RECENT INDEX PROPERTIES AND COMPACTION TESTING

Results of Testing Performed on Bulk Samples Obtained 30, 31 October 2002 by Hand Auger Immediately Adjacent to Indicated Boring (Hole Number)

NOTE: IN-PLACE WATER CONTENT VERSUS OPTIMUM WATER CONTENT

U.S. Army Corps of Engineers, Savannah District, Environmental & Materials Unit, Marietta, GA
Seismic Remediation of Clemson Diversion Dams, Requisition No. W33SJG23168595
Compaction Summary Table

Lab Number	Hole Number	Begin Depth (ft)	End Depth (ft)	Maximum Dry Density, pcf	Optimum Water Content, %	%Pass No. 4	%Pass No. 200	MC, %	Specific Gravity	Color	Classification
K6/115	CLD603	0.0	5.5	103.2	18.2	99.1	43.7	24.6	2.68	Reddish Brown	Micaceous Silty Sand (SM).
K6/116	CLD604	0.0	5.5	109.5	16.4	97.7	35.2	19.0	2.69	Dark Brown	Micaceous Silty Sand (SM), with a trace of gravel.
K6/117	CLD606	0.0	9.6	104.4	17.5	98.8	37.2	17.4	2.71	Reddish Brown	Micaceous Silty Sand (SM), with a trace of gravel.
K6/118	CLD609	0.0	9.0	106.0	17.4	98.8	47.2	24.5	2.71	Reddish Brown	Micaceous Silty Sand (SM), with a trace of gravel.
K6/112	CUD604	0.0	10.0	109.5	16.3	98.8	43.3	21.1	2.70	Red	Micaceous Silty Sand (SM-H), High Liquid Limit.
K6/113	CUD606	0.0	10.0	106.8	16.1	97.4	27.8	19.4	2.70	Brown	Micaceous Silty Sand (SM-H), High Liquid Limit, with a trace of gravel.
K6/114	CUD608	0.0	10.0	107.0	15.8	97.3	37.3	21.1	2.70	Dark Brown	Micaceous Silty Sand (SM), with a trace of gravel.

Note: Testing was conducted in General Accordance with ASTM's D698, D2216, D422, D854, & D2487.

12/30/2002

U.S. Army Corps of Engineers, Savannah District, Environmental & Materials Unit, Marietta, GA
Seismic Remediation of Clemson Diversion Dams, Requisition No. W33SJG23168595
Classification Summary Table

Lab Number	Hole Number	Begin Depth (ft)	End Depth (ft)	LL	PL	PI	%Pass No. 4	%Pass No. 200	MC, %	Specific Gravity	Color	Classification
K6/115	CLD603	0.0	5.5	48	36	12	99.1	43.7	24.6	2.68	Reddish Brown	Micaceous Silty Sand (SM).
K6/149	CLD603	1.0	1.0	49	37	12	99.1	26.8	23.5	---	Dark Reddish Brown	Micaceous Silty Sand (SM).
K6/151	CLD603	3.0	3.0	---	---	---	99.1	40.7	21.5	---	Reddish Brown	(Visual) Micaceous Silty Sand (SM).
K6/153	CLD603	5.0	5.0	52	45	7	99.8	40.1	28.8	---	Reddish Brown	Micaceous Silty Sand (SM-H), High Liquid Limit.
K6/116	CLD604	0.0	5.5	42	30	12	97.7	35.2	19.0	2.69	Dark Brown	Micaceous Silty Sand (SM), with a trace of gravel.
K6/154	CLD604	1.0	1.0	---	---	---	99.3	44.4	19.8	---	Dark Reddish Brown	(Visual) Micaceous Silty Sand (SM).
K6/156	CLD604	3.0	3.0	55	43	12	99.7	40.4	28.5	---	Reddish Brown	Micaceous Silty Sand (SM-H), High Liquid Limit.
K6/158	CLD604	5.0	5.0	---	---	---	94.2	18.8	12.2	---	Yellowish Red	(Visual) Micaceous Silty Sand (SM), with a trace of gravel.
K6/117	CLD606	0.0	9.6	43	38	5	98.8	37.2	17.4	2.71	Reddish Brown	Micaceous Silty Sand (SM), with a trace of gravel.
K6/160	CLD606	2.0	2.0	49	37	12	98.0	39.9	16.2	---	Yellowish Red	Micaceous Silty Sand (SM), with a trace of gravel.
K6/162	CLD606	4.0	4.0	---	---	---	100.0	25.6	21.6	---	Yellowish Red	(Visual) Micaceous Silty Sand (SM).
K6/164	CLD606	6.0	6.0	56	54	2	99.7	29.4	23.7	---	Yellowish Red	Micaceous Silty Sand (SM-H), High Liquid Limit.
K6/166	CLD606	8.0	8.0	---	---	---	99.1	40.8	20.2	---	Dark Red	(Visual) Micaceous Silty Sand (SM).
K6/168	CLD606	10.0	10.0	47	41	6	98.4	35.5	26.4	---	Dark Red	Micaceous Silty Sand (SM), with a trace of gravel.
K6/118	CLD609	0.0	9.0	44	37	7	98.8	47.2	24.5	2.71	Reddish Brown	Micaceous Silty Sand (SM), with a trace of gravel.
K6/169	CLD609	1.0	1.0	---	---	---	99.7	45.4	20.6	---	Reddish Brown	(Visual) Micaceous Silty Sand (SM).
K6/171	CLD609	3.0	3.0	49	41	8	98.3	33.3	29.9	---	Reddish Brown	Micaceous Silty Sand (SM), with a trace of gravel.
K6/173	CLD609	5.0	5.0	---	---	---	99.7	41.5	30.4	---	Reddish Brown	(Visual) Micaceous Silty Sand (SM).
K6/175	CLD609	7.0	7.0	53	31	22	99.7	50.8	19.8	---	Red	Micaceous Sandy Inorganic Silt (MH), High Liquid Limit.

Testing was conducted in General Accordance with ASTM's D422, D4318, D2216, D854, D2487.

12/30/2002

U.S. Army Corps of Engineers, Savannah District, Environmental & Materials Unit, Marietta, GA
Seismic Remediation of Clemson Diversion Dams, Requisition No. W33SJG23168595
Classification Summary Table

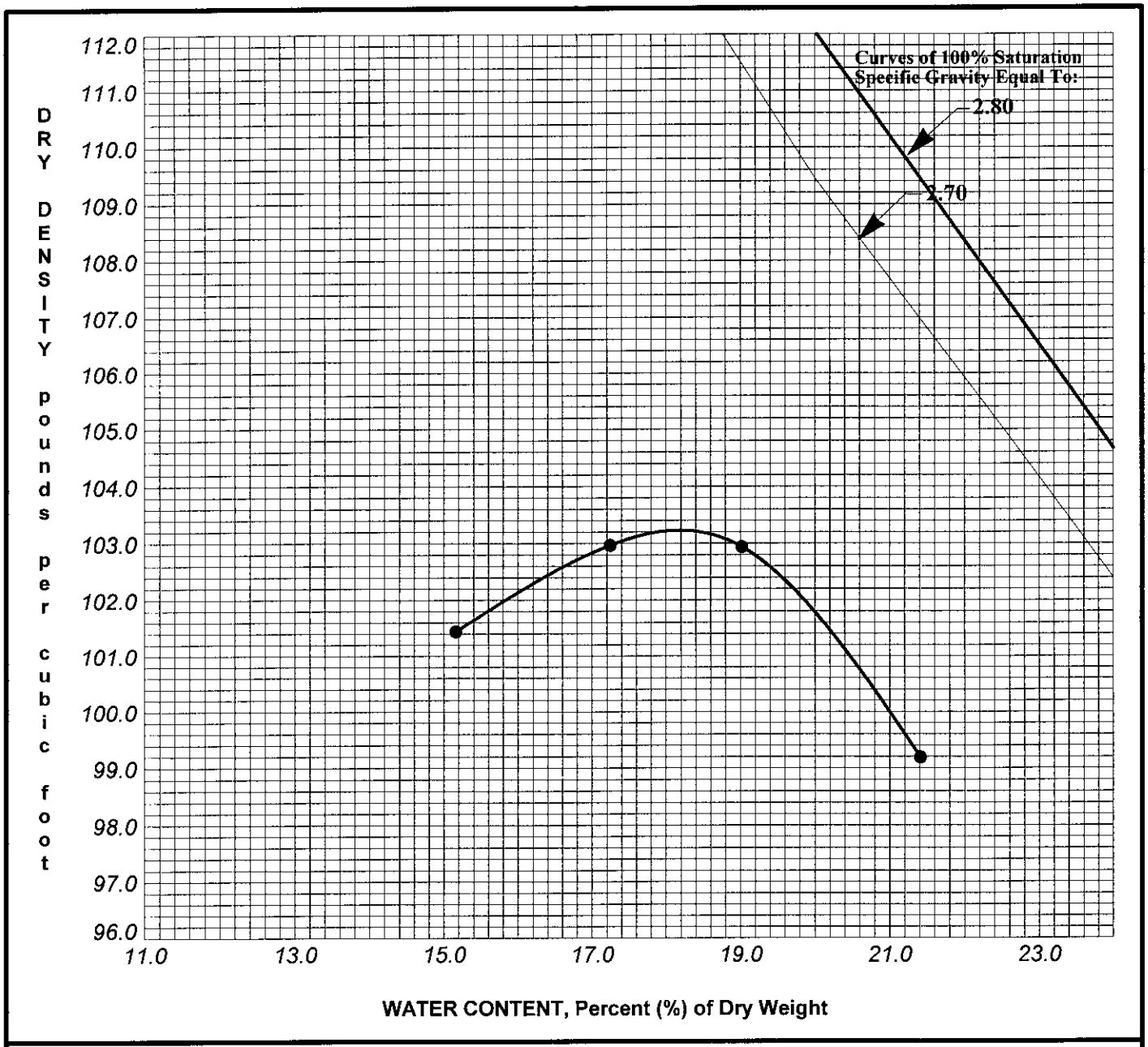
Lab Number	Hole Number	Begin Depth (ft)	End Depth (ft)	LL	PL	PI	%Pass No. 4	%Pass No. 200	MC, %	Specific Gravity	Color	Classification
K6/112	CUD604	0.0	10.0	43	36	7	98.8	43.3	21.1	2.70	Brown	Micaceous Silty Sand (SM), with a trace of gravel.
K6/119	CUD604	1.0	1.0	51	44	7	100.0	41.9	22.4	---	Red	Micaceous Silty Sand (SM-H), High Liquid Limit.
K6/121	CUD604	3.0	3.0	---	---	---	99.8	32.2	21.7	---	Reddish Yellow	(Visual) Micaceous Silty Sand (SM).
K6/123	CUD604	5.0	5.0	45	32	13	99.4	39.7	20.5	---	Yellowish Red	Micaceous Silty Sand (SM).
K6/125	CUD604	7.0	7.0	---	---	---	99.0	36.4	21.3	---	Reddish Brown	(Visual) Micaceous Silty Sand (SM).
K6/127	CUD604	9.0	9.0	48	40	8	99.1	33.5	19.5	---	Yellowish Red	Micaceous Silty Sand (SM).
K6/113	CUD606	0.0	10.0	53	46	7	97.4	27.8	19.4	2.70	Brown	Micaceous Silty Sand (SM-H), High Liquid Limit, with a trace of gravel.
K6/130	CUD606	2.0	2.0	56	49	7	99.5	32.1	22.2	---	Brown	Micaceous Silty Sand (SM-H), High Liquid Limit.
K6/132	CUD606	4.0	4.0	---	---	---	98.5	25.0	19.8	---	Yellowish Red	(Visual) Micaceous Silty Sand (SM), with a trace of gravel.
K6/134	CUD606	6.0	6.0	45	43	2	100.0	31.4	17.4	---	Reddish Yellow	Micaceous Silty Sand (SM).
K6/136	CUD606	8.0	8.0	---	---	---	99.4	36.4	18.6	---	Reddish Brown	(Visual) Micaceous Silty Sand (SM).
K6/138	CUD606	10.0	10.0	52	43	9	99.7	34.2	19.1	---	Yellowish Red	Micaceous Silty Sand (SM-H), High Liquid Limit.
K6/114	CUD608	0.0	10.0	45	35	10	97.3	37.3	21.1	2.70	Dark Brown	Micaceous Silty Sand (SM), with a trace of gravel.
K6/139	CUD608	1.0	1.0	37	29	8	99.4	29.9	12.9	---	Reddish Brown	Micaceous Silty Sand (SM).
K6/141	CUD608	3.0	3.0	77	32	45	99.8	69.6	27.4	---	Red	Micaceous Fat Clay (CH), with some sand.
K6/143	CUD608	5.0	5.0	41	37	4	100.0	40.0	20.7	---	Light Brown	Micaceous Silty Sand (SM).
K6/145	CUD608	7.0	7.0	---	---	---	99.5	34.2	23.4	---	Brown	(Visual) Micaceous Silty Sand (SM).
K6/147	CUD608	9.0	9.0	55	51	4	99.2	34.0	21.2	---	Brown	Micaceous Silty Sand (SM-H), High Liquid Limit.

Testing was conducted in General Accordance with ASTM's D422, D4318, D2216, D854, D2487.

12/30/2002

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 NORTH COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

W.O. NO. 258e
PR&C NO. W33SJG23168595



Test Conducted: ASTM D698 Procedure A

25 Blows Per Each Of 3 Layers, With A 5.5 Pound Rammer And A 12 Inch Drop, Using A 4 Inch Diameter Mold.

Other test results reported were conducted in General Accordance with ASTM's D422, D4318, D854, D2216, & D2487.

Hole No.	Depth or Elev.	Specific Gravity	Atterberg Limits LL	PL	PI	Percent < No. 200	Percent > No. 4	Percent > 3/8 in.	Percent > 3/4 in.	Classification
CLD603	0.0 to 5.5	2.68	48	36	12	43.7	0.9	0	0	Reddish Brown, Micaceous Silty Sand (SM).

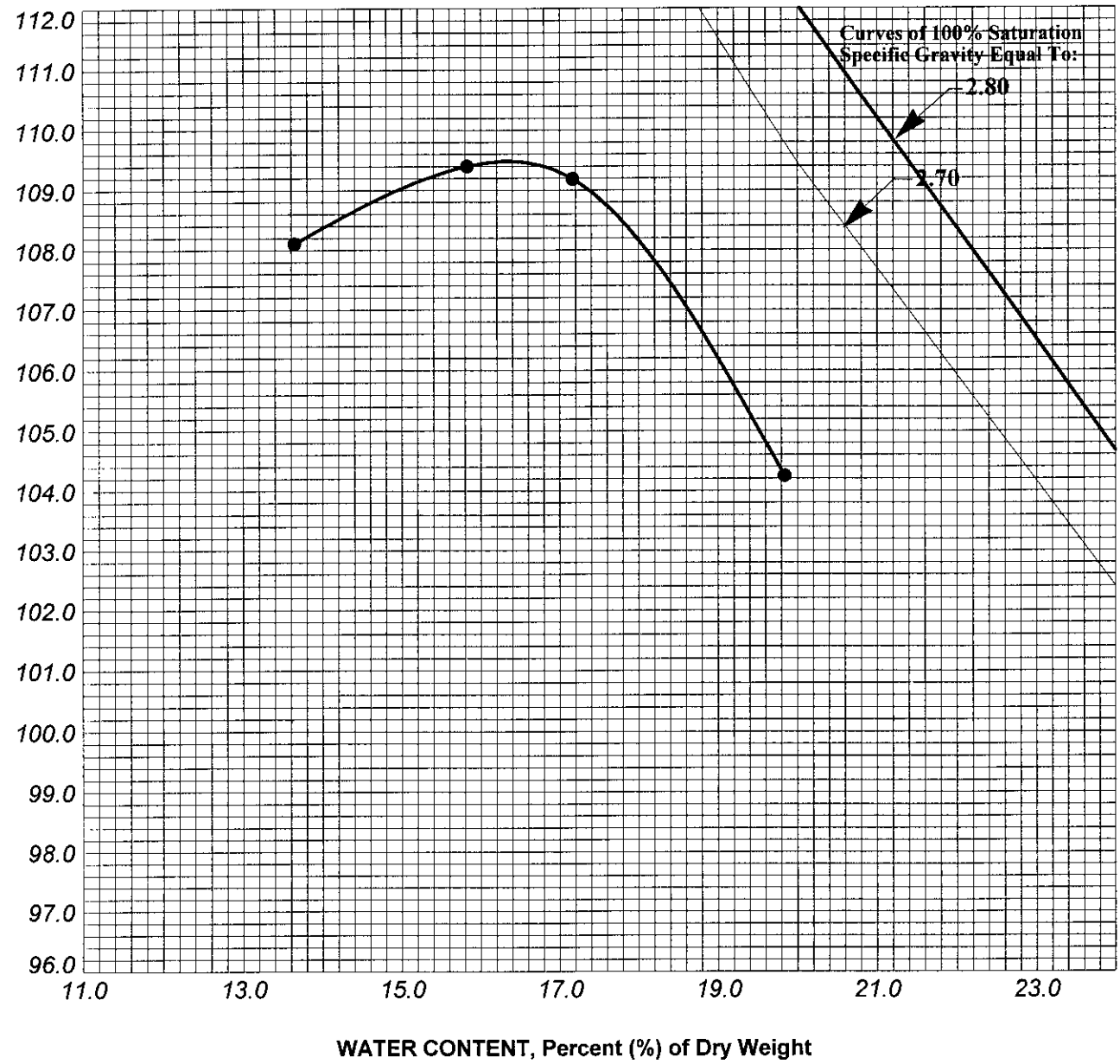
Sample Data	Results	Remarks
Water Content, Percent (%)	24.6	
Optimum Water Content, Percent (%)	18.2	
Maximum Dry Density, Pounds per Cubic Foot (pcf)	103.2	

PROJECT Clemson Dam, South Carolina **DATE** 12/26/2002
LOCATION **LAB NUMBER** K6/115

COMPACTION TEST REPORT

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 NORTH COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

W.O. NO. 258e
PR&C NO. W33SJG23168595



Test Conducted: ASTM D698 Procedure A

25 Blows Per Each Of 3 Layers, With A 5.5 Pound Rammer And A 12 Inch Drop, Using A 4 Inch Diameter Mold.

Other test results reported were conducted in General Accordance with ASTM's D422, D4318, D854, D2216, & D2487.

Hole No.	Depth or Elev.	Specific Gravity	Atterberg Limits LL	PL	PI	Percent < No. 200	Percent > No. 4	Percent > 3/8 in.	Percent > 3/4 in.	Classification
CLD604	0.0 to 5.5	2.69	42	30	12	35.2	2.3	0	0	Dark Brown, Micaceous Silty Sand (SM), with a trace of gravel.

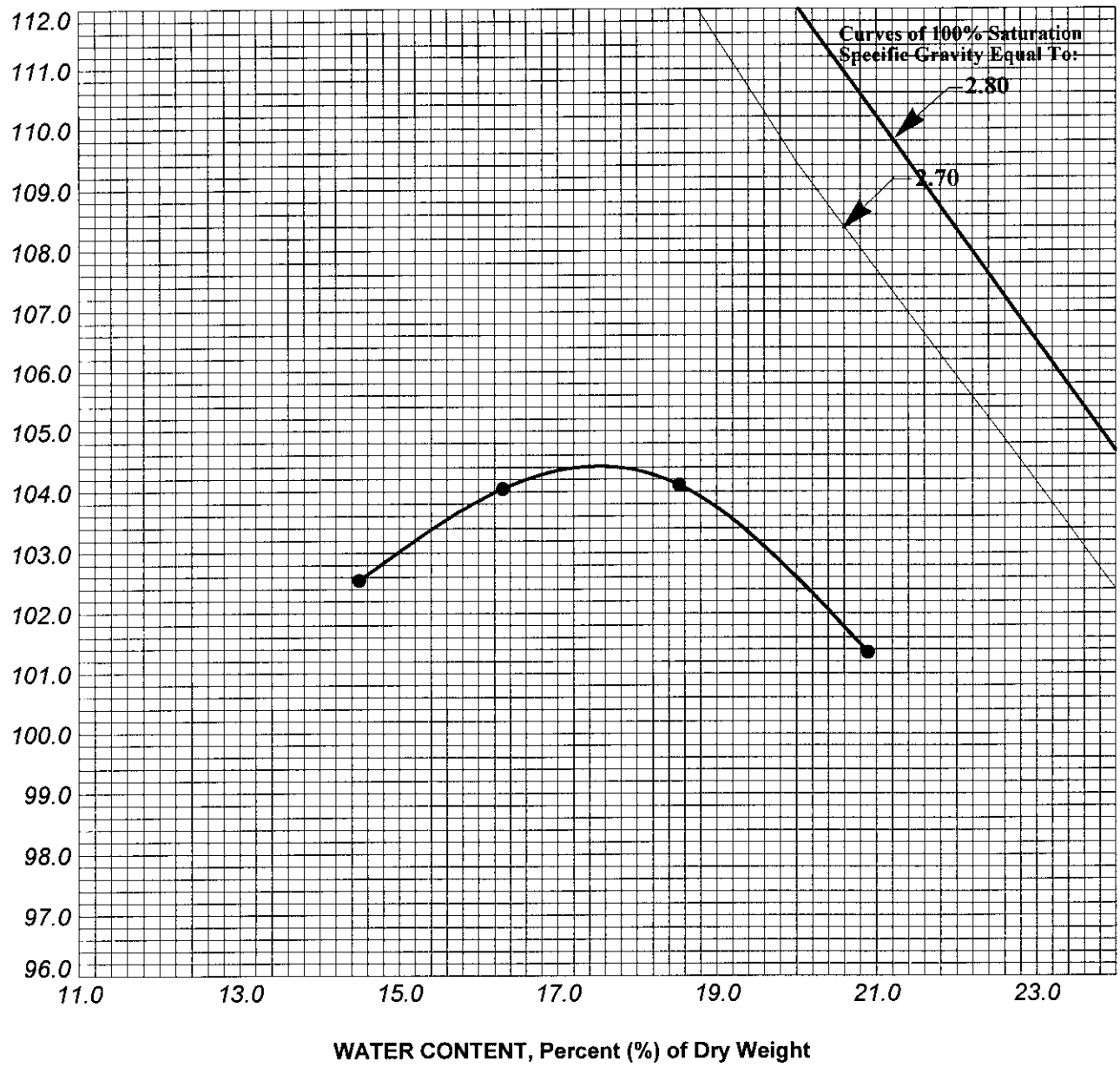
Sample Data	Results	Remarks
Water Content, Percent (%)	19.0	
Optimum Water Content, Percent (%)	16.4	
Maximum Dry Density, Pounds per Cubic Foot (pcf)	109.5	

PROJECT Clemson Dam, South Carolina **DATE** 12/26/2002
LOCATION **LAB NUMBER** K6/116

COMPACTION TEST REPORT

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 NORTH COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

W.O. NO. 258e
PR&C NO. W33SJG23168595



Test Conducted: ASTM D698 Procedure A

25 Blows Per Each Of 3 Layers, With A 5.5 Pound Rammer And A 12 Inch Drop, Using A 4 Inch Diameter Mold.

Other test results reported were conducted in General Accordance with ASTM's D422, D4318, D854, D2216, & D2487.

Hole No.	Depth or Elev.	Specific Gravity	Atterberg Limits LL	PL	PI	Percent < No. 200	Percent > No. 4	Percent > 3/8 in.	Percent > 3/4 in.	Classification
CLD606	0.0 to 9.6	2.71	43	38	5	37.2	1.2	0	0	Reddish Brown, Micaceous Silty Sand (SM), with a trace of gravel.

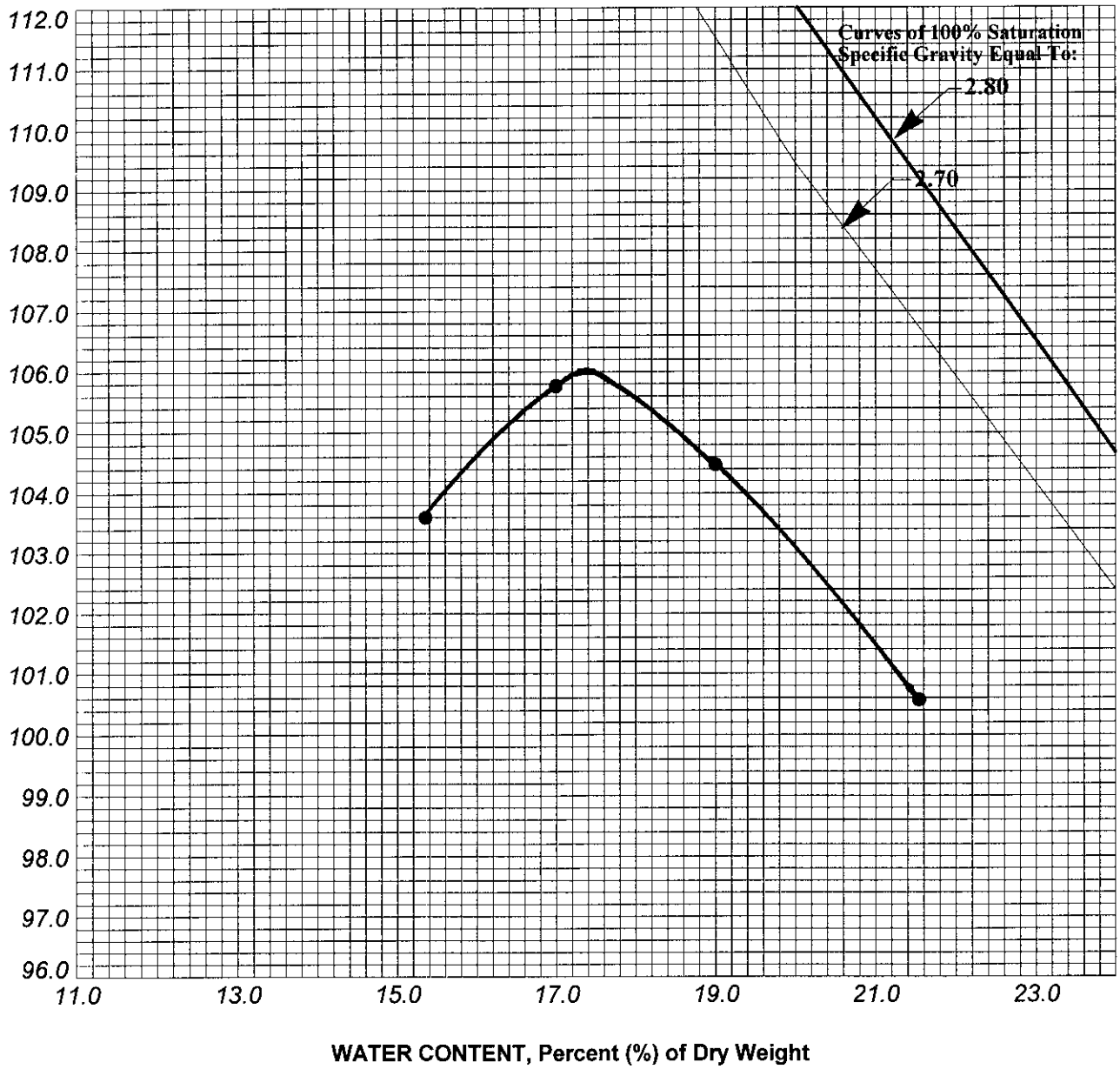
Sample Data	Results	Remarks
Water Content, Percent (%)	17.4	
Optimum Water Content, Percent (%)	17.5	
Maximum Dry Density, Pounds per Cubic Foot (pcf)	104.4	

PROJECT Clemson Dam, South Carolina **DATE** 12/26/2002
LOCATION **LAB NUMBER** K6/117

COMPACTION TEST REPORT

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 NORTH COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

W.O. NO. 258e
PR&C NO. W33SJG23168595



Test Conducted: ASTM D698 Procedure A

25 Blows Per Each Of 3 Layers, With A 5.5 Pound Rammer And A 12 Inch Drop, Using A 4 Inch Diameter Mold.

Other test results reported were conducted in General Accordance with ASTM's D422, D4318, D854, D2216, & D2487.

Hole No.	Depth or Elev.	Specific Gravity	Atterberg Limits LL	PL	PI	Percent < No. 200	Percent > No. 4	Percent > 3/8 in.	Percent > 3/4 in.	Classification
CLD609	0.0 to 9.0	2.71	44	37	7	47.2	1.2	0	0	Reddish Brown, Micaceous Silty Sand (SM), with a trace of gravel.

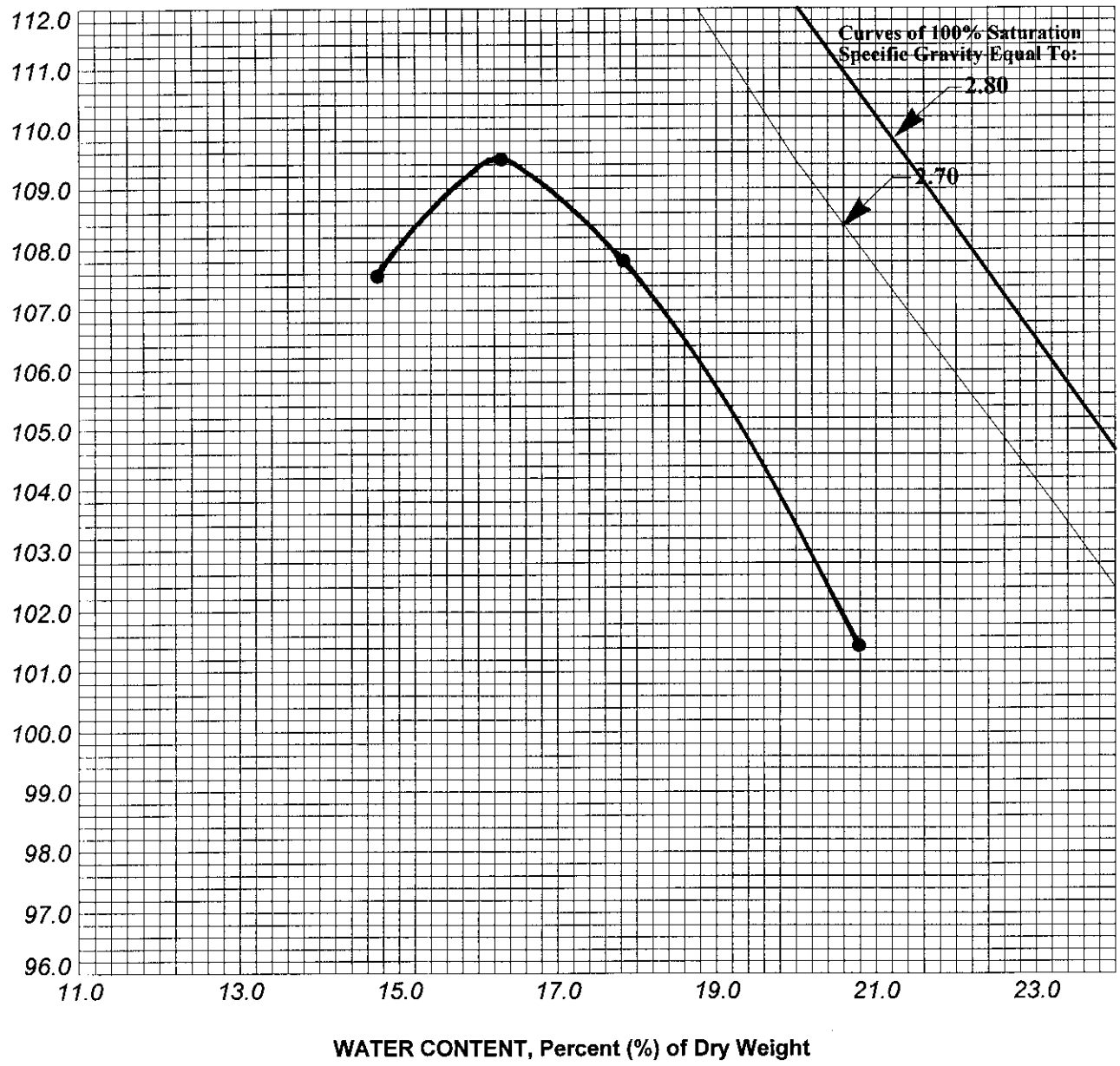
Sample Data	Results	Remarks
Water Content, Percent (%)	24.5	
Optimum Water Content, Percent (%)	17.4	
Maximum Dry Density, Pounds per Cubic Foot (pcf)	106.0	

PROJECT Clemson Dam, South Carolina **DATE** 12/26/2002
LOCATION **LAB NUMBER** K6/118

COMPACTION TEST REPORT

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 NORTH COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

W.O. NO. 258e
PR&C NO. W33SJG23168595



Test Conducted: ASTM D698 Procedure A

25 Blows Per Each Of 3 Layers, With A 5.5 Pound Rammer And A 12 Inch Drop, Using A 4 Inch Diameter Mold.

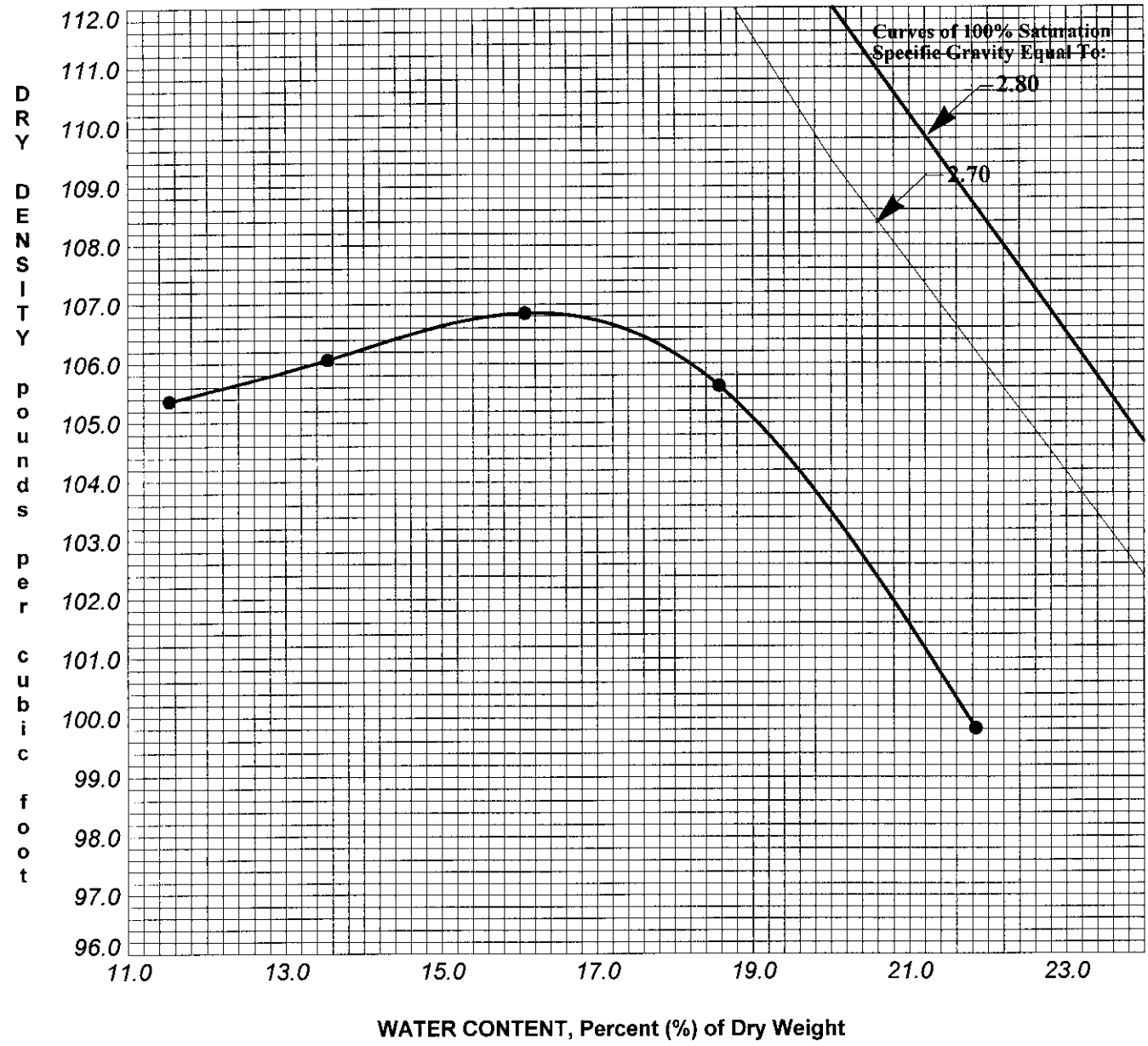
Other test results reported were conducted in General Accordance with ASTM's D422, D4318, D854, D2216, & D2487.

Hole No.	Depth or Elev.	Specific Gravity	Atterberg Limits LL	PL	PI	Percent < No. 200	Percent > No. 4	Percent > 3/8 in.	Percent > 3/4 in.	Classification
CUD604	0.0 to 10.0	2.70	43	36	7	43.3	1.2	0	0	Brown, Micaceous Silty Sand (SM), with a trace of gravel.

Sample Data	Results	Remarks
Water Content, Percent (%)	21.1	
Optimum Water Content, Percent (%)	16.3	
Maximum Dry Density, Pounds per Cubic Foot (pcf)	109.5	

PROJECT Clemson Dam, South Carolina **DATE** 12/26/2002
LOCATION **LAB NUMBER** K6/112

COMPACTION TEST REPORT



Test Conducted: ASTM D698 Procedure A

25 Blows Per Each Of 3 Layers, With A 5.5 Pound Rammer And A 12 Inch Drop, Using A 4 Inch Diameter Mold.

Other test results reported were conducted in General Accordance with ASTM's D422, D4318, D854, D2216, & D2487.

Hole No.	Depth or Elev.	Specific Gravity	Atterberg Limits LL	PL	PI	Percent < No. 200	Percent > No. 4	Percent > 3/8 in.	Percent > 3/4 in.	Classification
CUD606	0.0 to 10.0	2.70	53	46	7	27.8	2.6	0	0	Brown, Micaceous Silty Sand (SM-H), High Liquid Limit, with a trace of gravel.

Sample Data	Results	Remarks
Water Content, Percent (%)	19.4	
Optimum Water Content, Percent (%)	16.1	
Maximum Dry Density, Pounds per Cubic Foot (pcf)	106.8	

PROJECT Clemson Dam, South Carolina **DATE** 12/26/2002

LOCATION **LAB NUMBER** K6/113

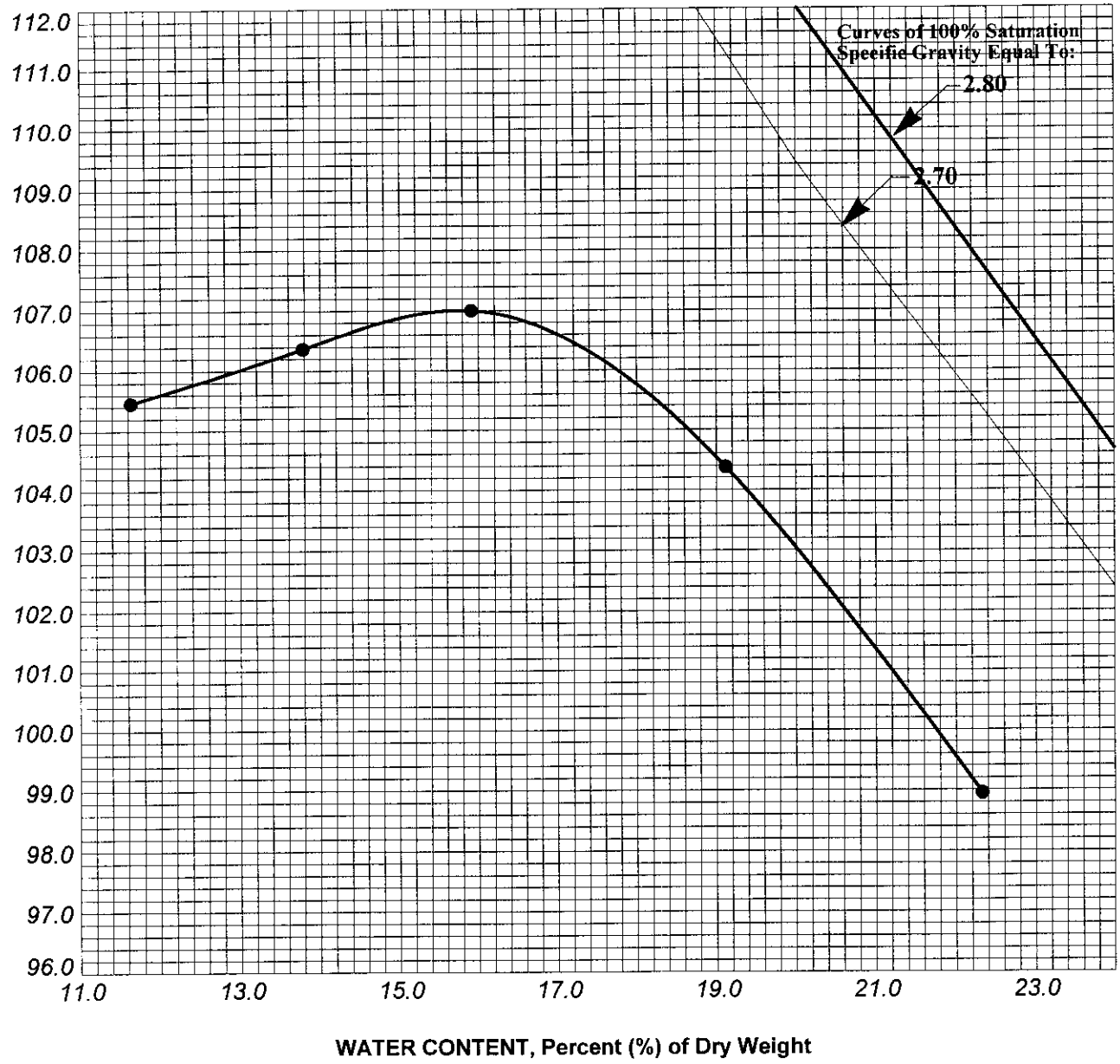
COMPACTION TEST REPORT

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 NORTH COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

W.O. NO. 258e
PR&C NO. W33SJG23168595

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 NORTH COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

W.O. NO. 258e
PR&C NO. W33SJG23168595



Test Conducted: ASTM D698 Procedure A

25 Blows Per Each Of 3 Layers, With A 5.5 Pound Rammer And A 12 Inch Drop, Using A 4 Inch Diameter Mold.

Other test results reported were conducted in General Accordance with ASTM's D422, D4318, D854, D2216, & D2487.

Hole No.	Depth or Elev.	Specific Gravity	Atterberg Limits LL	PL	PI	Percent < No. 200	Percent > No. 4	Percent > 3/8 in.	Percent > 3/4 in.	Classification
CUD608	0.0 to 10.0	2.70	45	35	10	37.3	2.7	0	0	Dark Brown, Micaceous Silty Sand (SM), with a trace of gravel.

Sample Data	Results	Remarks
Water Content, Percent (%)	21.1	
Optimum Water Content, Percent (%)	15.8	
Maximum Dry Density, Pounds per Cubic Foot (pcf)	107.0	

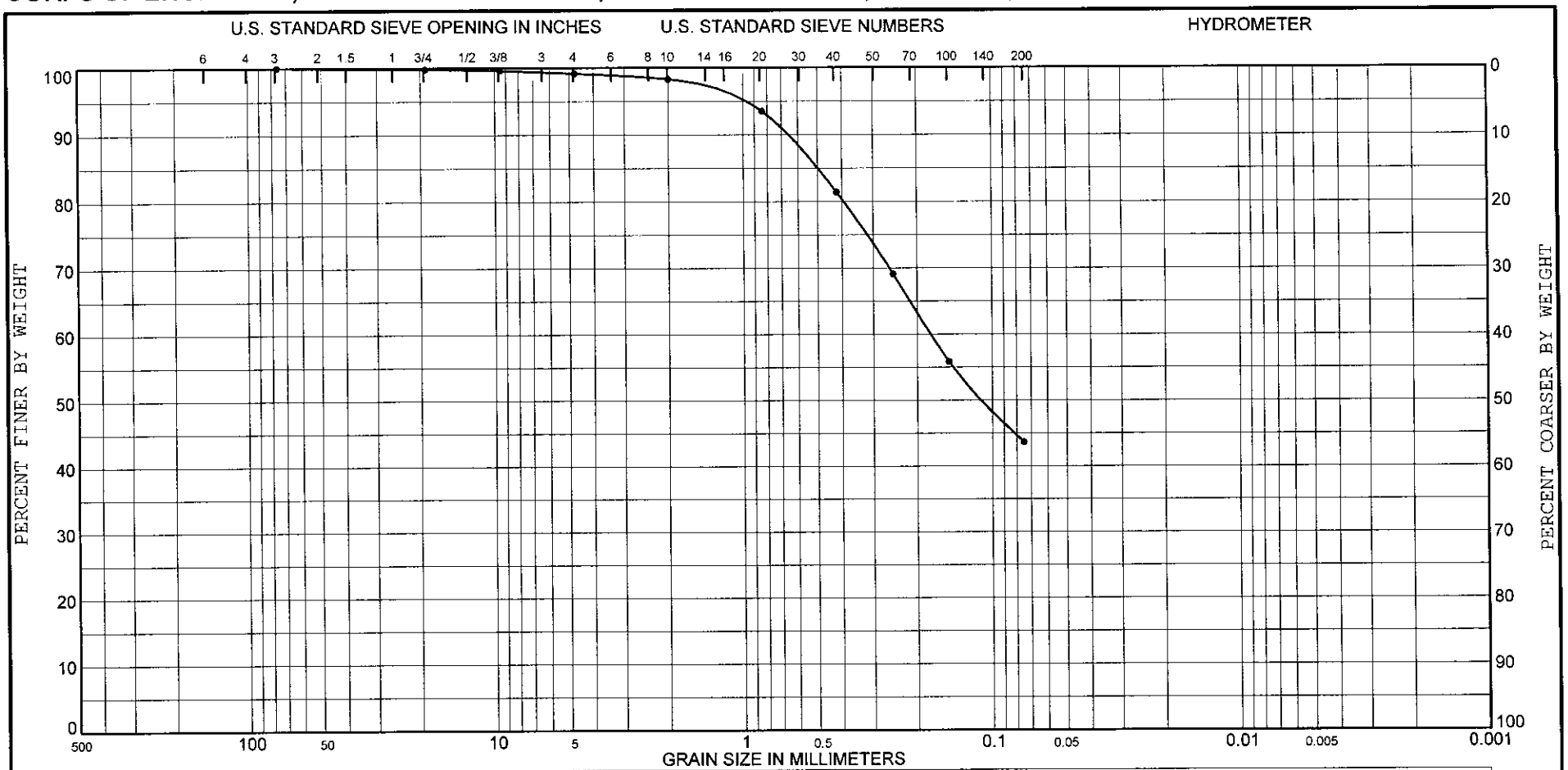
PROJECT Clemson Dam, South Carolina
LOCATION

DATE 12/26/2002
LAB NUMBER K6/114

COMPACTION TEST REPORT

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
	0.0 - 5.5	Reddish Brown, Micaceous Silty Sand (SM).	24.6	48	36	12
		Specific Gravity = 2.68.				

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/115

Boring No. CLD603

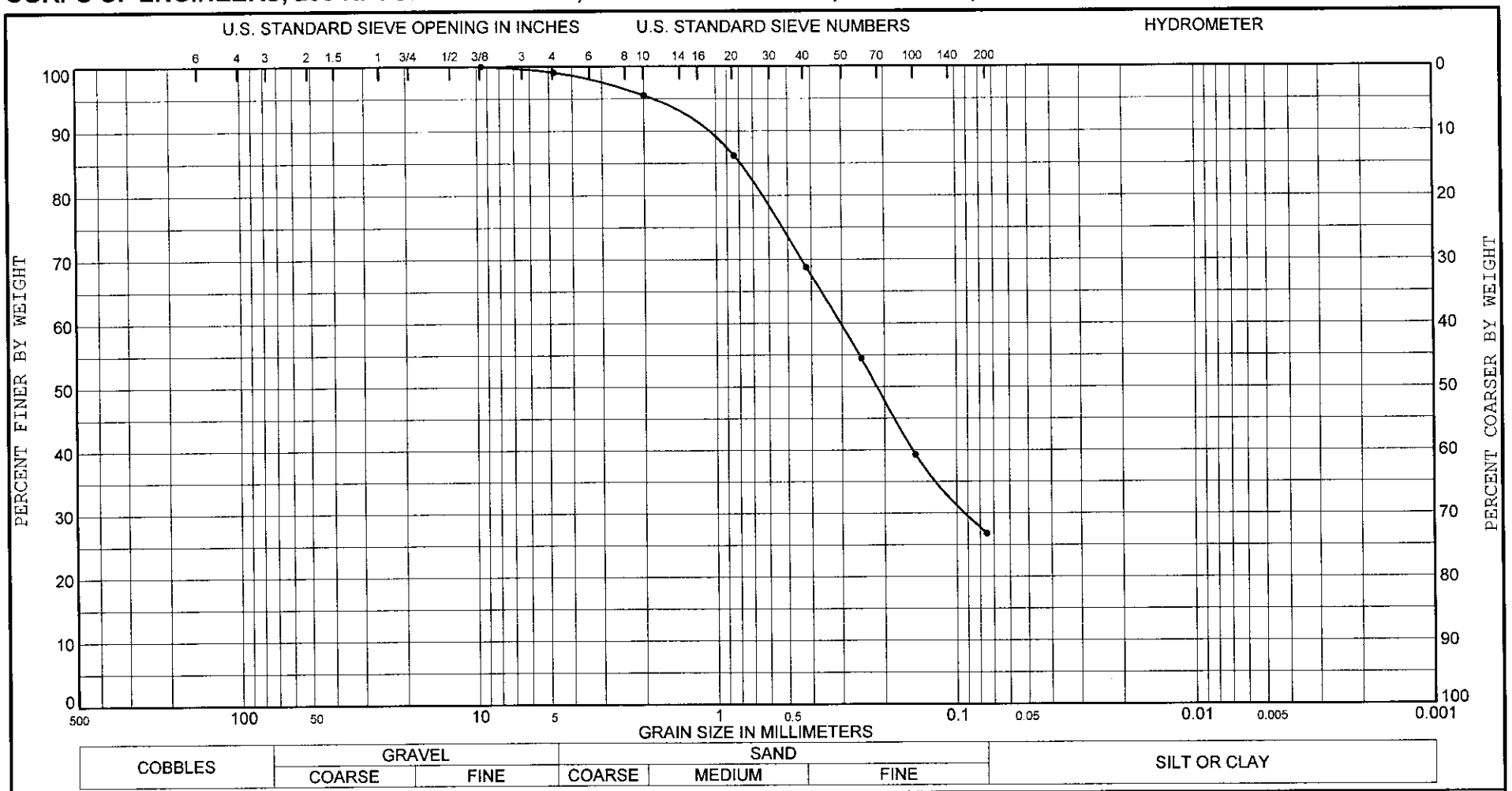
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
1	1.0 - 1.0	Dark Reddish Brown, Micaceous Silty Sand (SM).	23.5	49	37	12

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/149

Boring No. CLD603

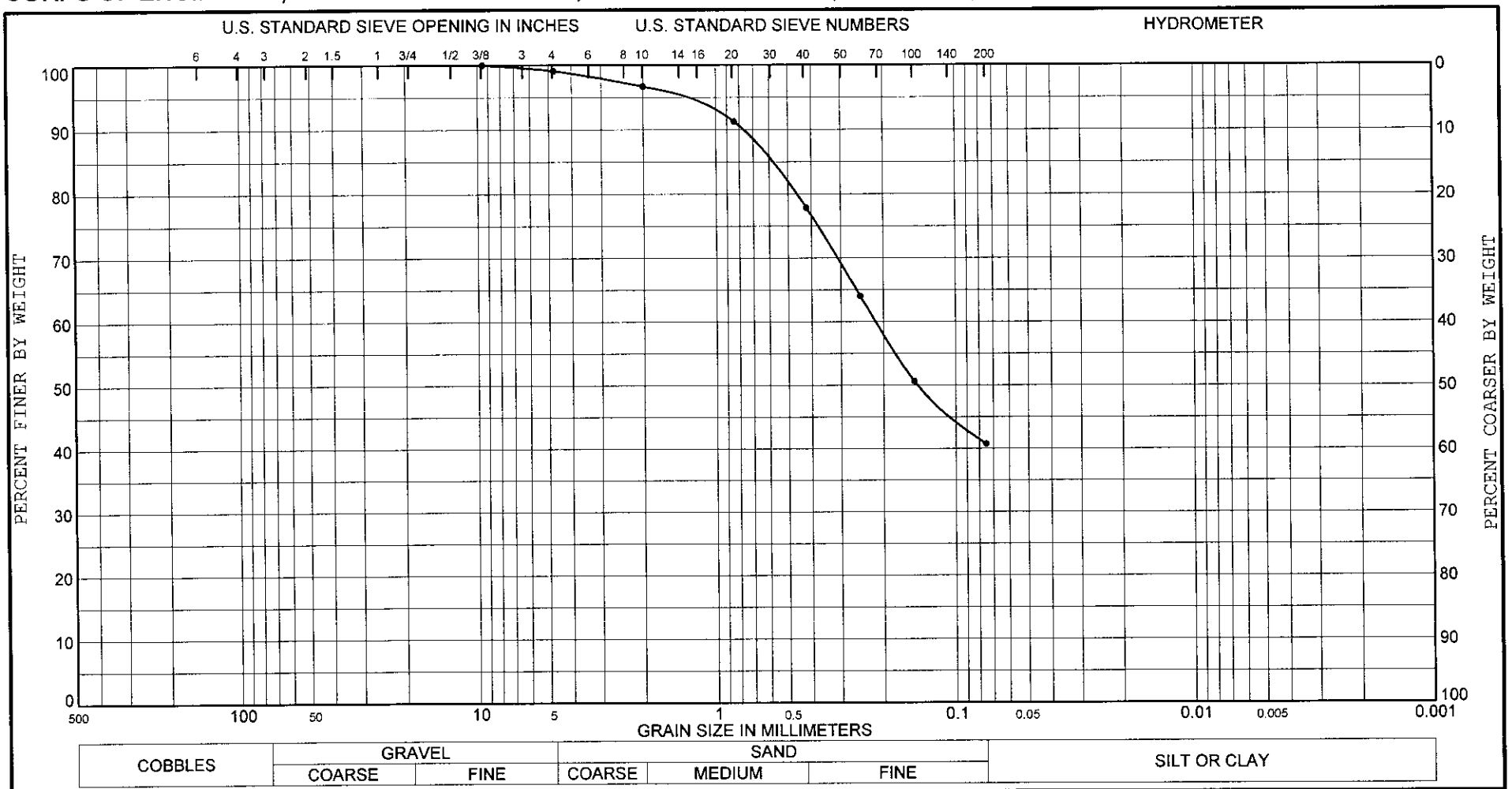
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
3	3.0 - 3.0	(Visual) Reddish Brown, Micaceous Silty Sand (SM).	21.5			

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/151

Boring No. CLD603

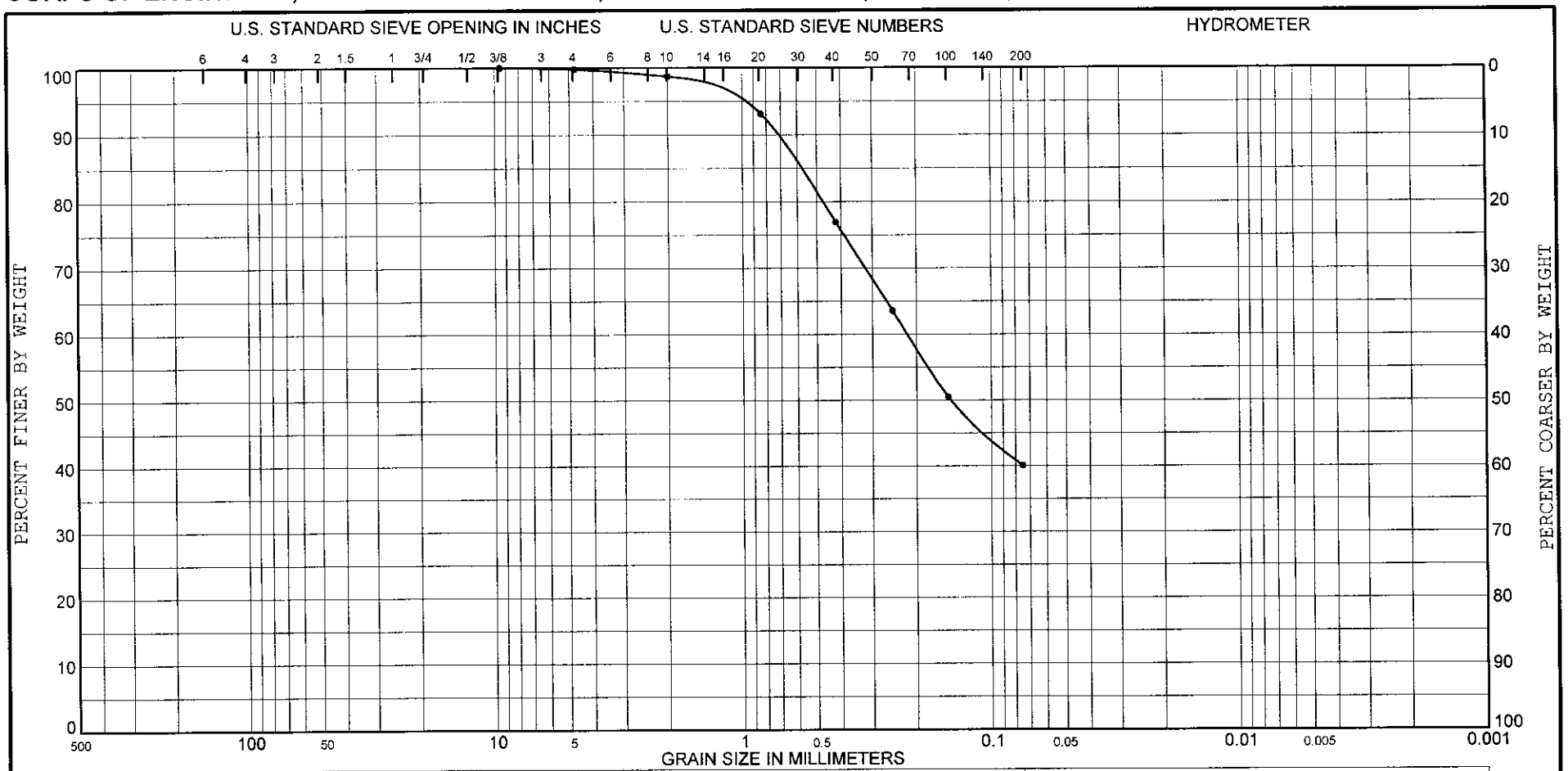
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
5	5.0 - 5.0	Reddish Brown, Micaceous Silty Sand (SM-H), High Liquid Limit.	28.8	52	45	7

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/153

Boring No. CLD603

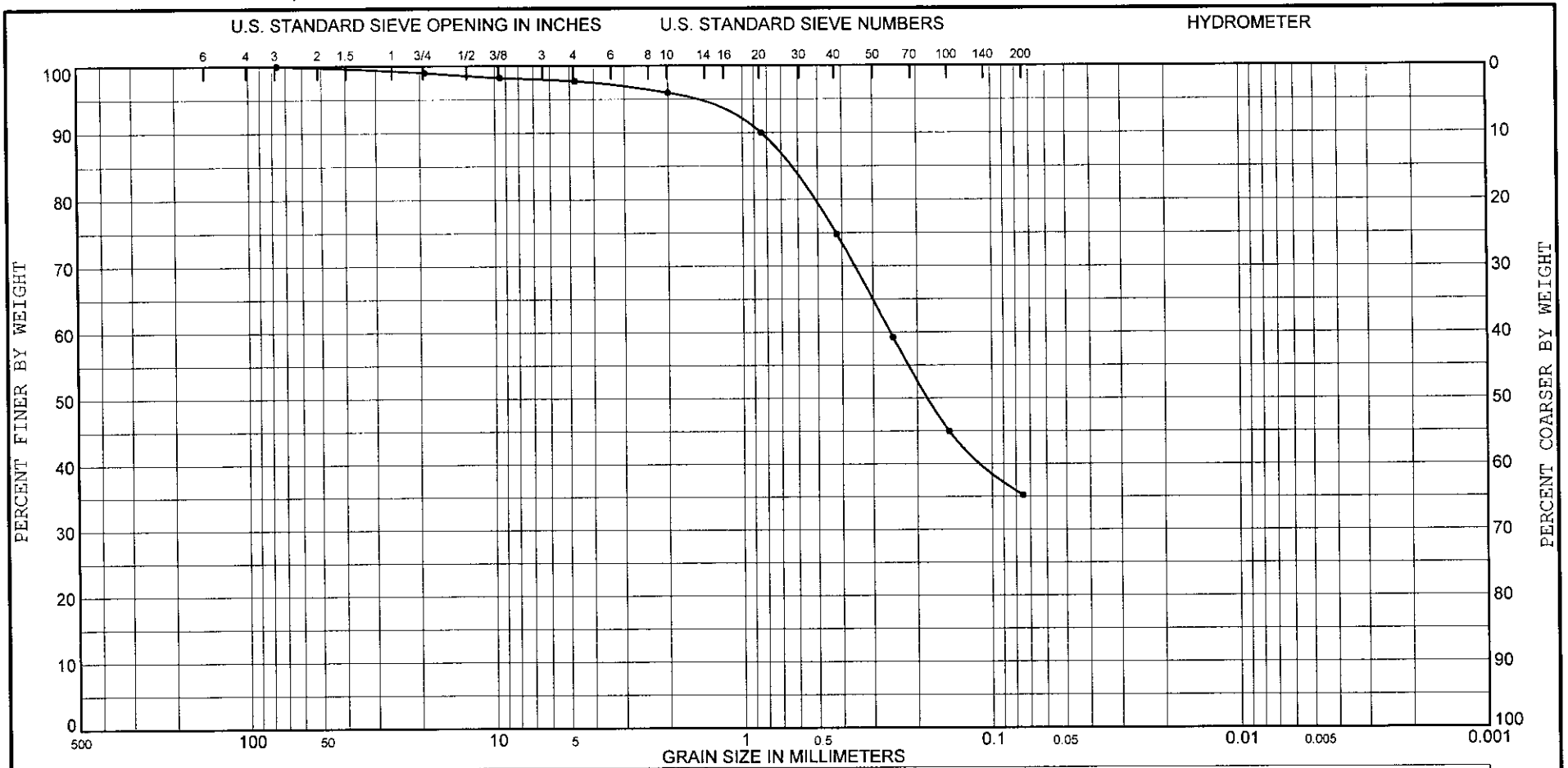
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
	0.0 - 5.5	Dark Brown, Micaceous Silty Sand (SM), with a trace of gravel.	19.0	42	30	12
		Specific Gravity = 2.69.				

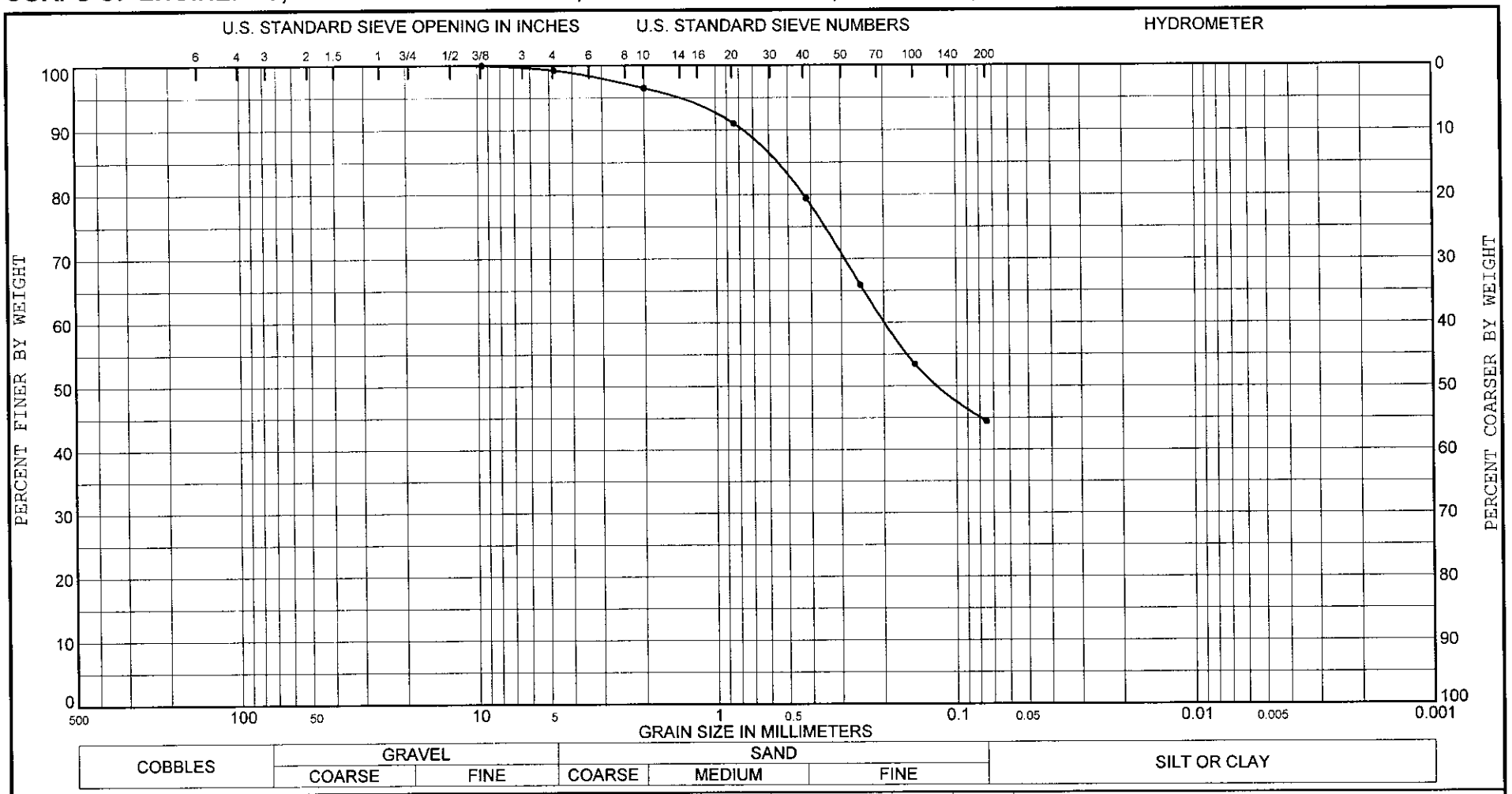
Project Clemson Dam, South Carolina
Remediation of Clemson Diversion Dams,
Lab No. K6/116
Boring No. CLD604
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
1	1.0 - 1.0	(Visual) Dark Reddish Brown, Micaceous Silty Sand (SM).	19.8			

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/154

Boring No. CLD604

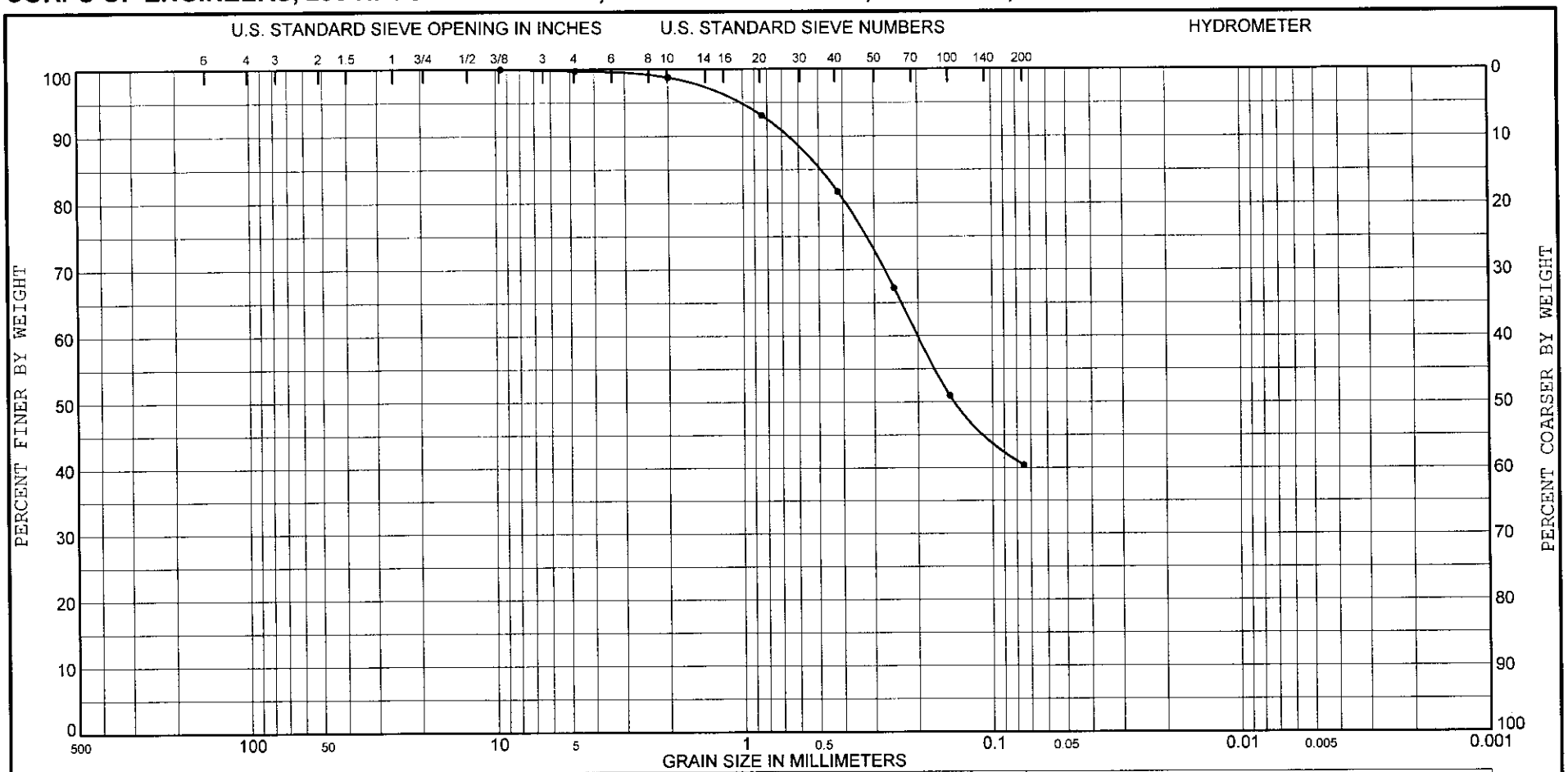
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
3	3.0 - 3.0	Reddish Brown, Micaceous Silty Sand (SM-H), High Liquid Limit.	28.5	55	43	12

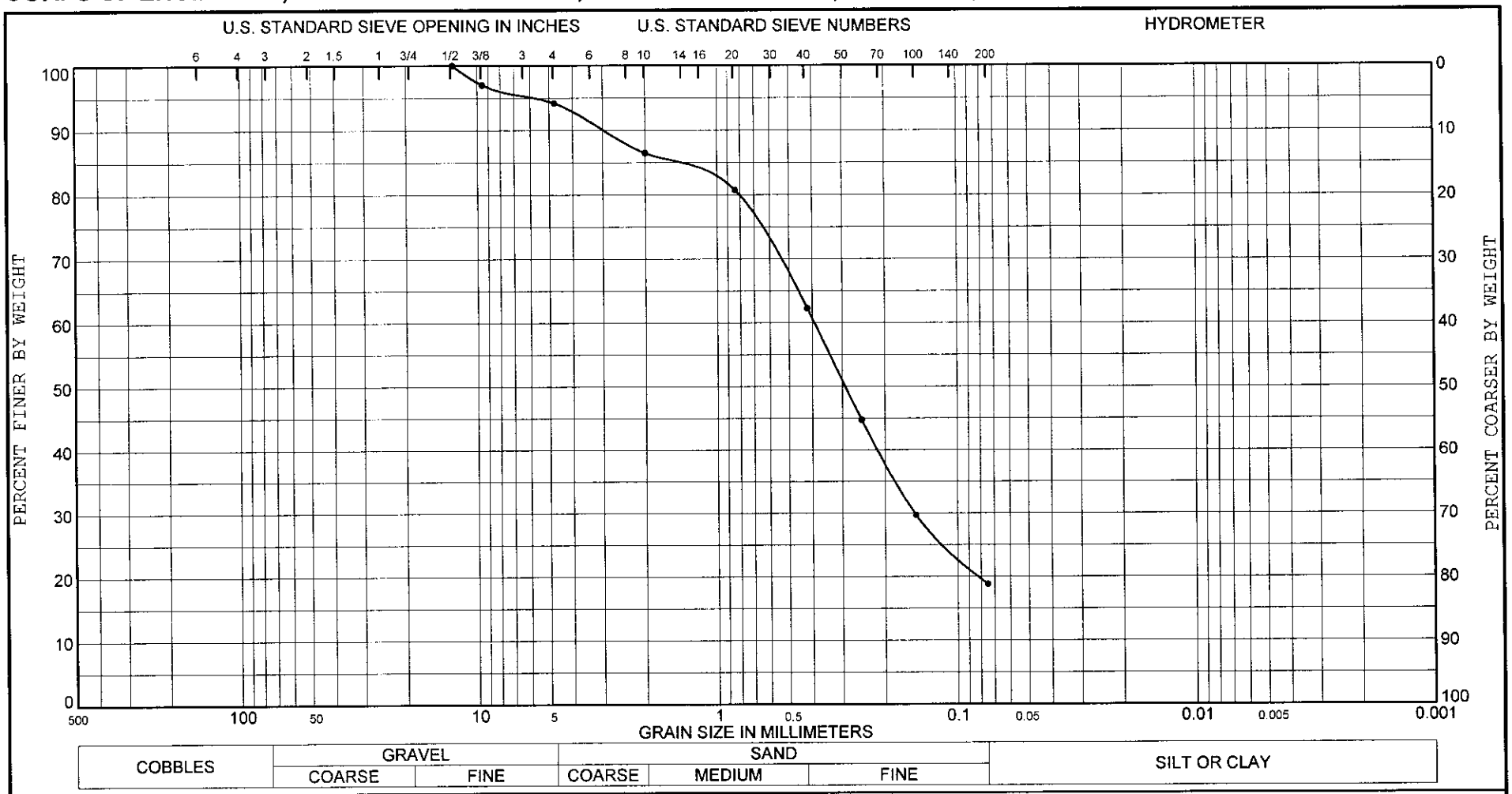
Project Clemson Dam, South Carolina
Remediation of Clemson Diversion Dams,
Lab No. K6/156
Boring No. CLD604
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
5	5.0 - 5.0	(Visual) Yellowish Red, Micaceous Silty Sand (SM), with a trace of gravel.	12.2			

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/158

Boring No. CLD604

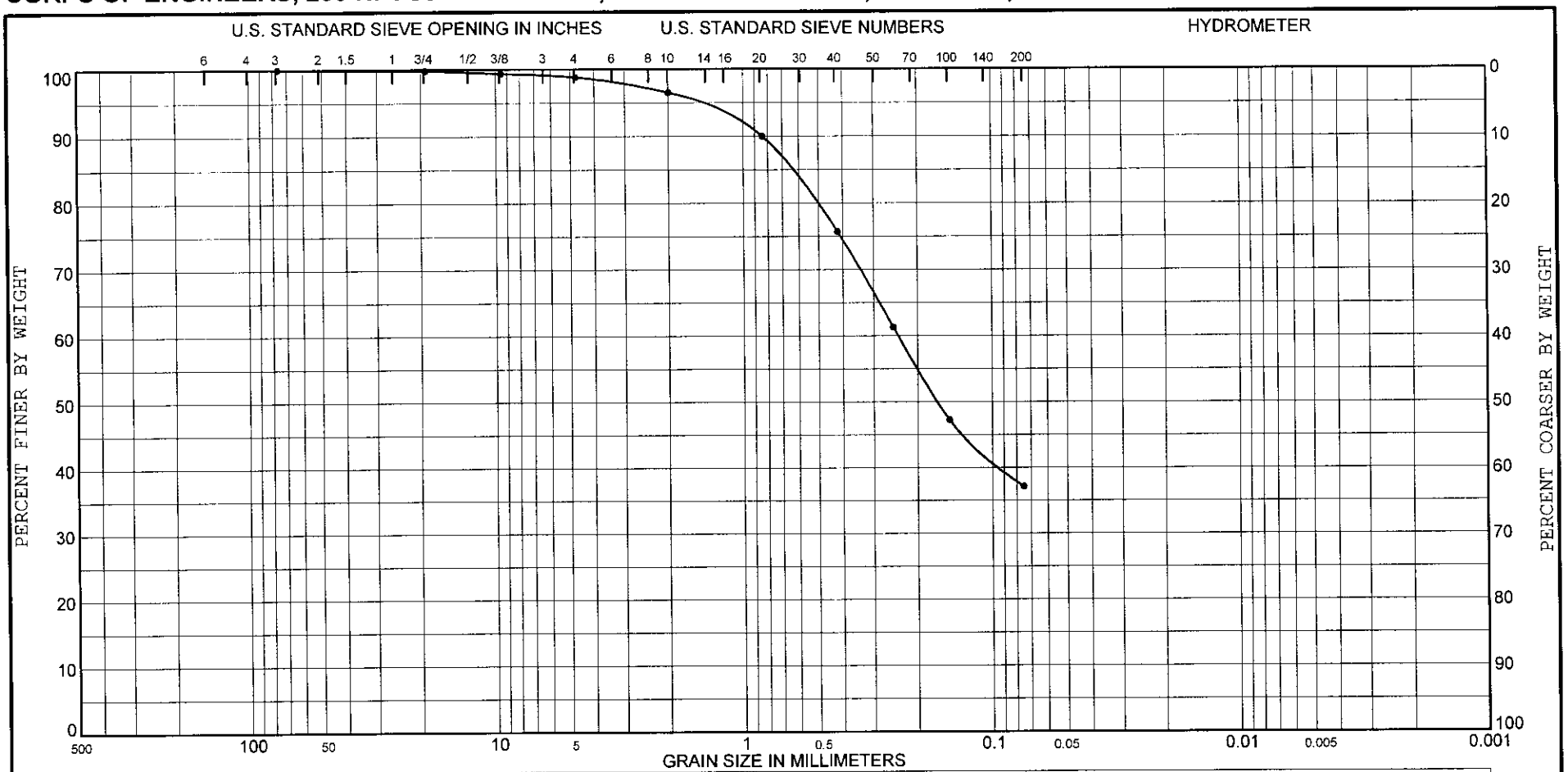
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
	0.0 - 9.6	Reddish Brown, Micaceous Silty Sand (SM), with a trace of gravel.	17.4	43	38	5
		Specific Gravity = 2.71.				

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/117

Boring No. CLD606

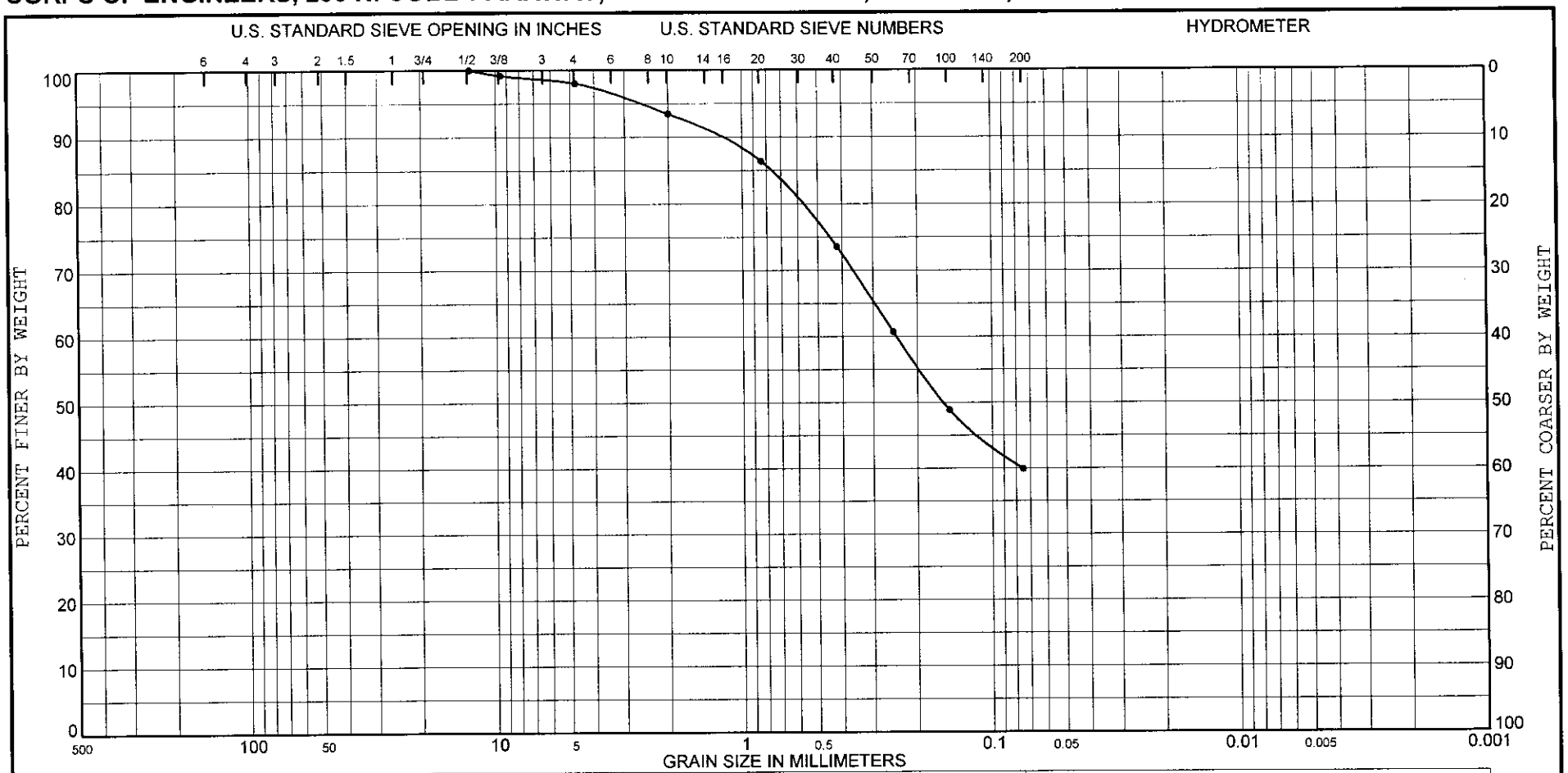
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
2	2.0 - 2.0	Yellowish Red, Micaceous Silty Sand (SM), with a trace of gravel.	16.2	49	37	12

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/160

Boring No. CLD606

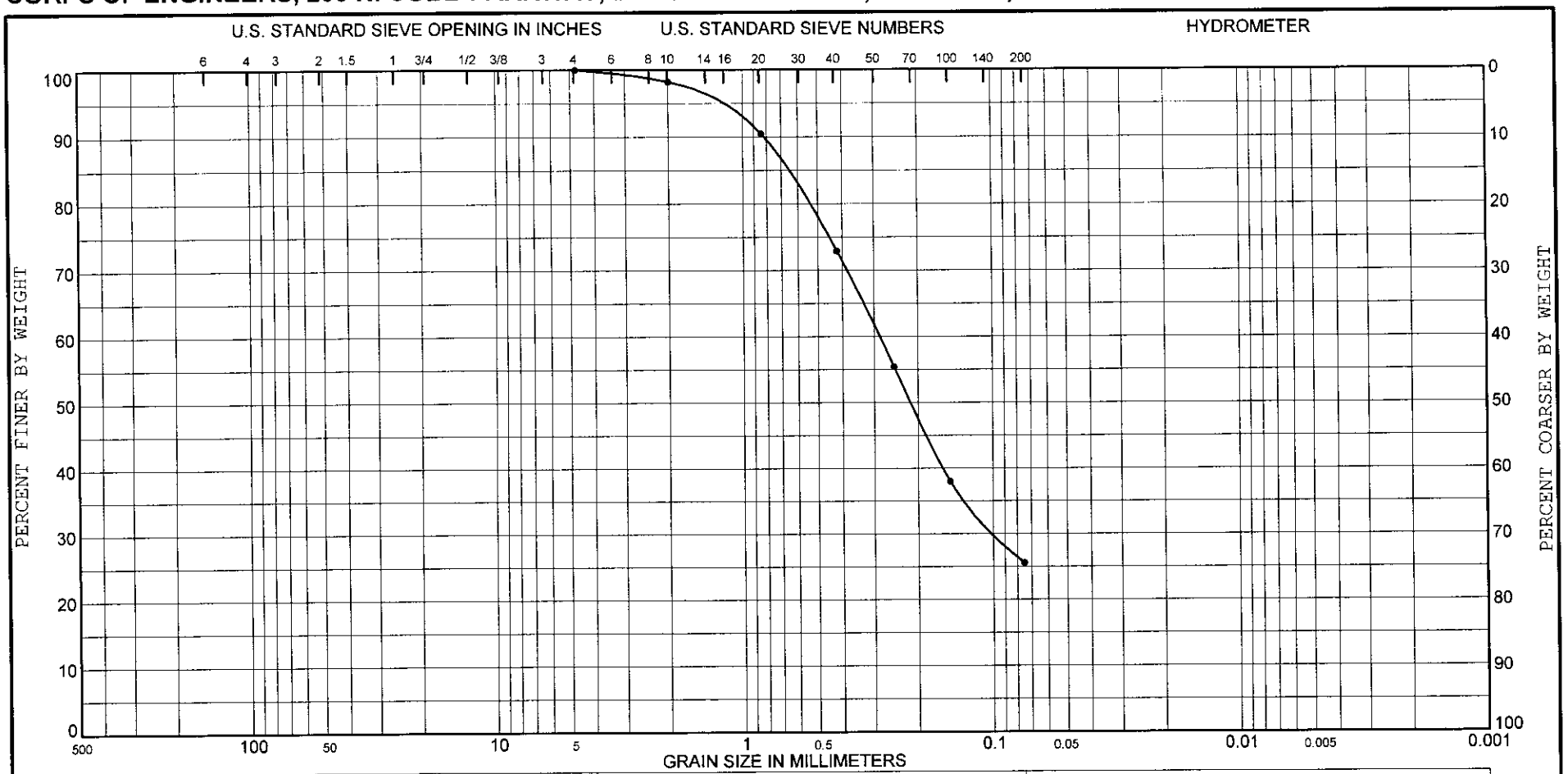
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
4	4.0 - 4.0	(Visual) Yellowish Red, Micaceous Silty Sand (SM).	21.6			

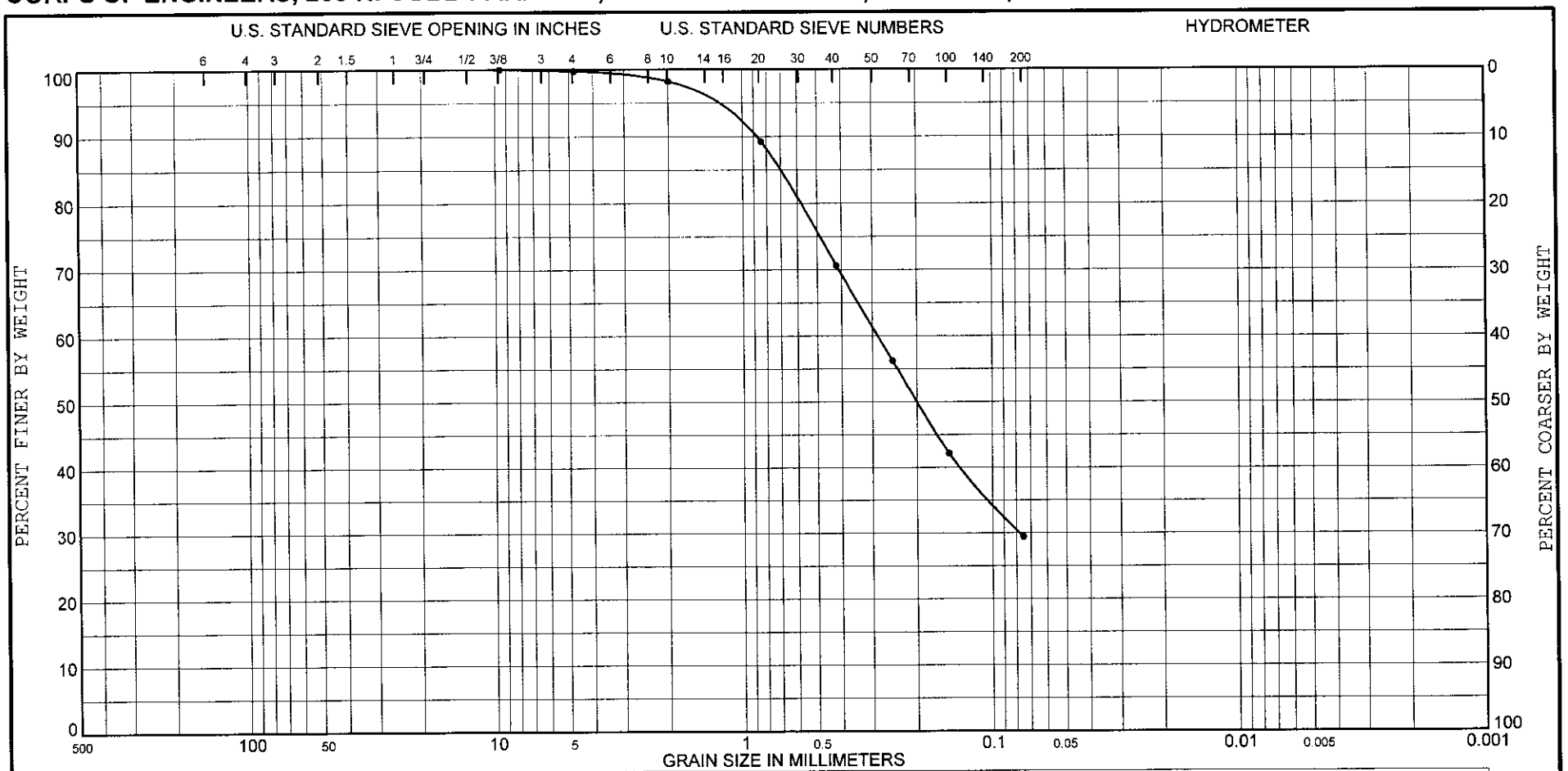
Project Clemson Dam, South Carolina
Remediation of Clemson Diversion Dams,
Lab No. K6/162
Boring No. CLD606
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
6	6.0 - 6.0	Yellowish Red, Micaceous Silty Sand (SM-H), High Liquid Limit.	23.7	56	54	2

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/164

Boring No. CLD606

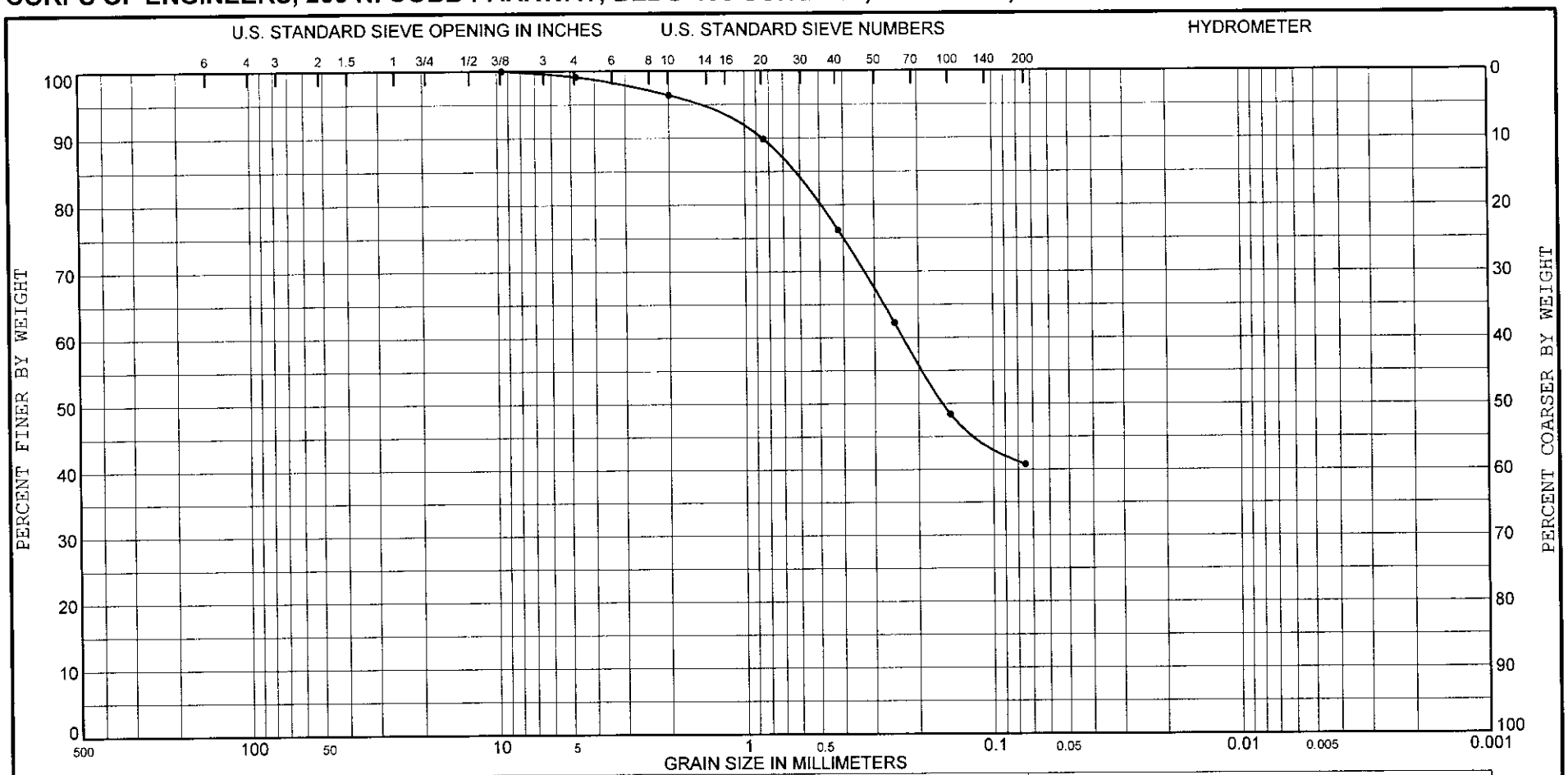
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
8	8.0 - 8.0	(Visual) Dark Red, Micaceous Silty Sand (SM).	20.2			

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/166

Boring No. CLD606

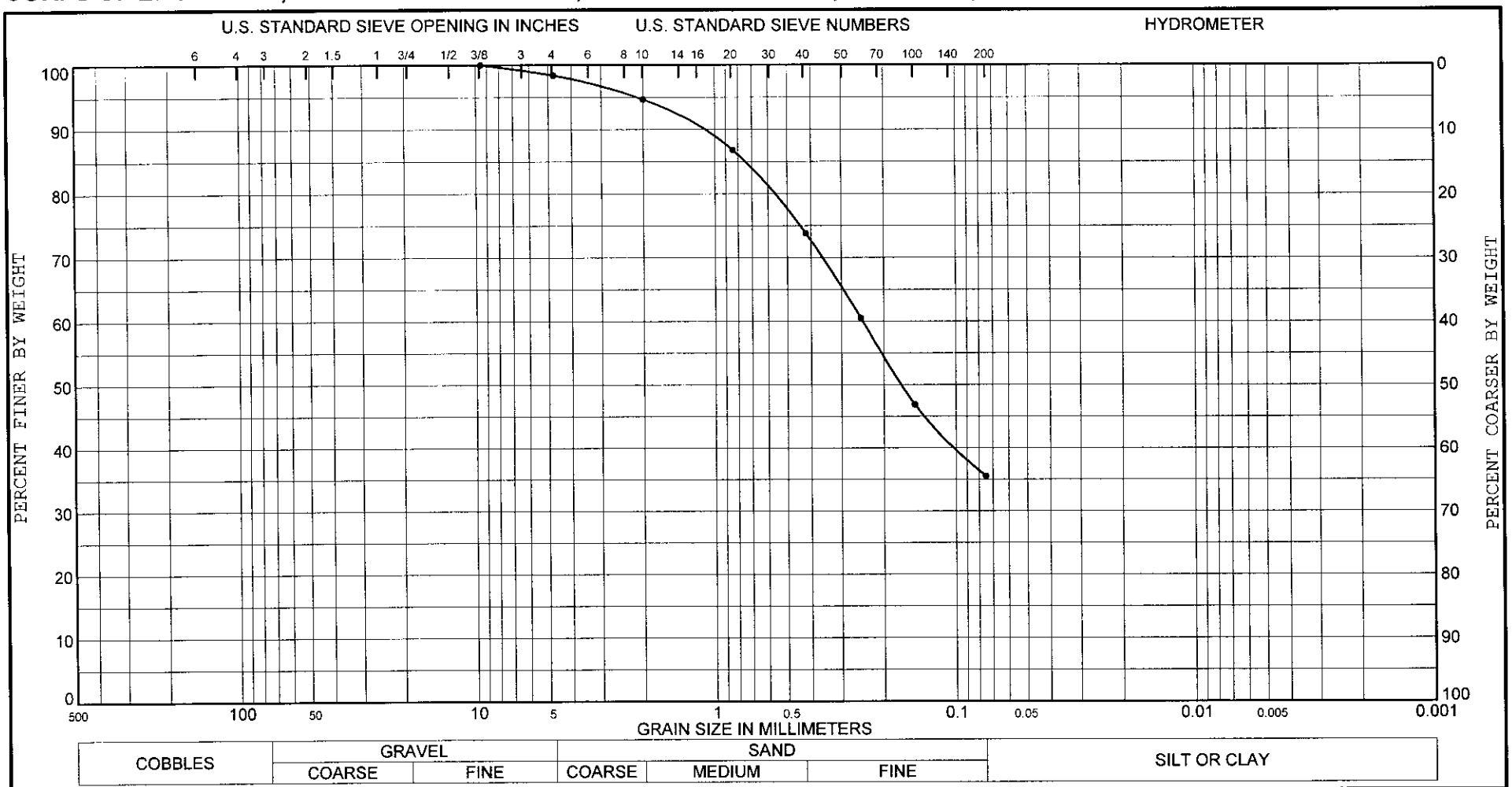
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
10	10.0 - 10.0	Dark Red, Micaceous Silty Sand (SM), with a trace of gravel.	26.4	47	41	6

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/168

Boring No. CLD606

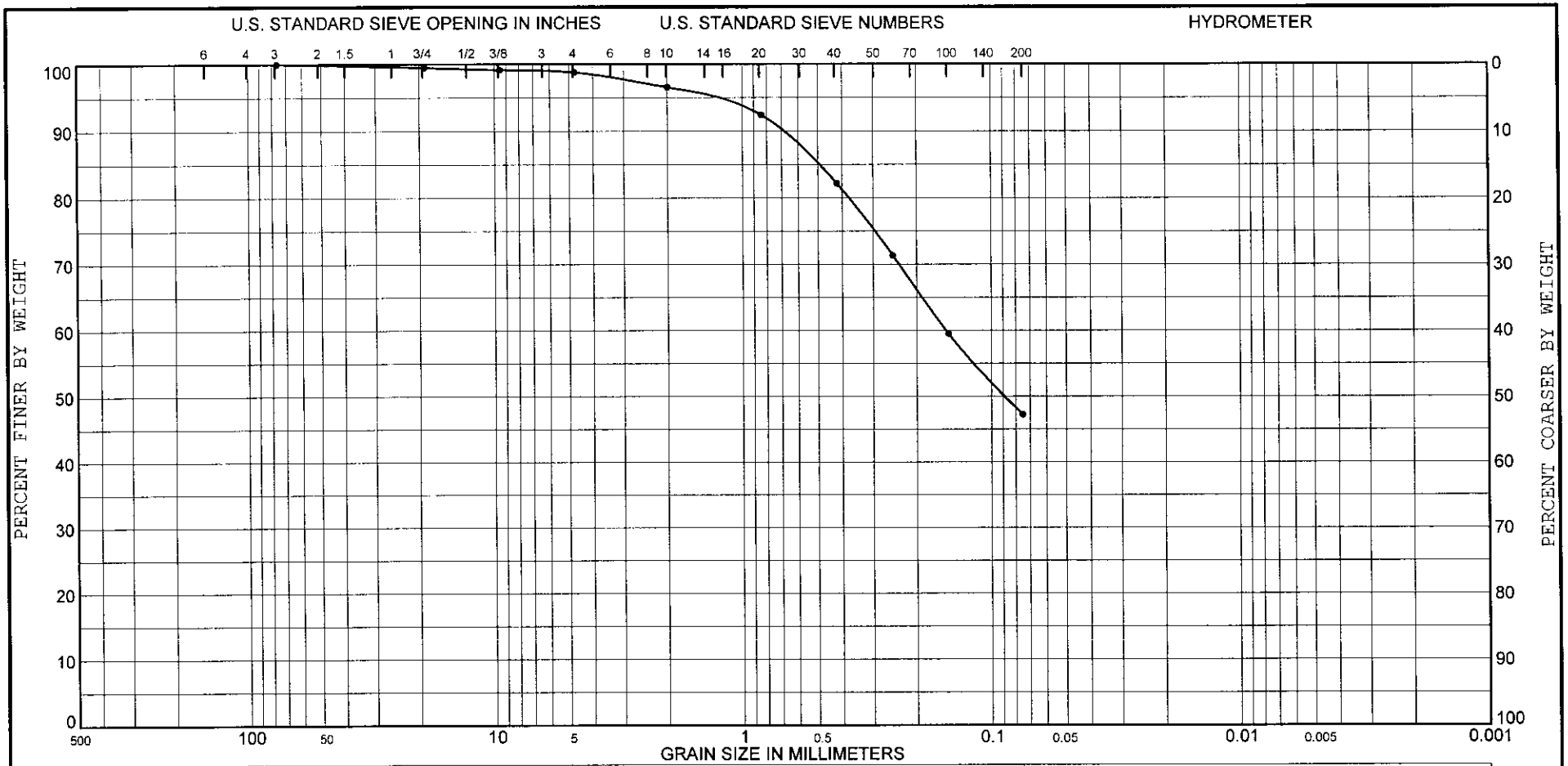
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
	0.0 - 9.0	Reddish Brown, Micaceous Silty Sand (SM), with a trace of gravel.	24.5	44	37	7
		Specific Gravity = 2.71.				

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/118

Boring No. CLD609

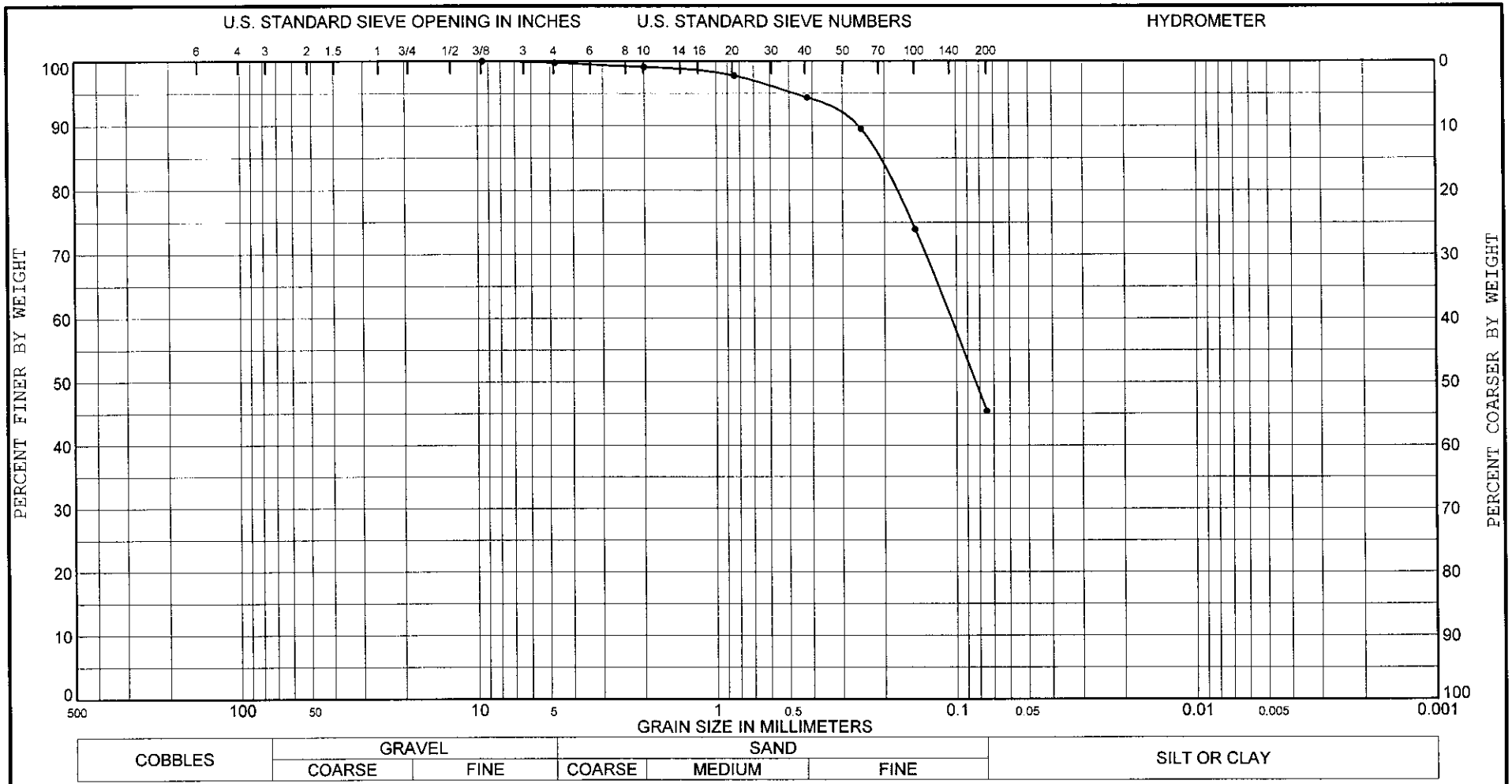
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
1	1.0 - 1.0	(Visual) Reddish Brown, Micaceous Silty Sand (SM).	20.6			

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/169

Boring No. CLD609

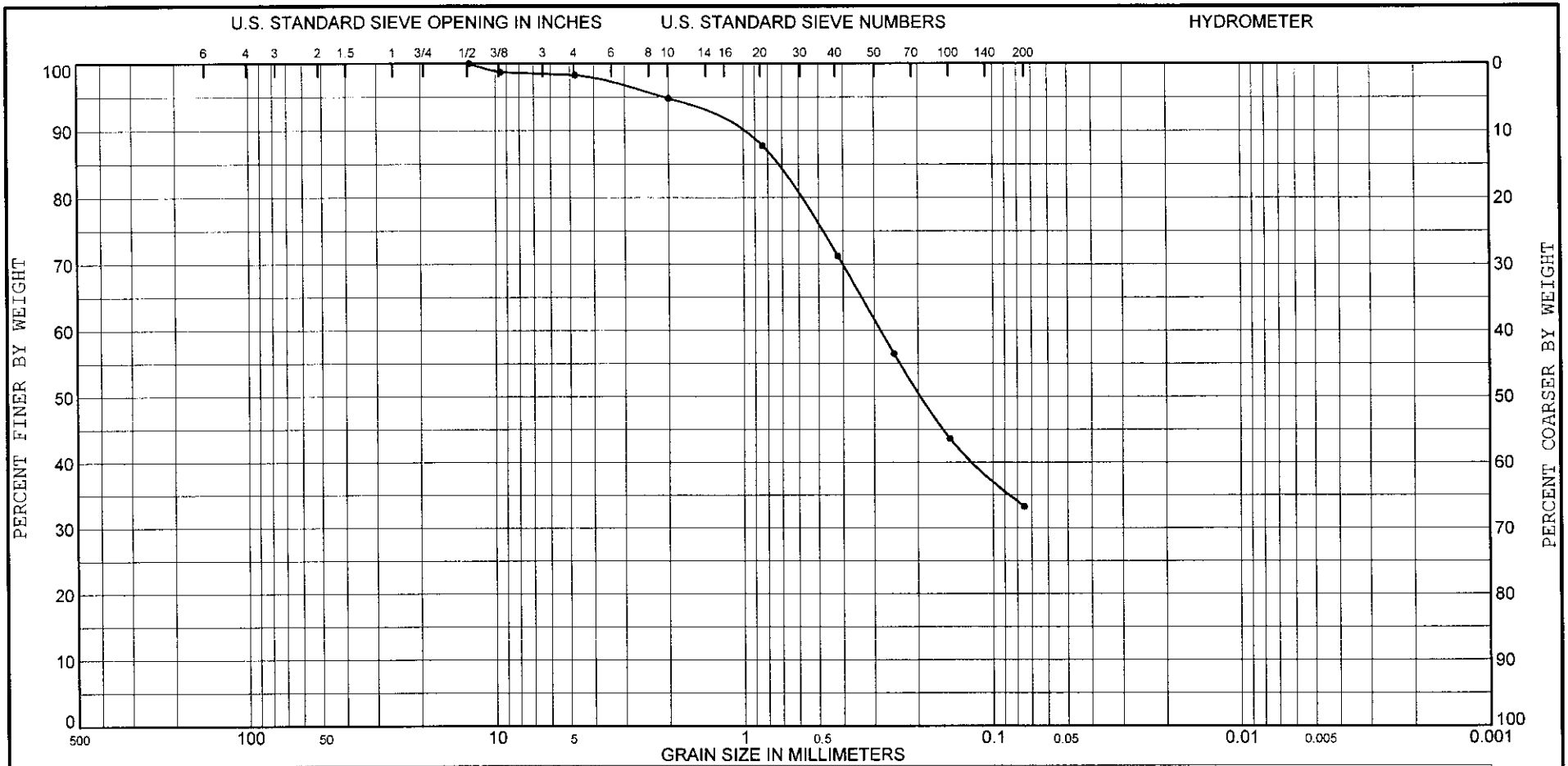
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
3	3.0 - 3.0	Reddish Brown, Micaceous Silty Sand (SM), with a trace of gravel.	29.9	49	41	8

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/171

Boring No. CLD609

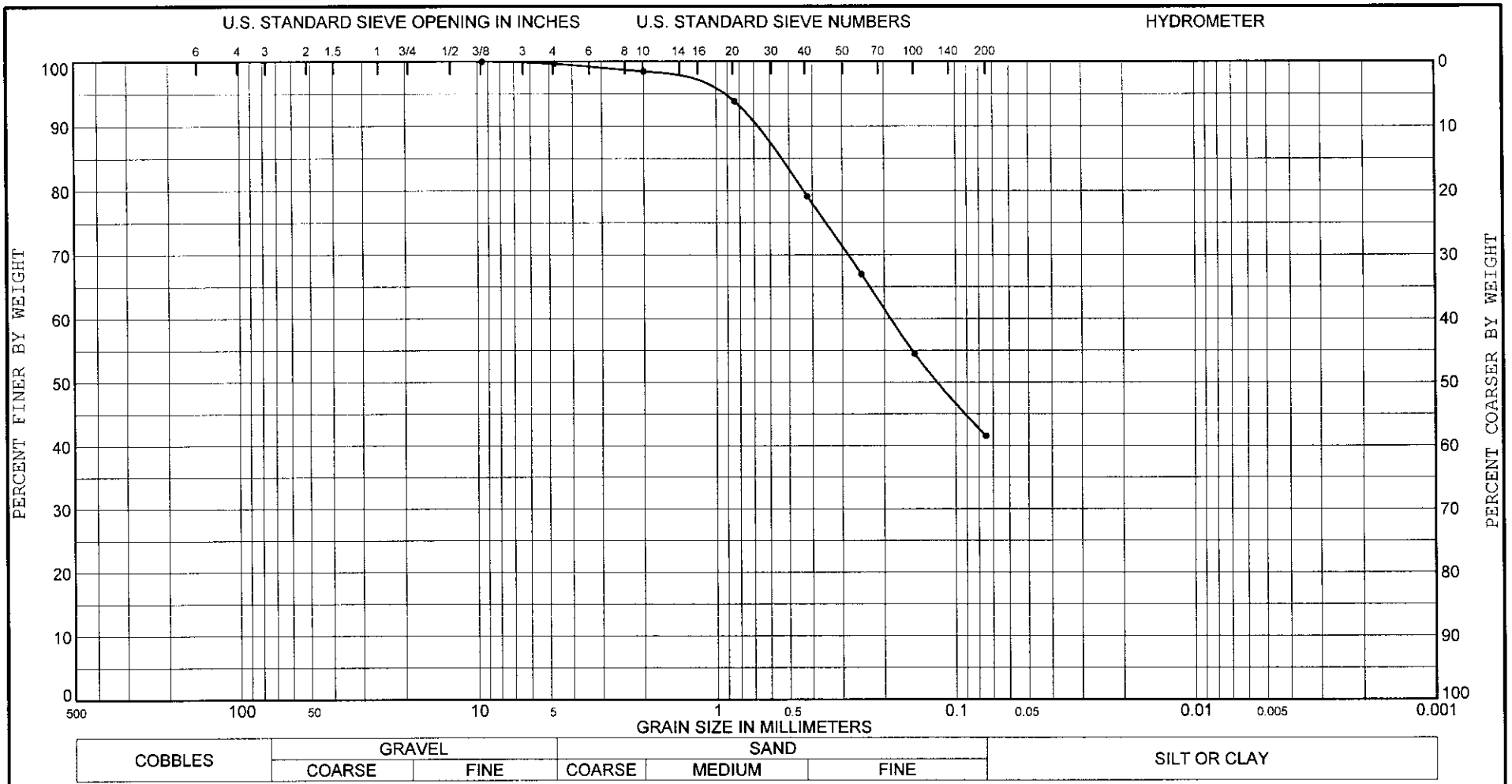
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
5	5.0 - 5.0	(Visual) Reddish Brown, Micaceous Silty Sand (SM).	30.4			

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/173

Boring No. CLD609

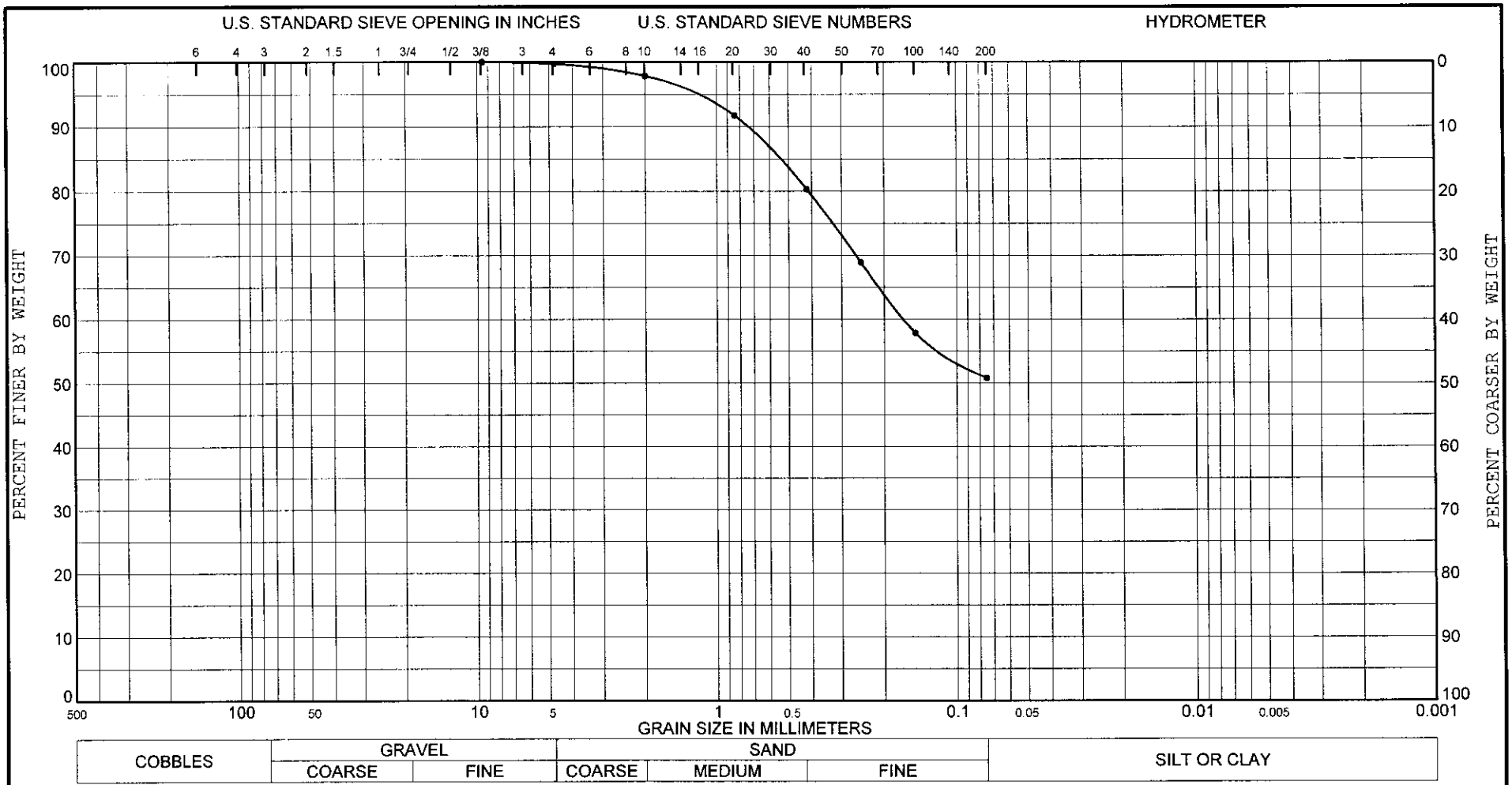
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
7	7.0 - 7.0	Red, Micaceous Sandy Inorganic Silt (MH), High Liquid Limit.	19.8	53	31	22

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/175

Boring No. CLD609

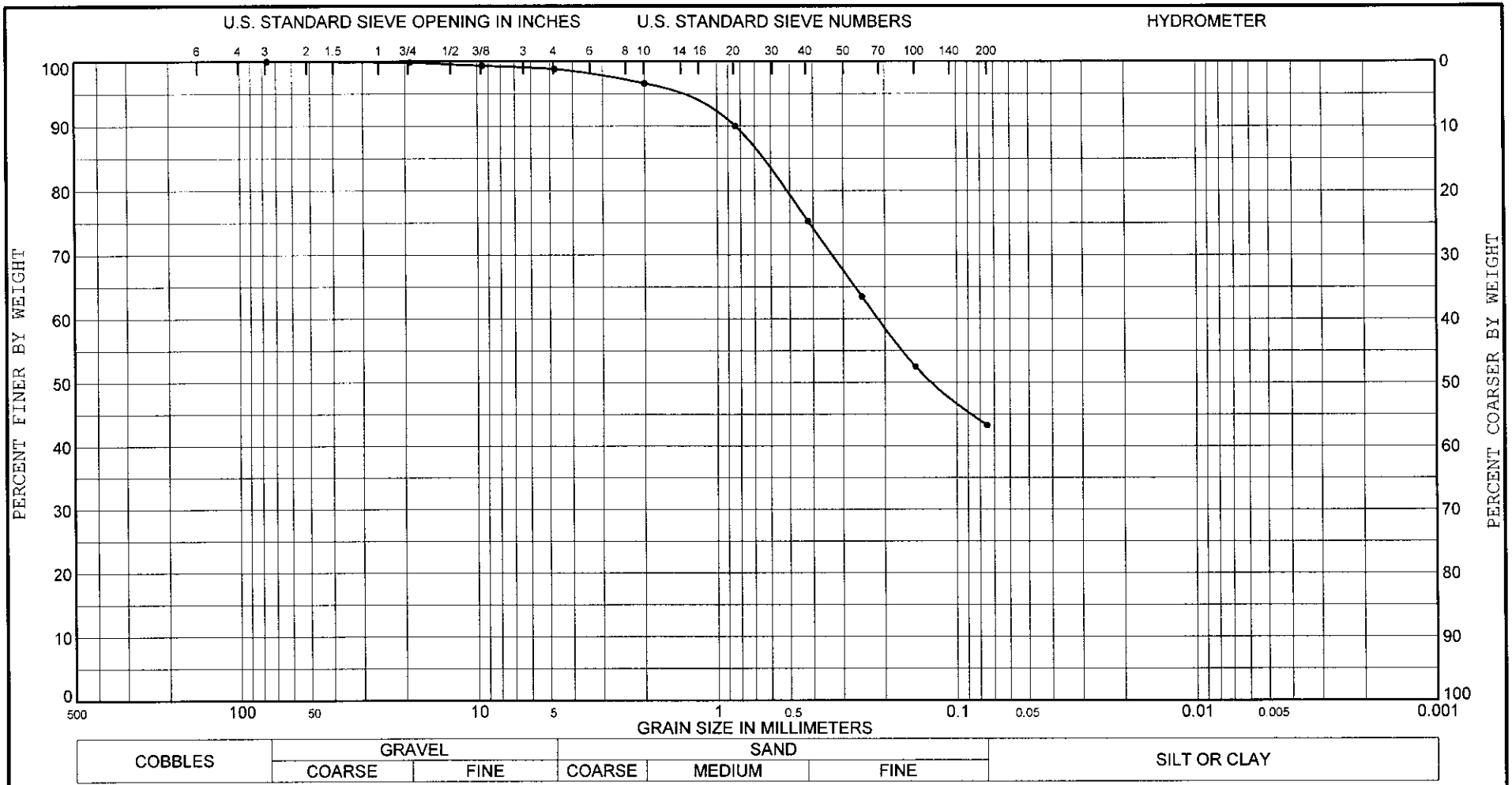
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
	0.0 - 10.0	Brown, Micaceous Silty Sand (SM), with a trace of gravel.	21.1	43	36	7
		Specific Gravity = 2.70.				

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/112

Boring No. CUD604

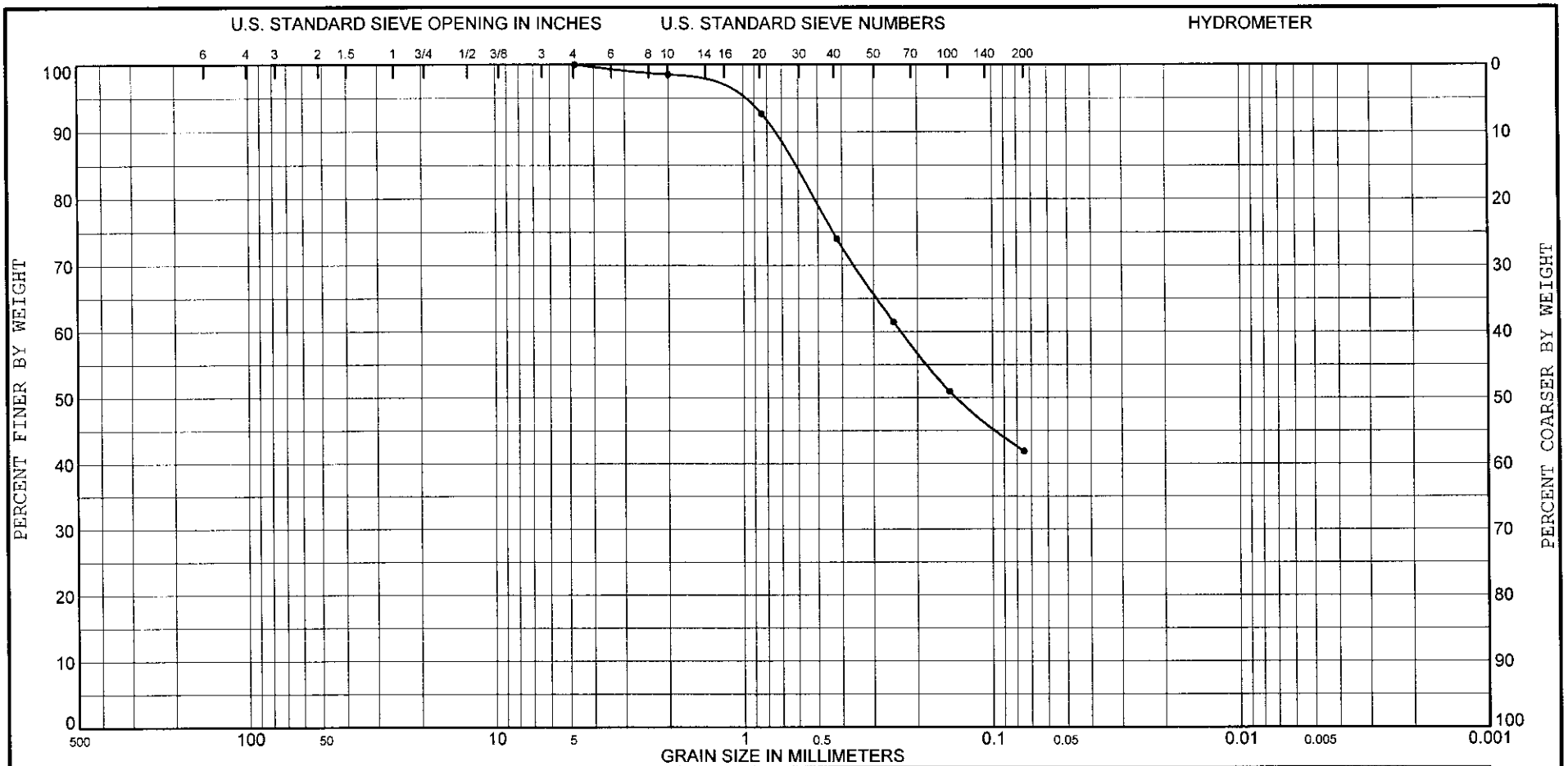
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
1	1.0 - 1.0	Red, Micaceous Silty Sand (SM-H), High Liquid Limit.	22.4	51	44	7

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/119

Boring No. CUD604

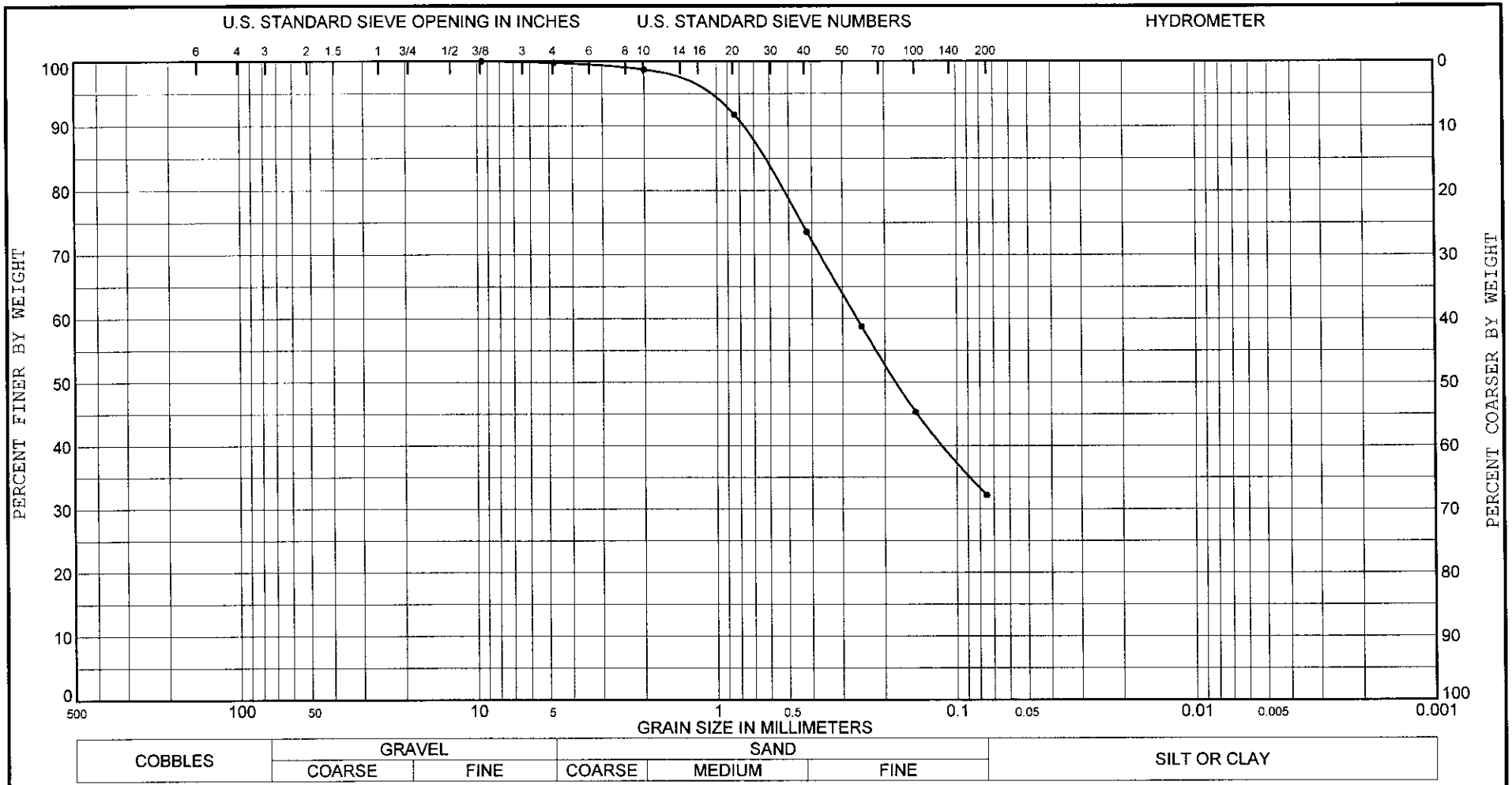
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
3	3.0 - 3.0	(Visual) Reddish Yellow, Micaceous Silty Sand (SM).	21.7			

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/121

Boring No. CUD604

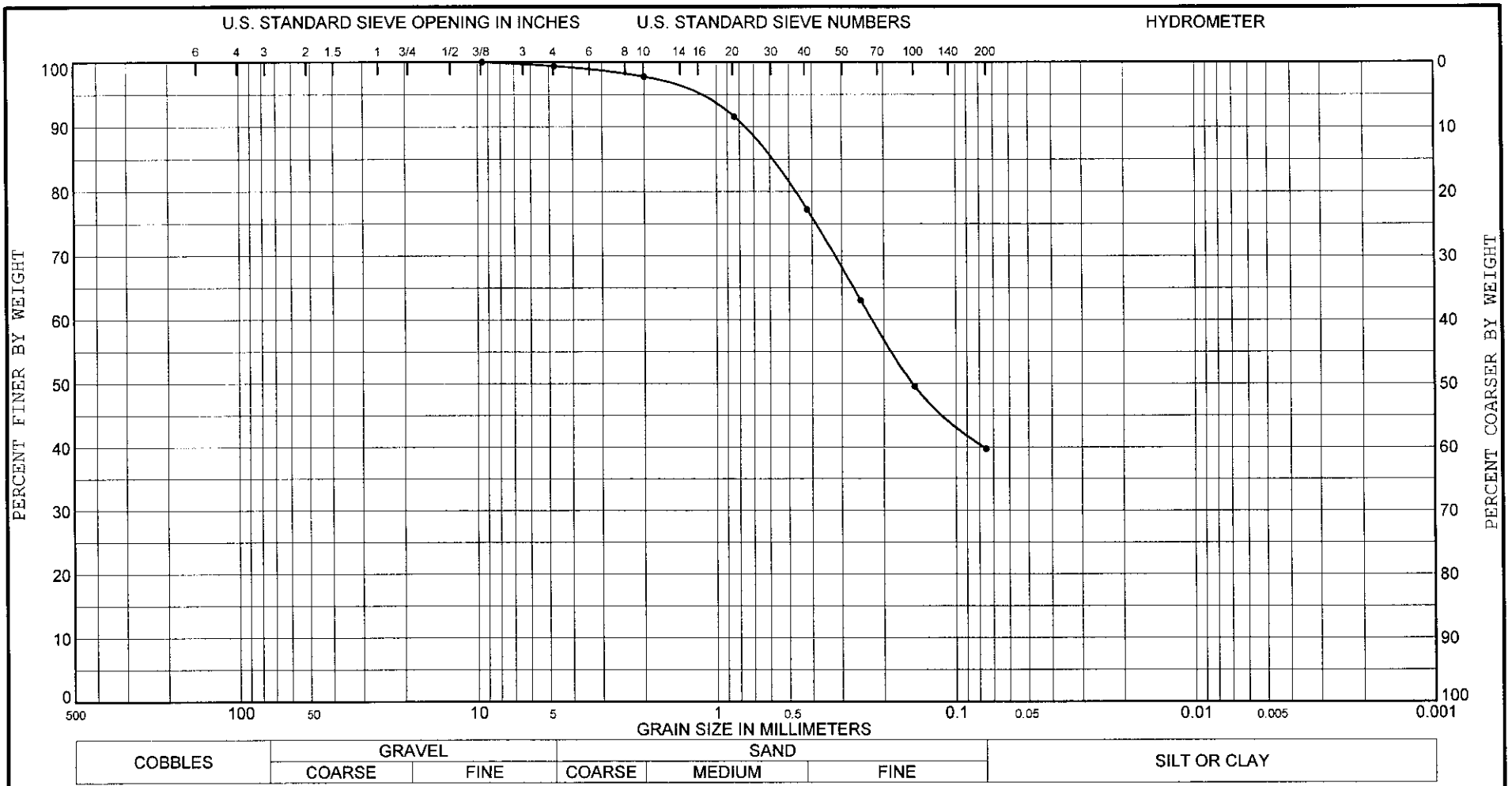
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
5	5.0 - 5.0	Yellowish Red, Micaceous Silty Sand (SM).	20.5	45	32	13

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/123

Boring No. CUD604

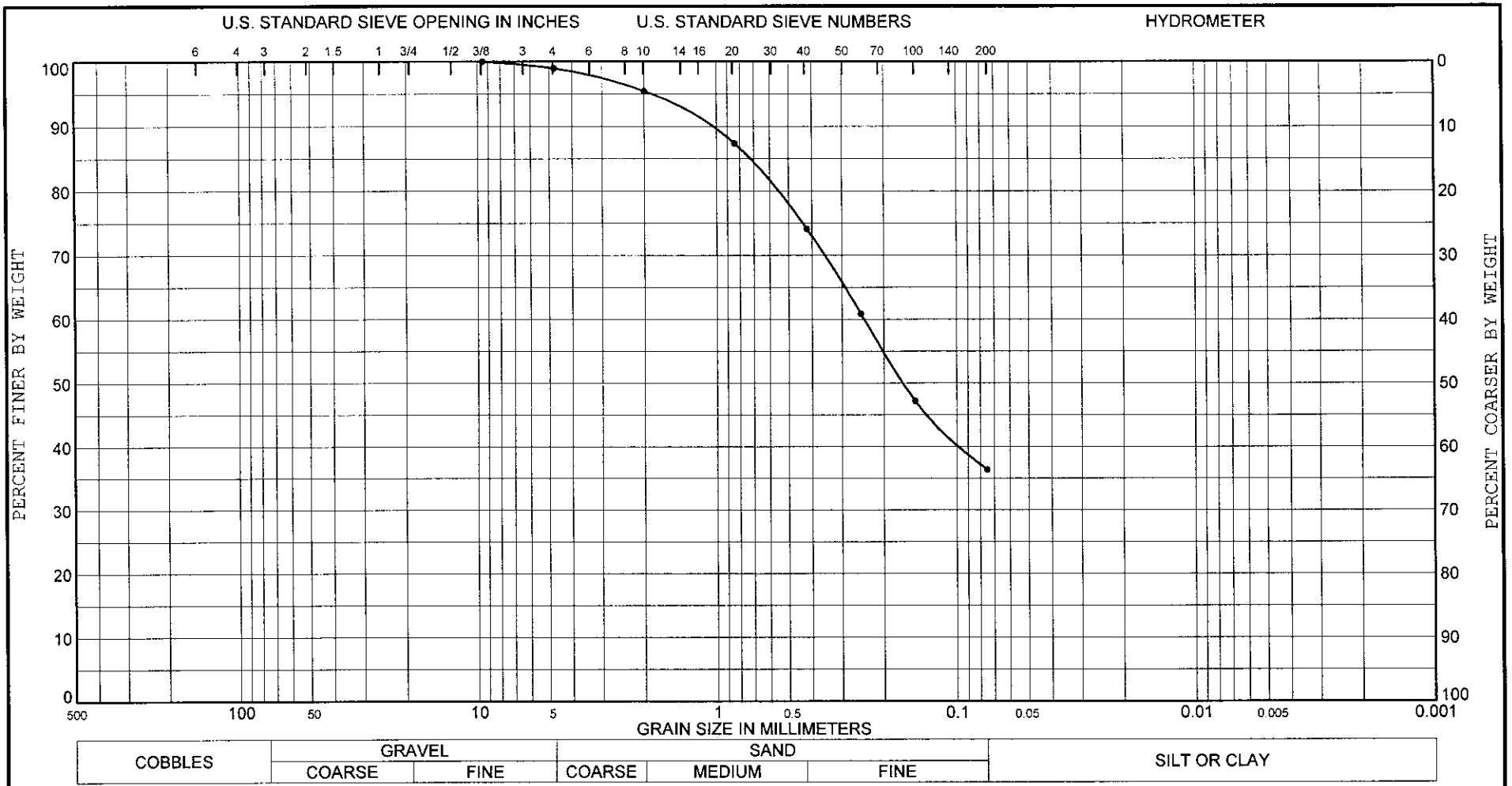
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
7	7.0 - 7.0	(Visual) Reddish Brown, Micaceous Silty Sand (SM).	21.3			

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/125

Boring No. CUD604

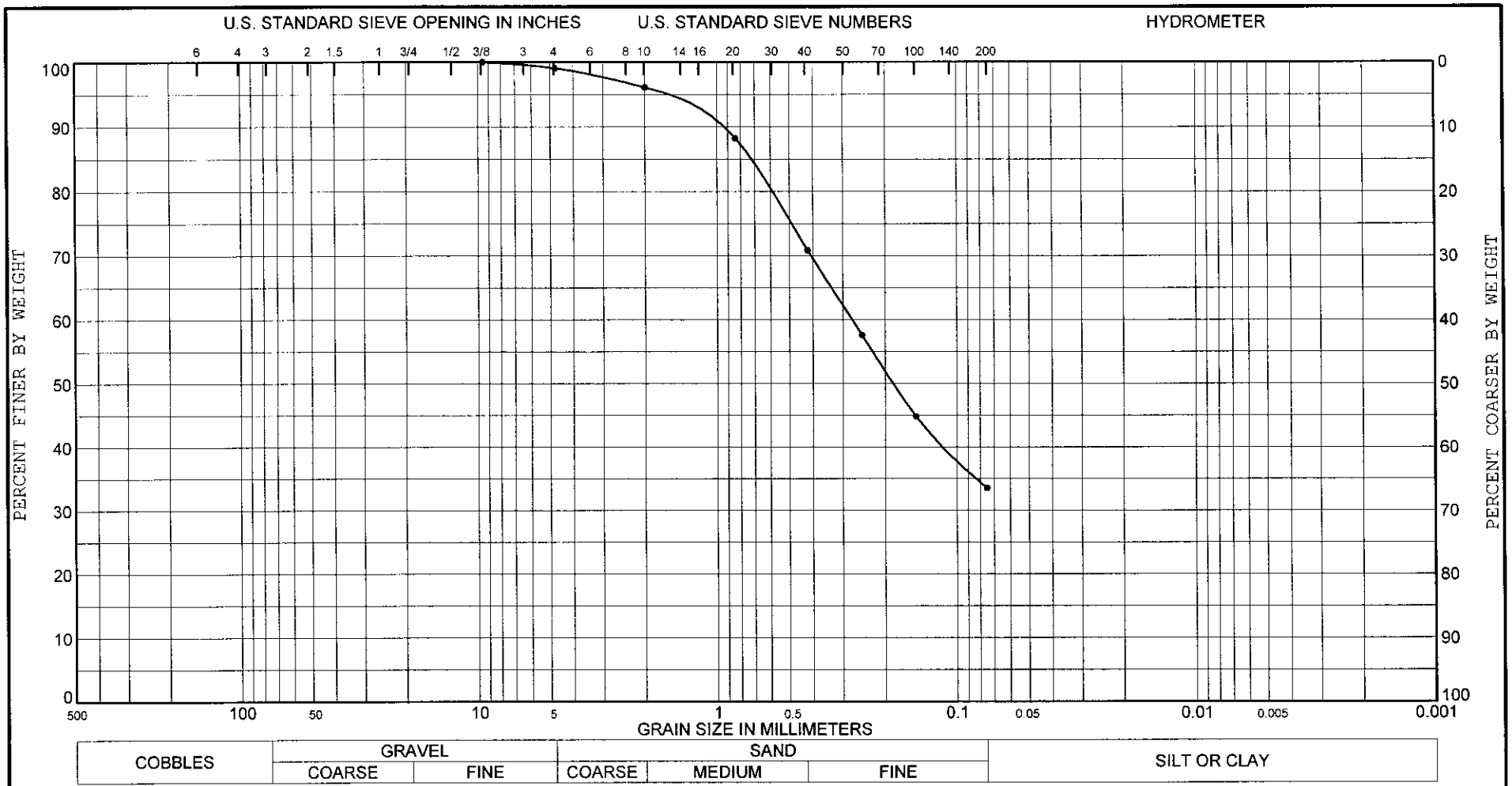
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
9	9.0 - 9.0	Yellowish Red, Micaceous Silty Sand (SM).	19.5	48	40	8

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/127

Boring No. CUD604

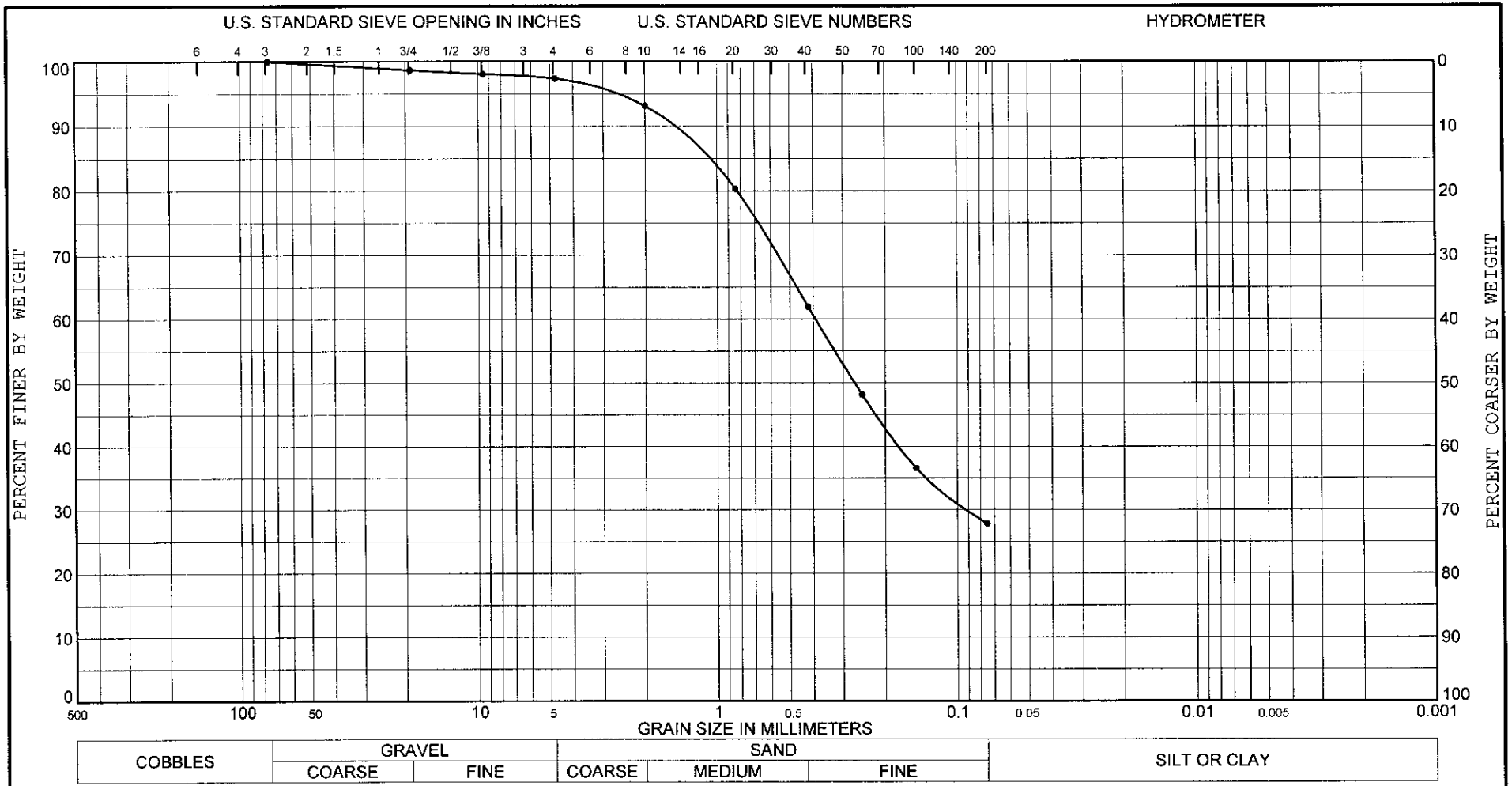
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
	0.0 - 10.0	Brown, Micaceous Silty Sand (SM-H), High Liquid Limit, with a trace of gravel.	19.4	53	46	7
		Specific Gravity = 2.704.				

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams.

Lab No. K6/113

Boring No. CUD606

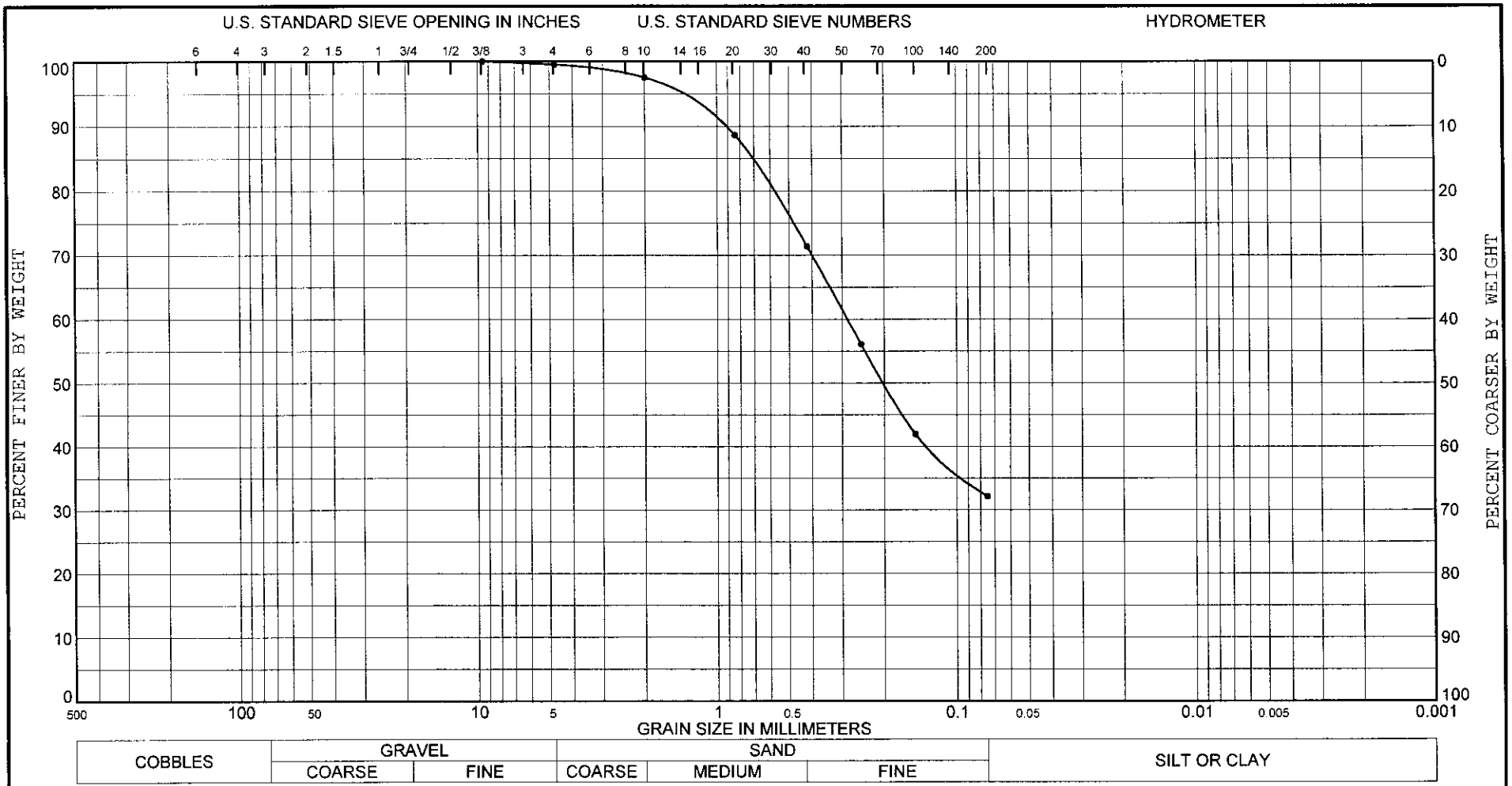
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
2	2.0 - 2.0	Brown, Micaceous Silty Sand (SM-H), High Liquid Limit.	22.2	56	49	7

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/130

Boring No. CUD606

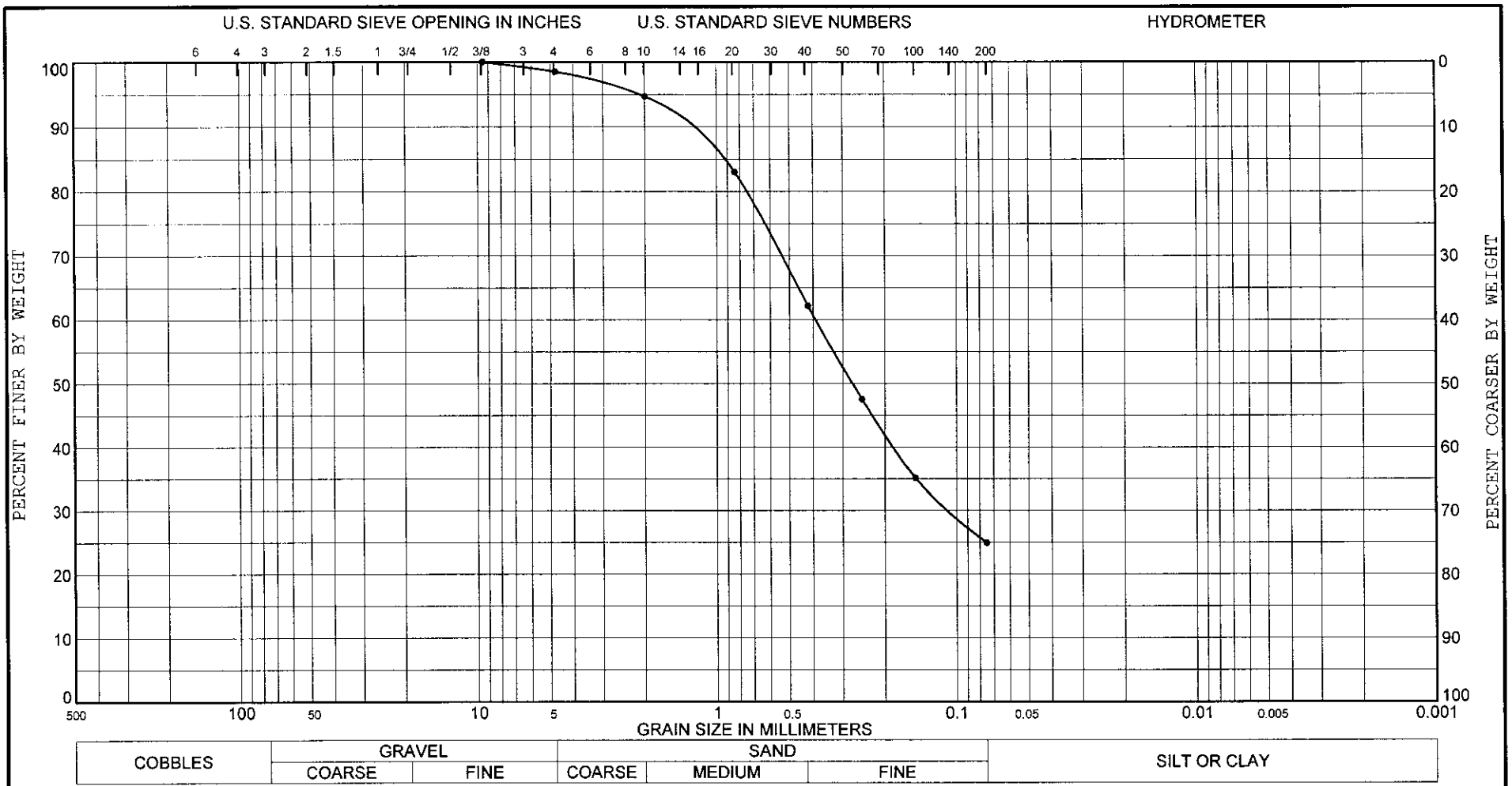
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
4	4.0 - 4.0	(Visual) Yellowish Red, Micaceous Silty Sand (SM), with a trace of gravel.	19.8			

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/132

Boring No. CUD606

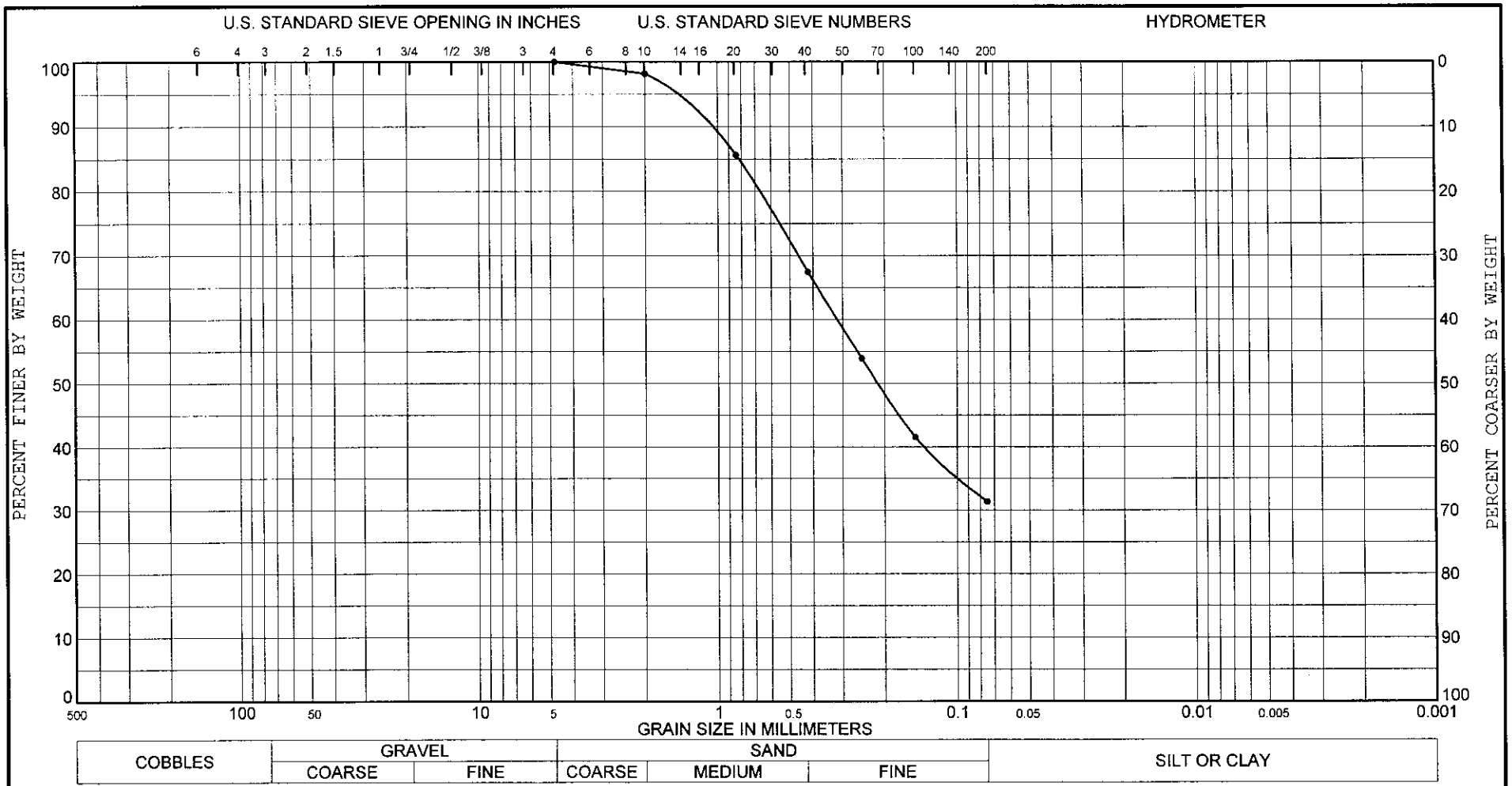
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
6	6.0 - 6.0	Reddish Yellow, Micaceous Silty Sand (SM).	17.4	45	43	2

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/134

Boring No. CUD606

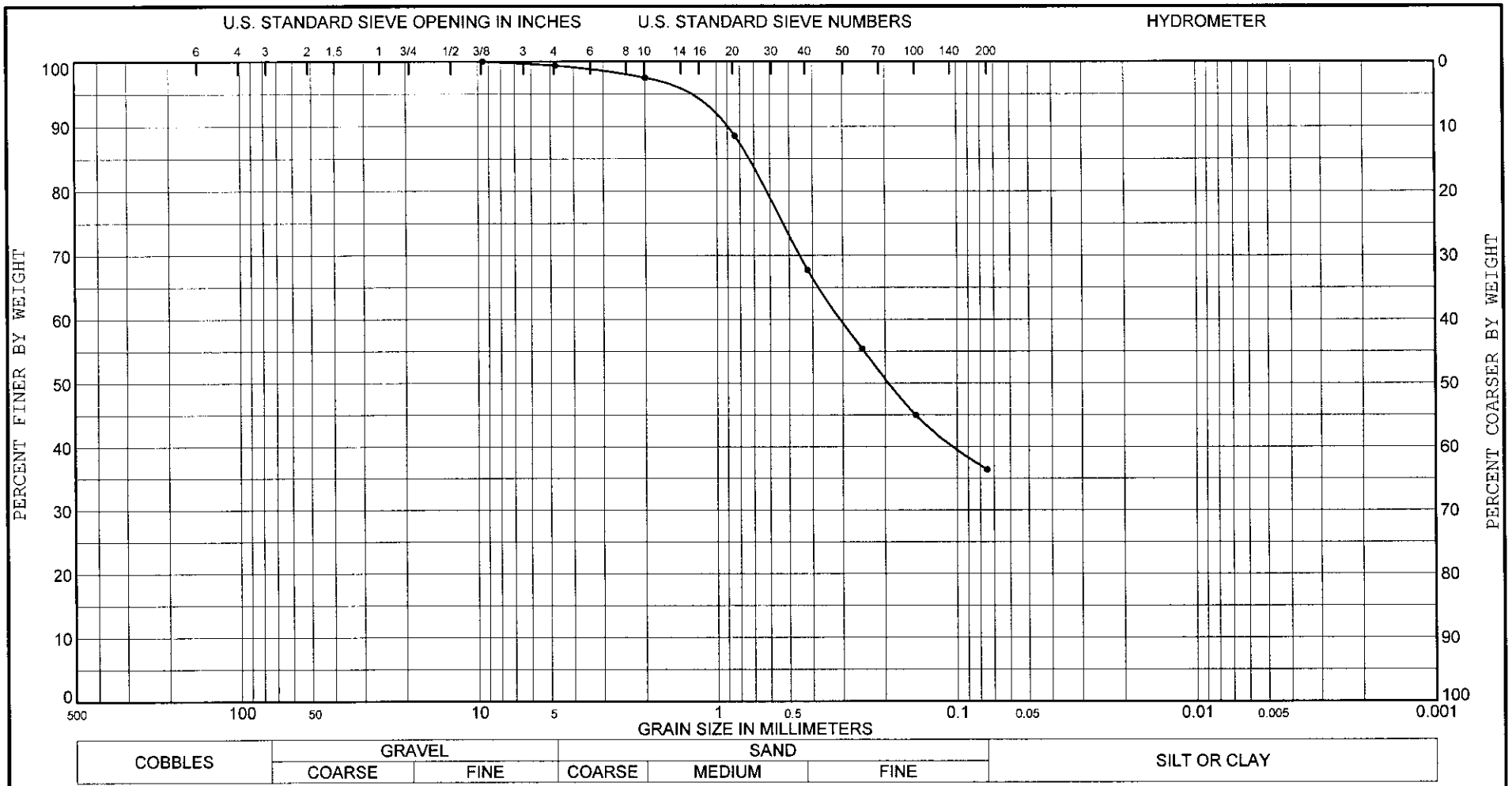
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
8	8.0 - 8.0	(Visual) Reddish Brown, Micaceous Silty Sand (SM).	18.6			

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/136

Boring No. CUD606

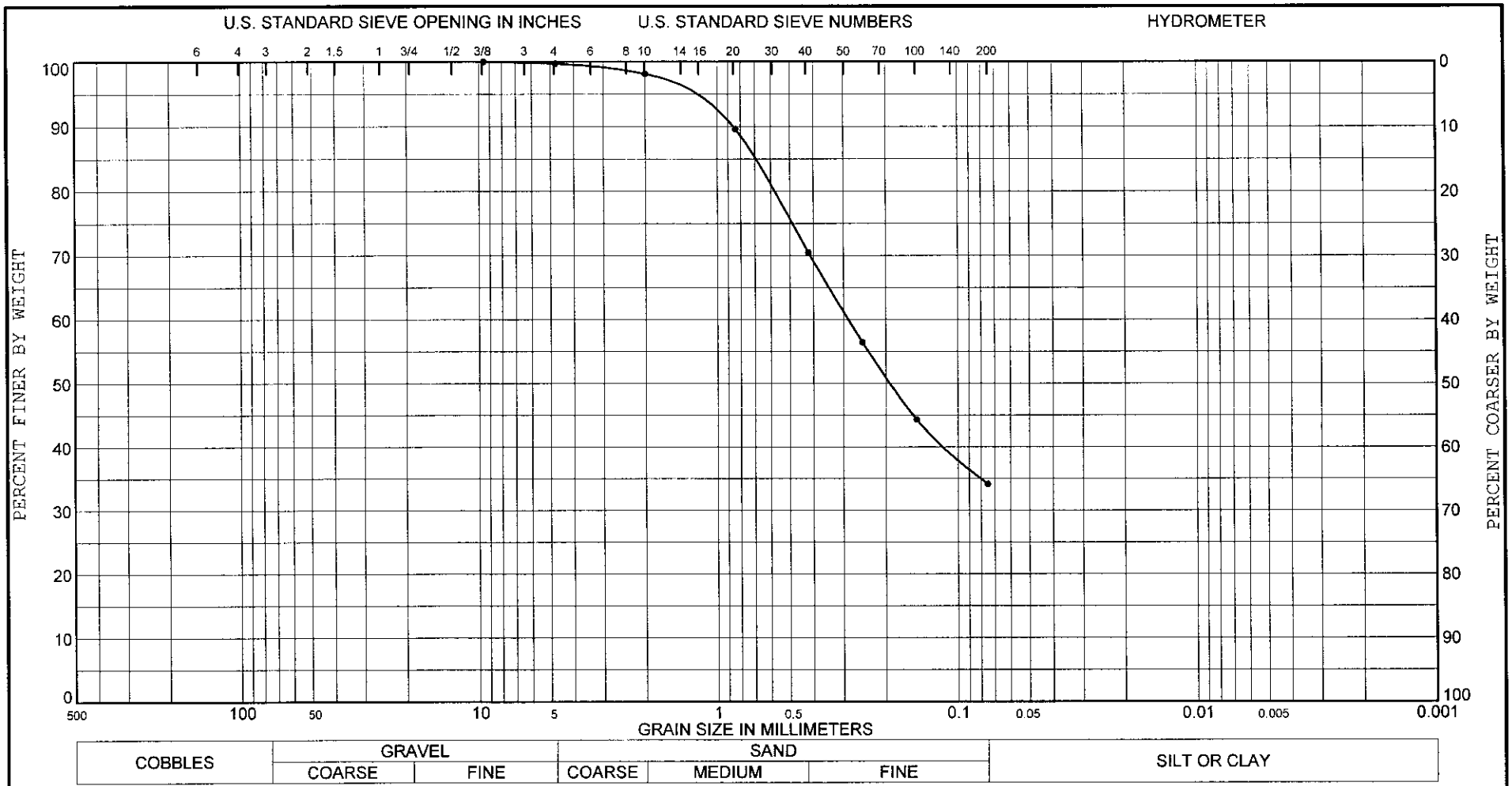
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
10	10.0 - 10.0	Yellowish Red, Micaceous Silty Sand (SM-H), High Liquid Limit.	19.1	52	43	9

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/138

Boring No. CUD606

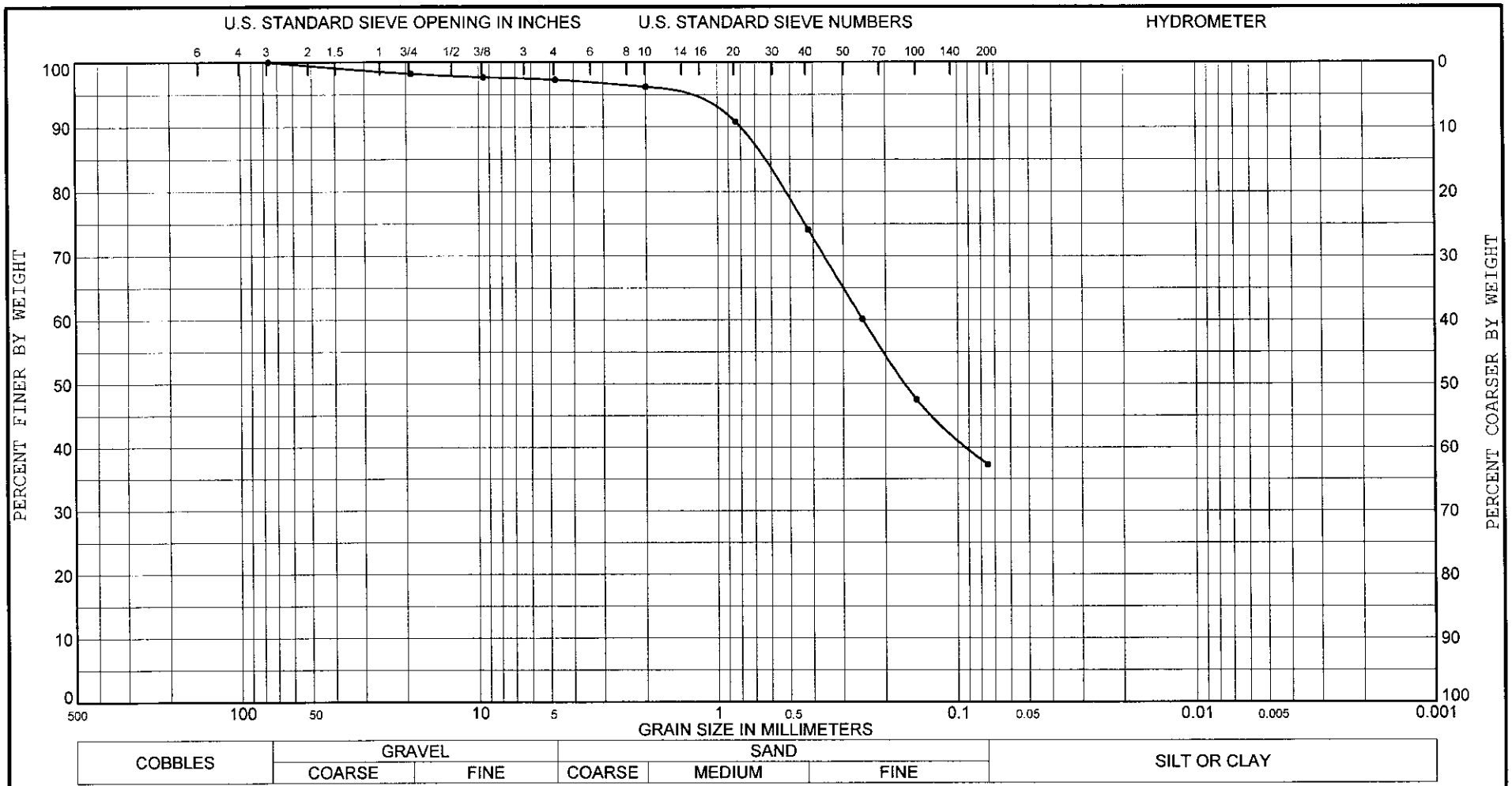
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
	0.0 - 10.0	Dark Brown, Micaceous Silty Sand (SM), with a trace of gravel.	21.1	45	35	10
		Specific Gravity = 2.70.				

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/114

Boring No. CUD608

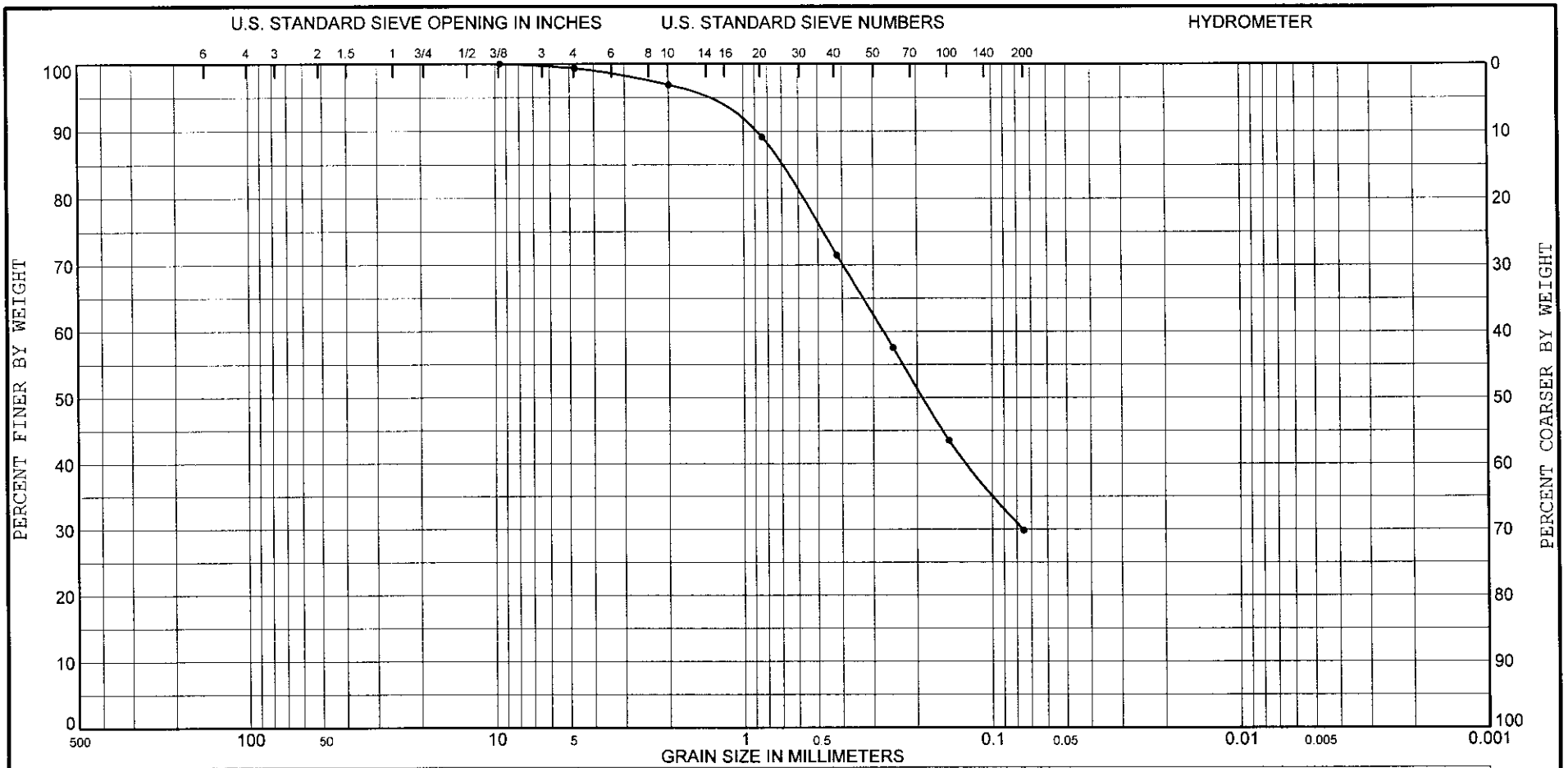
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
1	1.0 - 1.0	Reddish Brown, Micaceous Silty Sand (SM).	12.9	37	29	8

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/139

Boring No. CUD608

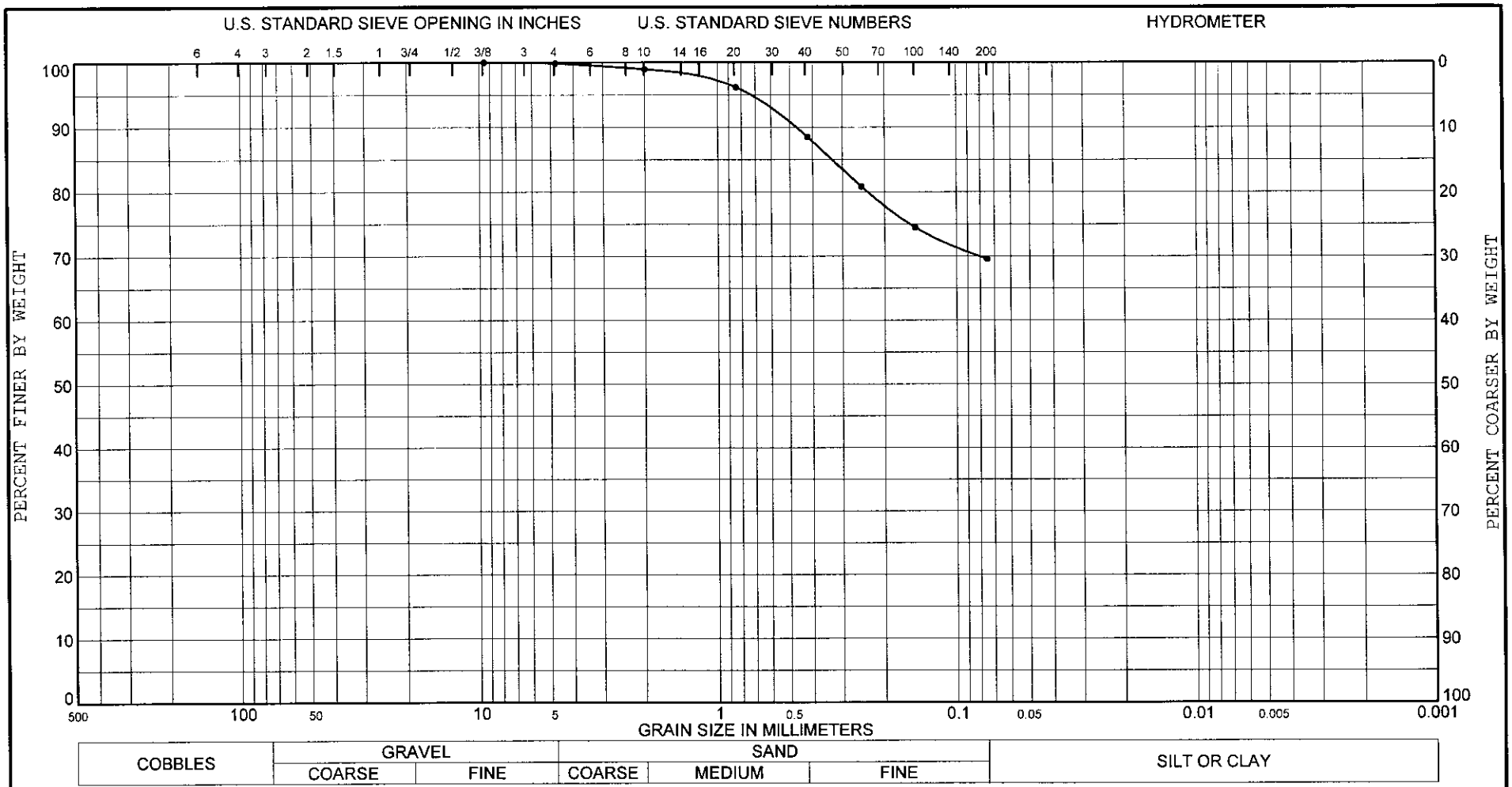
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
3	3.0 - 3.0	Red, Micaceous Fat Clay (CH), with some sand.	27.4	77	32	45

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/141

Boring No. CUD608

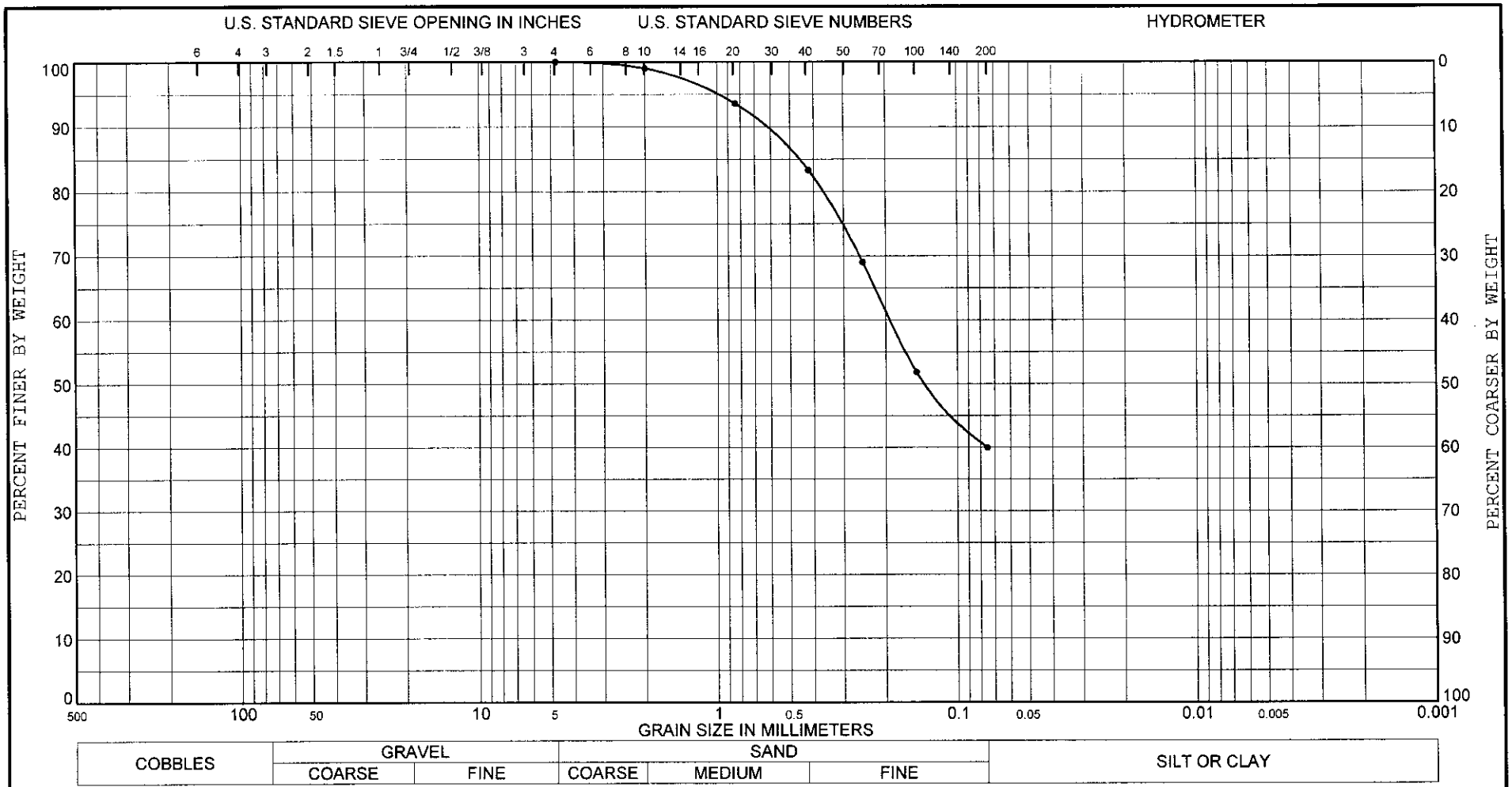
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
5	5.0 - 5.0	Light Brown, Micaceous Silty Sand (SM).	20.7	41	37	4

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/143

Boring No. CUD608

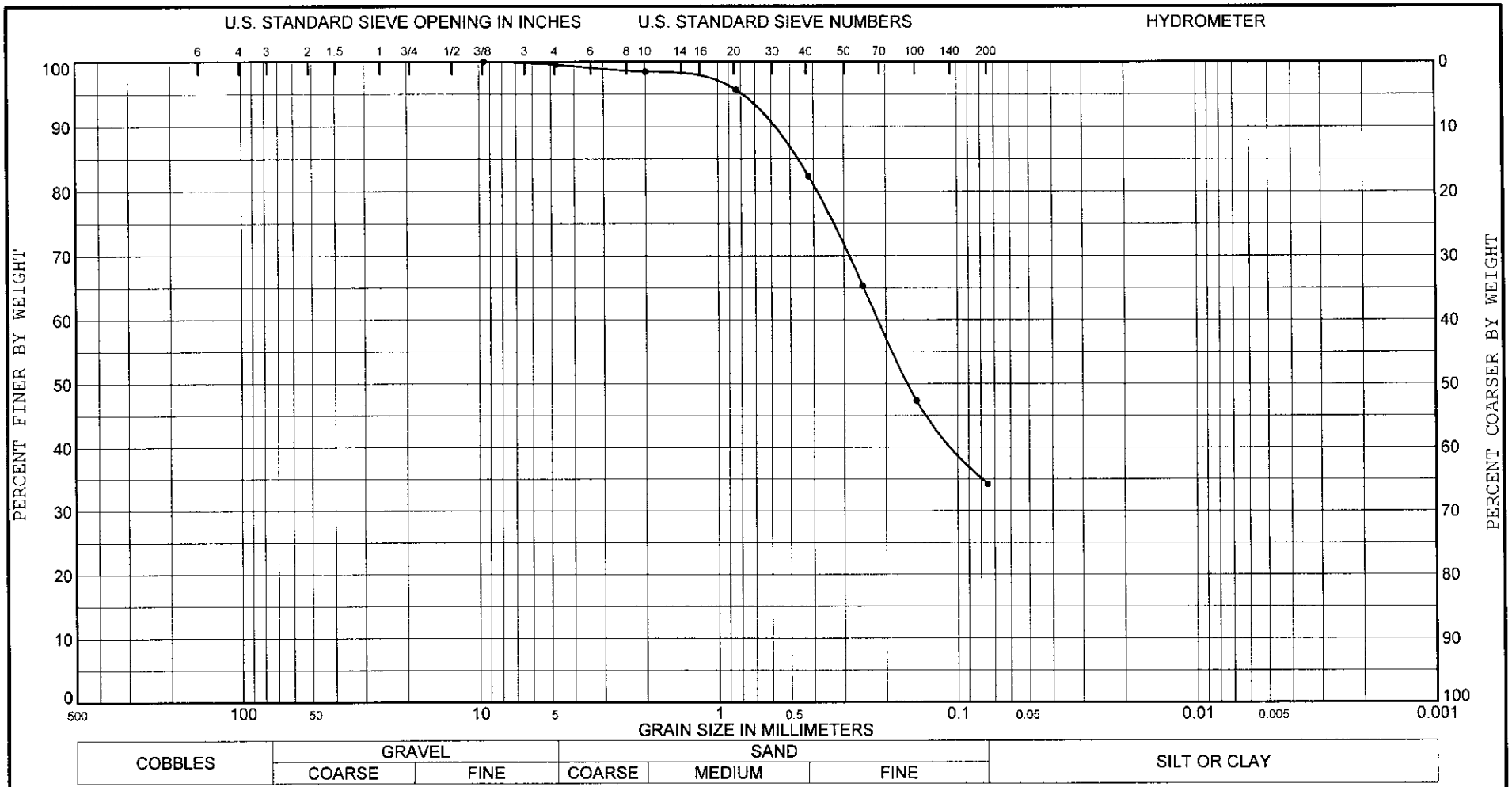
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
7	7.0 - 7.0	(Visual) Brown, Micaceous Silty Sand (SM).	23.4			

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/145

Boring No. CUD608

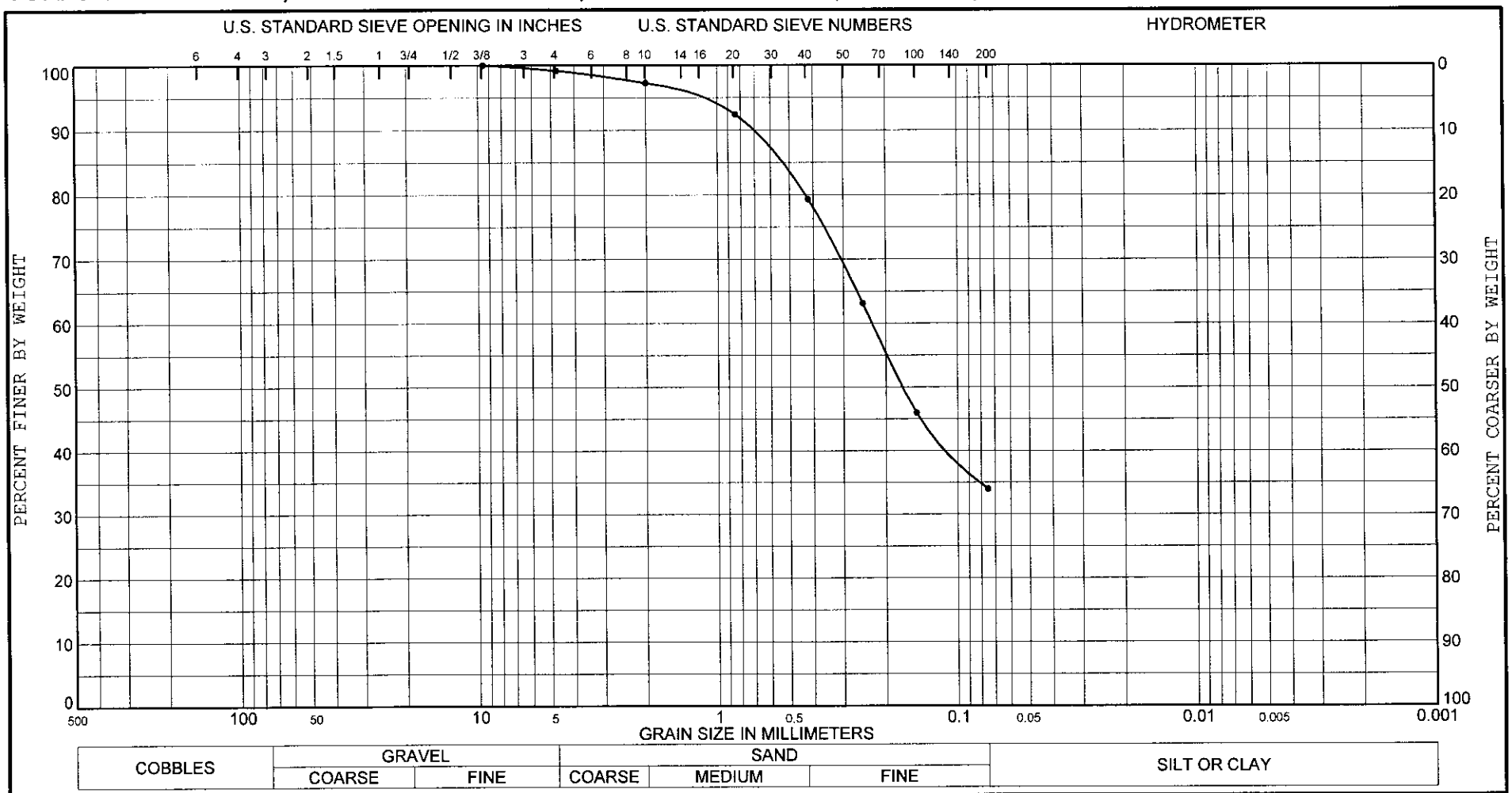
Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES

DEPARTMENT OF THE ARMY, SAVANNAH DISTRICT, ENVIRONMENTAL & MATERIALS UNIT
CORPS OF ENGINEERS, 200 N. COBB PARKWAY, BLDG 400 SUITE 404, MARIETTA, GA 30062

WORK ORDER: 258e
REQUISITION: W33SJG23168595



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Sample No.	Depth (ft)	Classification	Nat w%	LL	PL	PI
9	9.0 - 9.0	Brown, Micaceous Silty Sand (SM-H), High Liquid Limit.	21.2	55	51	4

Project Clemson Dam, South Carolina

Remediation of Clemson Diversion Dams,

Lab No. K6/147

Boring No. CUD608

Date 12/26/02

Tests Conducted in General Accordance with ASTM's D422, D4318, D854, & D2487.

GRADATION CURVES