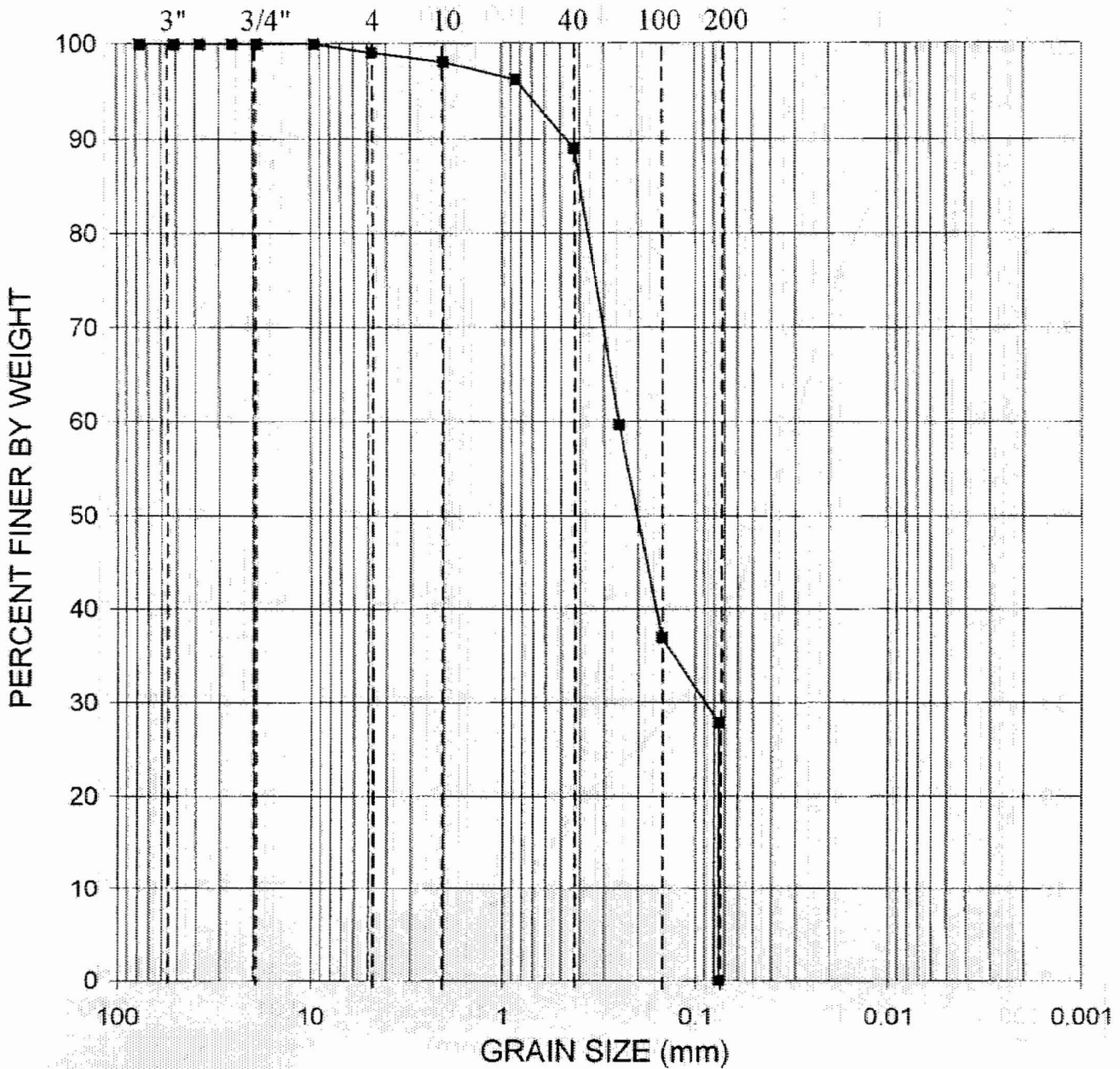


U.S. Standard Sieve Nos.

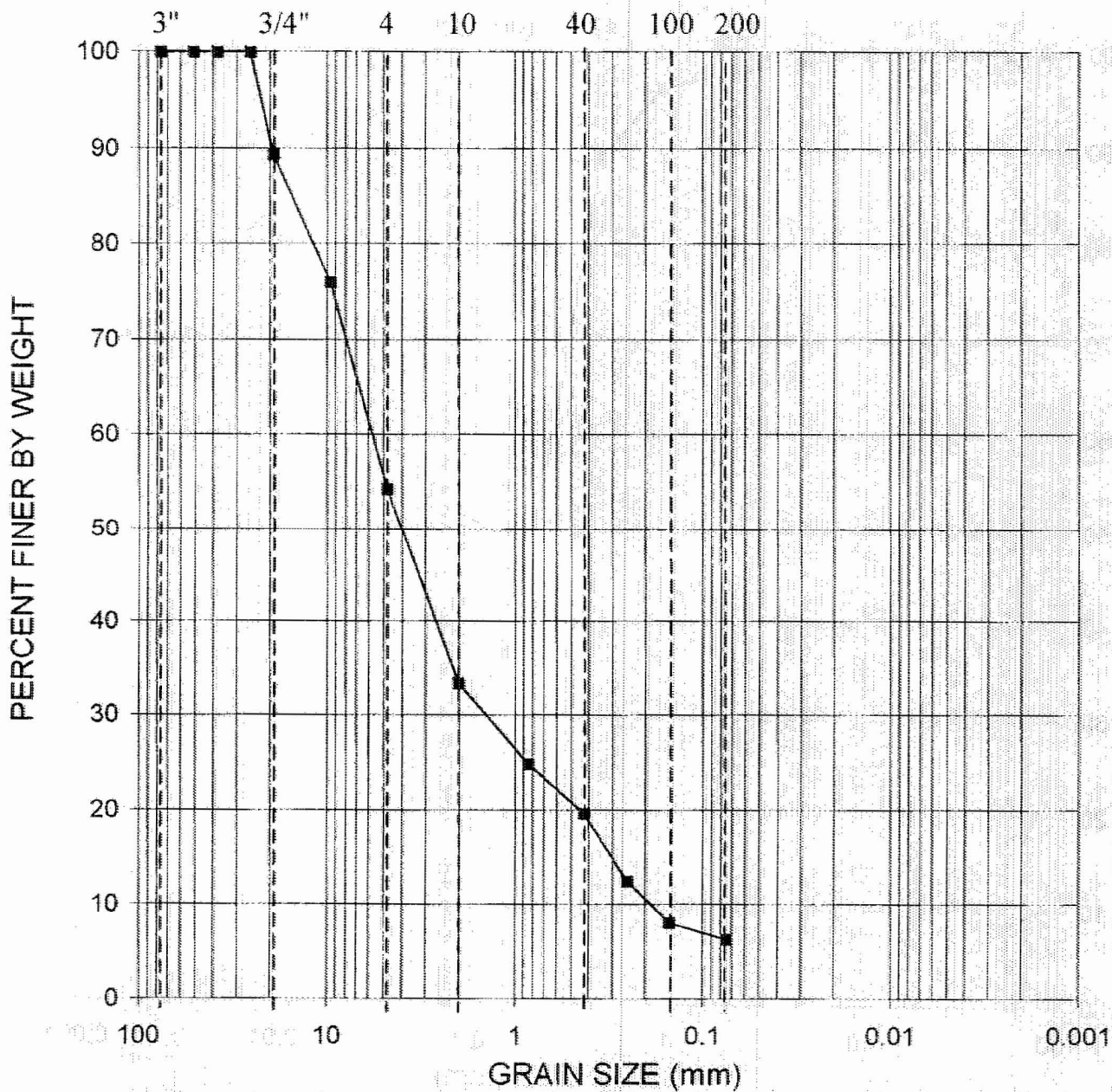


GRAVEL                      SAND                      SILT OR CLAY

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-701	7.5	Silty SAND, trace rock fragments, light brown	SM				

U.S. Standard Sieve Nos.



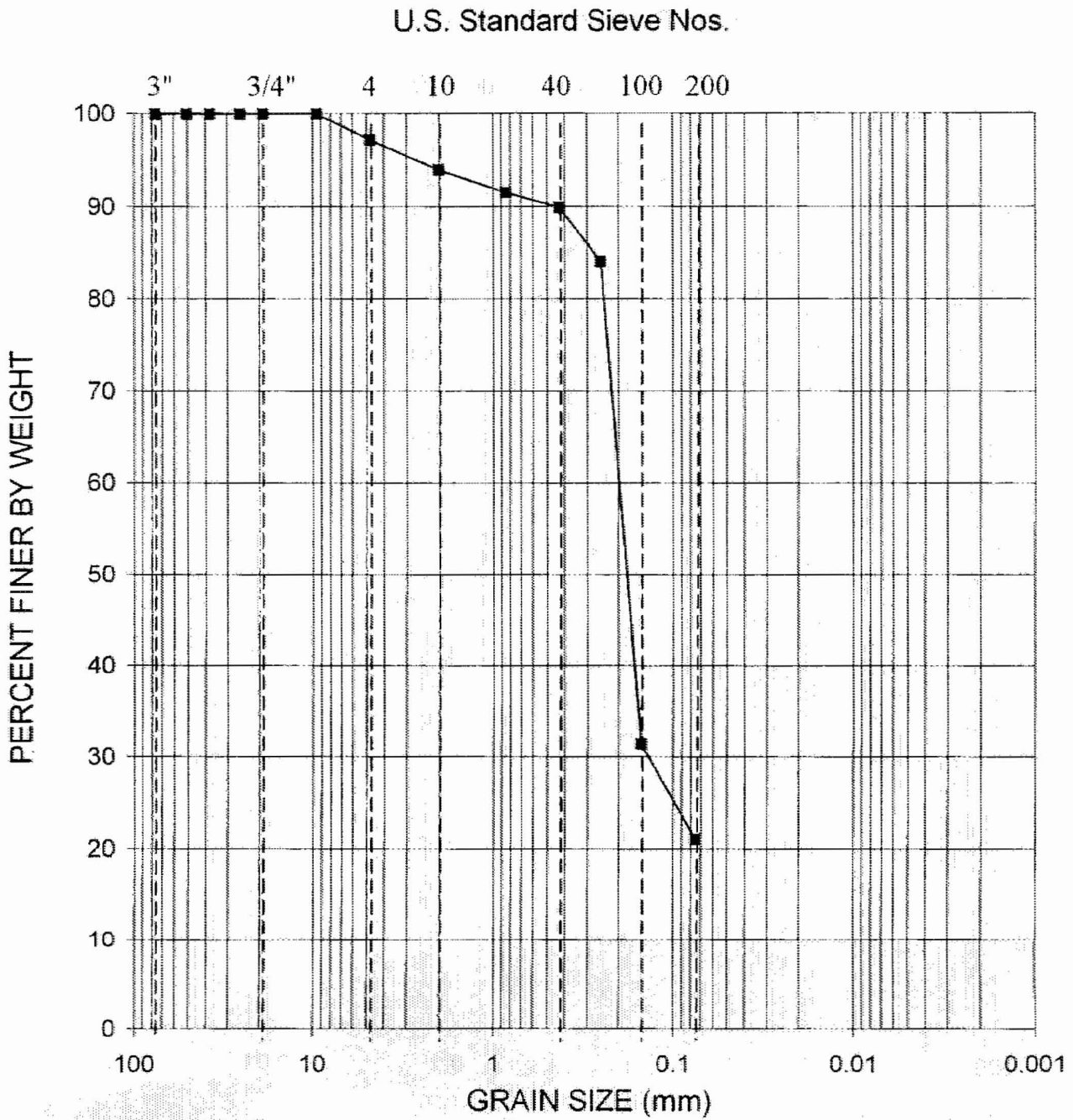
GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**

ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No.: 06120048.00	Date: 9/22/2006
Boring No.	Depth (ft)	Sample Description	Class. LL PI
B-701	10.5	Well Graded SAND, with silt and gravel, brown	SW-SM





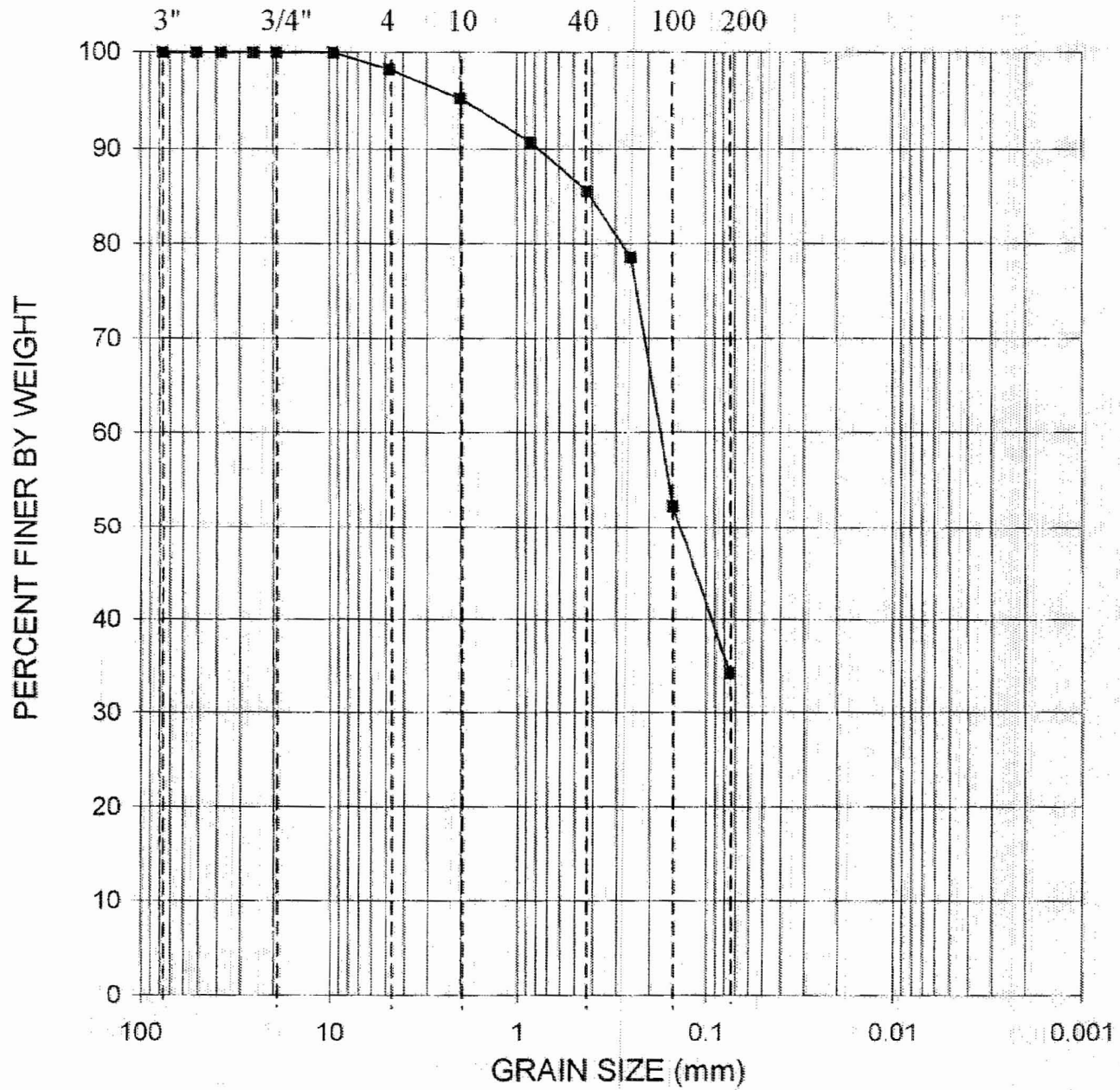
GRAVEL	SAND	SILT OR CLAY
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**GRADATION CURVE**  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland	Contract No.: 06120048.00	Date: 9/22/2006
Boring No.	Depth (ft)	Sample Description	Class. LL PI
B-701	18.5	Silty SAND, trace shells, gray	SM




U.S. Standard Sieve Nos.



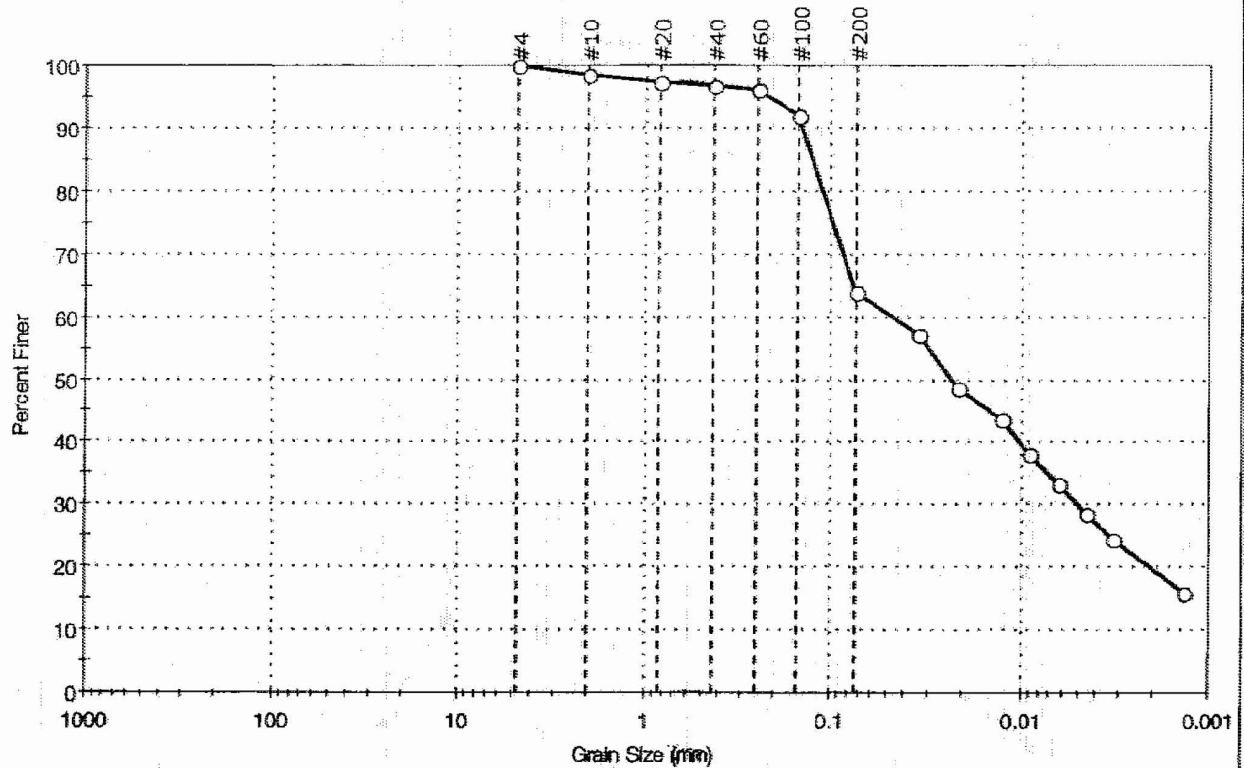
GRAVEL	SAND	SILT OR CLAY
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GRADATION CURVE  
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No. 06120048.00		Date: 9/24/2006	
Boring No.	Depth (ft)	Sample Description			Class.	LL	PI	
B-701	28.5	Silty SAND, trace shells, green			SM			

Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Project No: GTX-6880
Location: Calvert County, MD	Boring ID: B-701	Sample Type: tube
Sample ID: S-12	Test Date: 10/17/06	Tested By: sam
Depth: 43.5-45.2 ft	Test ID: 97911	Checked By: mcm
Test Comment: ---		
Sample Description: Moist, mottled olive gray and light gray sandy silt		
Sample Comment: ---		

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.0	35.9	64.1

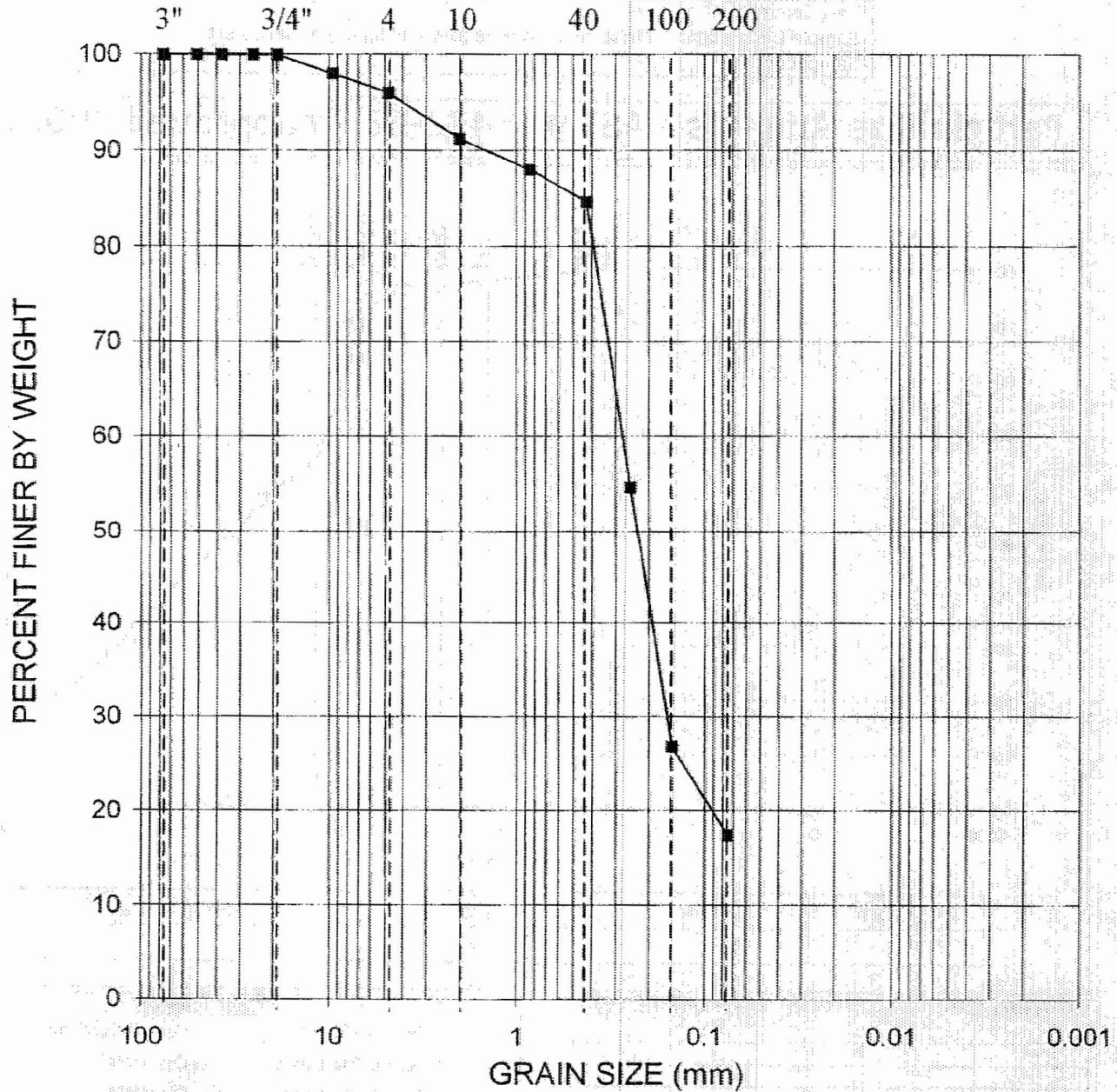
Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	99		
#20	0.84	97		
#40	0.42	97		
#60	0.25	96		
#100	0.15	92		
#200	0.074	64		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0339	57		
---	0.0213	49		
---	0.0125	44		
---	0.0090	38		
---	0.0063	33		
---	0.0045	29		
---	0.0032	24		
---	0.0016	16		

Coefficients	
D <sub>85</sub> = 0.1254 mm	D <sub>30</sub> = 0.0050 mm
D <sub>60</sub> = 0.0461 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.0228 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

Classification	
ASTM	Sandy elastic silt (MH)
AASHTO	Clayey Soils (A-7-5 (15))

Sample/Test Description	
Sand/Gravel Particle Shape	: ANGULAR
Sand/Gravel Hardness	: HARD

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-701	48.5	Silty SAND, trace shells, dark green	SM		

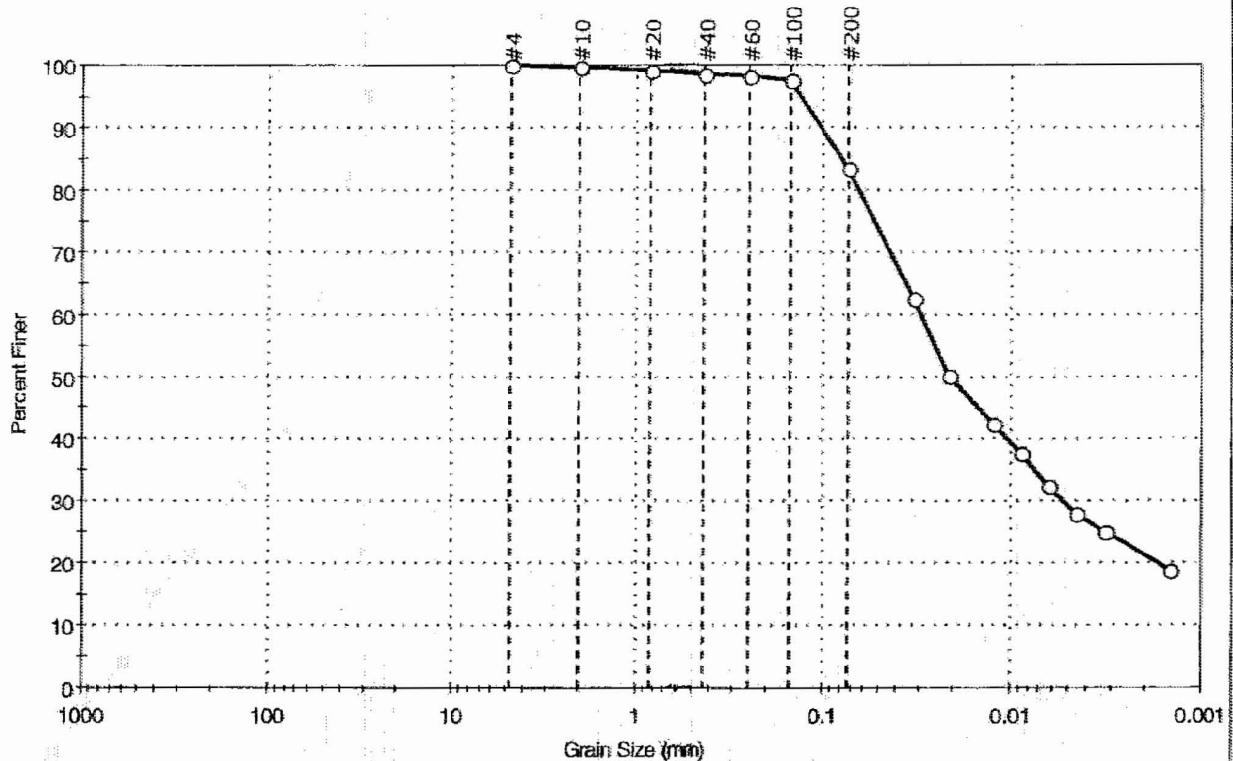


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Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Project No: GTX-6880
Location: Calvert County, MD	Boring ID: B-703	Sample Type: tube
Sample ID: S-7	Test Date: 11/08/06	Tested By: sam
Depth: 18.5-20.5 ft	Test ID: 102399	Checked By: mcm
Test Comment: ---		
Sample Description: Moist, mottled light yellowish brown, dark gray, and brownish yellow		
Sample Comment: ---		

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.0	16.6	83.4

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	99		
#60	0.25	96		
#100	0.15	96		
#200	0.074	83		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0327	63		
---	0.0211	50		
---	0.0123	42		
---	0.0088	38		
---	0.0063	32		
---	0.0045	28		
---	0.0032	25		
---	0.0015	19		

**Coefficients**

D <sub>85</sub> = 0.0802 mm	D <sub>30</sub> = 0.0052 mm
D <sub>60</sub> = 0.0297 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.0207 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

**Classification**

ASTM organic clay with sand (OH)

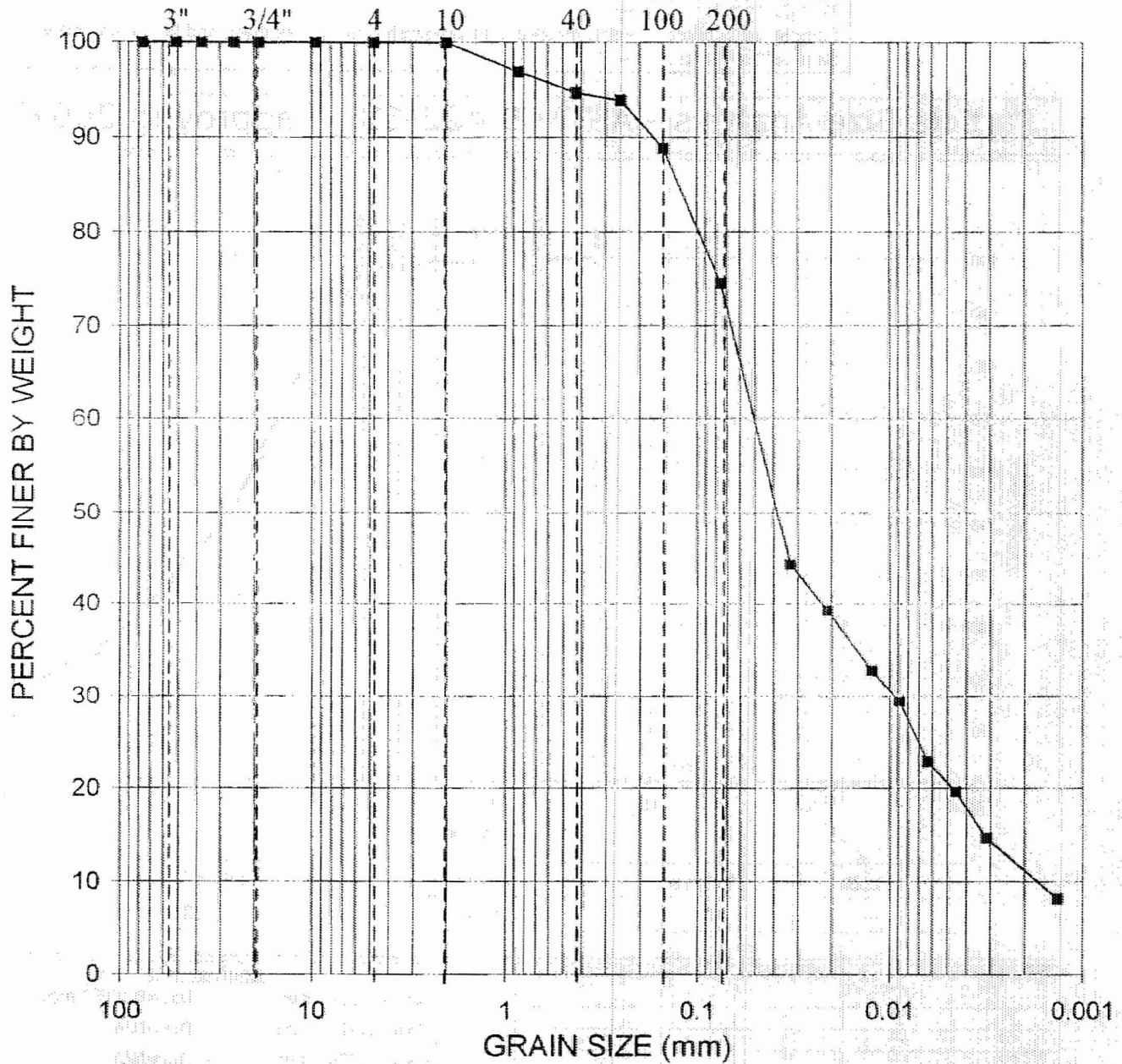
AASHTO Clayey Soils (A-7-6 (45))

**Sample/Test Description**

Sand/Gravel Particle Shape : ANGULAR

Sand/Gravel Hardness : HARD


U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
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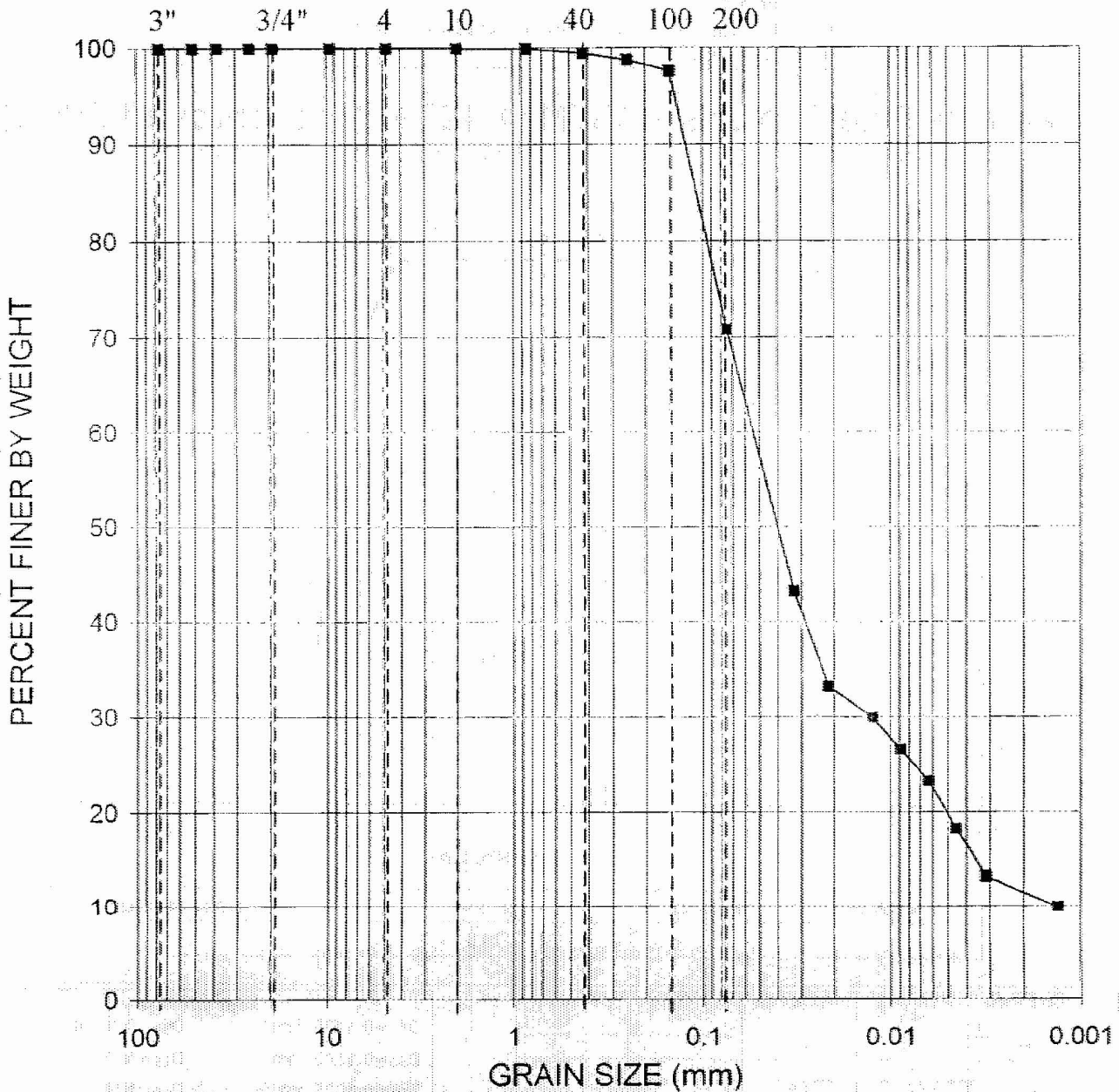
GRADATION CURVE

ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No. 06120048.00		Date 10/12/2006	
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-707	7.5	FAT CLAY, with sand, dark gray	CH	59	38		



U.S. Standard Sieve Nos.



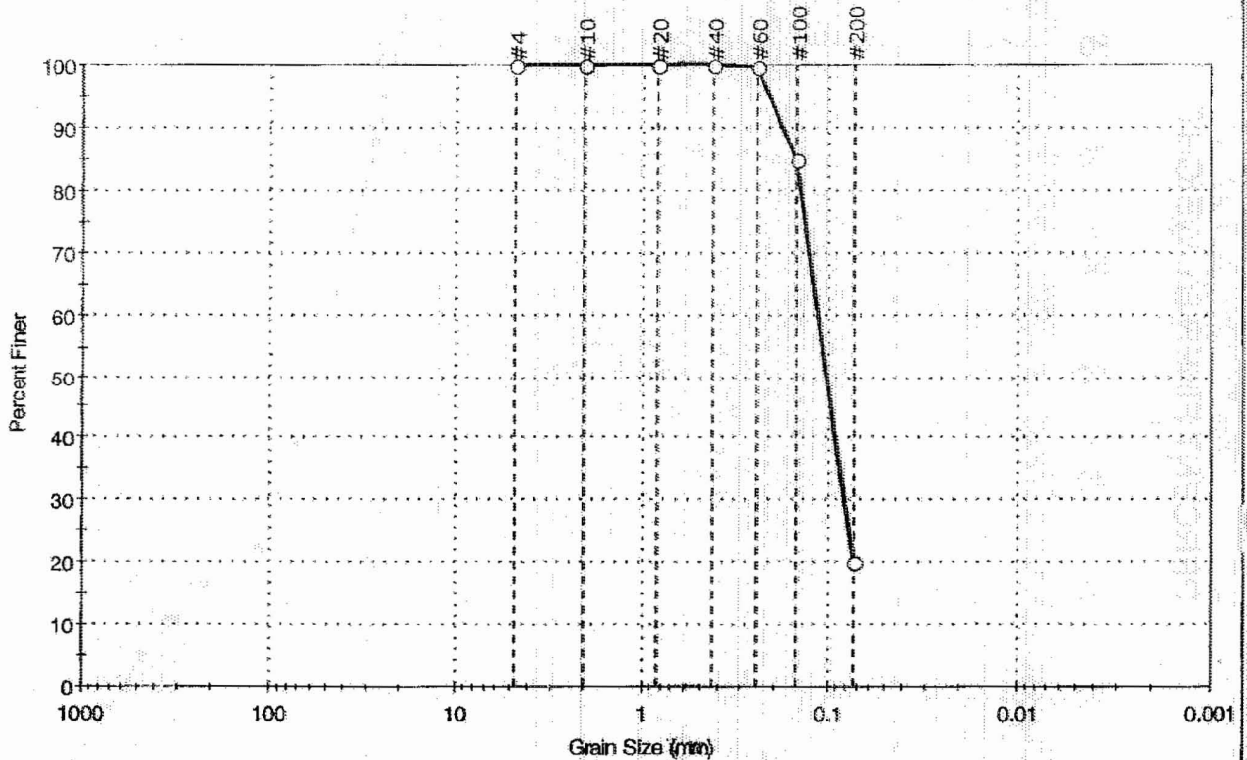
GRAVEL      SAND      SILT OR CLAY

GRADATION CURVE  
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland		Contract No.:	96120048-00	Date:	10/19/2006
Boring No.:	Depth (ft):	Sample Description:	Class:	LI:	PI:	
B-707	33.5	ELASTIC SILT, with sand, dark green	MH	59	14	

Client: Schnabel Engineering, Inc.	Project No: GTX-6880
Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Tested By: sam
Location: Calvert County, MD	Checked By: mcm
Boring ID: B-722	Sample Type: tube
Sample ID: UD-1	Test Date: 09/22/06
Depth: 33.5-35.5 ft	Test Id: 97917
Test Comment: ---	
Sample Description: Moist, brownish yellow silty sand	
Sample Comment: ---	

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	—	79.9	20.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.425	100		
#60	0.25	100		
#100	0.15	85		
#200	0.075	20		

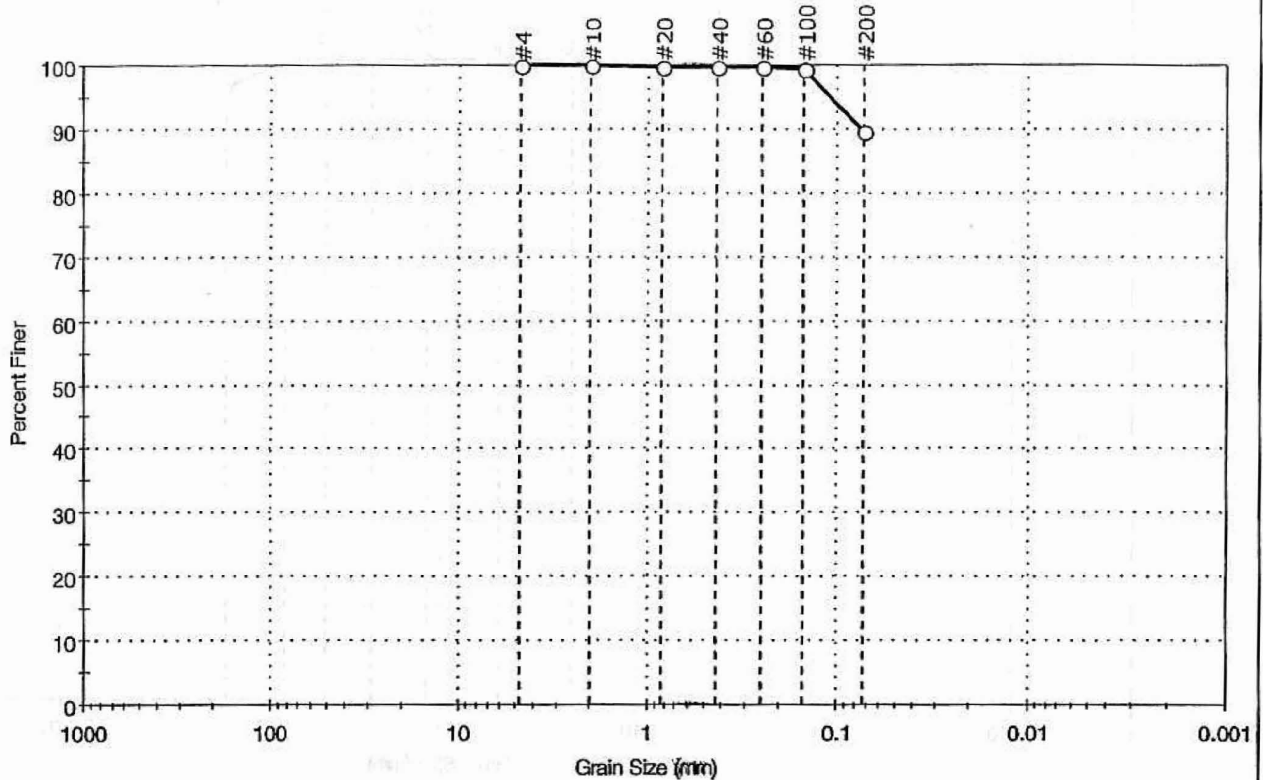
Coefficients	
D <sub>85</sub> = 0.1499 mm	D <sub>30</sub> = 0.0824 mm
D <sub>60</sub> = 0.1142 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.1025 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

Classification	
ASTM	Silty sand (SM)
AASHTO	Silty Gravel and Sand (A-2-4 (0))

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

Client: Schnabel Engineering, Inc.	Project No: GTX-6880
Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Tested By: sam
Location: Calvert County, MD	Checked By: mcm
Boring ID: B-723	Sample Type: tube
Sample ID:UD-2	Test Date: 09/20/06
Depth: 28.5-30.5 ft	Test Id: 97925
Test Comment: ---	
Sample Description: Moist, dark olive gray clay	
Sample Comment: ---	

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	10.3	89.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	99		
#200	0.074	90		

Coefficients	
D <sub>85</sub> = N/A	D <sub>30</sub> = N/A
D <sub>60</sub> = N/A	D <sub>15</sub> = N/A
D <sub>50</sub> = N/A	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

Classification	
ASTM	fat clay (CH)
AASHTO	Clayey Soils (A-7-6 (43))

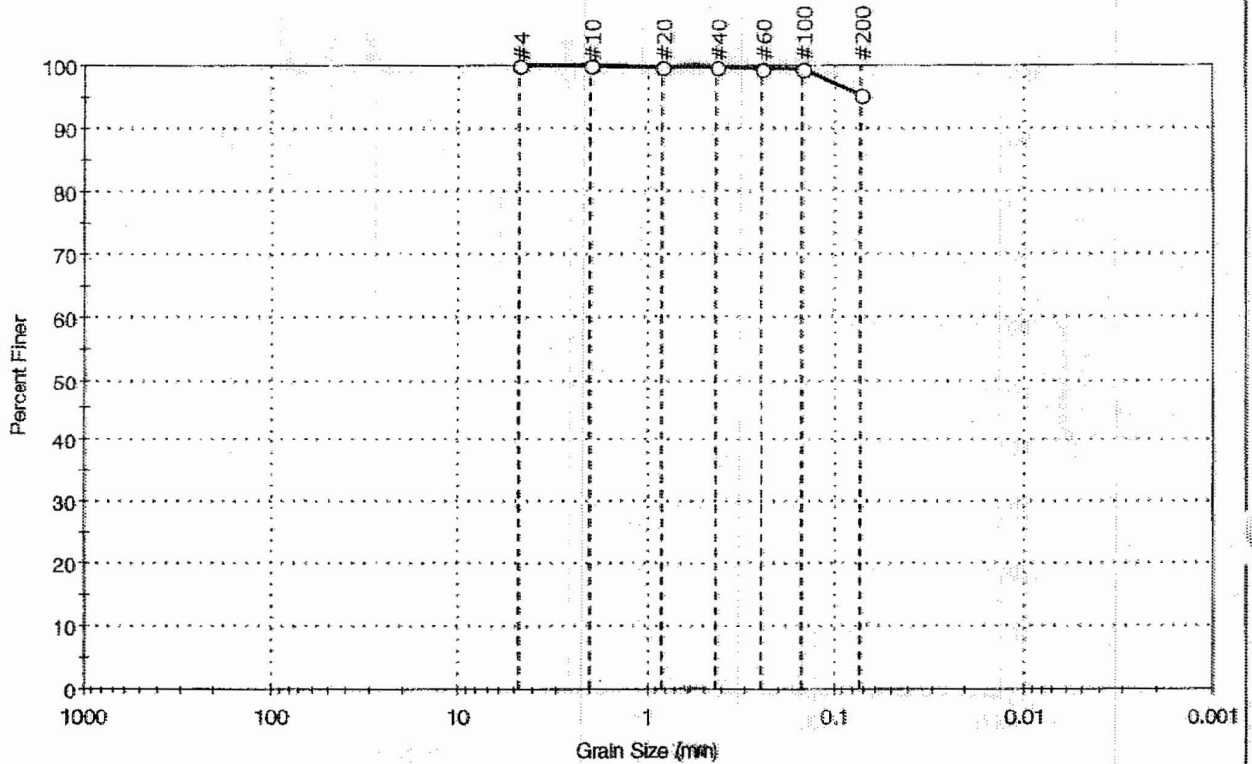
Sample/Test Description	
Sand/Gravel Particle Shape	: ---
Sand/Gravel Hardness	: ---

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Client: Schnabel Engineering, Inc.	Project No: GTX-6880
Project: Subsurface Investigation Calvert Cliffs Nuclear PP	
Location: Calvert County, MD	
Boring ID: B-723	Sample Type: tube
Sample ID: UD-3	Test Date: 11/14/06
Depth: 38.5-40.5 ft	Test ID: 102652
Test Comment: ---	Tested By: sam
Sample Description: Molst, dark olive gray clay	Checked By: mcm
Sample Comment: ---	

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	4.8	95.2

Sieve Name	Sieve Size mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.425	100		
#60	0.25	99		
#100	0.15	99		
#200	0.075	95		

Coefficients	
D <sub>85</sub> = N/A	D <sub>30</sub> = N/A
D <sub>60</sub> = N/A	D <sub>15</sub> = N/A
D <sub>50</sub> = N/A	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

Classification	
ASTM	fat clay (CH)
AASHTO	Clayey Soils (A-7-6 (53))

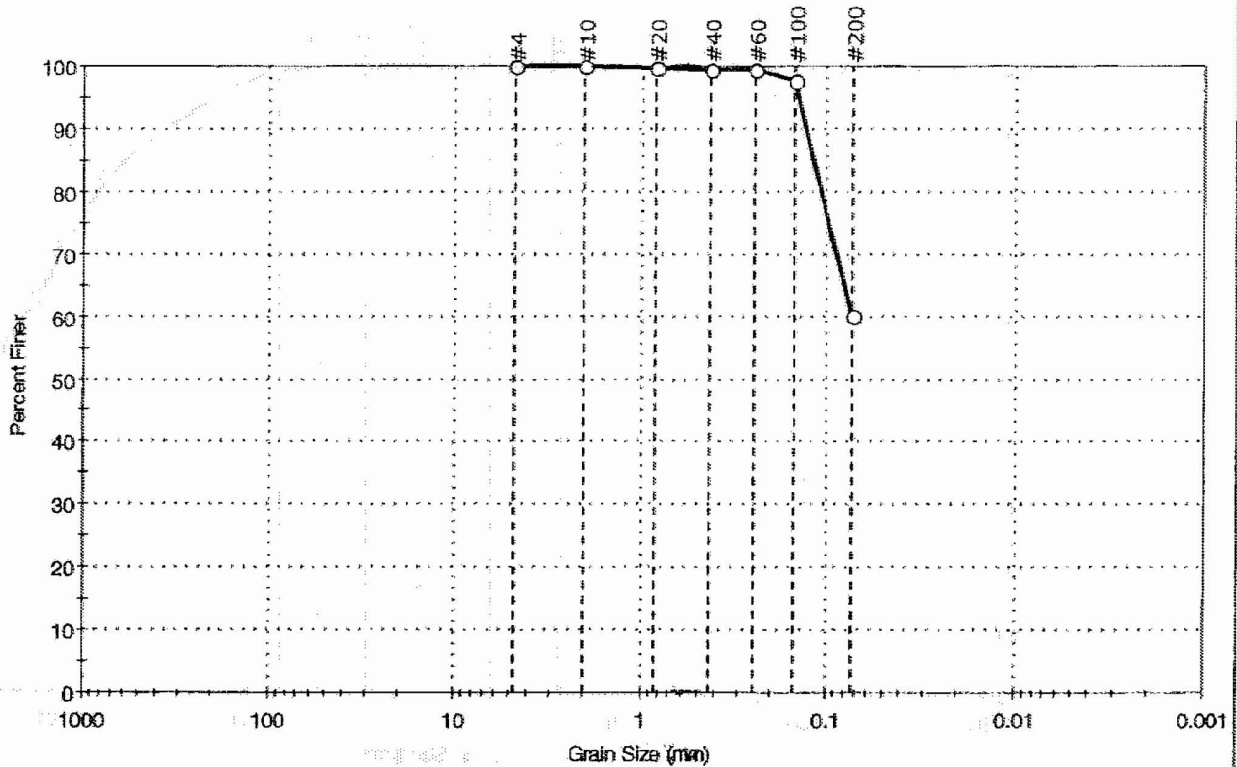
Sample/Test Description	
Sand/Gravel Particle Shape	: ---
Sand/Gravel Hardness	: ---



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Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Project No: GTX-6880
Location: Calvert County, MD	Boring ID: B-724	Sample Type: tube
Sample ID: UD-1	Test Date: 10/26/06	Tested By: sam
Depth: 73.5-75.5 ft	Test Id: 97935	Checked By: mcm
Test Comment: ---		
Sample Description: Moist, dark olive gray sandy organic clay		
Sample Comment: ---		

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.1	39.8	60.1

Sieve Name	Sieve Size (mm)	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	99		
#60	0.25	98		
#100	0.15	98		
#200	0.075	60		

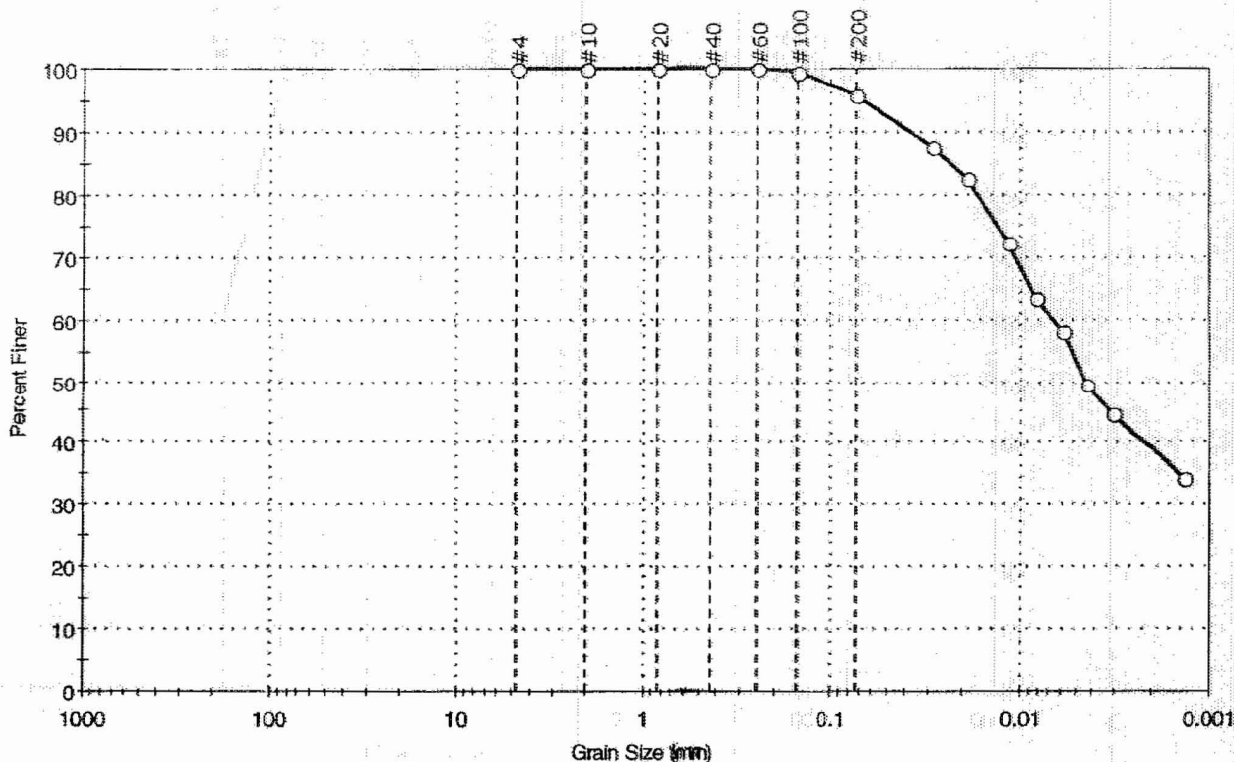
Coefficients	
D <sub>85</sub> = 0.1176 mm	D <sub>30</sub> = N/A
D <sub>60</sub> = N/A	D <sub>15</sub> = N/A
D <sub>50</sub> = N/A	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

Classification	
ASTM	Sandy organic clay (OL)
AASHTO	Clayey Soils (A-7-6 (12))

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

Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Project No: GTX-6880
Location: Calvert County, MD	Boring ID: B-726	Sample Type: tube
Sample ID: UD-2	Test Date: 10/11/06	Tested By: sam
Depth: 23.5-25.5 ft	Test ID: 97941	Checked By: mcm
Test Comment: ---	Sample Description: Moist, black clay	Sample Comment: ---

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	4.0	96.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.84	100		
#40	0.42	100		
#60	0.25	100		
#100	0.15	99		
#200	0.074	96		
—	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
—	0.0291	86		
—	0.0190	83		
—	0.0113	72		
—	0.0082	63		
—	0.0059	58		
—	0.0043	50		
—	0.0030	45		
—	0.0014	34		

Coefficients	
D <sub>85</sub> = 0.0233 mm	D <sub>30</sub> = N/A
D <sub>60</sub> = 0.0066 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.0043 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

Classification	
ASTM	fat clay (CH)
AASHTO	Clayey Soils (A-7-6 (57))

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