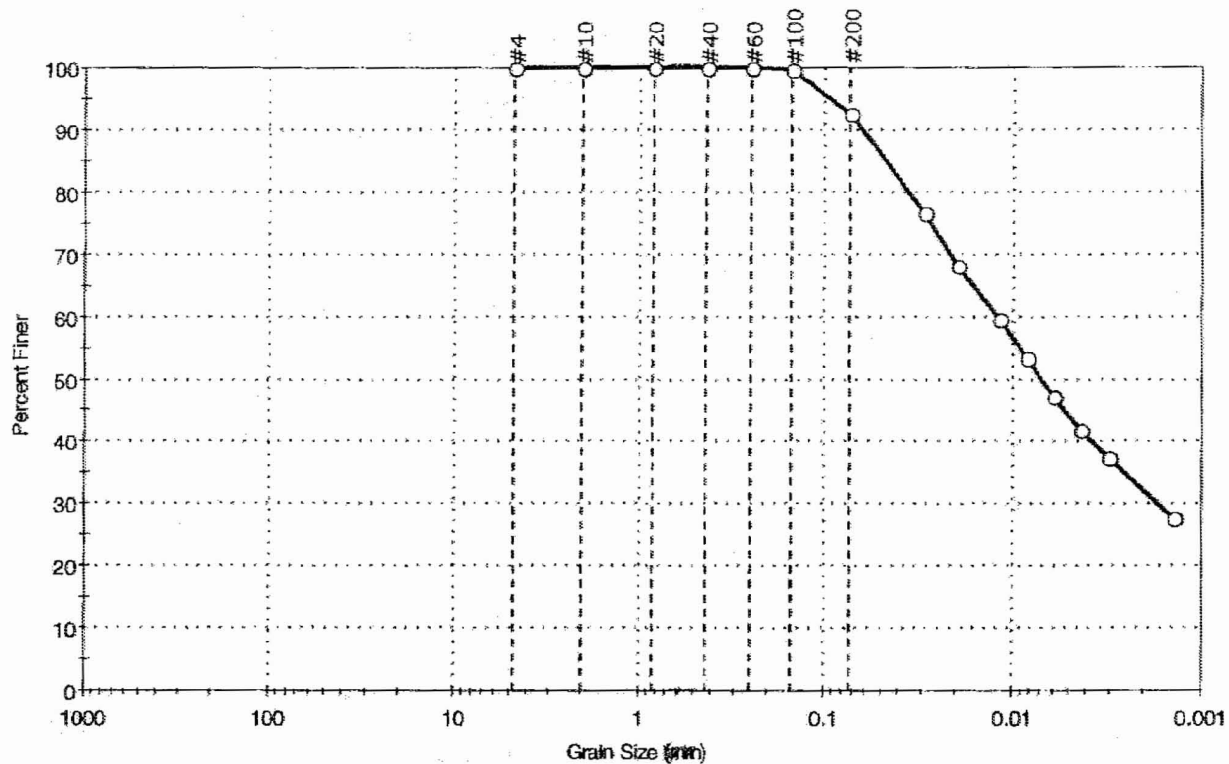


Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Project No: GTX-6880
Location: Calvert County, MD	Boring ID: B-729	Sample Type: tube
Sample ID: UD-1	Test Date: 10/31/06	Tested By: md
Depth: 68.5-70.0 ft	Test ID: 97948	Checked By: mcm
Test Comment: ---		
Sample Description: Moist, dark greenish gray organic clay with sand		
Sample Comment: ---		

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	7.3	92.7

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	100		
#200	0.075	93		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0296	77		
---	0.0195	68		
---	0.0116	60		
---	0.0084	53		
---	0.0061	47		
---	0.0043	42		
---	0.0031	38		
---	0.0014	28		

Coefficients

D₈₅ = 0.0479 mm D₃₀ = 0.0017 mm
D₆₀ = 0.0118 mm D₁₅ = N/A
D₅₀ = 0.0070 mm D₁₀ = N/A
C_u = N/A C_c = N/A

Classification

ASTM organic clay (OH)

AASHTO Clayey Soils (A-7-6 (42))

Sample/Test Description

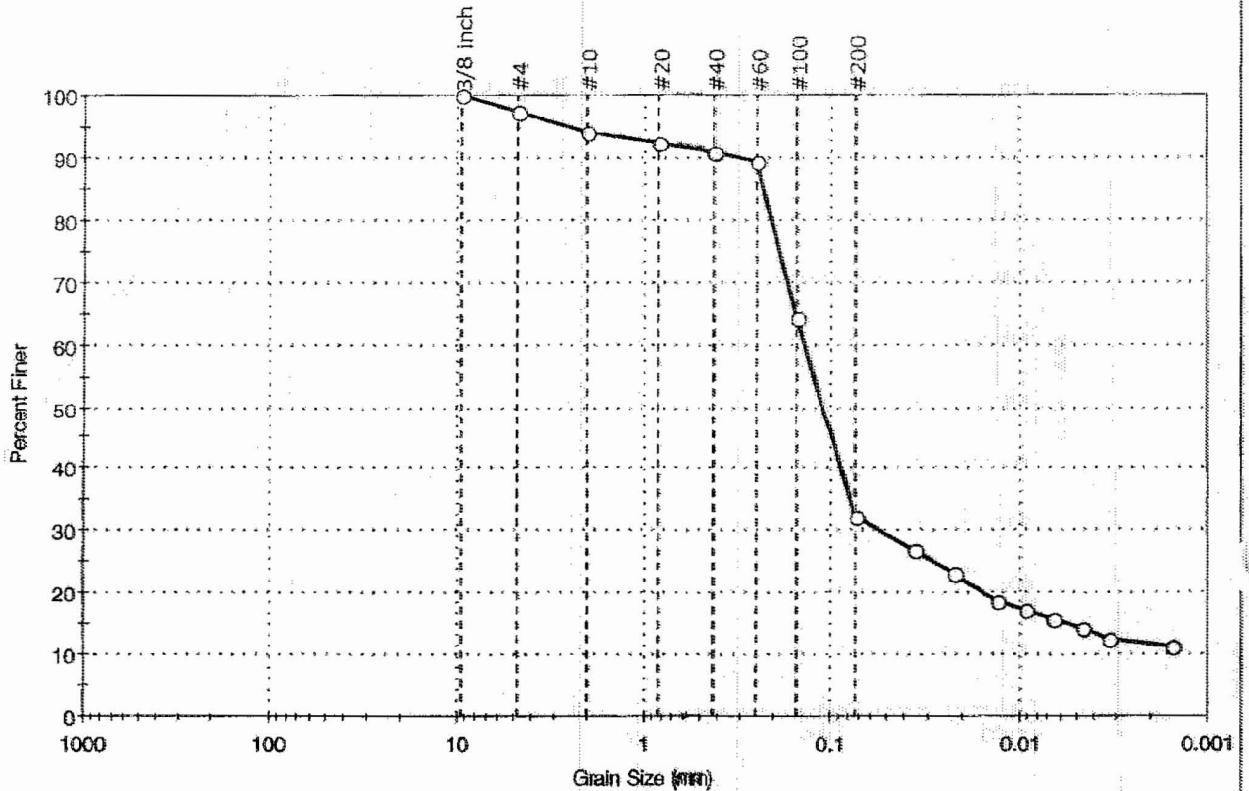
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : HARD

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-732	Sample Type: tube
Sample ID: UD-1	Test Date: 09/28/06	Tested By: sam
Depth: 15-17 ft	Test ID: 98021	Checked By: mcm
Test Comment: ---		
Sample Description: Moist, mottled pale yellow and brownish yellow clayey sand		
Sample Comment: ---		

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	2.7	65.3	32.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
3/8 inch	9.51	100		
#4	4.75	97		
#10	2.00	94		
#20	0.84	92		
#40	0.42	91		
#60	0.25	90		
#100	0.15	64		
#200	0.074	32		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0360	27		
---	0.0225	23		
---	0.0130	19		
---	0.0092	17		
---	0.0065	16		
---	0.0045	14		
---	0.0033	12		
---	0.0015	11		

Coefficients	
D ₈₅ = 0.2279 mm	D ₃₀ = 0.0555 mm
D ₆₀ = 0.1359 mm	D ₁₅ = 0.0058 mm
D ₅₀ = 0.1094 mm	D ₁₀ = 0.0006 mm
C _u = N/A	C _c = N/A

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

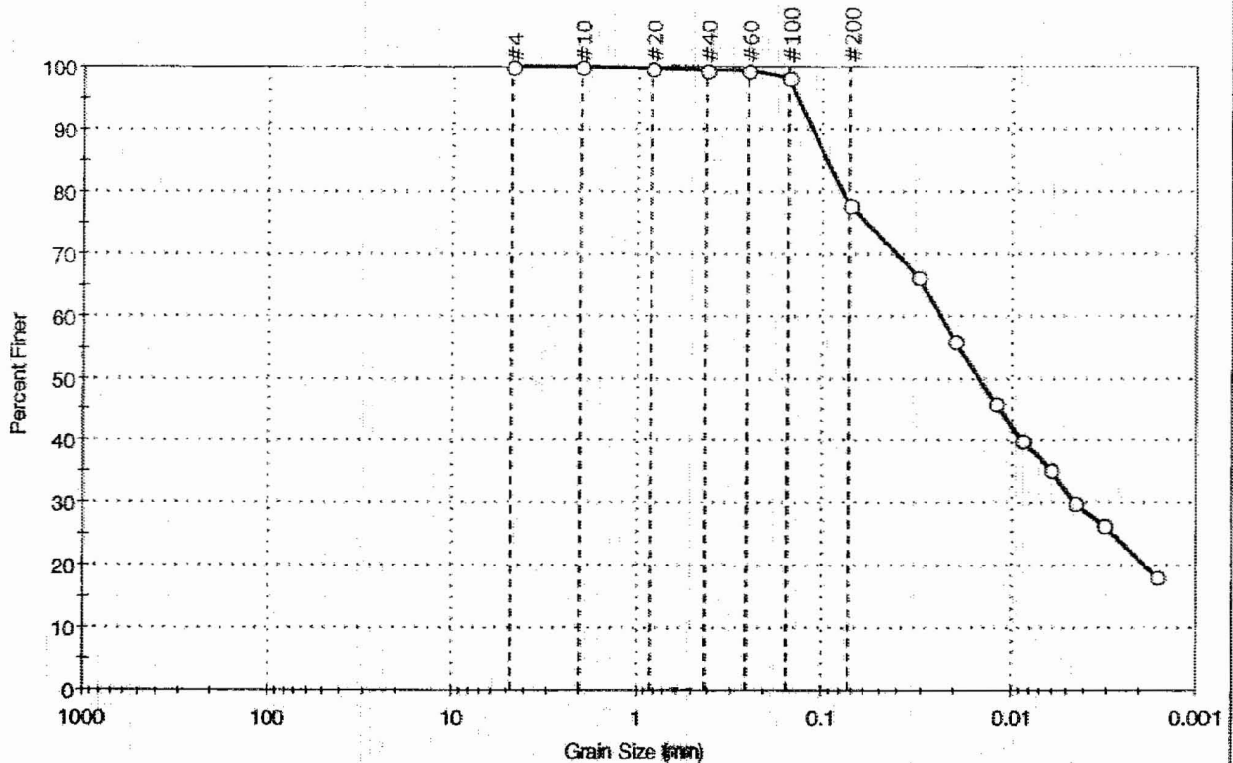
Sample/Test Description	
Sand/Gravel Particle Shape	: ANGULAR
Sand/Gravel Hardness	: HARD



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-733	Sample Type: tube
Sample ID: UD-1	Test Date: 09/22/06	Tested By: sam
Depth: 23.5-25.5	Test ID: 98022	Checked By: mcm
Test Comment: ---	Sample Description: Moist, dark olive gray clay with sand	Sample Comment: ---

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	22.0	78.0

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	99		
#60	0.25	98		
#100	0.15	98		
#200	0.075	78		
Particle Size (mm)	Percent Finer	Spec. Percent	Complies	
—	0.0321	66		
—	0.0200	56		
—	0.0122	46		
—	0.0087	40		
—	0.0062	35		
—	0.0045	30		
—	0.0032	27		
—	0.0016	18		

Coefficients

D ₈₅ = 0.0944 mm	D ₃₀ = 0.0044 mm
D ₆₀ = 0.0239 mm	D ₁₅ = N/A
D ₅₀ = 0.0148 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

Classification

ASTM fat clay with sand (CH)

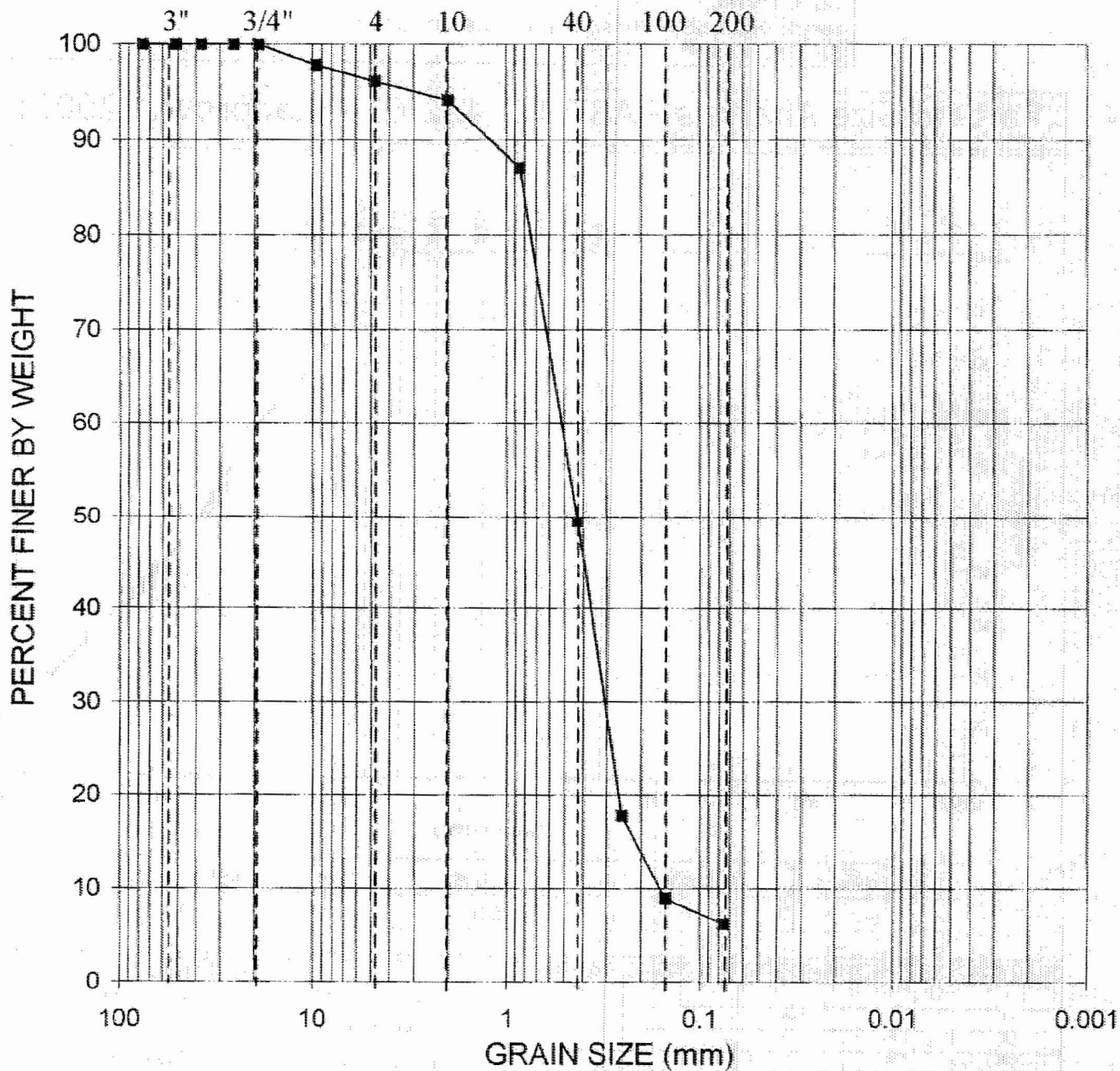
AASHTO Clayey Soils (A-7-6 (31))

Sample/Test Description

Sand/Gravel Particle Shape : ---

Sand/Gravel Hardness : ---

U.S. Standard Sieve Nos.



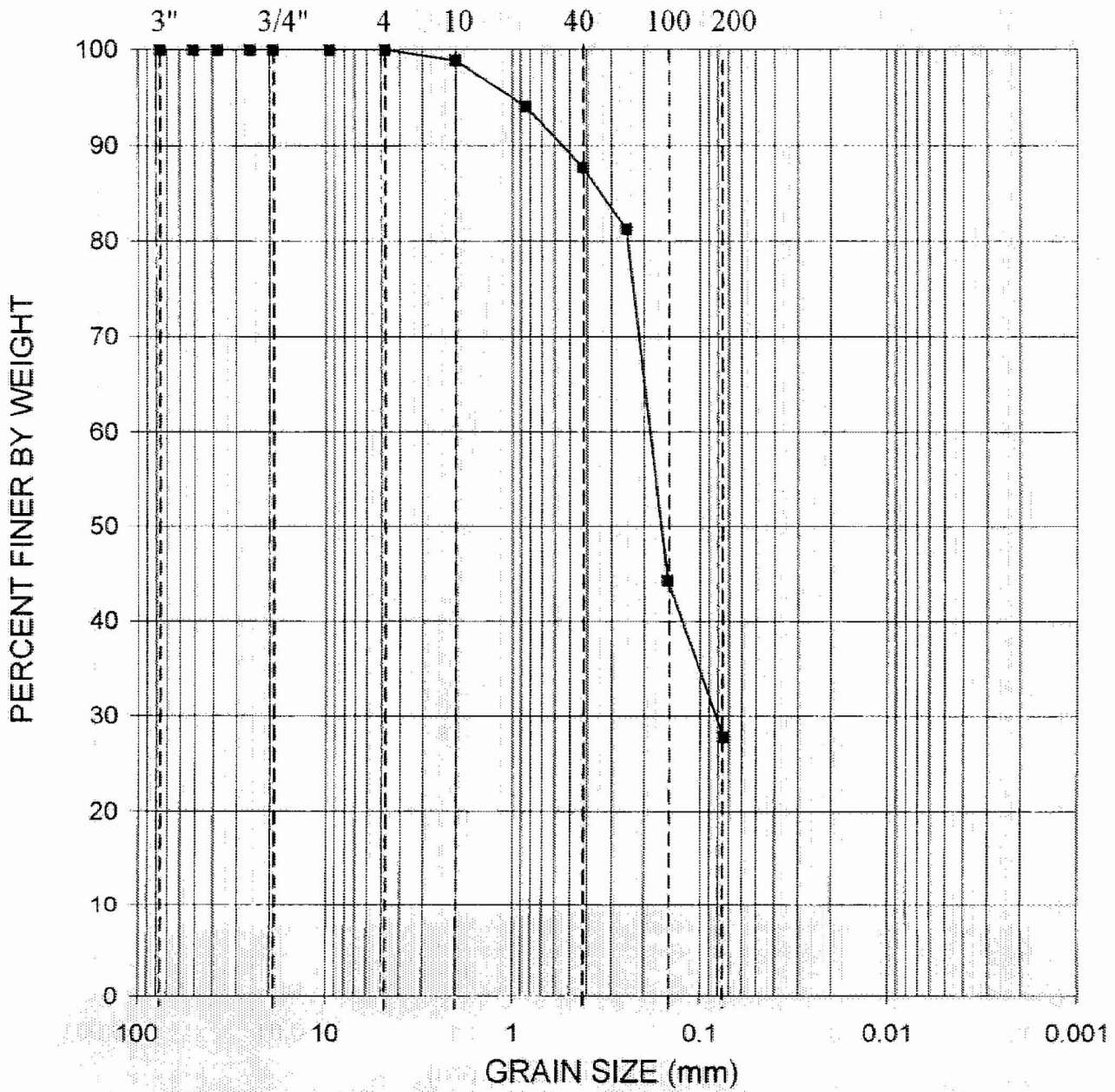
GRAVEL	SAND	SILT OR CLAY
--------	------	--------------

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-735	2.5	Poorly Graded SAND, with silt, trace gravel, brown	SP-SM



U.S. Standard Sieve Nos.

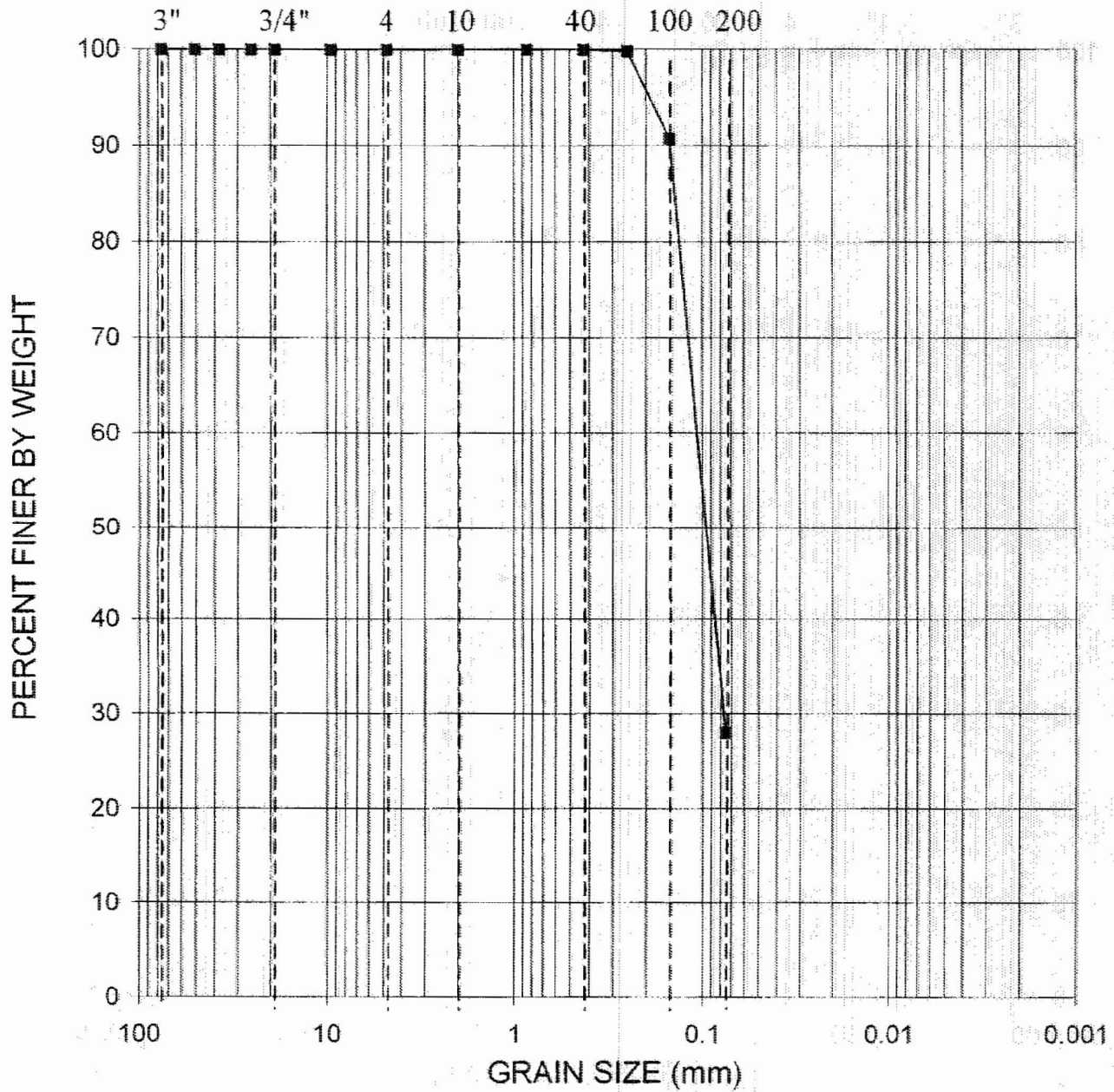


GRAVEL	SAND	SILT OR CLAY
--------	------	--------------

GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	9/22/2006
Boring No.:	Depth (ft)	Sample Description	Class	LL	PI		
B-735	10.5	Silty SAND, light brown	SM				

U.S. Standard Sieve Nos.



GRAVEL	SAND	SILT OR CLAY
--------	------	--------------

GRADATION CURVE

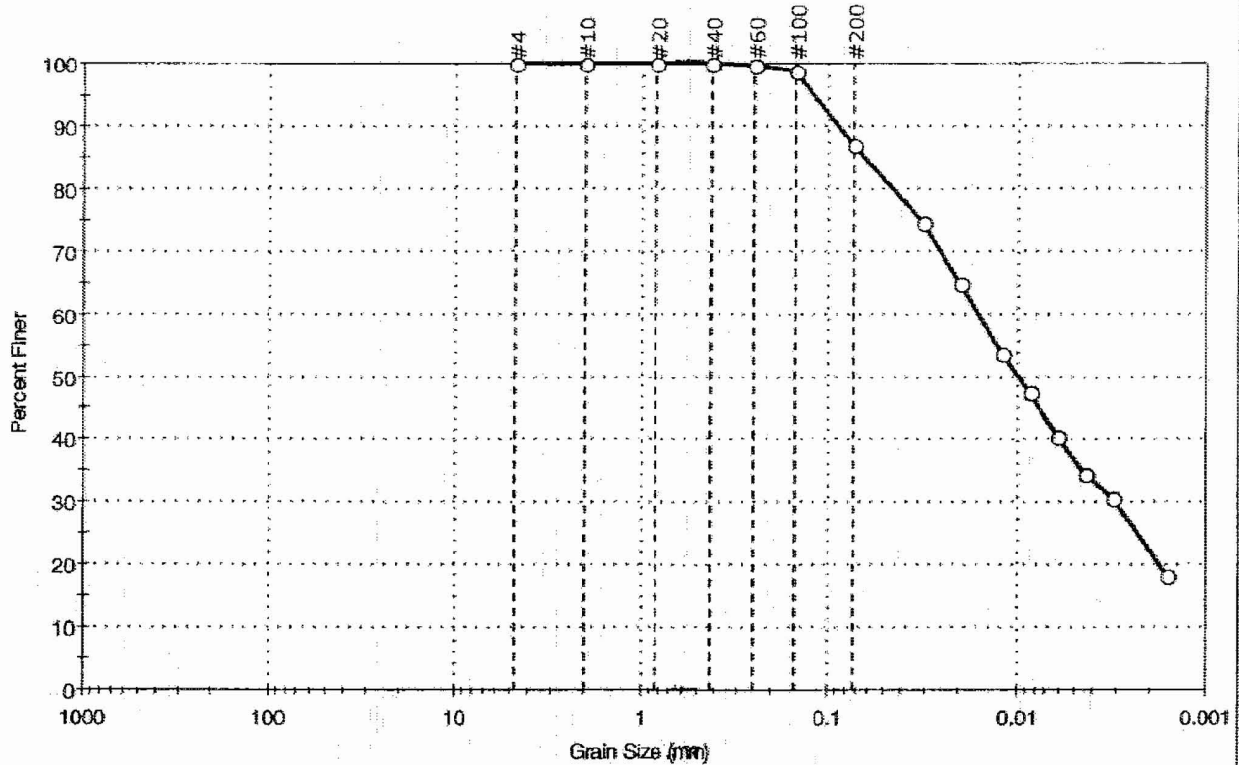
ASTM D422

Project	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.: 06120048.00	Date: 9/28/2006
Boring No.	Depth (ft)	Sample Description	Class	LL	PI
B-735	18.5	Silty SAND, yellow-gray	SM	NP	NP



Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Project No: GTX-6880
Location: Calvert County, MD	Boring ID: B-735	Sample Type: tube
Sample ID: S-9	Test Date: 09/22/06	Tested By: sam
Depth: 28-30 ft	Test ID: 97987	Checked By: mcm
Test Comment: ---		
Sample Description: Moist, dark gray clay		
Sample Comment: ---		

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	12.9	87.1

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	87		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0310	75		
---	0.0198	65		
---	0.0118	54		
---	0.0085	47		
---	0.0063	41		
---	0.0044	34		
---	0.0031	31		
---	0.0016	18		

Coefficients

D ₈₅ = 0.0639 mm	D ₃₀ = 0.0030 mm
D ₆₀ = 0.0159 mm	D ₁₅ = N/A
D ₅₀ = 0.0098 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

Classification

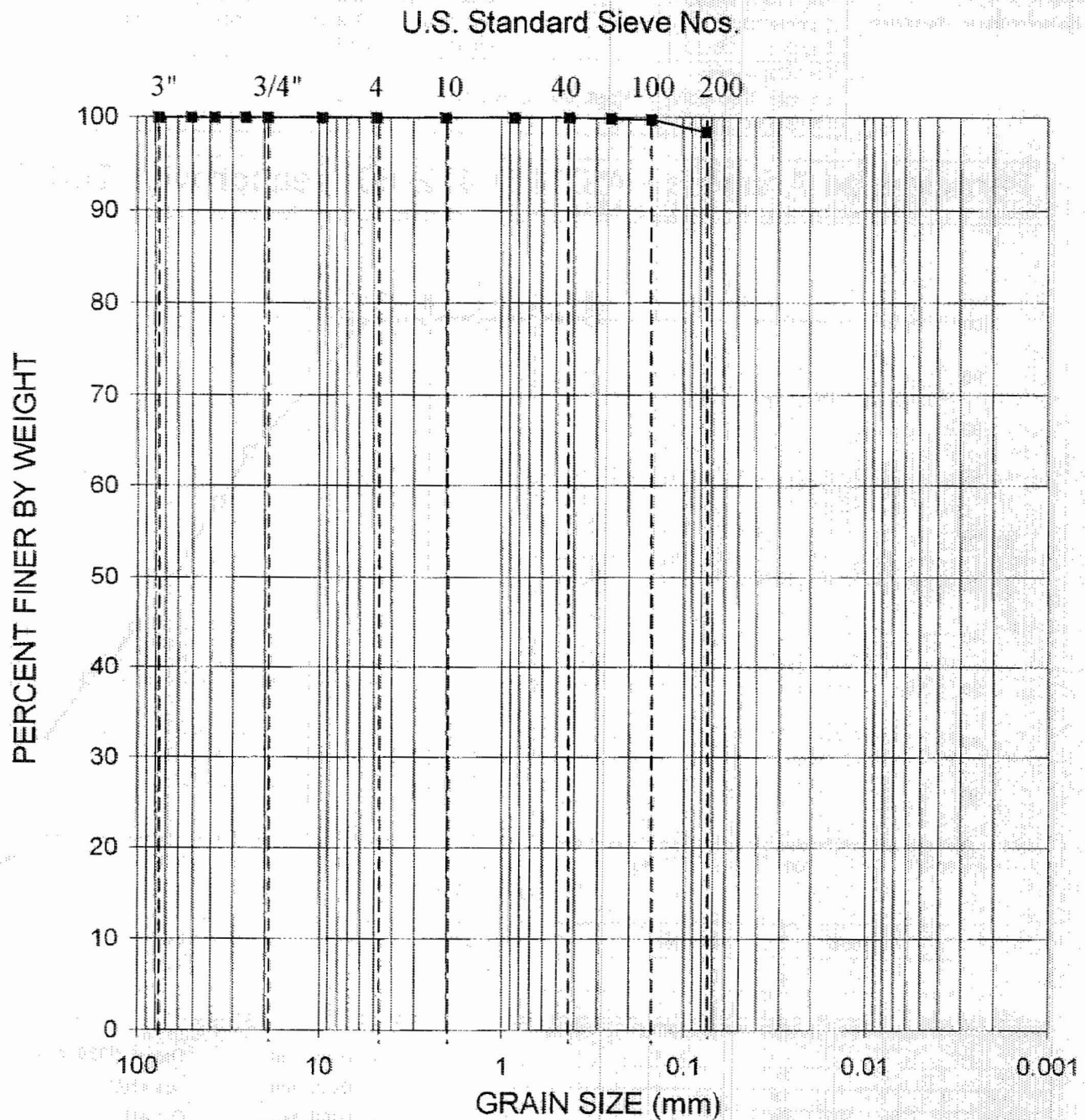
ASTM fat clay (CH)

AASHTO Clayey Soils (A-7-6 (35))

Sample/Test Description

Sand/Gravel Particle Shape : ---

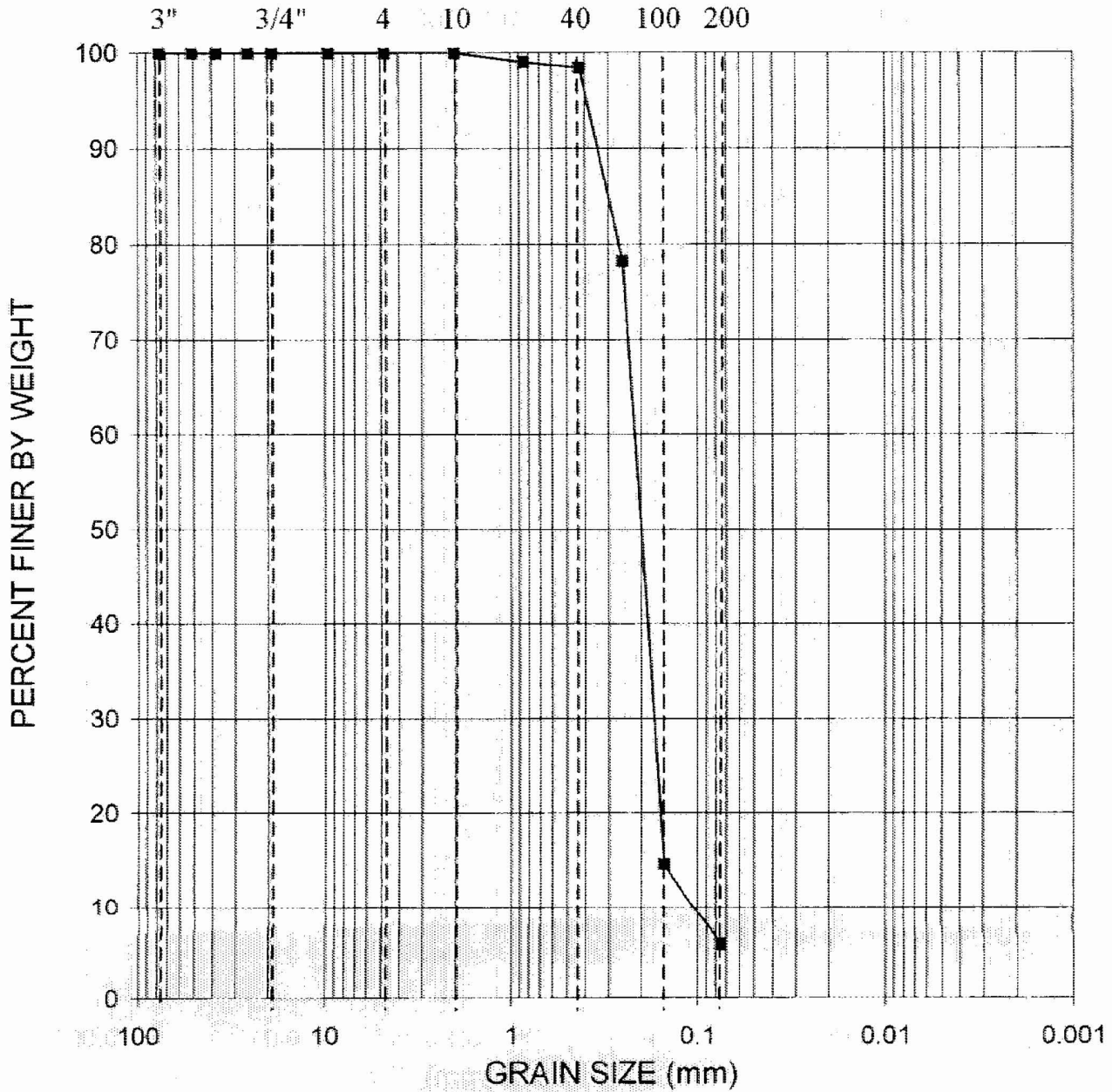
Sand/Gravel Hardness : ---



GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048 00	Date:	9/28/2006
Boring No.	Depth (ft)	Sample Description	Class.	LL	PI		
B-735	43.5	FAT CLAY, trace sand, gray	CH	85	55		

U.S. Standard Sieve Nos.

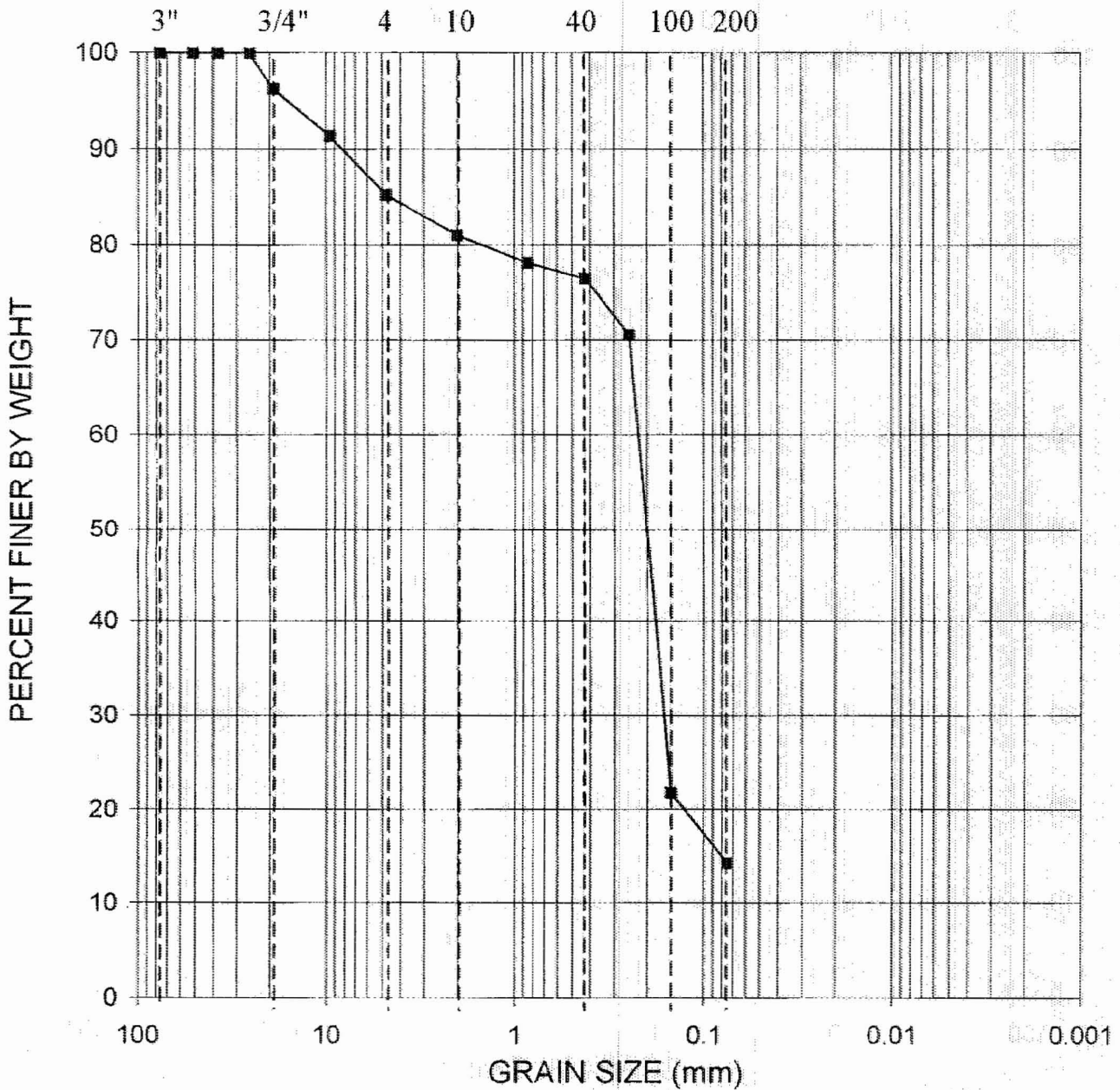


GRAVEL	SAND	SILT OR CLAY
--------	------	--------------

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-735	58.5	Poorly Graded SAND, with silt, gray	SP-SM			

U.S. Standard Sieve Nos.



GRAVEL SAND SILT OR CLAY

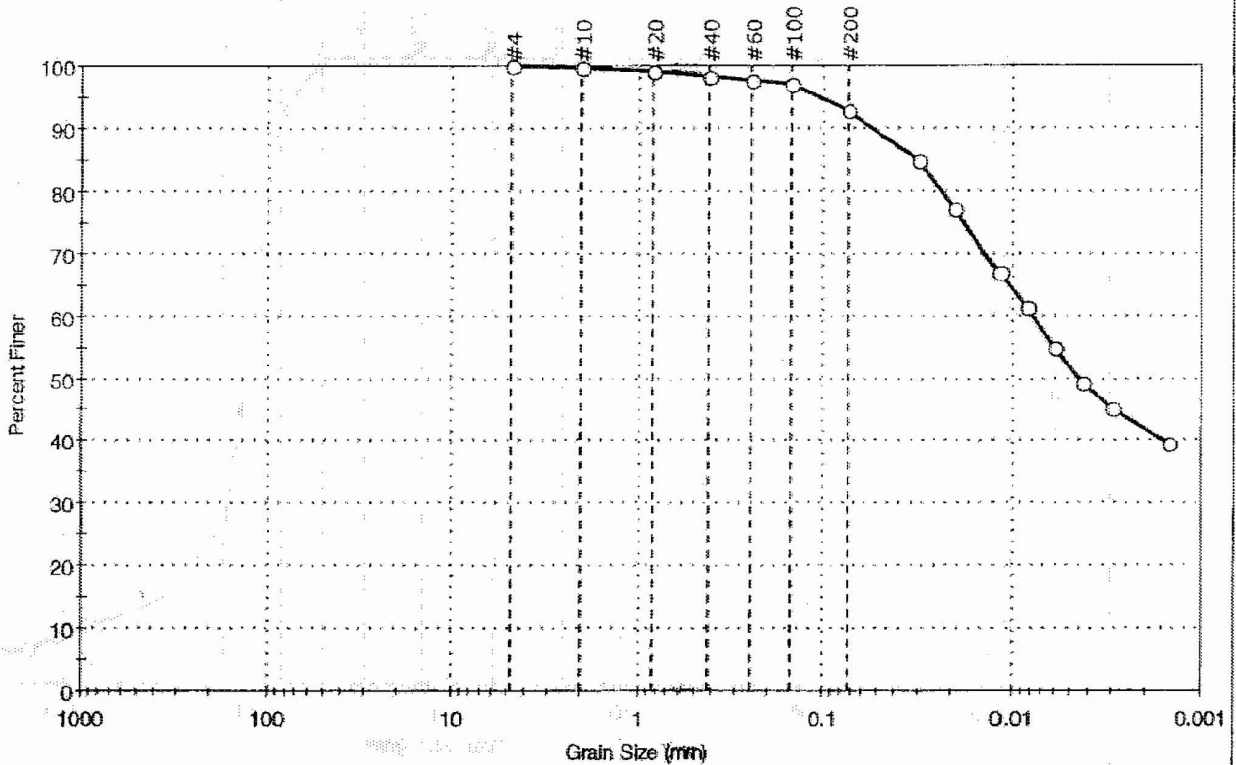
GRADATION CURVE
ASTM D422

Project:		Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.: 06120048.00		Date: 9/22/2006	
Boring No.	Depth (ft)	Sample Description			Class	LL	PI	
B-735	73.5	Silty SAND, with shells, dark green			SM			



Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No: GTX-6880
Boring ID: B-737	Sample Type: tube	Tested By: sam	Checked By: mcm
Sample ID: UD-1	Test Date: 09/22/06	Test ID: 97988	
Depth: 10.5-12.5 ft			
Test Comment: ---			
Sample Description: Moist, very pale brown clay			
Sample Comment: ---			

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	0.0	7.1	92.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complex
#4	4.75	100		
#10	2.00	100		
#20	0.84	99		
#40	0.42	98		
#60	0.25	98		
#100	0.15	97		
#200	0.074	93		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complex
---	0.0304	85		
---	0.0194	77		
---	0.0115	67		
---	0.0083	61		
---	0.0059	55		
---	0.0043	49		
---	0.0030	45		
---	0.0015	39		

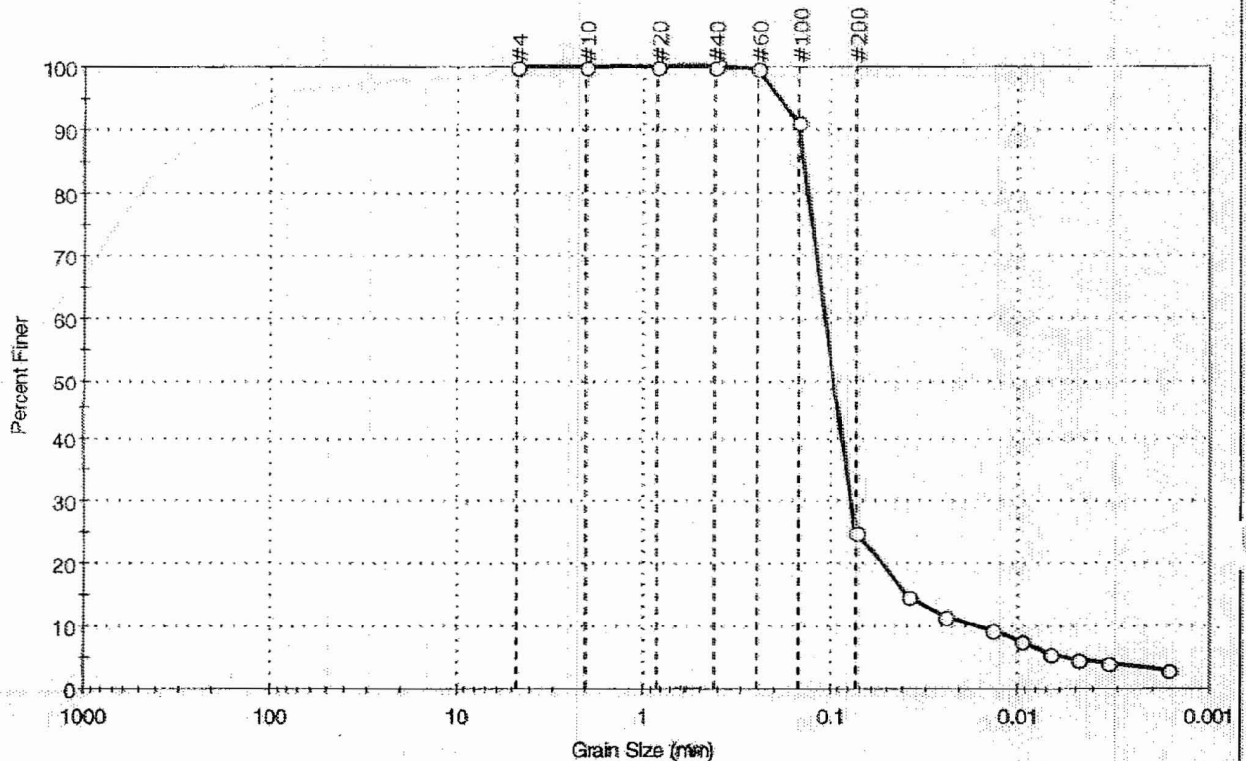
Coefficients	
D ₈₅ = 0.0303 mm	D ₃₀ = N/A
D ₆₀ = 0.0077 mm	D ₁₅ = N/A
D ₅₀ = 0.0045 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

Classification	
ASTM	fat clay (CH)
AASHTO	Clayey Soils (A-7-6 (61))

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

Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No: GTX-6880
Boring ID: B-738	Sample Type: tube	Tested By: sam	Checked By: mcm
Sample ID: UD-1	Test Date: 09/22/06	Test ID: 98023	
Depth: 35-37 ft			
Test Comment: ---			
Sample Description: Moist, dark olive gray silty, clayey sand			
Sample Comment: ---			

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	—	74.9	25.1

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	91		
#200	0.074	25		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0375	15		
---	0.0237	12		
---	0.0136	10		
---	0.0094	8		
---	0.0068	6		
---	0.0048	5		
---	0.0034	4		
---	0.0017	3		

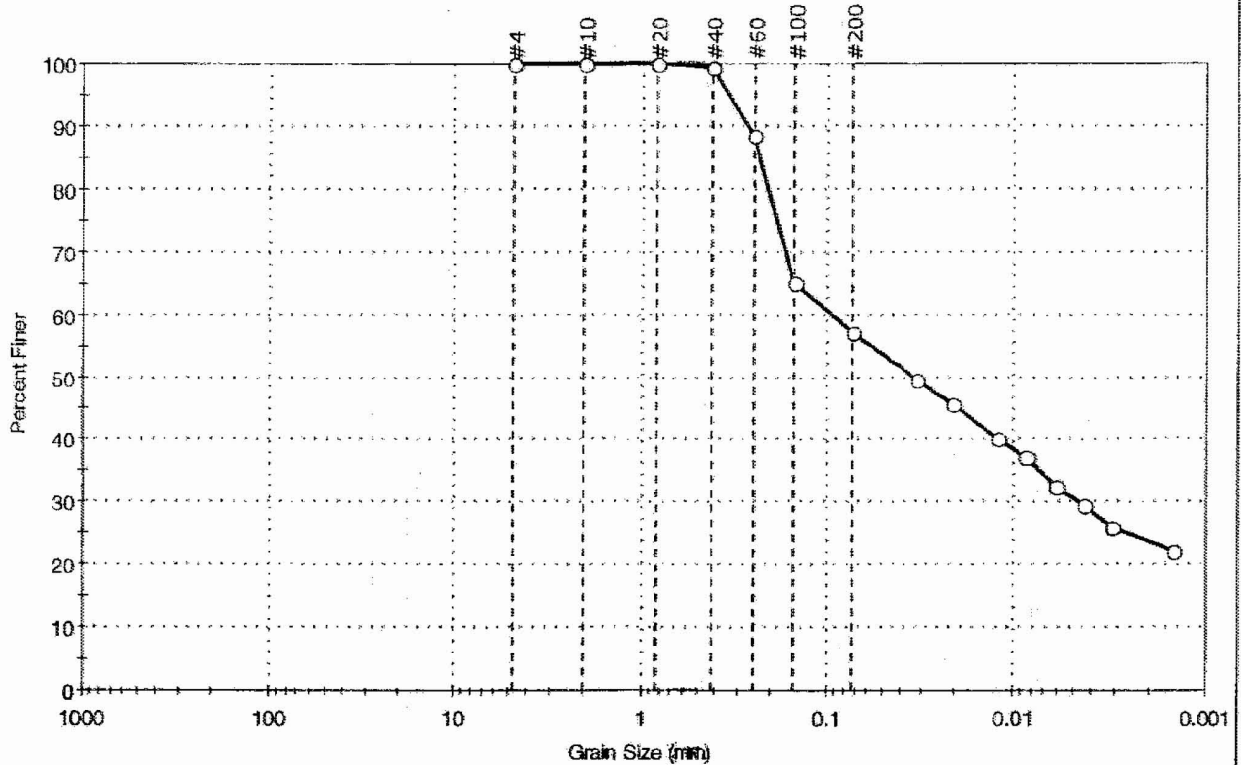
Coefficients	
D ₈₅ = 0.1397 mm	D ₃₀ = 0.0779 mm
D ₆₀ = 0.1071 mm	D ₁₅ = 0.0387 mm
D ₅₀ = 0.0964 mm	D ₁₀ = 0.0153 mm
C _u = N/A	C _c = N/A

Classification	
ASTM	Silty, clayey sand (SC-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: Subsurface Investigation Calvert Cliffs Nuclear PP	Project No: GTX-6880
Location: Calvert County, MD	Boring ID: B-743	Sample Type: tube
Sample ID: UD-1	Test Date: 09/28/06	Tested By: sam
Depth: 23.5-25.5 ft	Test Id: 97989	Checked By: mcm
Test Comment: ---		
Sample Description: Moist, mottled pale yellow, weak red, and brownish yellow clay with sand		
Sample Comment: ---		

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	42.8	57.2

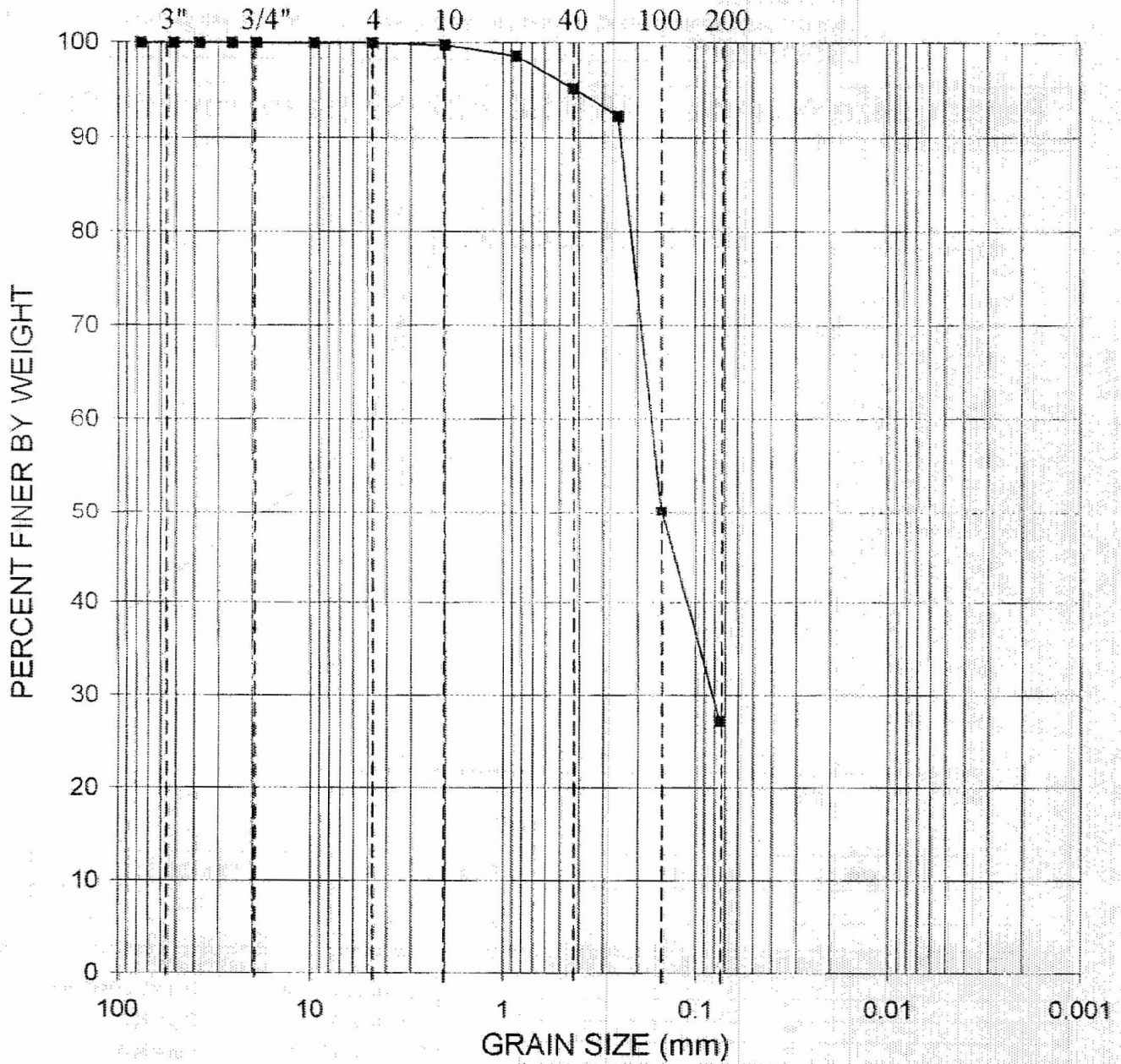
Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	99		
#60	0.25	89		
#100	0.15	65		
#200	0.075	57		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0328	50		
---	0.0207	46		
---	0.0125	40		
---	0.0085	37		
---	0.0062	32		
---	0.0044	30		
---	0.0031	26		
---	0.0015	22		

Coefficients	
D ₈₅ = 0.2310 mm	D ₃₀ = 0.0046 mm
D ₆₀ = 0.0942 mm	D ₁₅ = N/A
D ₅₀ = 0.0343 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

Classification	
ASTM	Sandy lean clay (CL)
AASHTO	Clayey Soils (A-6 (13))

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

U.S. Standard Sieve Nos.



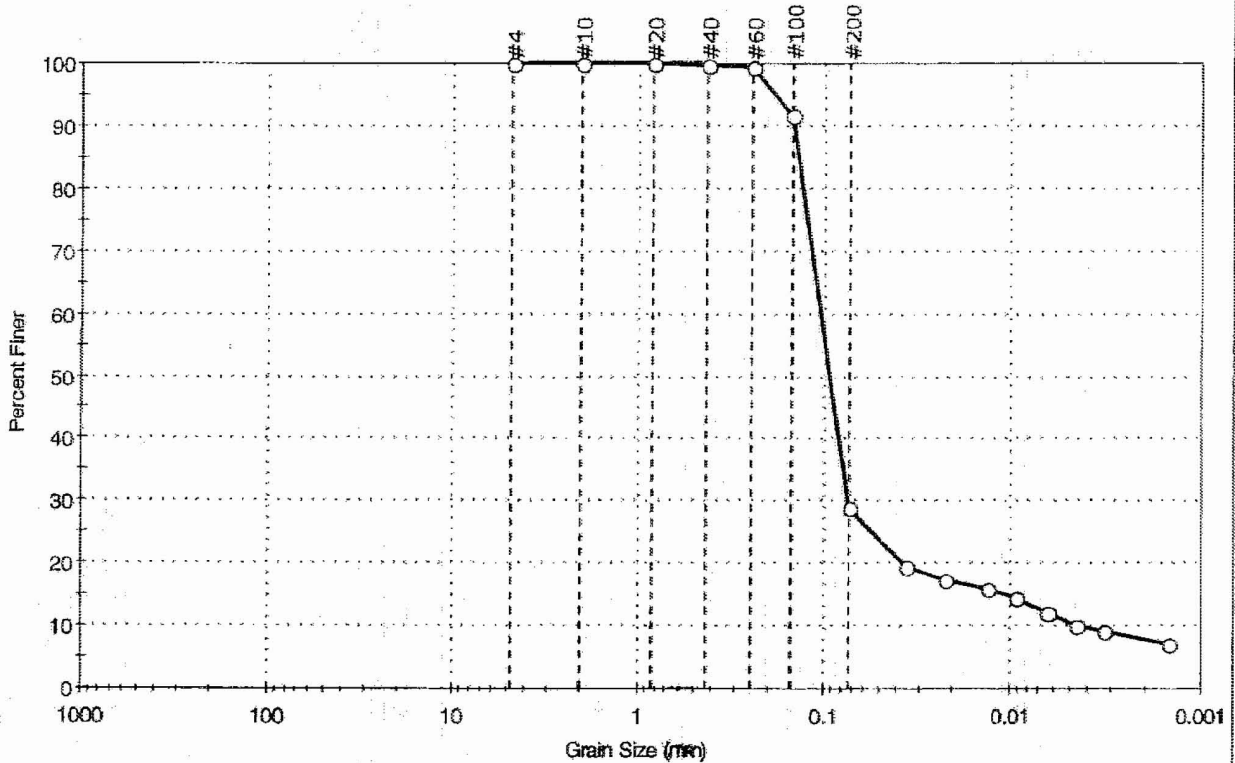
GRAVEL | SAND | SILT OR CLAY

GRADATION CURVE
ASTM D422

Project:	Constellation Energy Group COLA Project, Calvert Cliffs Nuclear Power Plant (CCNPP), Calvert County, Maryland			Contract No.:	06120048.00	Date:	10/4/2006
Boring No.	Depth (ft)	Sample Description	Class:	LL	PI		
B-746	7.5	Silty SAND, red-brown	SM				

Client: Schnabel Engineering, Inc.	Project: Subsurface Investigation Calvert Cliffs Nuclear PP	Location: Calvert County, MD	Project No: GTX-6880
Boring ID: B-746	Sample Type: tube	Tested By: sam	Checked By: mcm
Sample ID: S-6	Test Date: 11/08/06	Test Id: 102400	
Depth: 13.5-15.5 ft			
Test Comment: ---			
Sample Description: Moist, dark olive gray silty, clayey sand			
Sample Comment: ---			

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



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	—	71.2	28.8

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	99		
#100	0.15	92		
#200	0.075	29		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0362	19		
---	0.0220	18		
---	0.0132	16		
---	0.0092	15		
---	0.0065	12		
---	0.0046	10		
---	0.0033	9		
---	0.0015	7		

Coefficients	
D ₈₅ = 0.1383 mm	D ₃₀ = 0.0750 mm
D ₆₀ = 0.1047 mm	D ₁₅ = 0.0103 mm
D ₅₀ = 0.0937 mm	D ₁₀ = 0.0047 mm
C _u = N/A	C _c = N/A

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

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