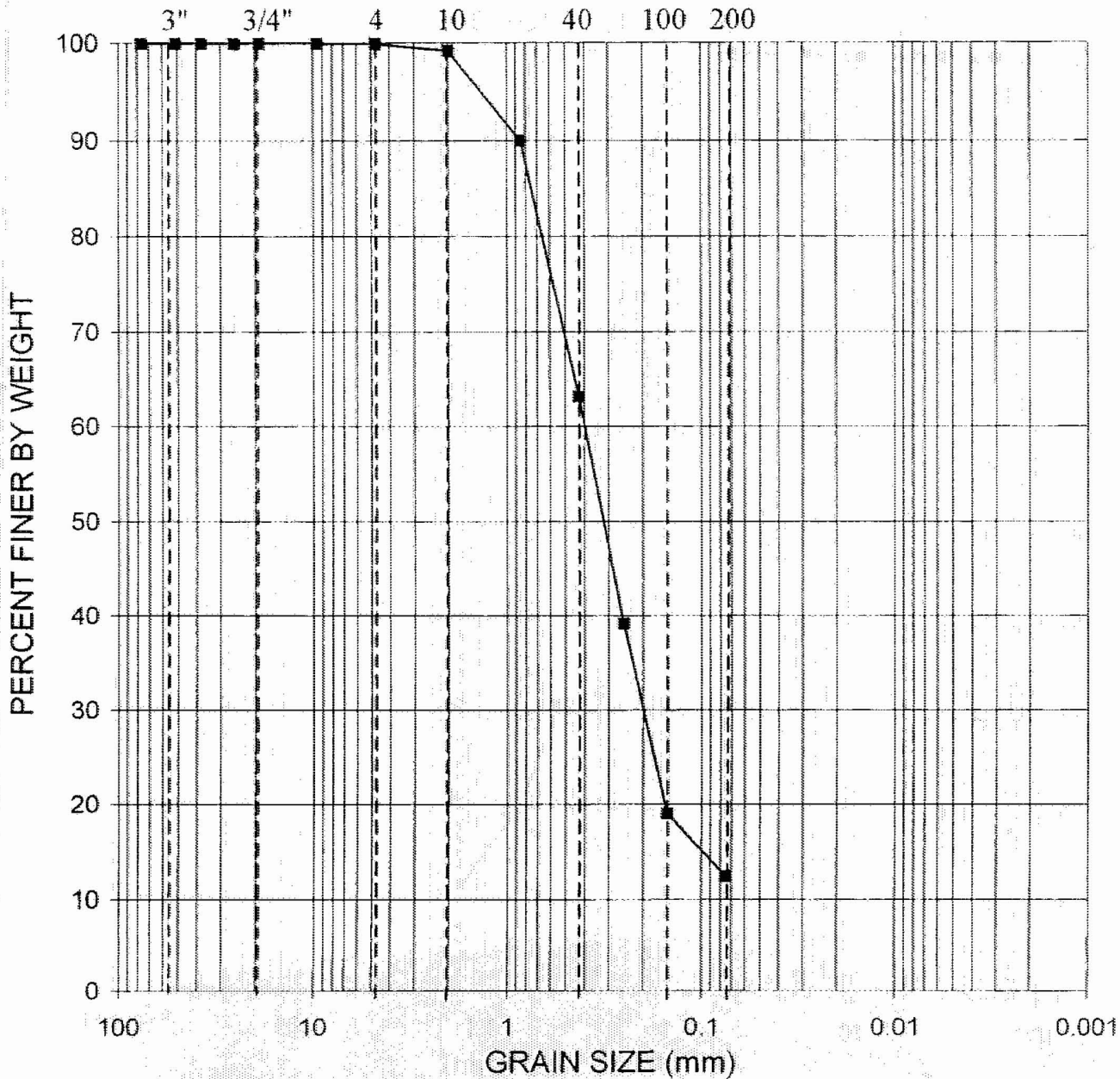


U.S. Standard Sieve Nos.

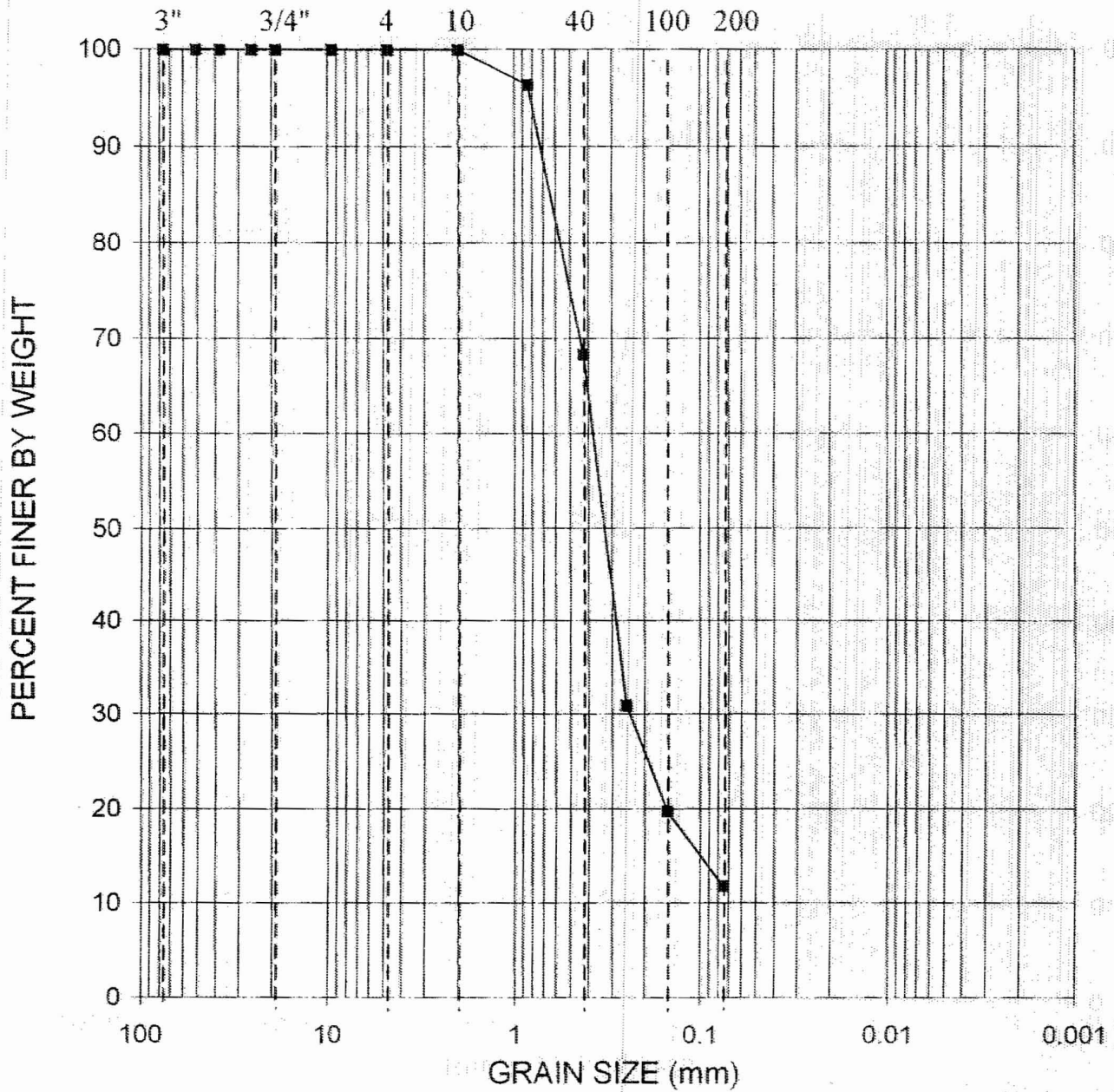


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No.: 06120048.00	Date: 9/14/2006			
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI	 Schnabel Engineering
B-423	2.5	Silty SAND, brown	SM			

U.S. Standard Sieve Nos.

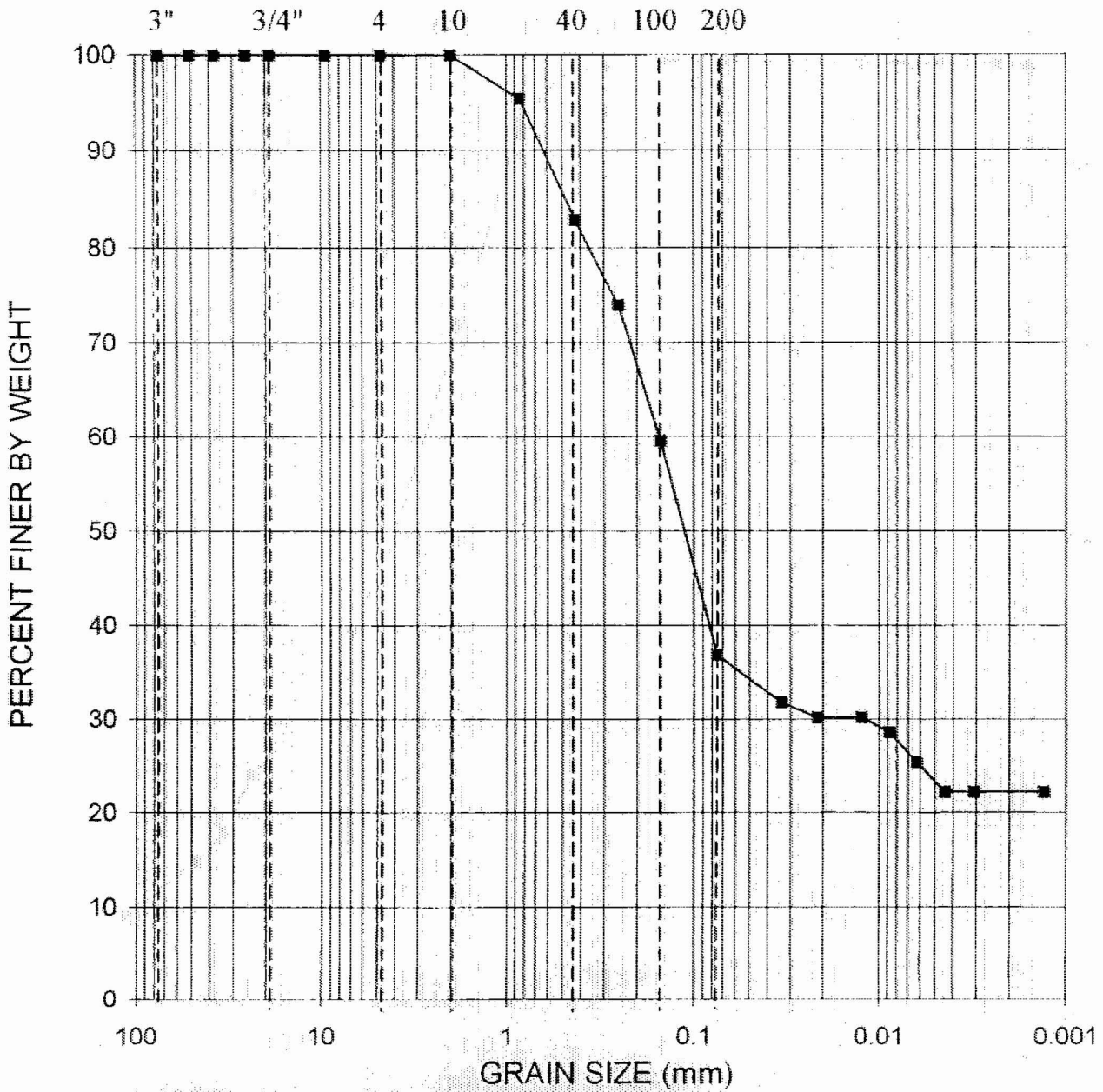


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

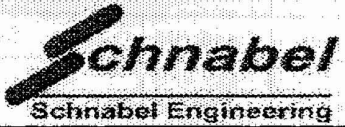
Project	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.	06120048.00	Date	9/14/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI	
B-423	23.5	Poorly Graded SAND, with silt, brown	SP-SM			

U.S. Standard Sieve Nos.

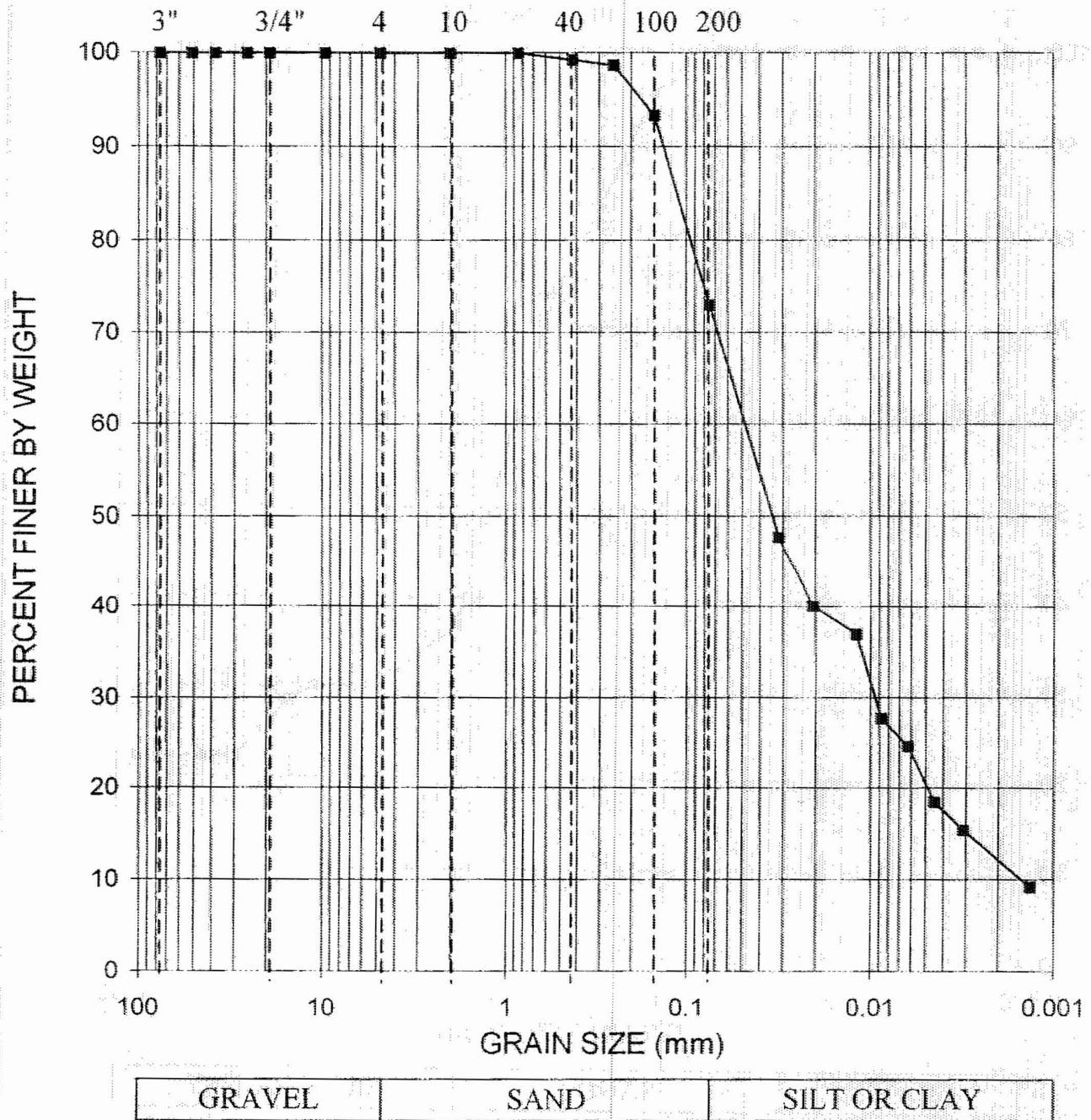


GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date:	9/21/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-423	38.5	Clayey SAND, light gray-brown	SC	43	28		

U.S. Standard Sieve Nos.

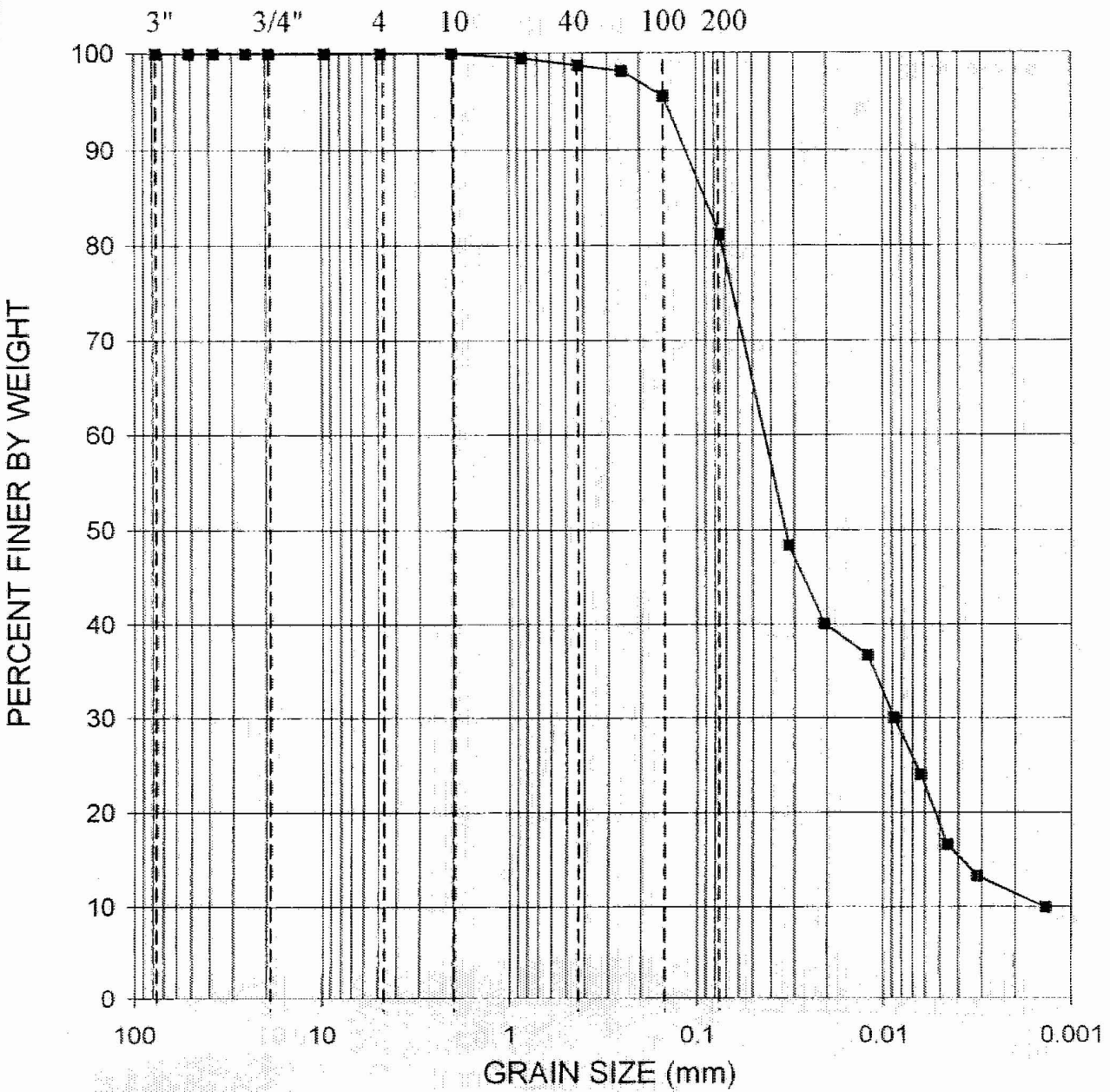


GRADATION CURVE

ASTM D422


Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/21/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-423	43.5	FAT CLAY, with sand, gray	CH	55	35		

U.S. Standard Sieve Nos.

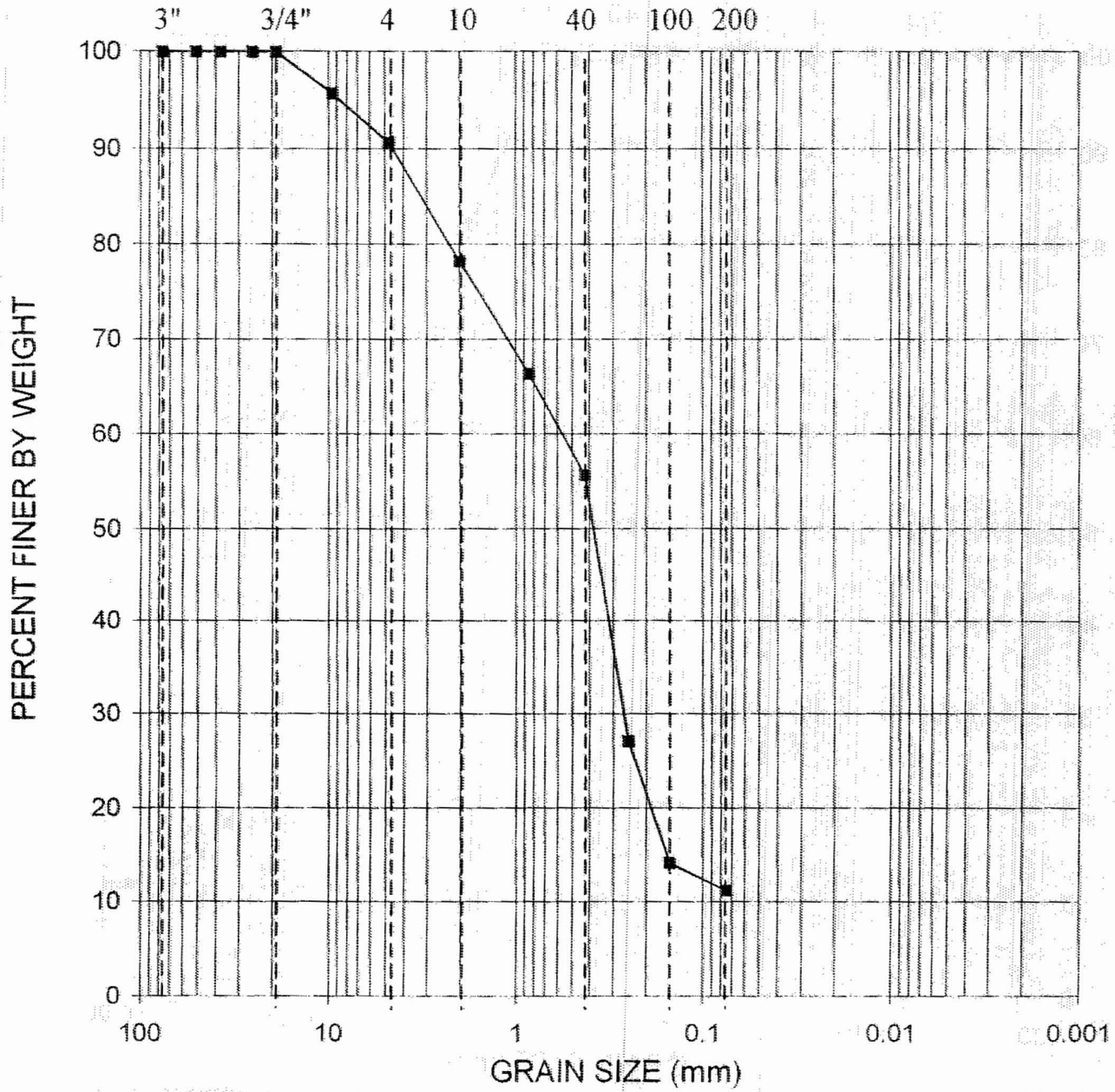


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/22/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-423	53.5	FAT CLAY, with sand, dark gray	CH	80	46		

U.S. Standard Sieve Nos.

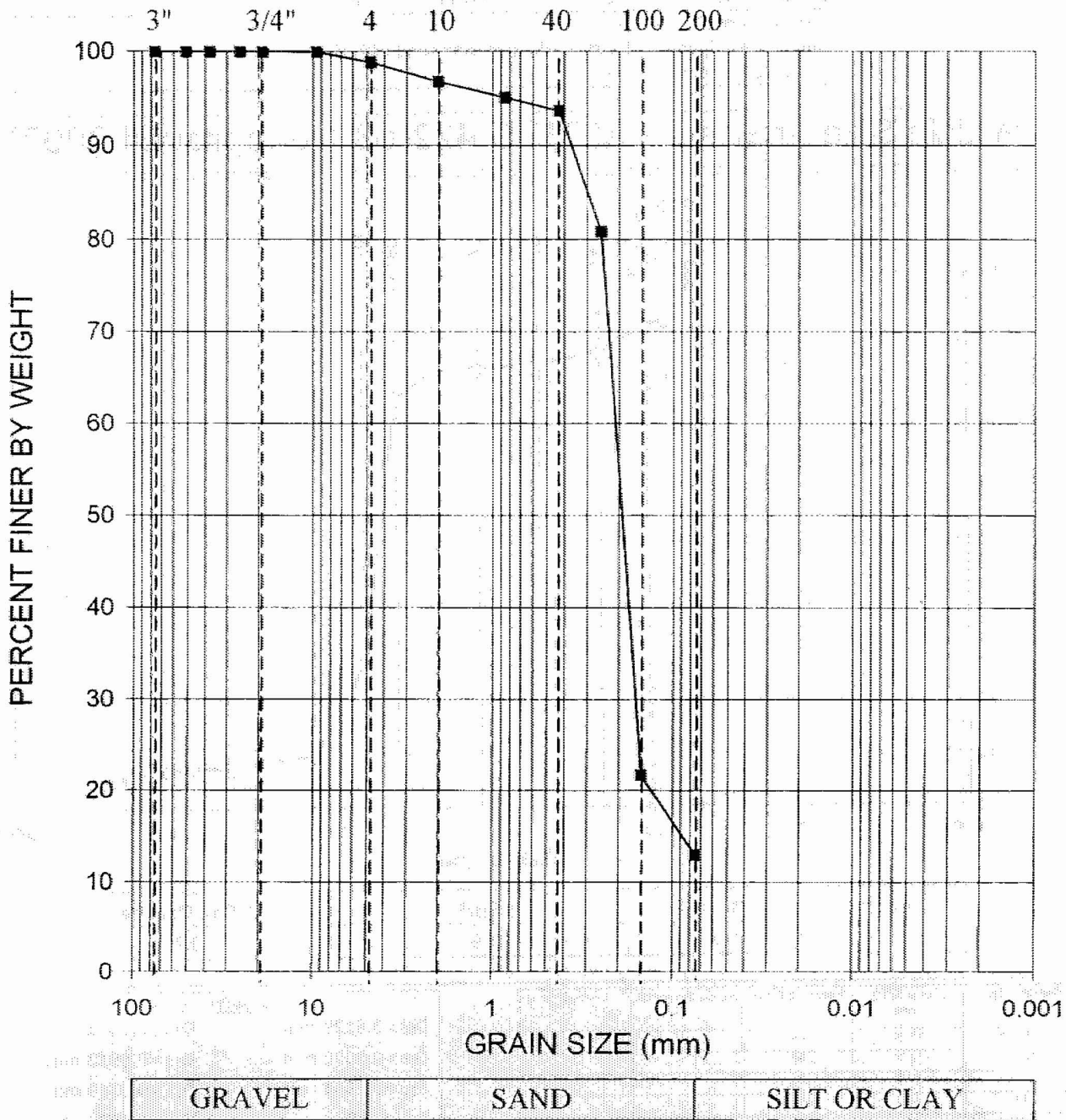


GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	06120048.00	Date:	9/14/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI	
B-423	78.5	Sandy SILT, trace shells, green	ML			

U.S. Standard Sieve Nos.

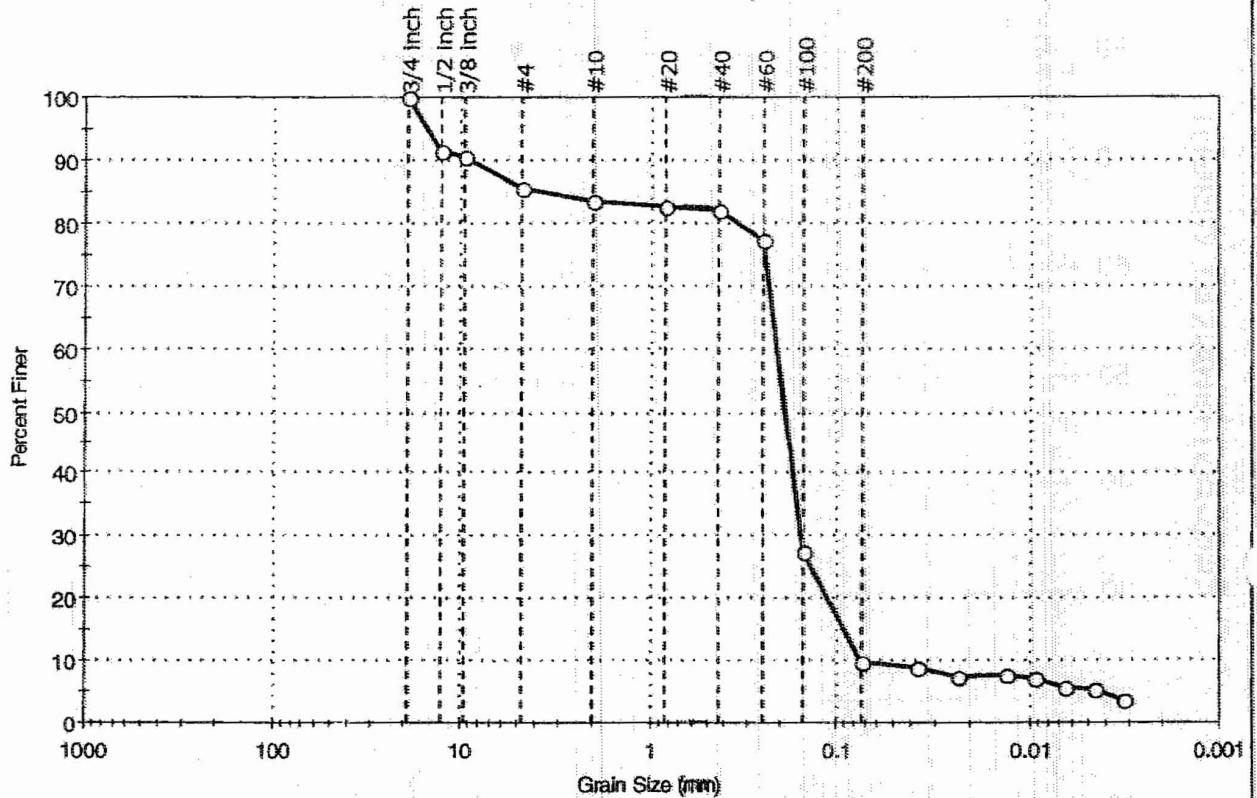


GRADATION CURVE
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No. 06120048.00		Date: 9/14/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-423	93.5	Silty SAND, trace shells, gray	SM				

Client: Schnabel Engineering, Inc.
 Project: Subsurface Investigation Calvert Cliffs Nuclear PP
 Location: Calvert County, MD Project No: GTX-6880
 Boring ID: B-423 Sample Type: tube Tested By: sam
 Sample ID: S-24 Test Date: 10/25/06 Checked By: mcm
 Depth: 103.5-105.3 ft Test ID: 98379
 Test Comment: ---
 Sample Description: Moist, dark olive gray sand with clay
 Sample Comment: ---

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	14.4	75.9	9.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/4 inch	19.00	100		
1/2 inch	12.70	92		
3/8 inch	9.51	91		
#4	4.75	86		
#10	2.00	84		
#20	0.84	83		
#40	0.42	82		
#60	0.25	77		
#100	0.15	27		
#200	0.074	10		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0373	9		
---	0.0231	7		
---	0.0132	8		
---	0.0093	7		
---	0.0066	6		
---	0.0046	5		
---	0.0032	3		

Coefficients

D₈₅ = 3.6129 mm D₃₀ = 0.1531 mm
 D₆₀ = 0.2090 mm D₁₅ = 0.0913 mm
 D₅₀ = 0.1884 mm D₁₀ = 0.0749 mm
 C_u = 2.790 C_c = 1.497

Classification

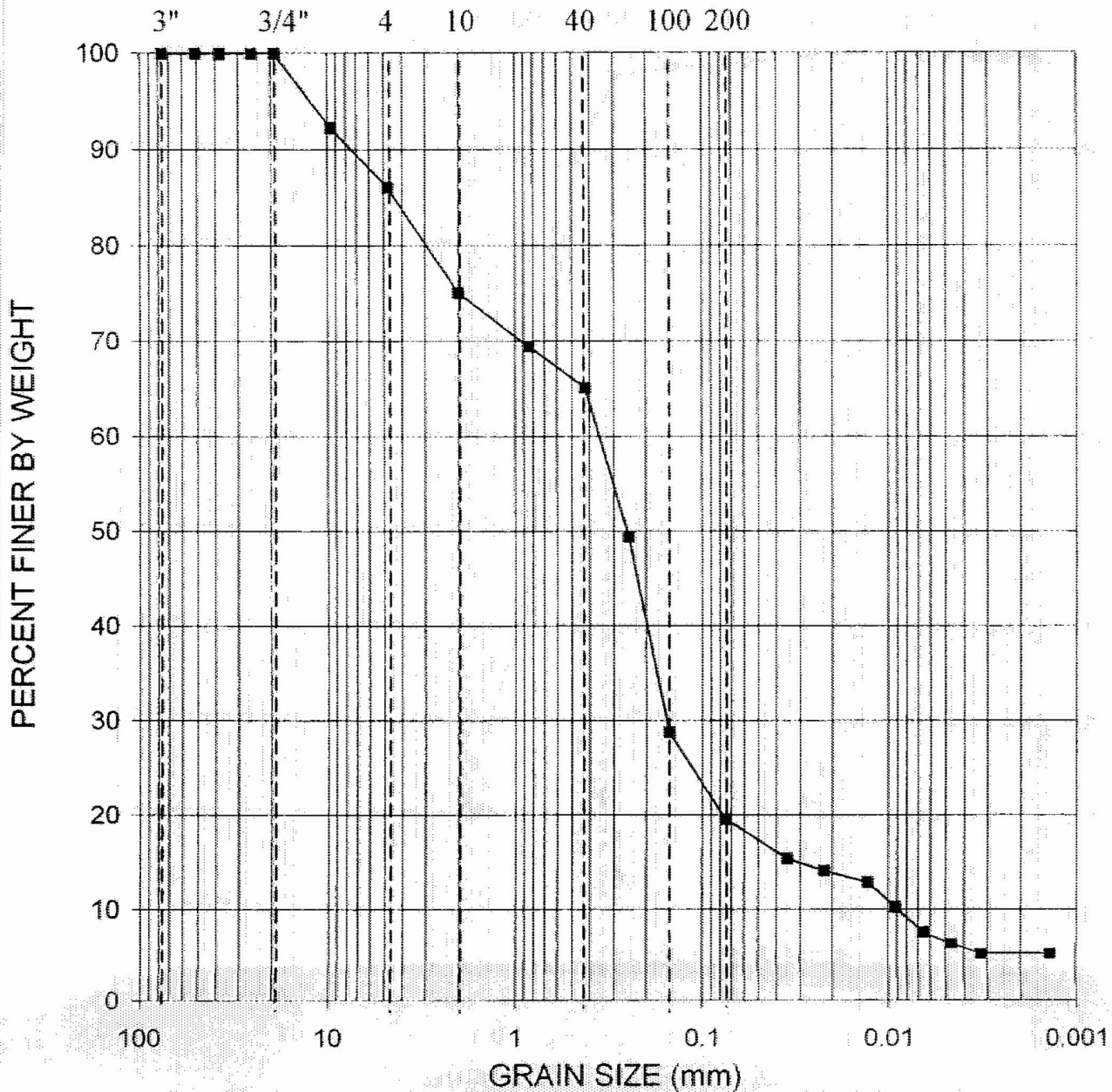
ASTM Poorly graded sand with silty clay (SP-SC)

AASHTO Silty Gravel and Sand (A-2-4 (0))

Sample/Test Description


Sand/Gravel Particle Shape : ANGULAR
 Sand/Gravel Hardness : HARD

U.S. Standard Sieve Nos.

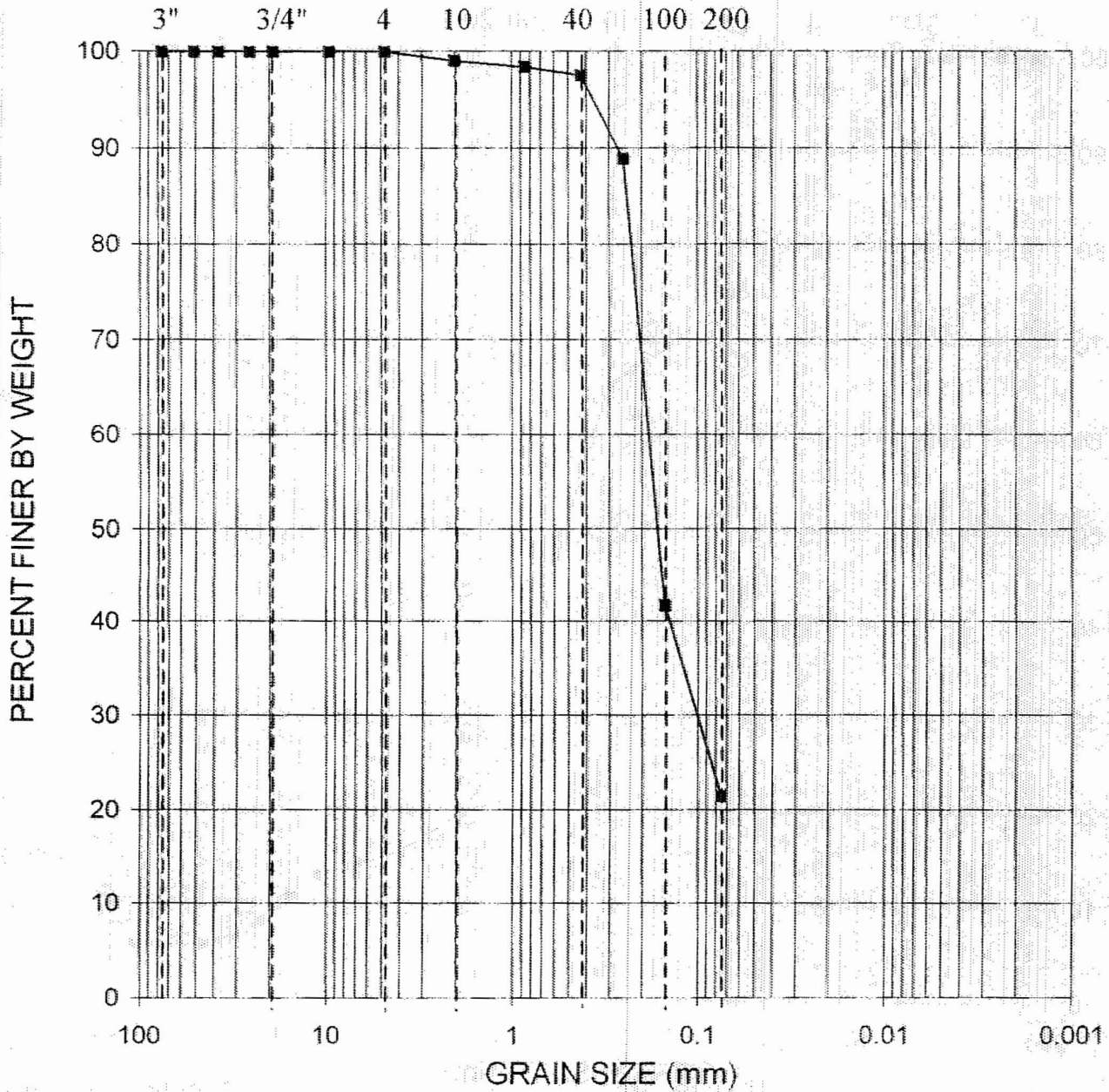


GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

Project	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.	06120048.00	Date	9/22/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-423	118.5	Silty SAND, trace shells, green	SM	NP	NP		

U.S. Standard Sieve Nos.

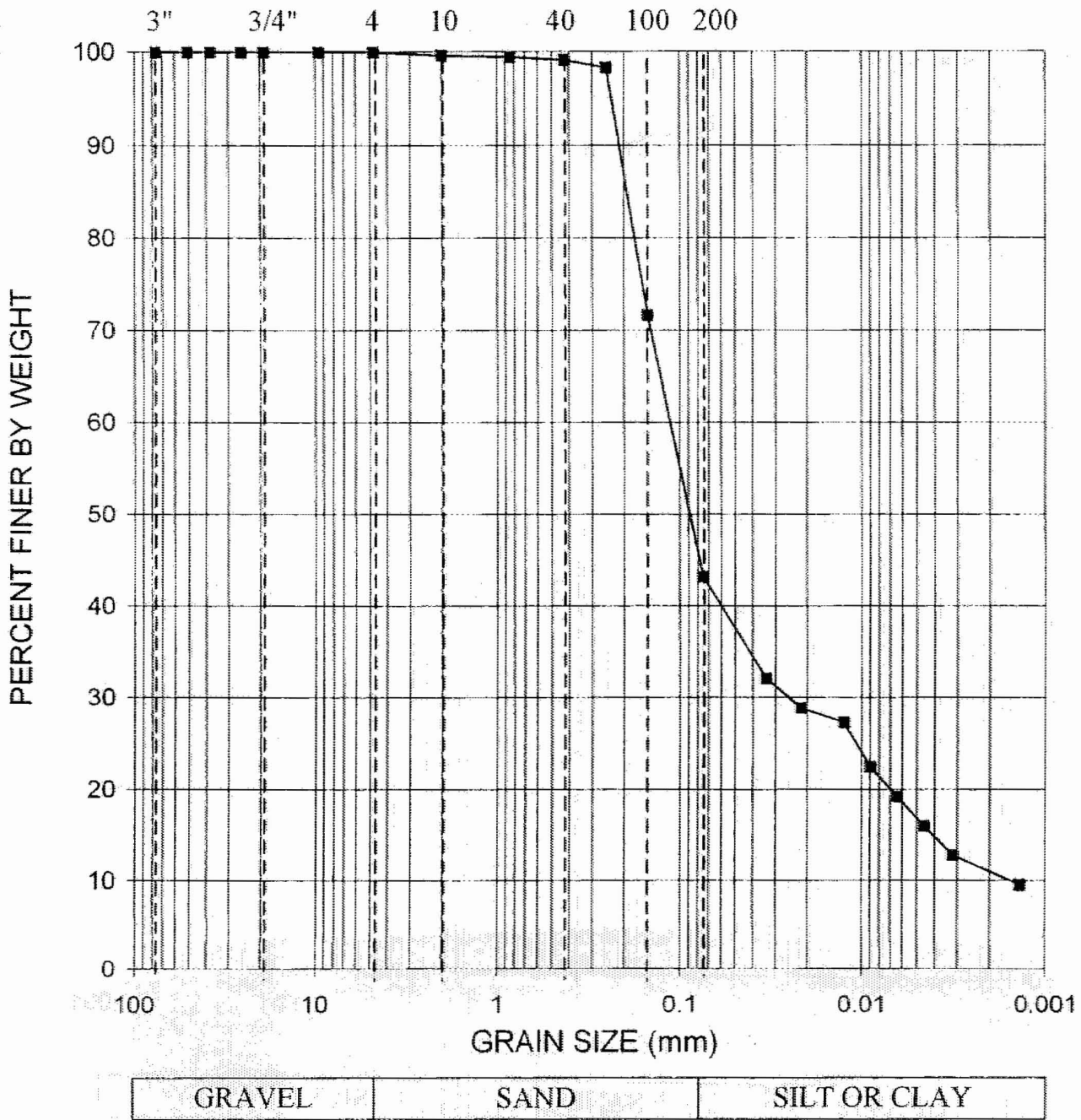


GRAVEL SAND SILT OR CLAY

GRADATION CURVE
ASTM D422

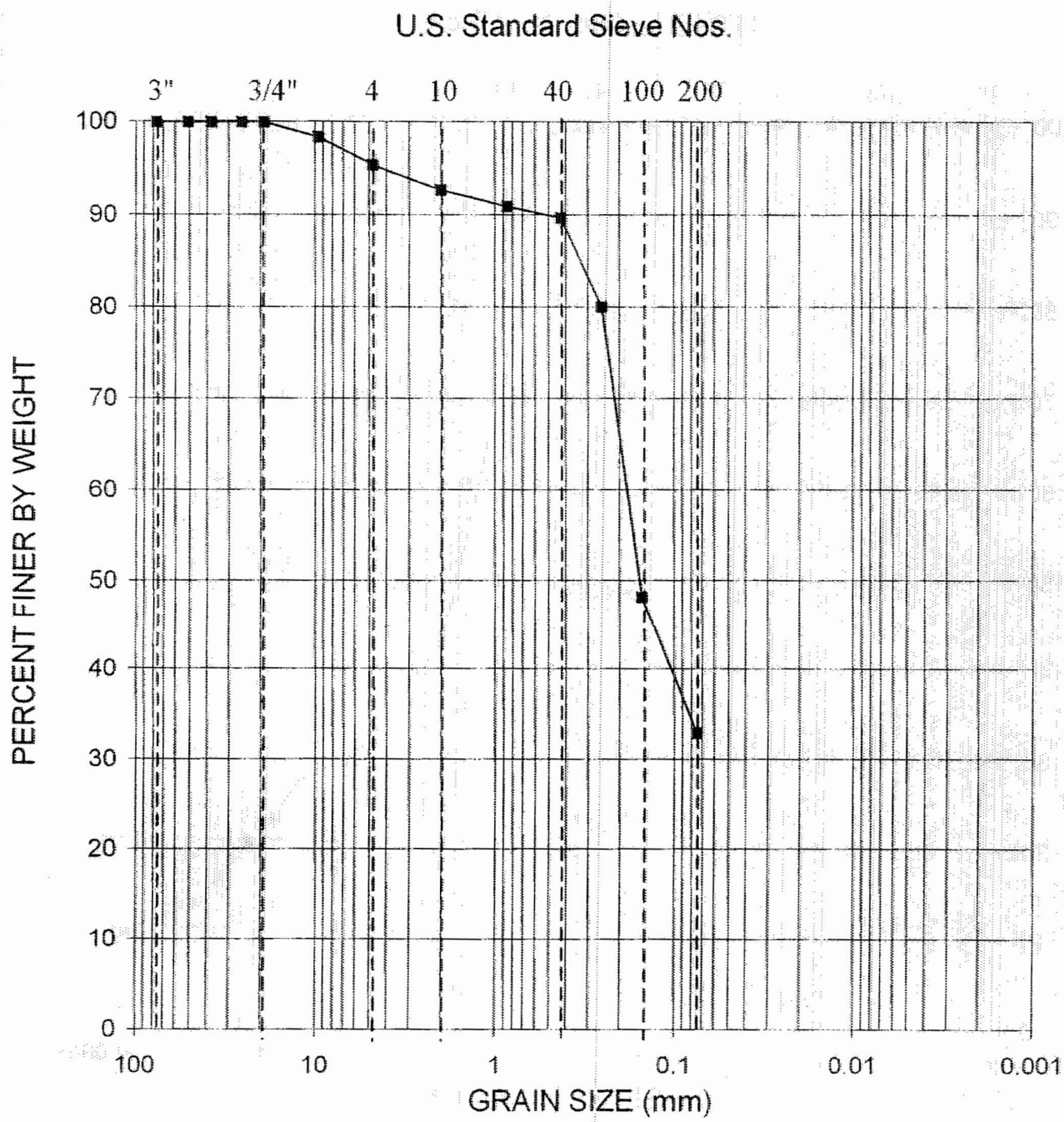
Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No. 06120048.00		Date: 9/14/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-423	128.5	Silty SAND, contains shells, green	SM				

U.S. Standard Sieve Nos.



GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/22/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-423	138.5	Silty SAND, contains shells, green	SM				



GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE
ASTM D422

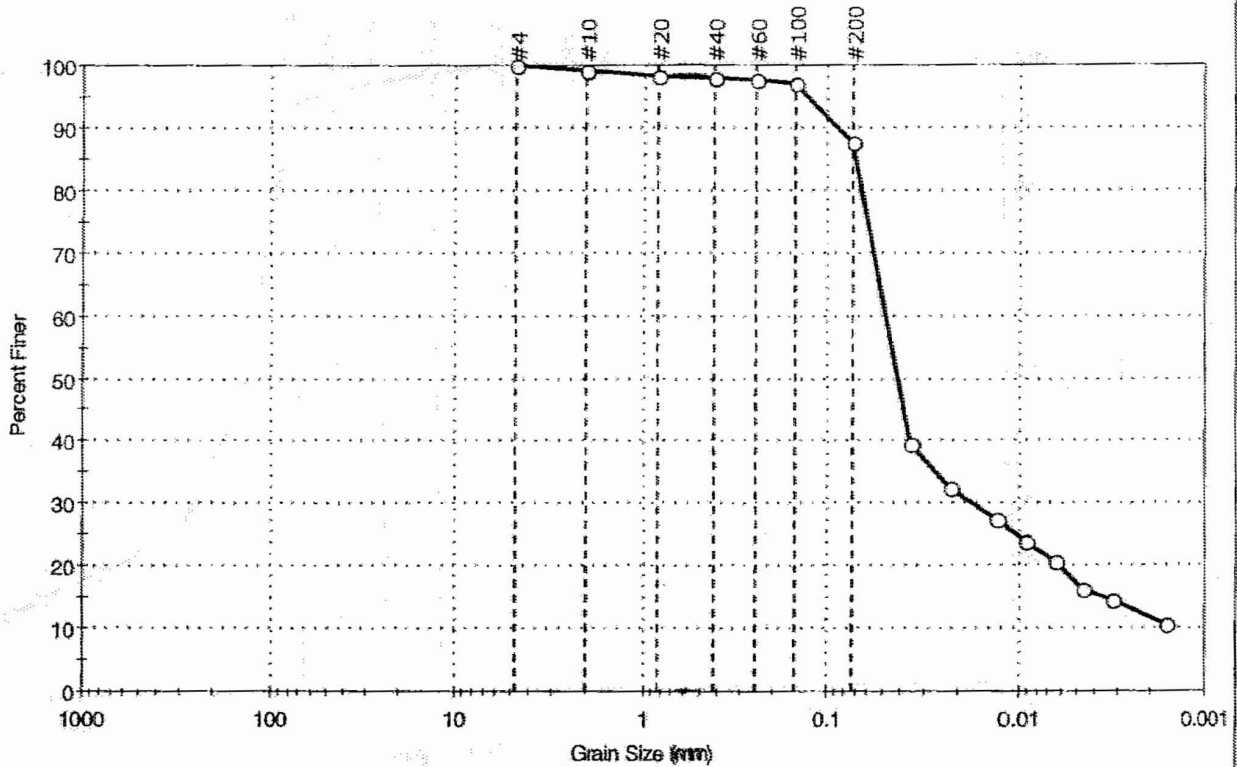
Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/14/2006
Boring No.:	Depth (ft):	Sample Description	Class:	LL	PI		
B-423	148.5	Silty SAND, trace shells, green	SM				

GeoTesting express

a subsidiary of Geocomp Corporation

Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Project No: GTX-6880
Location: Calvert County, MD	Boring ID: B-423	Sample Type: tube
Tested By: sam	Sample ID: S-35	Test Date: 09/12/06
Checked By: mcm	Depth: 158.5-160.1 ft	Test ID: 95815
Test Comment: ---	Sample Description: Moist, olive gray organic clay	Sample Comment: ---

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	12.4	87.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	99		
#20	0.85	98		
#40	0.425	96		
#60	0.25	96		
#100	0.15	97		
#200	0.075	88		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0354	39		
---	0.0223	32		
---	0.0129	28		
---	0.0092	24		
---	0.0065	21		
---	0.0046	16		
---	0.0032	14		
---	0.0017	11		

Coefficients

D₈₅ = 0.0711 mm D₃₀ = 0.0171 mm
D₆₀ = 0.0485 mm D₁₅ = 0.0037 mm
D₅₀ = 0.0416 mm D₁₀ = 0.0015 mm
C_u = N/A C_c = N/A

Classification

ASTM organic clay (OH)

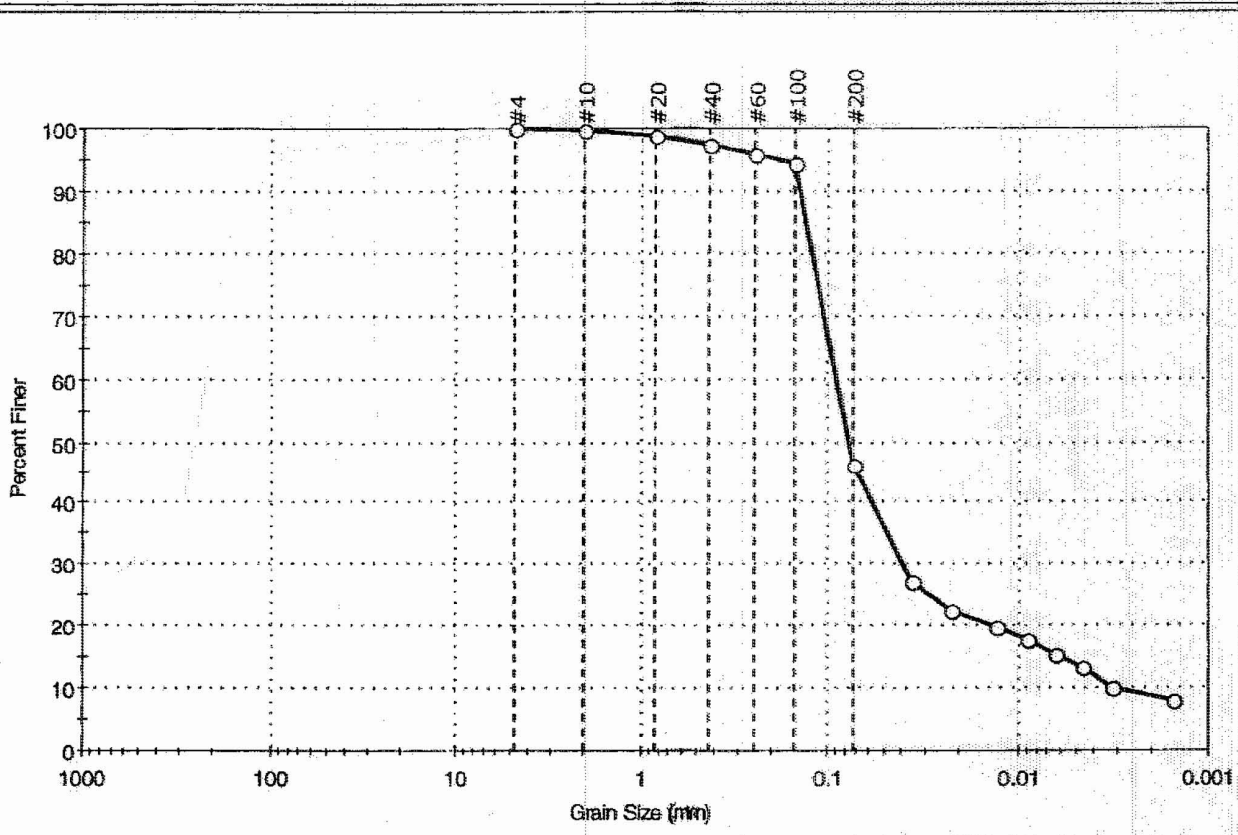
AASHTO Clayey Soils (A-7-6 (59))

Sample/Test Description

Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD

Client: Schnabel Engineering, Inc.
 Project: Subsurface Investigation Calvert Cliffs Nuclear PP
 Location: Calvert County, MD Project No: GTX-6880
 Boring ID: B-423 Sample Type: tube Tested By: sam
 Sample ID: S-39 Test Date: 09/28/06 Checked By: mcm
 Depth: 178.5-179.8 ft Test Id: 95825
 Test Comment: ---
 Sample Description: Dry, olive clayey sand
 Sample Comment: ---

Particle Size Analysis - ASTM D 422-63 (reapproved 2002)



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	53.6	46.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	99		
#40	0.42	97		
#60	0.25	96		
#100	0.15	94		
#200	0.074	46		
---	Particle Size, (mm)	Percent Finer	Spec. Percent	Complies
---	0.0356	27		
---	0.0223	22		
---	0.0128	20		
---	0.0091	18		
---	0.0065	15		
---	0.0046	13		
---	0.0033	10		
---	0.0015	8		

Coefficients

D ₈₅ = 0.1308 mm	D ₃₀ = 0.0398 mm
D ₆₀ = 0.0905 mm	D ₁₅ = 0.0060 mm
D ₅₀ = 0.0781 mm	D ₁₀ = 0.0031 mm
C _u = N/A	C _c = N/A

Classification
 ASTM Silty sand (SM)
 AASHTO Clayey Soils (A-7-5 (13))

Sample/Test Description
 Sand/Gravel Particle Shape : ---
 Sand/Gravel Hardness : ---