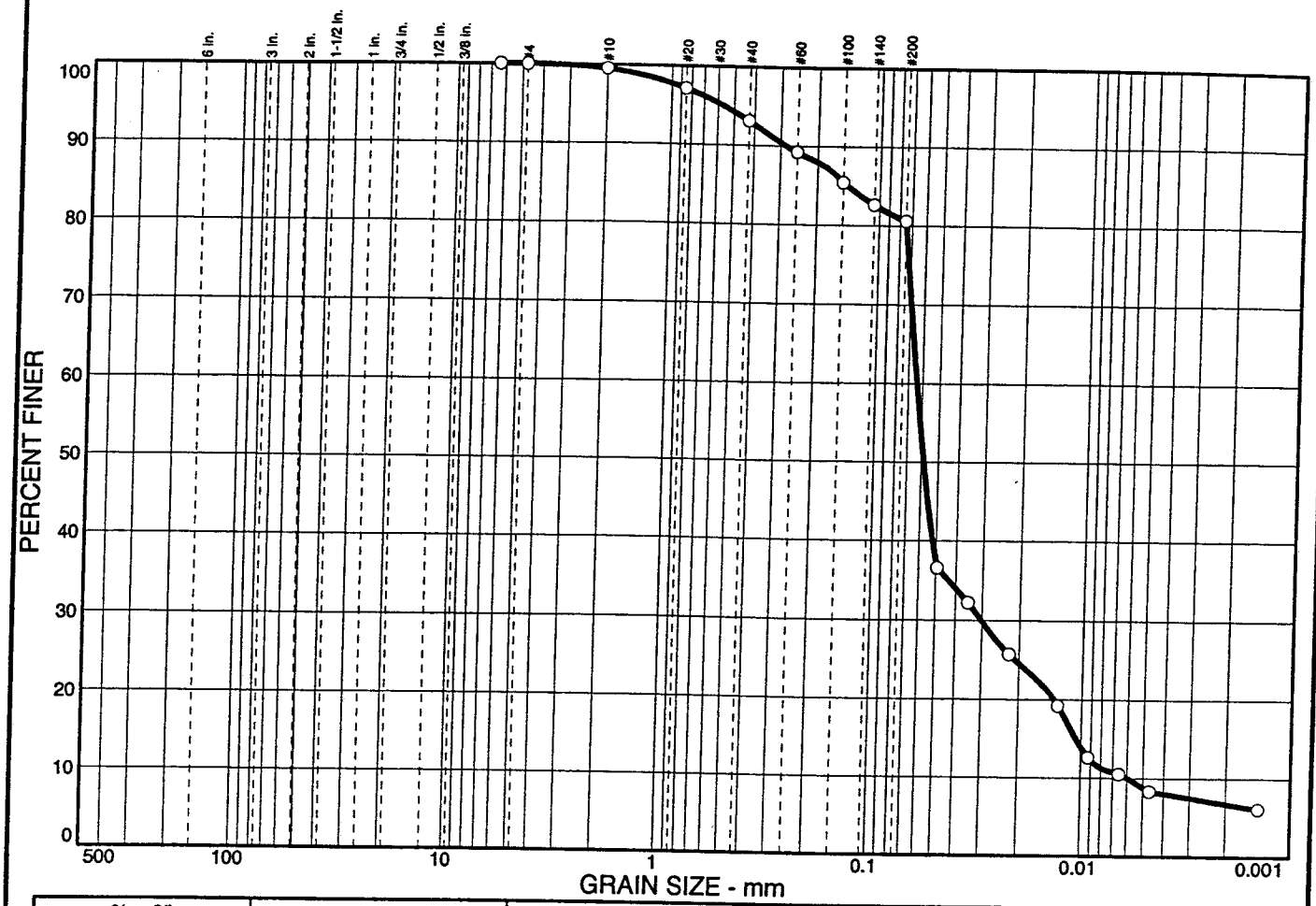
Remarks

Sample No.: 006 **Source of Sample:** 920839 **Date:** 3/28/02
Location: FW-RM-06-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	19.4	71.8	8.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.5		
#20	97.1		
#40	93.1		
#60	89.2		
#100	85.4		
#140	82.6		
#200	80.6		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.144 D_{60}= 0.0638 D_{50}= 0.0583
D_{30}= 0.0303 D_{15}= 0.0106 D_{10}= 0.0060
C_u= 10.68 C_c= 2.41

Classification

USCS= AASHTO=

Remarks

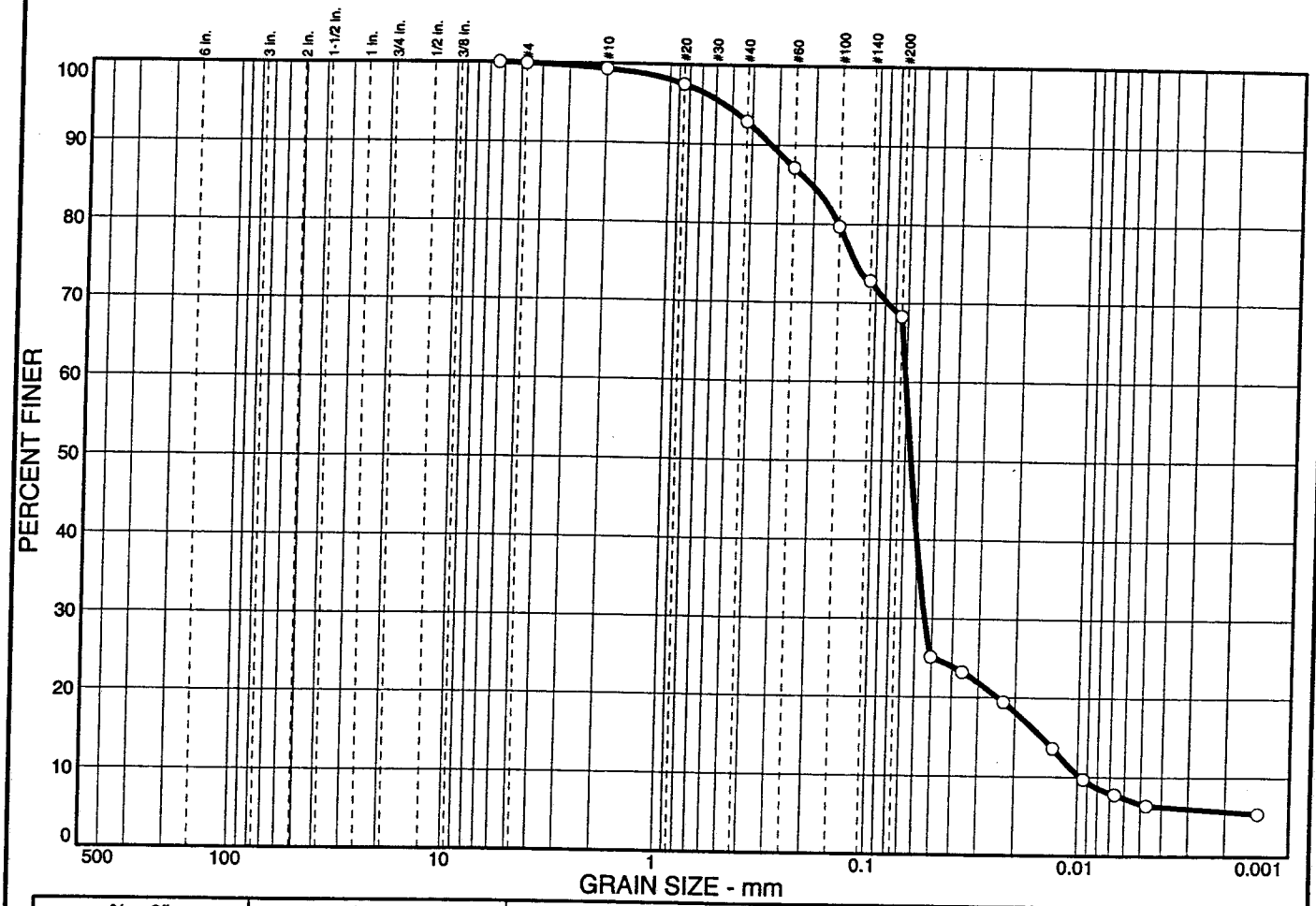
Sample No.: 007 **Source of Sample:** 920839 **Date:** 4/1/02
Location: FW-RM-05-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

JTRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.1	31.6	61.7	6.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	99.9		
#10	99.3		
#20	97.5		
#40	92.9		
#60	87.1		
#100	79.7		
#140	72.8		
#200	68.3		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.206 D_{60}= 0.0706 D_{50}= 0.0655
D_{30}= 0.0543 D_{15}= 0.0149 D_{10}= 0.0097
C_u= 7.28 C_c= 4.30

Classification

USCS= AASHTO=

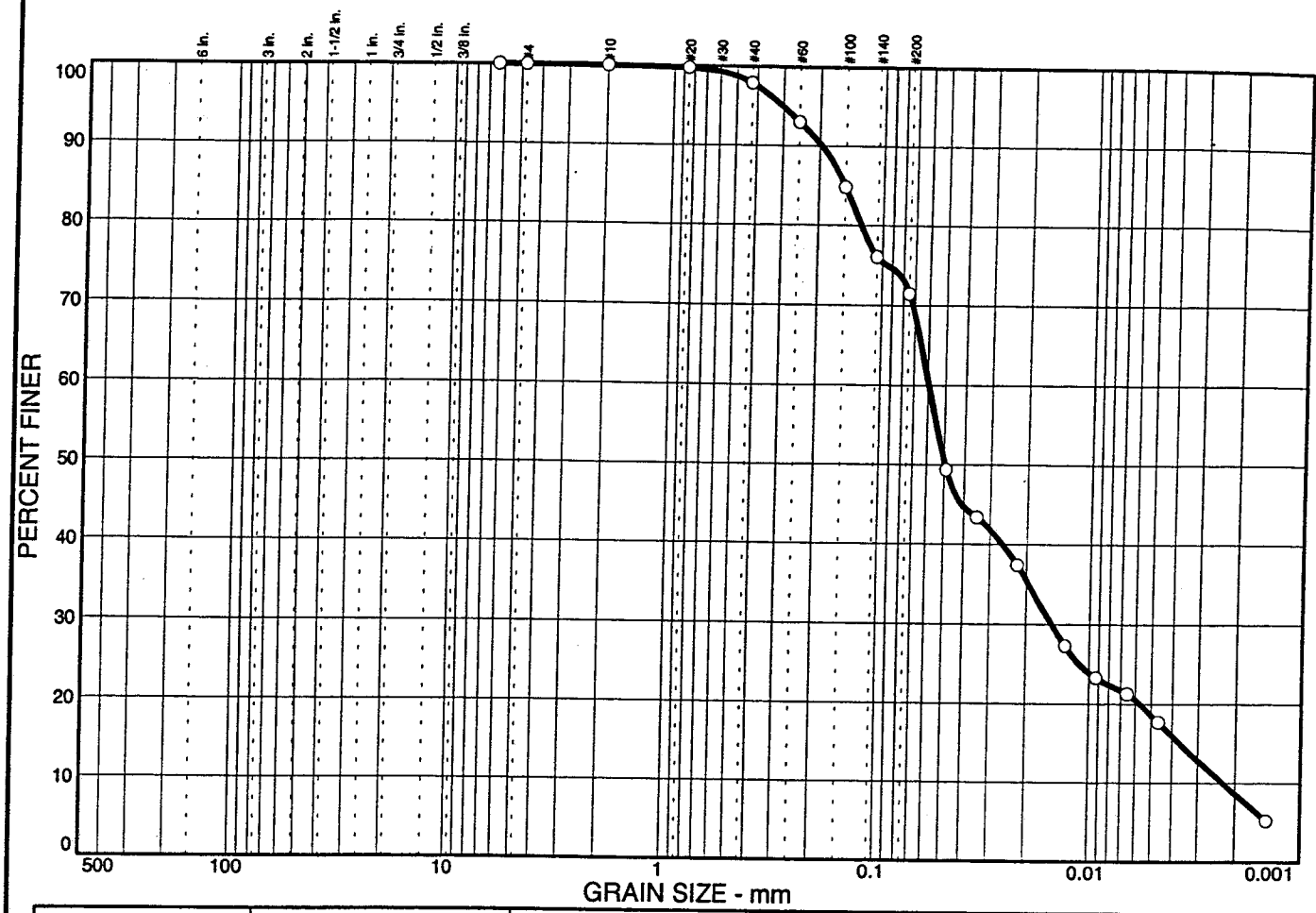
Remarks

Sample No.: 008 **Source of Sample:** 920839 **Date:** 4/1/02
Location: FW-RM-17-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	28.5	52.9	18.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.7		
#40	97.9		
#60	93.0		
#100	84.8		
#140	76.1		
#200	71.5		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.151 D_{60}= 0.0597 D_{50}= 0.0495
D_{30}= 0.0152 D_{15}= 0.0037 D_{10}= 0.0023
C_u= 26.09 C_c= 1.68

Classification

USCS= AASHTO=

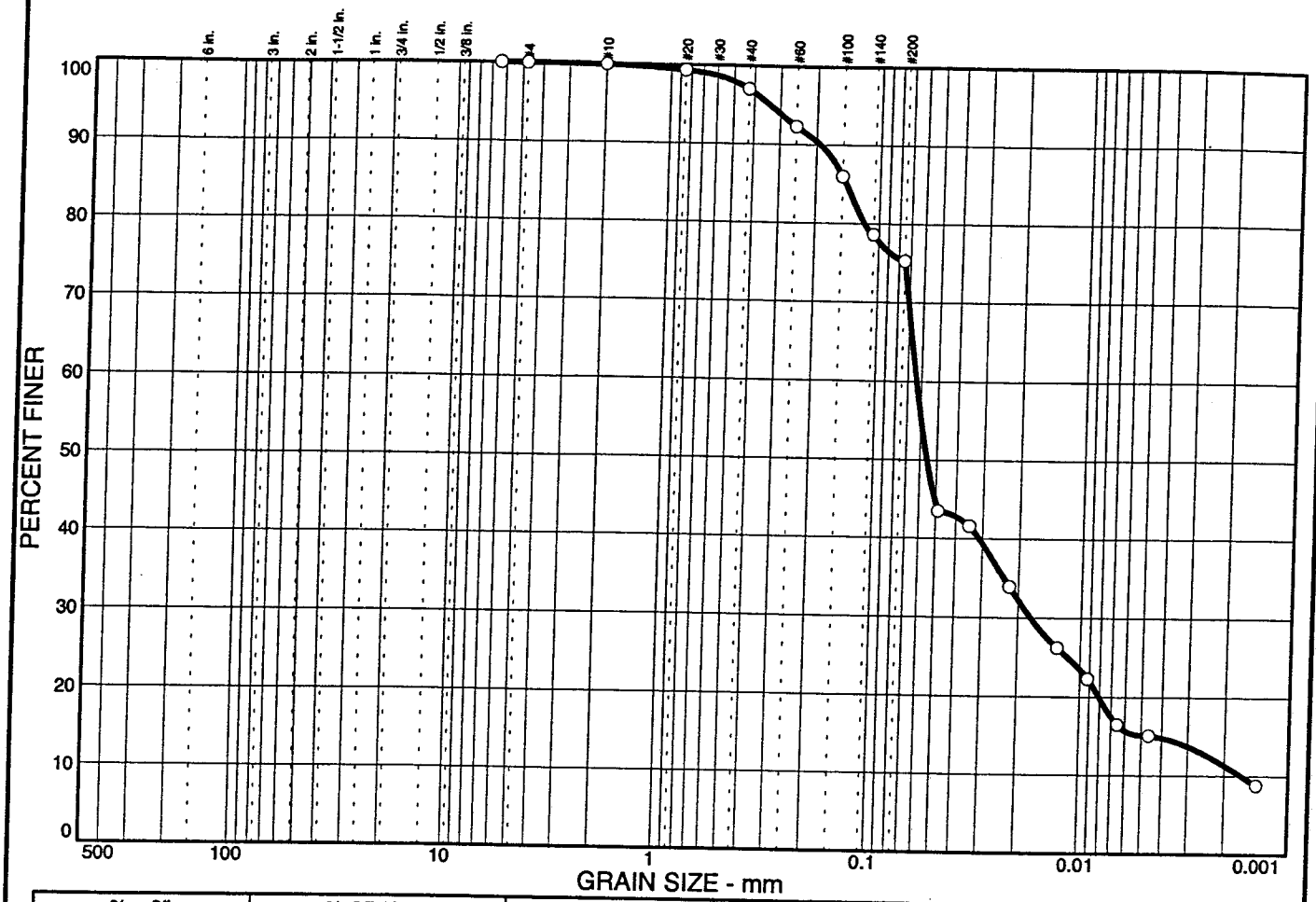
Remarks

Sample No.: 009 **Source of Sample:** 920839 **Date:** 3/28/02
Location: FW-RM-07-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	24.7	60.1	15.2

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.9		
#20	99.3		
#40	97.0		
#60	92.3		
#100	86.0		
#140	78.6		
#200	75.3		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.144 D_{60}= 0.0636 D_{50}= 0.0557
D_{30}= 0.0174 D_{15}= 0.0043 D_{10}= 0.0017
C_u= 38.38 C_c= 2.87

Classification

USCS= AASHTO=

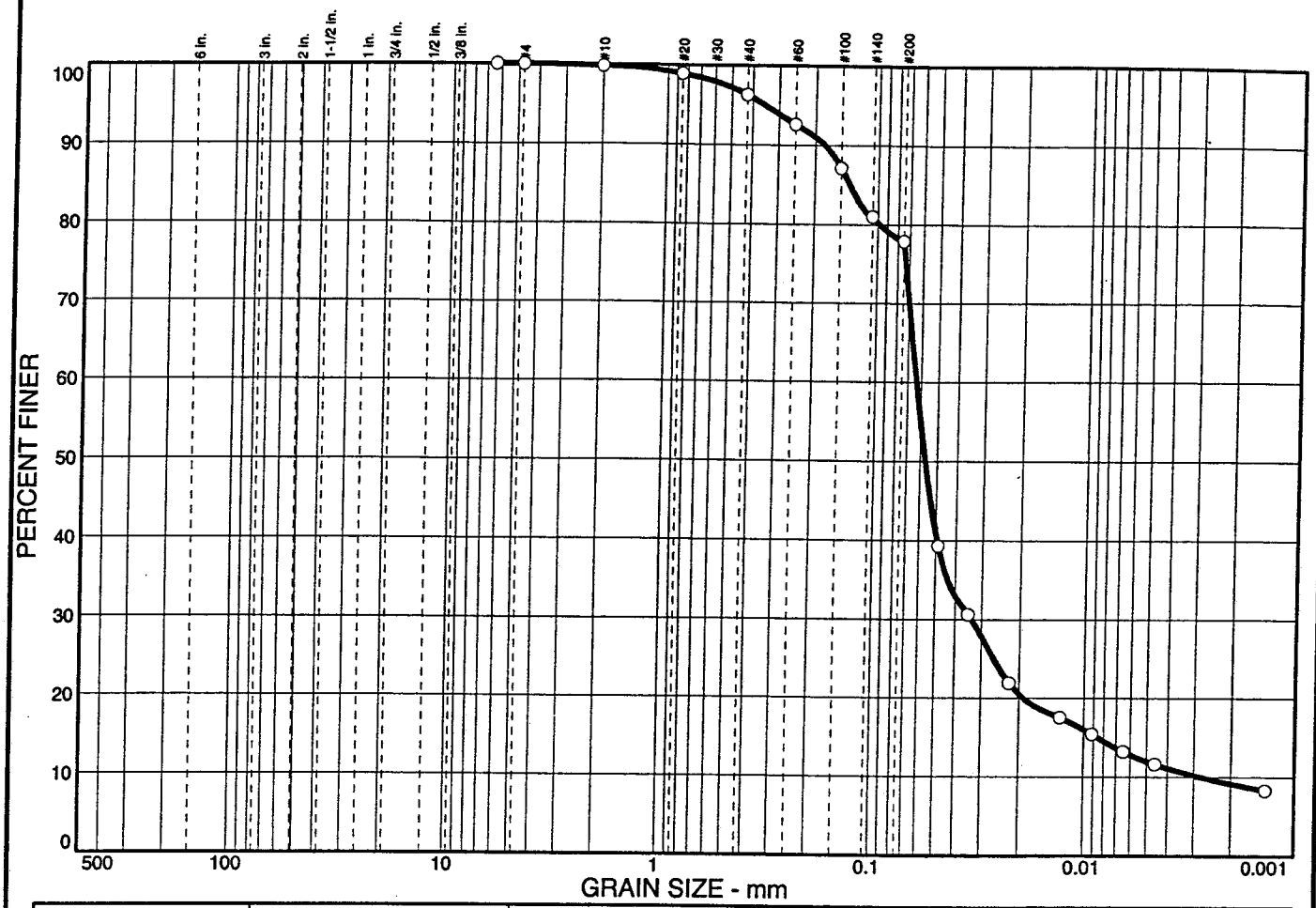
Remarks

Sample No.: 010 **Source of Sample:** 920839 **Date:** 3/28/02
Location: FW-RM-08-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	22.1	65.9	12.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.8		
#20	98.9		
#40	96.3		
#60	92.6		
#100	87.1		
#140	81.0		
#200	77.9		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.136 D_{60}= 0.0633 D_{50}= 0.0567
D_{30}= 0.0335 D_{15}= 0.0086 D_{10}= 0.0028
C_u= 22.69 C_c= 6.37

Classification

USCS= AASHTO=

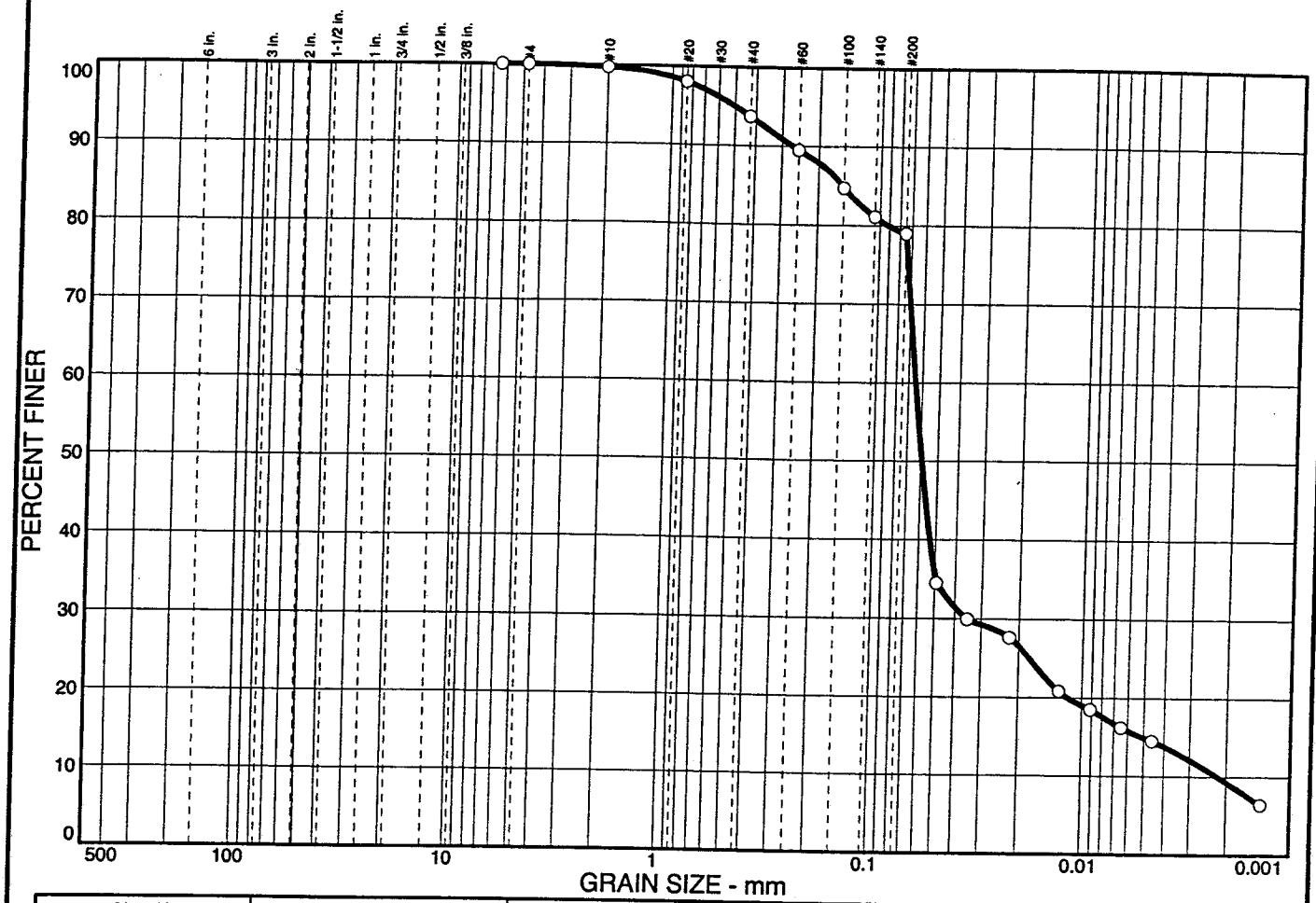
Remarks

Sample No.: 011 **Source of Sample:** 920839 **Date:** 4/1/02
Location: FW-RM-09-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	21.0	64.1	14.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.7		
#20	98.0		
#40	93.7		
#60	89.5		
#100	84.7		
#140	81.1		
#200	79.0		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.153 D_{60}= 0.0646 D_{50}= 0.0592
D_{30}= 0.0351 D_{15}= 0.0051 D_{10}= 0.0022
C_u= 29.34 C_c= 8.68

Classification

USCS= AASHTO=

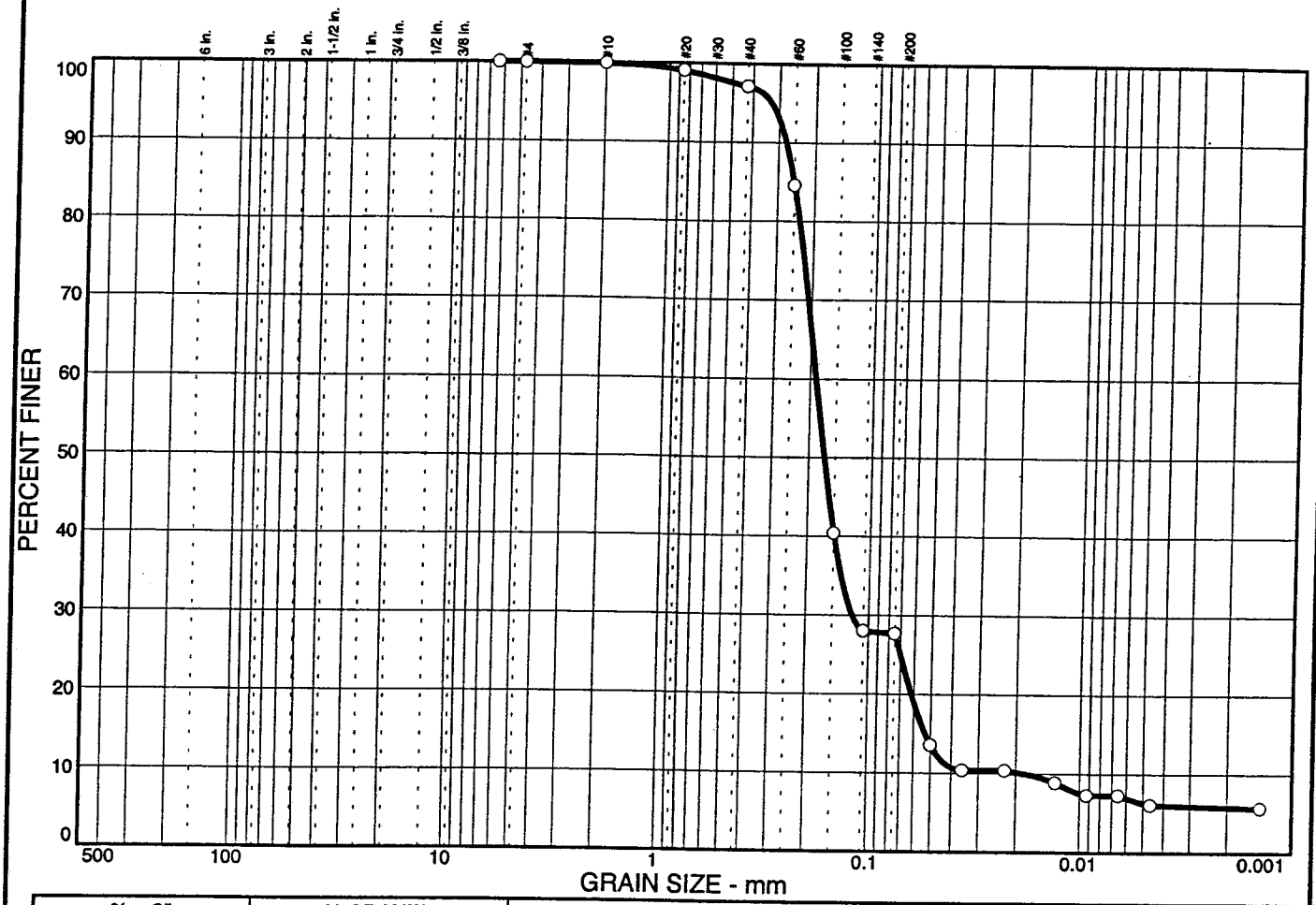
Remarks

Sample No.: 012 **Source of Sample:** 920839 **Date:** 4/1/02
Location: FW-RM-01-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	72.3	21.4	6.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.9		
#20	99.0		
#40	97.1		
#60	84.6		
#100	40.4		
#140	28.0		
#200	27.7		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.252 D_{60}= 0.188 D_{50}= 0.169
D_{30}= 0.120 D_{15}= 0.0532 D_{10}= 0.0181
C_u= 10.37 C_c= 4.24

Classification

USCS= AASHTO=

Remarks

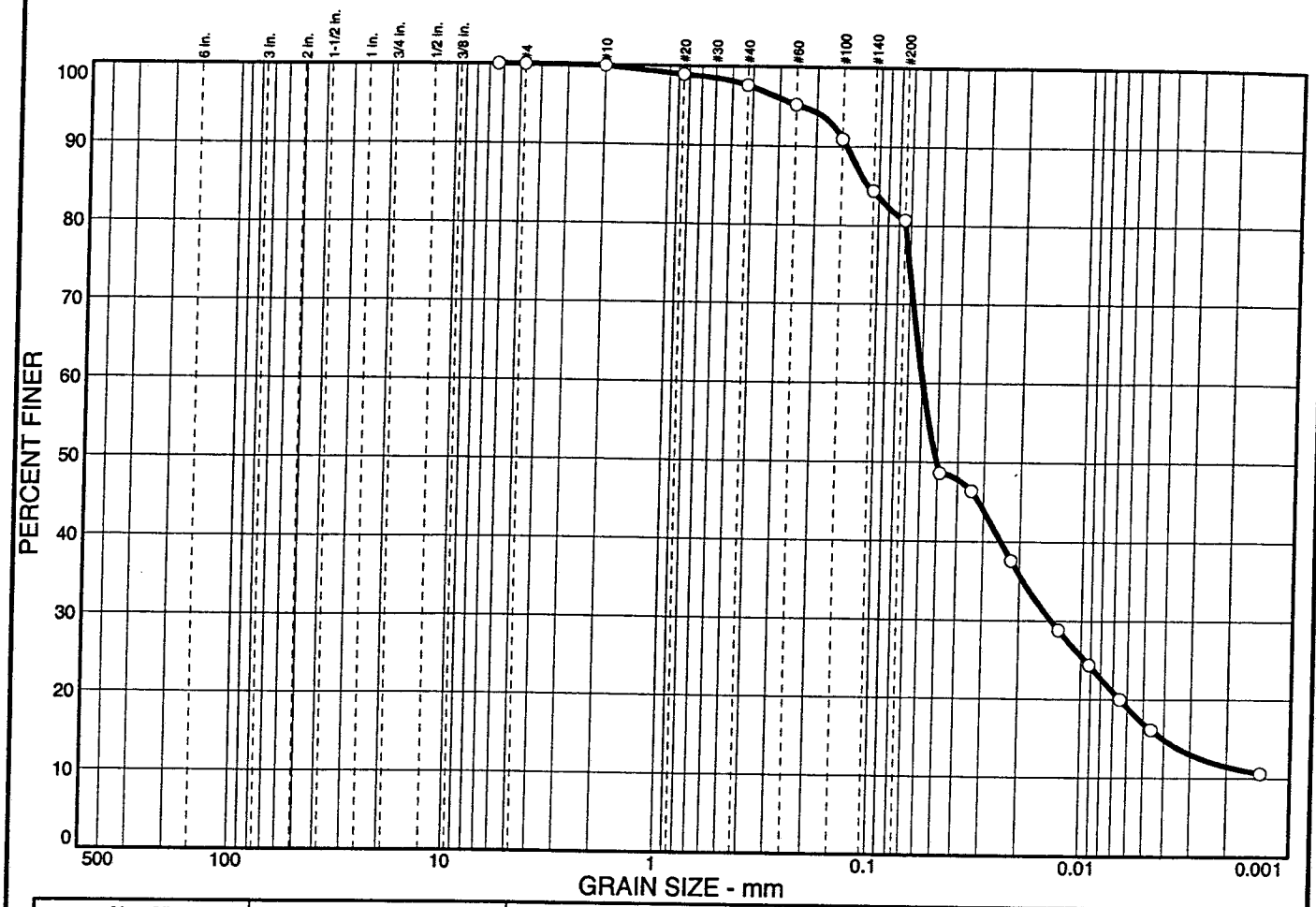
Sample No.: 013 **Source of Sample:** 920839 **Date:** 3/28/02
Location: FW-RM-04-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

VJKS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	19.3	63.7	17.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.9		
#20	98.9		
#40	97.6		
#60	95.2		
#100	90.9		
#140	84.4		
#200	80.7		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.113 D_{60}= 0.0595 D_{50}= 0.0504
D_{30}= 0.0140 D_{15}= 0.0041 D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

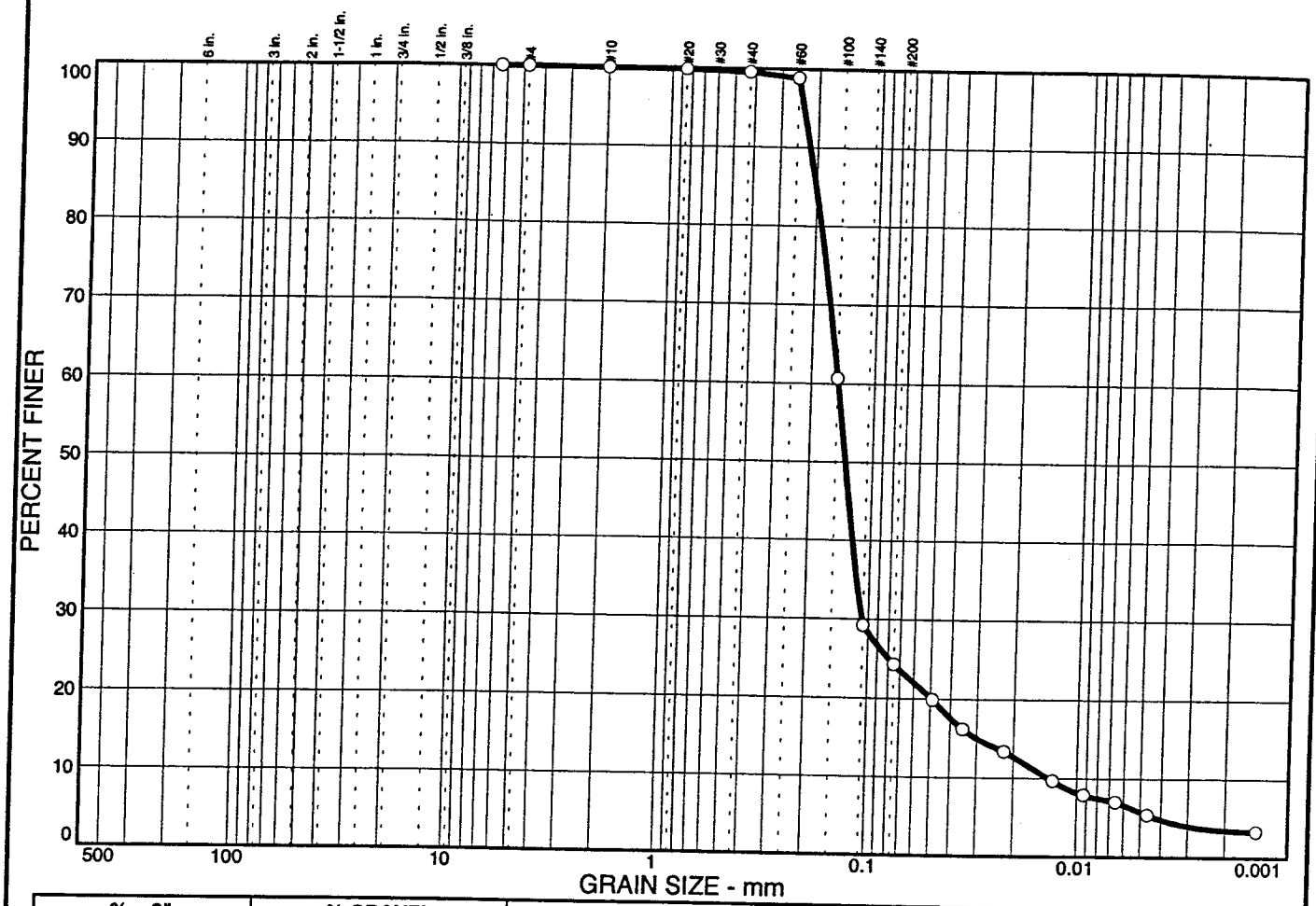
Remarks

Sample No.: 015 **Source of Sample:** 920839 **Date:** 4/1/02
Location: FW-RM-03-SS **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	75.7	18.5	5.8

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.9		
#20	99.8		
#40	99.5		
#60	98.8		
#100	60.7		
#140	29.2		
#200	24.3		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.202 D_{60}= 0.149 D_{50}= 0.135
D_{30}= 0.108 D_{15}= 0.0298 D_{10}= 0.0136
C_u= 10.96 C_c= 5.71

Classification

USCS= AASHTO=

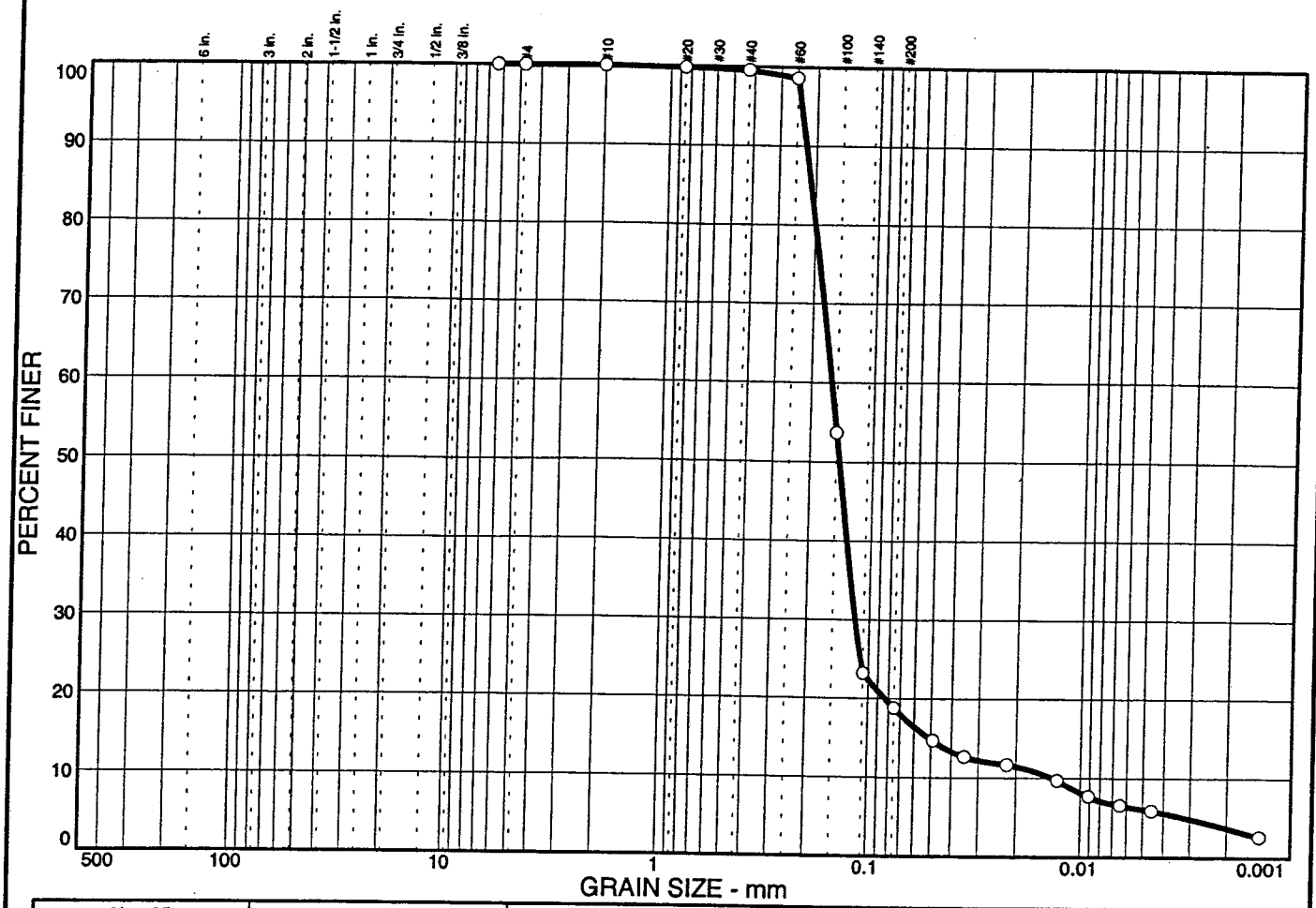
Remarks

Sample No.: 016 **Source of Sample:** 920839 **Date:** 3/28/02
Location: FW-RM-08-CS-4.4-7.7 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	81.2	12.7	6.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.8		
#40	99.5		
#60	98.6		
#100	53.7		
#140	23.2		
#200	18.8		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.212 D_{60}= 0.160 D_{50}= 0.145
D_{30}= 0.117 D_{15}= 0.0508 D_{10}= 0.0136
C_u= 11.80 C_c= 6.36

Classification

USCS= AASHTO=

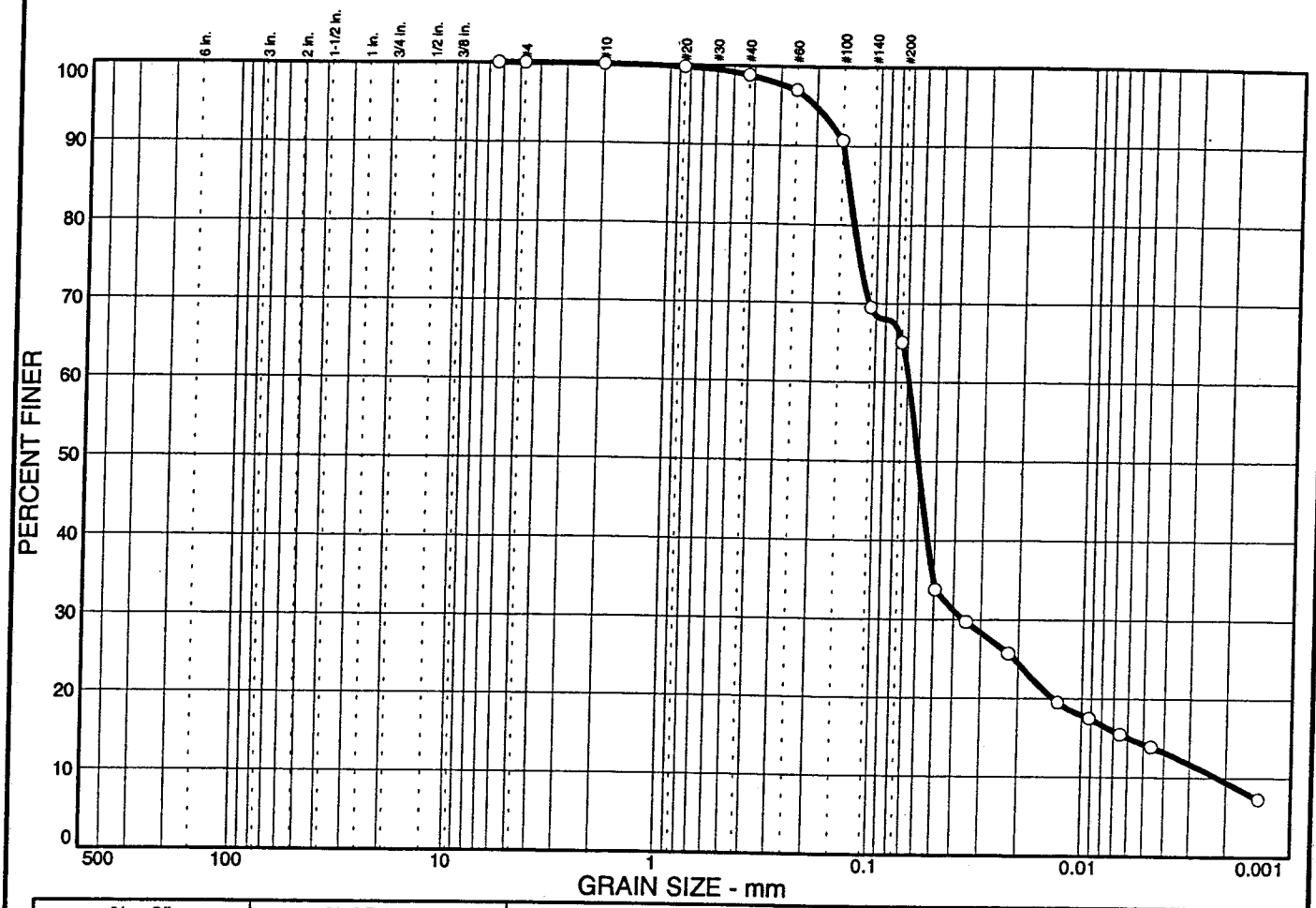
Remarks

Sample No.: 017 **Source of Sample:** 920839 **Date:** 3/28/02
Location: FW-RM-08-CS-2.3-4.4 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	34.9	50.8	14.3

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.7		
#40	98.8		
#60	97.0		
#100	90.7		
#140	69.5		
#200	65.1		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.139 D_{60}= 0.0687 D_{50}= 0.0608
D_{30}= 0.0360 D_{15}= 0.0059 D_{10}= 0.0022
C_u= 31.30 C_c= 8.60

Classification

USCS= AASHTO=

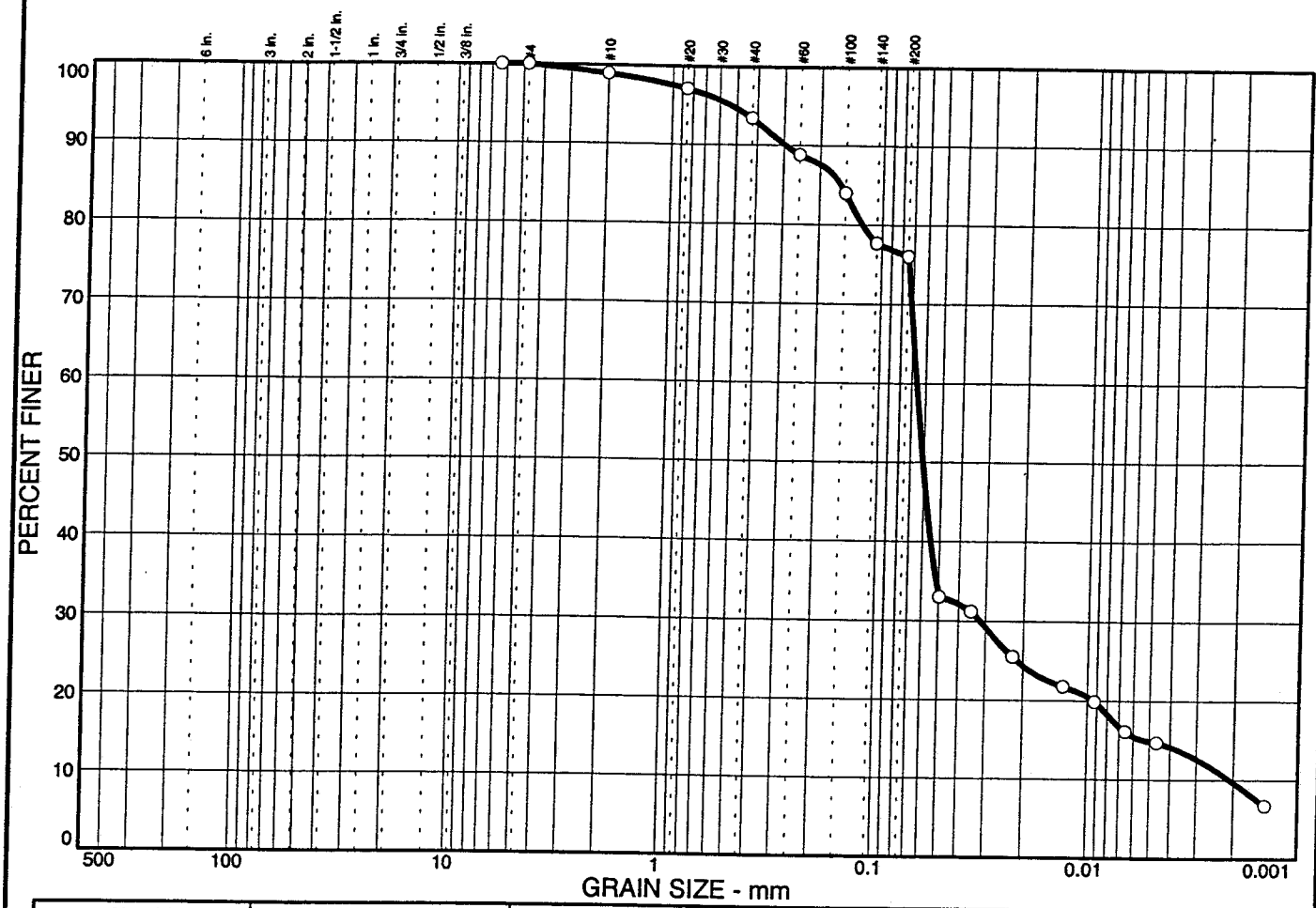
Remarks

Sample No.: 018 **Source of Sample:** 920839 **Date:** 3/28/02
Location: FW-RM-08-CS-1.0-2.3 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	23.9	61.2	14.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	98.9		
#20	97.1		
#40	93.4		
#60	88.8		
#100	84.0		
#140	77.7		
#200	76.1		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.158 D_{60}= 0.0663 D_{50}= 0.0609
D_{30}= 0.0318 D_{15}= 0.0052 D_{10}= 0.0021
C_u= 31.83 C_c= 7.34

Classification

USCS= AASHTO=

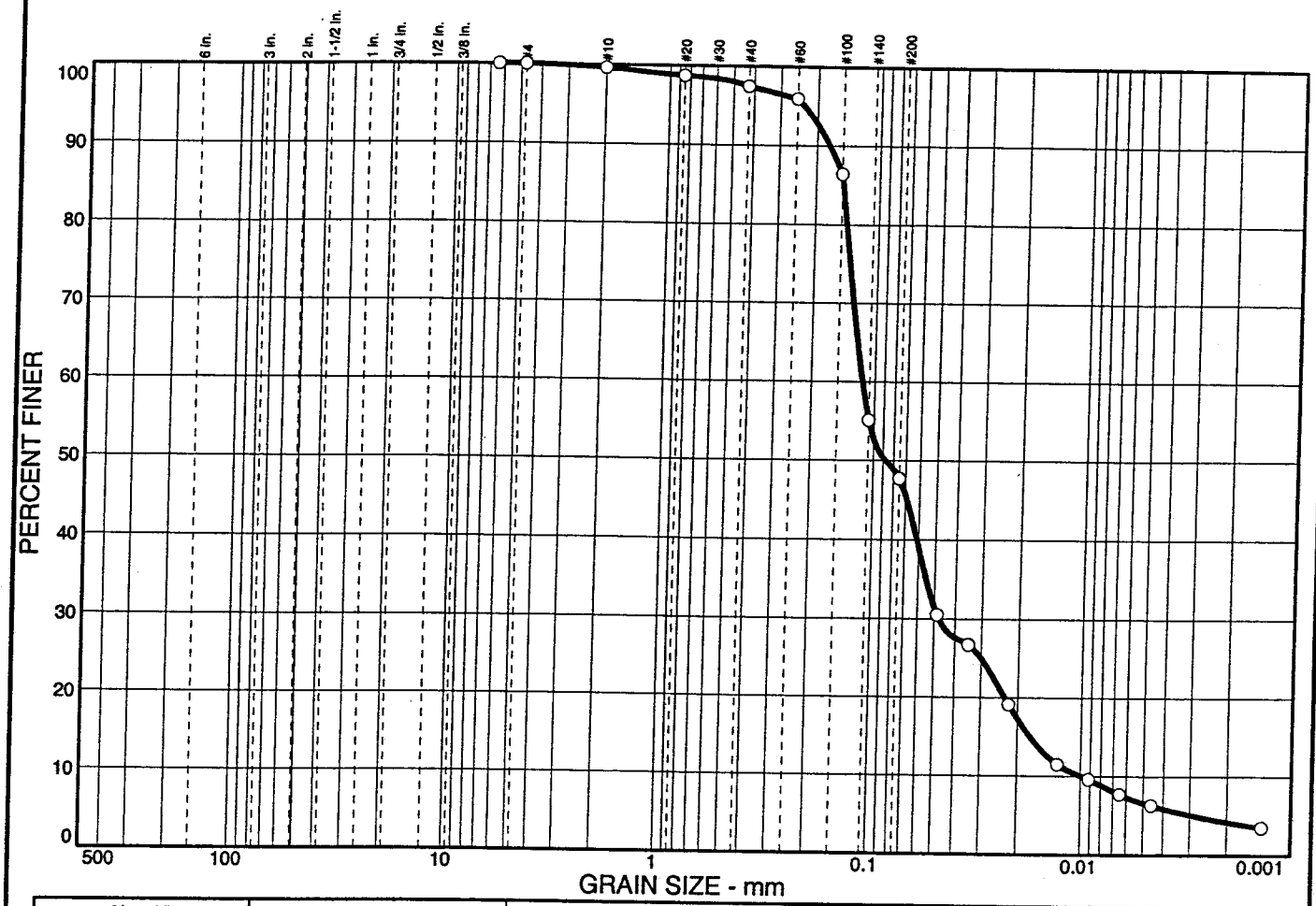
Remarks

Sample No.: 019 **Source of Sample:** 920839 **Date:** 3/28/02
Location: FW-RM-09-CS-1.0-3.5 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	52.3	41.1	6.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	99.6		
#20	98.7		
#40	97.4		
#60	95.9		
#100	86.4		
#140	55.1		
#200	47.7		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.148 D_{60}= 0.115 D_{50}= 0.0876
D_{30}= 0.0476 D_{15}= 0.0174 D_{10}= 0.0099
C_u= 11.53 C_c= 1.99

Classification

USCS= AASHTO=

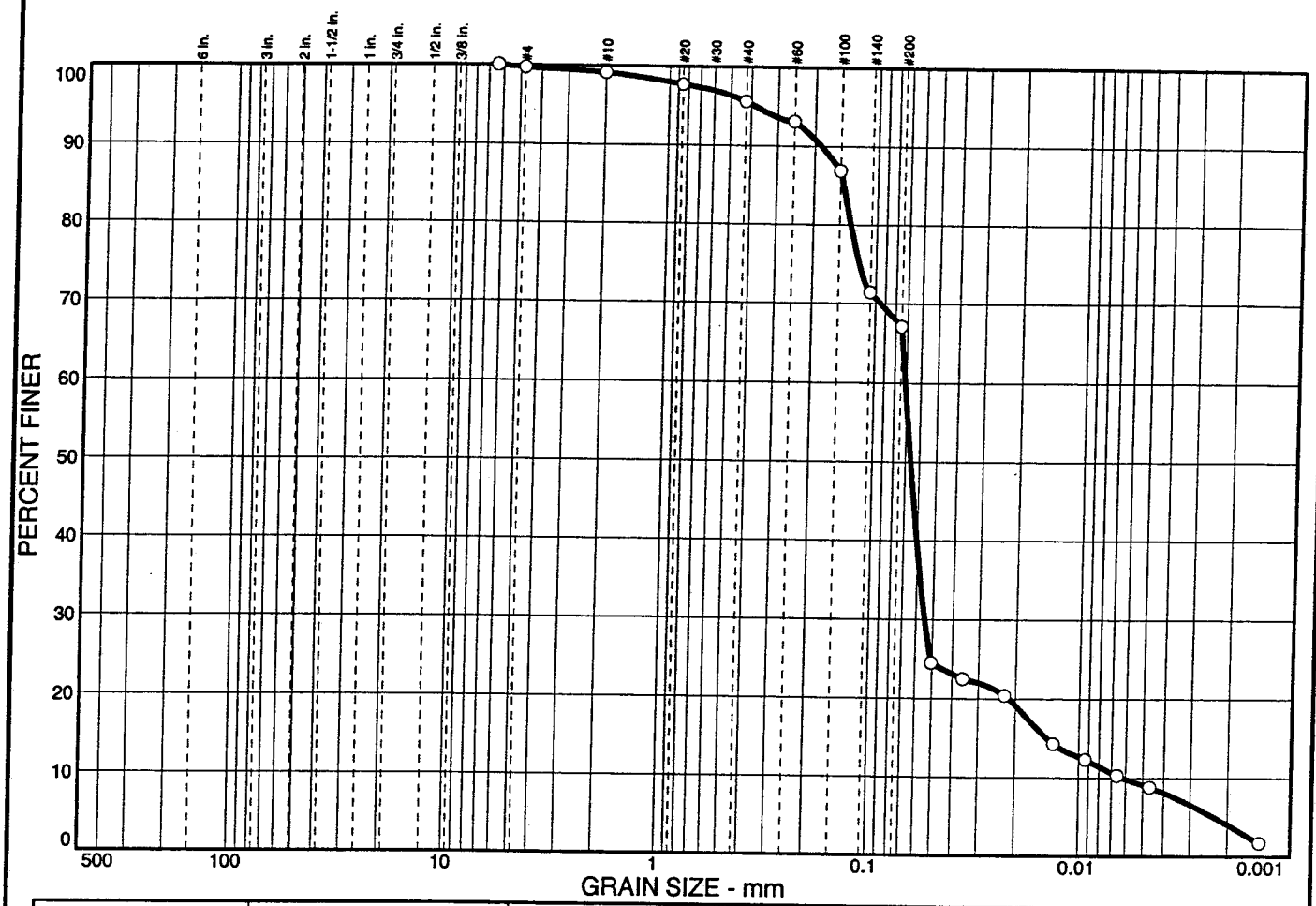
Remarks

Sample No.: 020 **Source of Sample:** 920839 **Date:** 4/1/02
Location: FW-RM-09-CS-3.5-4.9 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.3	32.6	58.0	9.1

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	99.7		
#10	99.1		
#20	97.7		
#40	95.6		
#60	93.1		
#100	86.9		
#140	71.4		
#200	67.1		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.145 D_{60}= 0.0711 D_{50}= 0.0658
D_{30}= 0.0546 D_{15}= 0.0141 D_{10}= 0.0062
C_u= 11.45 C_c= 6.73

Classification

USCS= AASHTO=

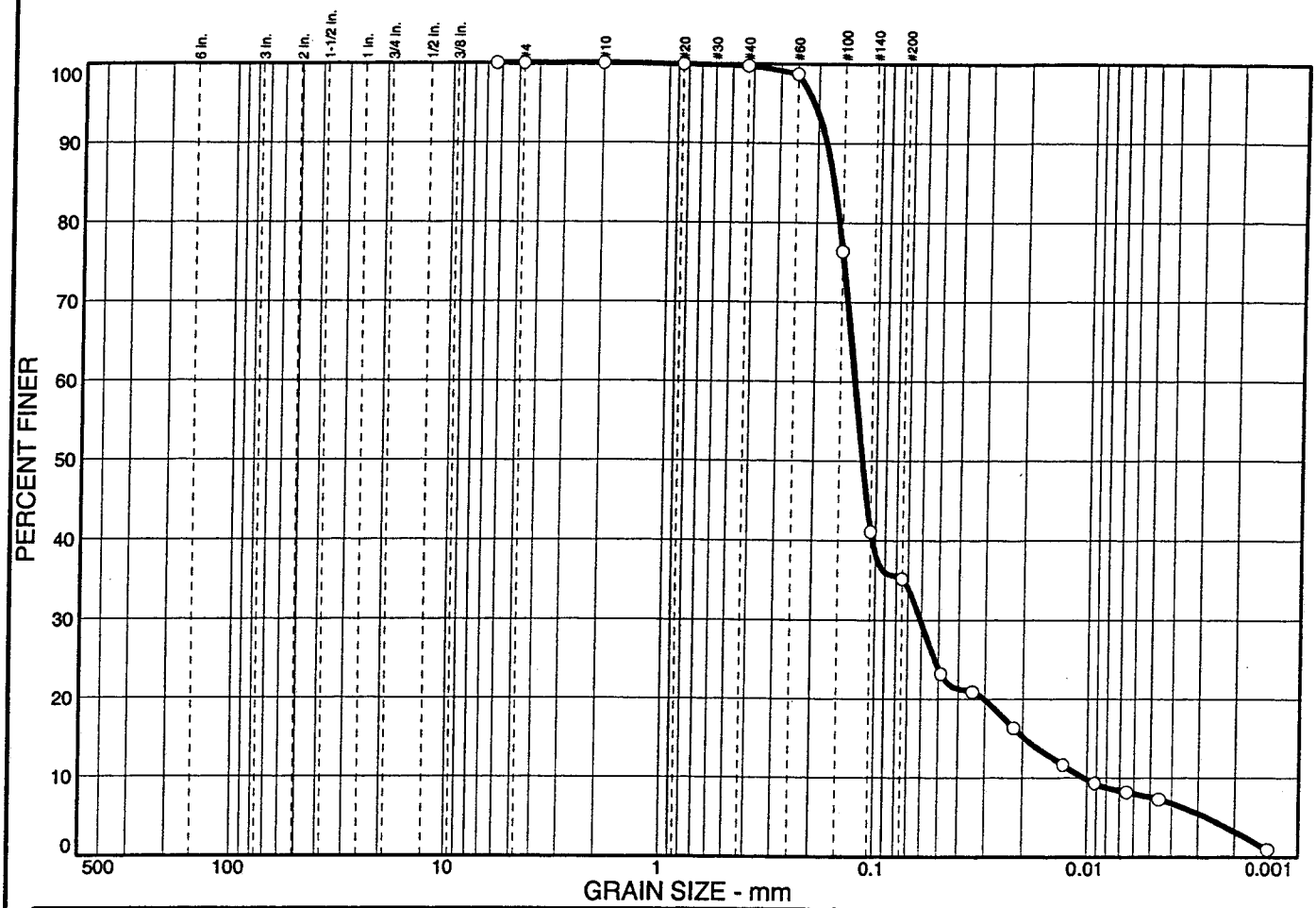
Remarks

Sample No.: 021 **Source of Sample:** 920839 **Date:** 4/1/02
Location: FW-RM-17-CS-0-1.5 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	64.8	27.6	7.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.9		
#40	99.7		
#60	98.7		
#100	76.4		
#140	41.1		
#200	35.2		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.167 D_{60}= 0.129 D_{50}= 0.118
D_{30}= 0.0608 D_{15}= 0.0195 D_{10}= 0.0103
C_u= 12.50 C_c= 2.77

Classification

USCS= AASHTO=

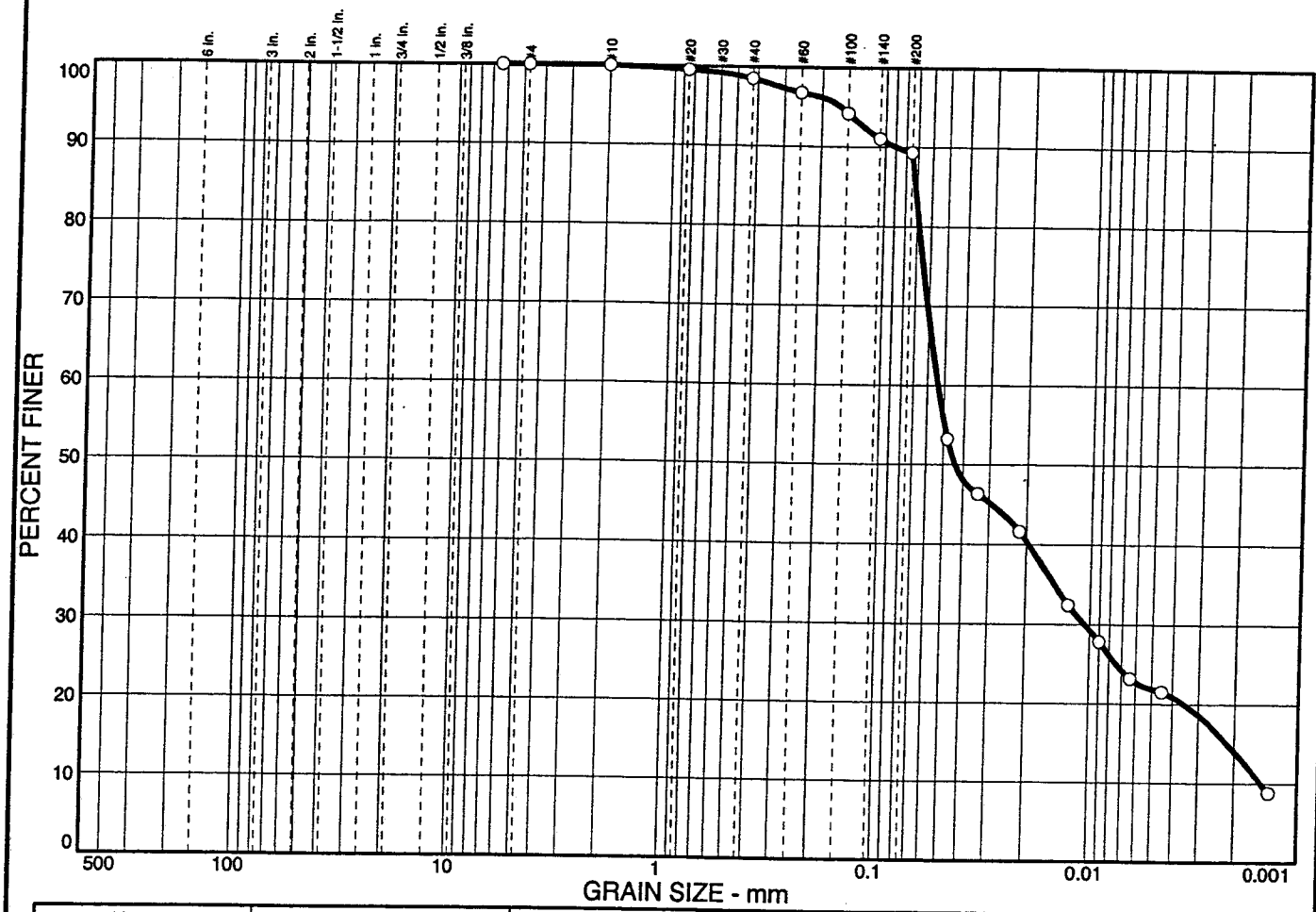
Remarks

Sample No.: 023 **Source of Sample:** 920839 **Date:** 4/1/02
Location: FW-RM-17-CS-1.5-3.5 **Elev./Depth:**

RMT, Inc.	Client:
	Project: EN CHEM
	Project No: 4241.01 Figure:

JTRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	10.7	67.4	21.9

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	100.0		
#20	99.5		
#40	98.5		
#60	96.8		
#100	94.2		
#140	91.0		
#200	89.3		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.0718 D_{60}= 0.0536 D_{50}= 0.0436
D_{30}= 0.0106 D_{15}= 0.0022 D_{10}= 0.0015
C_u= 36.09 C_c= 1.41

Classification

USCS= AASHTO=

Remarks

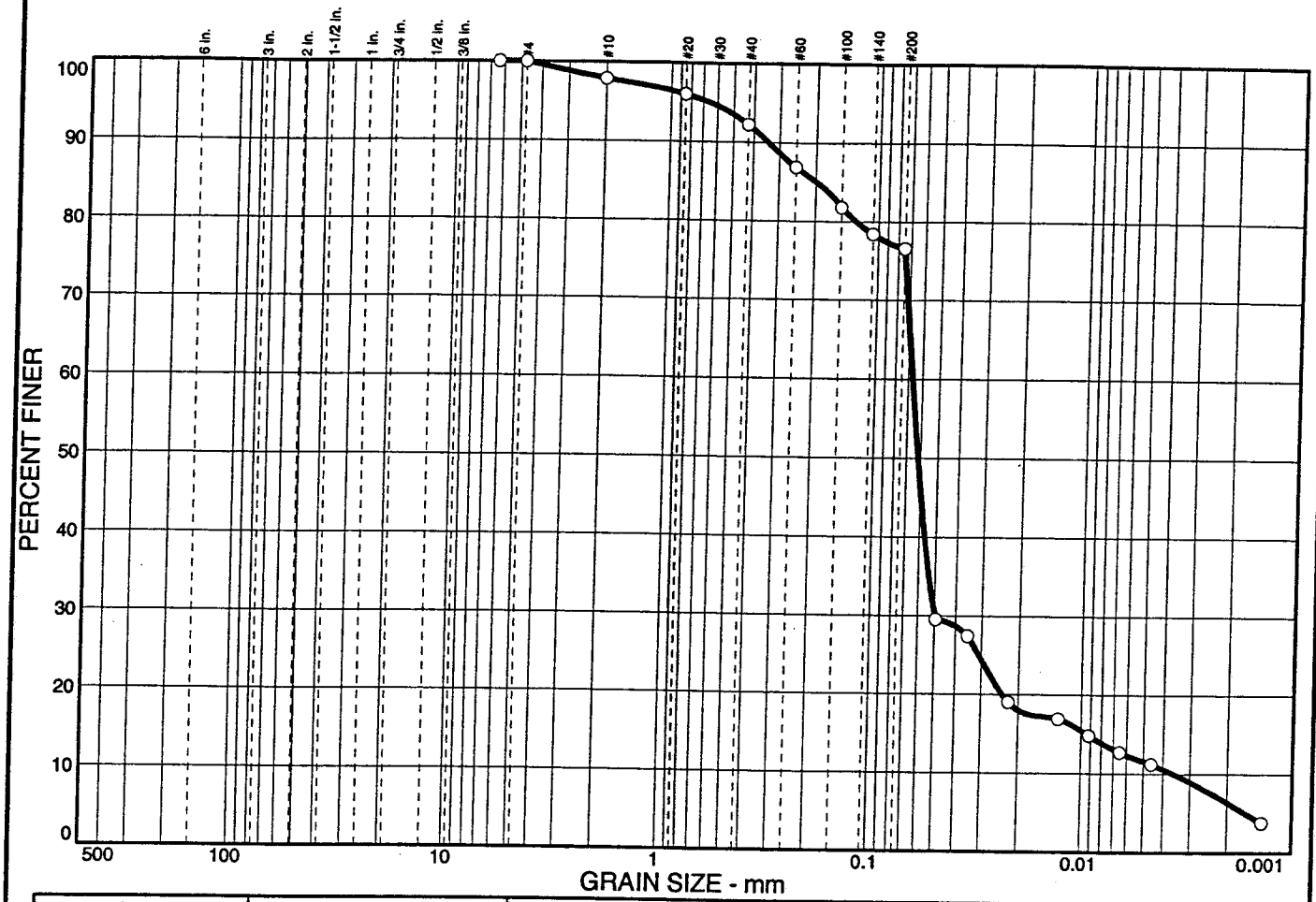
Sample No.: 024 **Source of Sample:** 920839 **Date:** 4/1/02
Location: FW-RM-01-CS-1.0-2.0 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**

JTRS

GRAIN SIZE DISTRIBUTION TEST REPORT



% + 3"	% GRAVEL	% SAND	% SILT	% CLAY
0.0	0.0	23.4	65.0	11.6

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
.25 in.	100.0		
#4	100.0		
#10	97.9		
#20	96.0		
#40	92.2		
#60	86.9		
#100	81.8		
#140	78.4		
#200	76.6		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.198 D_{60}= 0.0667 D_{50}= 0.0618
D_{30}= 0.0497 D_{15}= 0.0094 D_{10}= 0.0036
C_u= 18.64 C_c= 10.34

Classification

USCS= AASHTO=

Remarks

Sample No.: 025 **Source of Sample:** 920839 **Date:** 4/1/02
Location: FW-RM-01-CS-2.0-3.9 **Elev./Depth:**

RMT, Inc.

Client:
Project: EN CHEM
Project No: 4241.01 **Figure:**