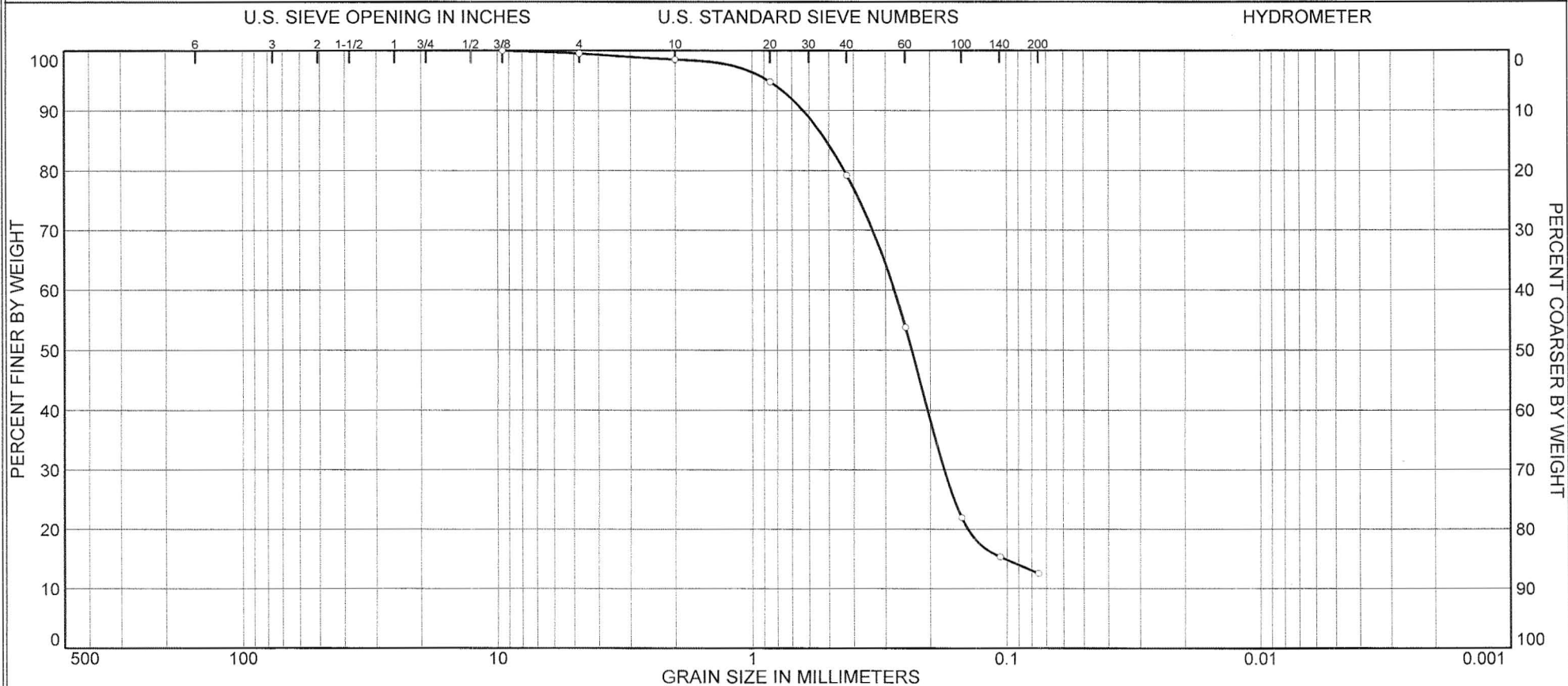


Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.5	1.0	19.3	66.7	12.5	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G8	G8-3	228.85'	N/A		Red Silty sand	8.4		

Client GPC c/o SNOC	MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: SW/MD Reviewed by: MC
Project Vogtle Units 3 & 4 Test Pad Project		
Project No. 6141-06-0286.54		

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOC
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G8
Sample No.: G8-3
Elev. or Depth: 228.85' **Sample Length(in./cm.):** N/A
Location: G8-3
Description: Red Silty sand
Date: N/A **Natural Moisture:** 8.4
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: SW/MD Reviewed by: MC

Mechanical Analysis Data

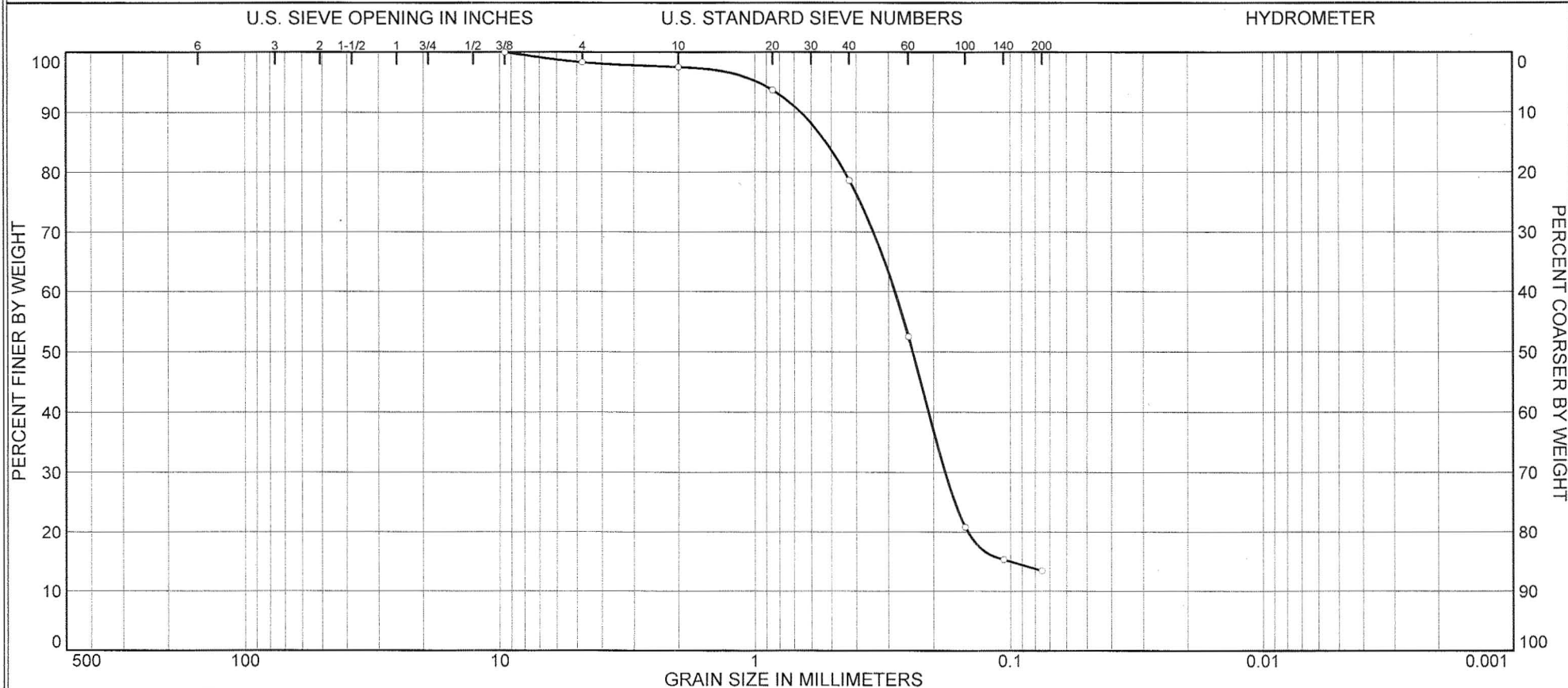
	Initial	
Dry sample and tare=	206.44	
Tare =	70.72	
Dry sample weight =	135.72	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.70	99.5
# 10	2.08	98.5
# 20	7.04	94.8
# 40	28.25	79.2
# 60	62.77	53.8
# 100	105.98	21.9
# 140	115.00	15.3
# 200	118.78	12.5

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 0.5 (% coarse = % fine = 0.5)
% SAND = 87.0 (% coarse = 1.0 % medium = 19.3 % fine = 66.7)
% FINES = 12.5

D85= 0.51 D60= 0.28 D50= 0.24
D30= 0.18 D15= 0.10

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	1.7	0.8	18.9	65.2	13.4	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G8	G8-4	228.78'	N/A		Red Silty sand	9.0		

Client GPC c/o SNOG	MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: SW/MD Reviewed by: MC
Project Vogtle Units 3 & 4 Test Pad Project		
Project No. 6141-06-0286.54		

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOC
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G8
Sample No.: G8-4
Elev. or Depth: 228.78' **Sample Length(in./cm.):** N/A
Location: G8-4
Description: Red Silty sand
Date: N/A **Natural Moisture:** 9.0
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by:SW/MD Reviewed by: MC

Mechanical Analysis Data

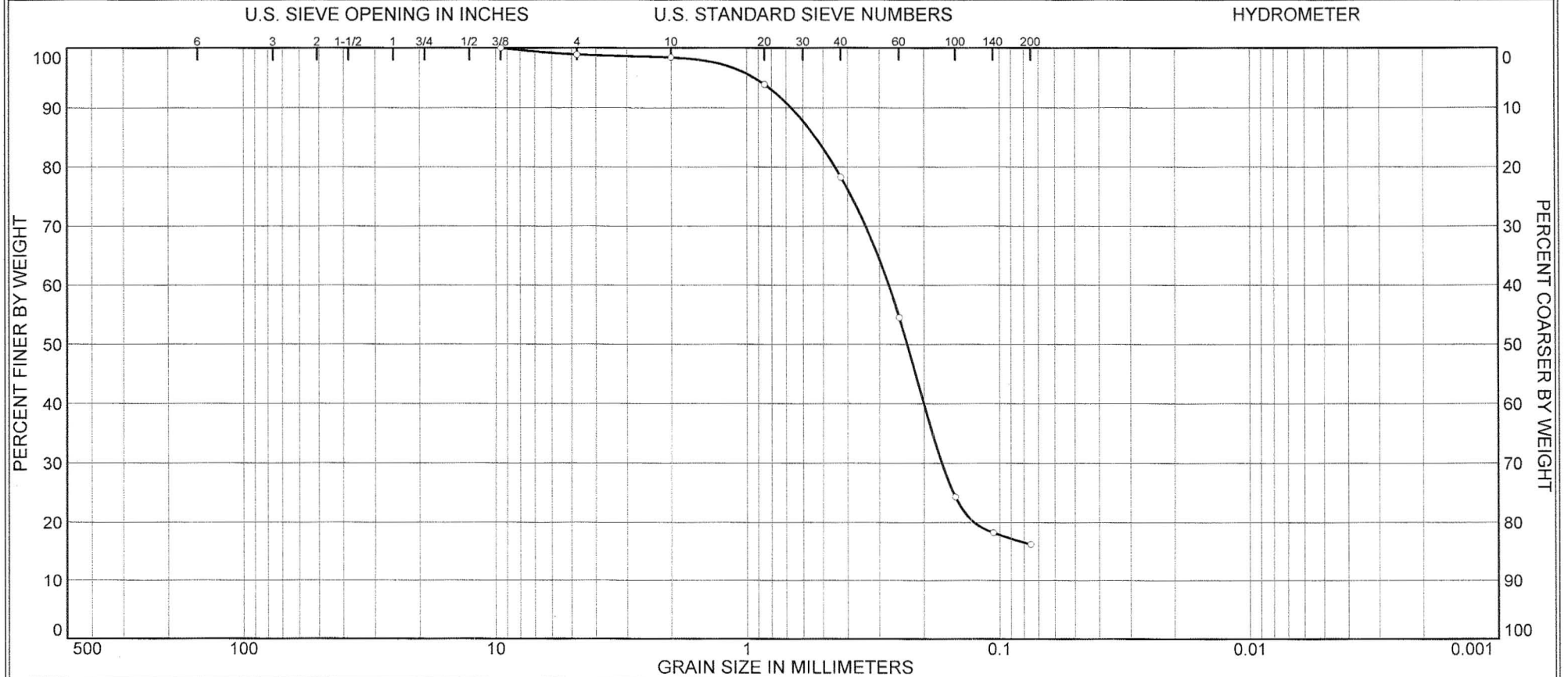
Sieve	Cumul. Wt. retained	Percent finer
Initial		
Dry sample and tare=	200.86	
Tare =	64.33	
Dry sample weight =	136.53	
Tare for cumulative weight retained= .00		
.375 inch	0.00	100.0
# 4	2.30	98.3
# 10	3.48	97.5
# 20	8.58	93.7
# 40	29.17	78.6
# 60	64.90	52.5
# 100	108.15	20.8
# 140	115.64	15.3
# 200	118.27	13.4

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 1.7 (% coarse = % fine = 1.7)
% SAND = 84.9 (% coarse = 0.8 % medium = 18.9 % fine = 65.2)
% FINES = 13.4

D85= 0.52 D60= 0.28 D50= 0.24
D30= 0.18 D15= 0.10

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	1.1	0.5	20.1	62.1	16.2	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G9-1	G9-1	229.63'	N/A	SM	Red Silty sand	6.6	NV	NP

Client GPC c/o SNOG

Project Vogtle Units 3 & 4 Test Pad Project

Project No. 6141-06-0286.54

8115

**MACTEC ENGINEERING
AND
CONSULTING, INC.**

Tested by: EH Reviewed by: HJ

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOC
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G9-1
Sample No.: G9-1
Elev. or Depth: 229.63' **Sample Length(in./cm.):** 8115
Location: G9-1
Description: Red Silty sand
Date: N/A **Natural Moisture:** 6.6
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: EH Reviewed by: HJ

Mechanical Analysis Data

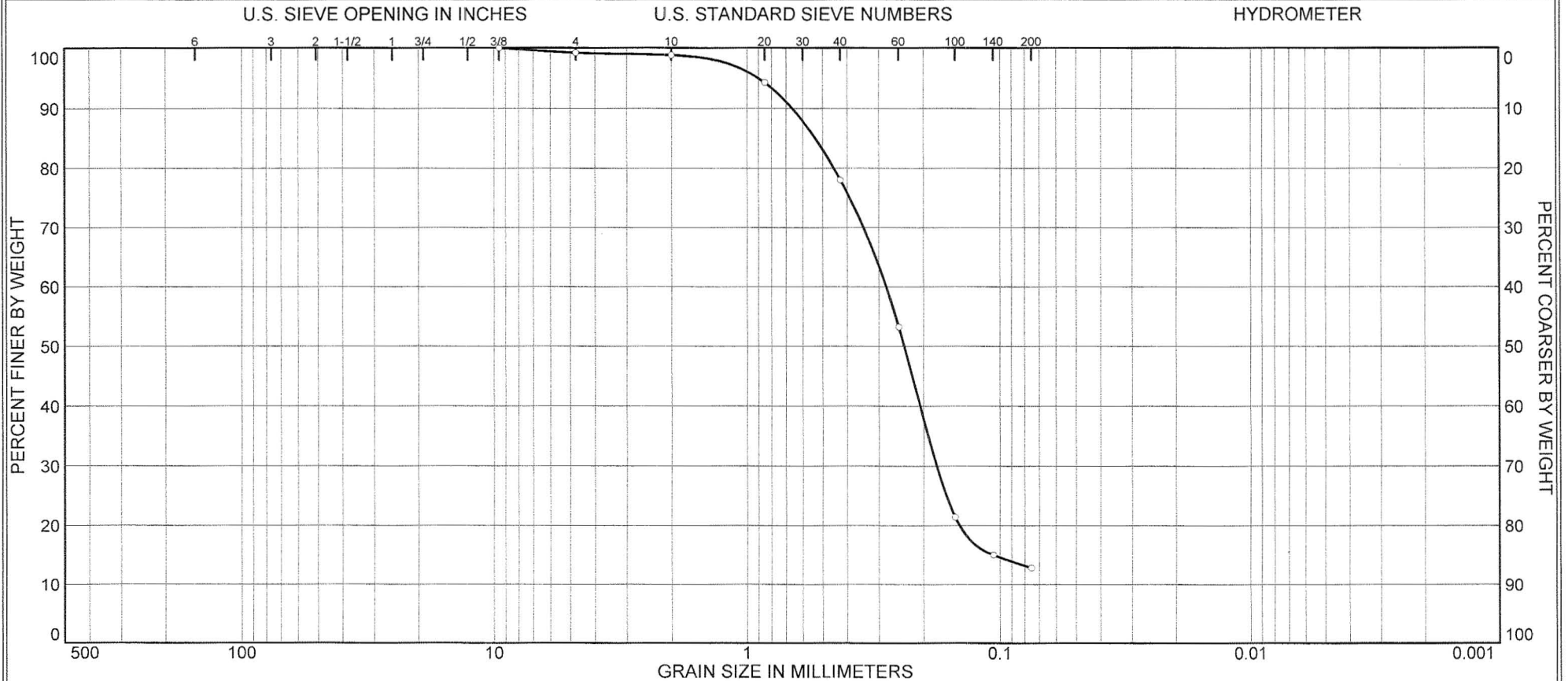
	Initial	
Dry sample and tare=	98.27	
Tare =	16.46	
Dry sample weight =	81.81	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.93	98.9
# 10	1.29	98.4
# 20	4.96	93.9
# 40	17.75	78.3
# 60	37.24	54.5
# 100	61.95	24.3
# 140	66.95	18.2
# 200	68.55	16.2

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 1.1 (% coarse = % fine = 1.1)
% SAND = 82.7 (% coarse = 0.5 % medium = 20.1 % fine = 62.1)
% FINES = 16.2

D85= 0.53 D60= 0.28 D50= 0.23
D30= 0.17

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.8	0.4	20.8	65.2	12.8	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G9-2	G9-2	229.57'	N/A		Red Silty sand	7.2		

Client GPC c/o SNOG		MACTEC ENGINEERING AND CONSULTING, INC.	○ Tested by: EH Reviewed by: HJ
Project Vogtle Units 3 & 4 Test Pad Project			
Project No. 6141-06-0286.54	8116		

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOC
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G9-2
Sample No.: G9-2
Elev. or Depth: 229.57' **Sample Length(in./cm.):** 8116
Location: G9-2
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.2
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: EH Reviewed by: HJ

Mechanical Analysis Data

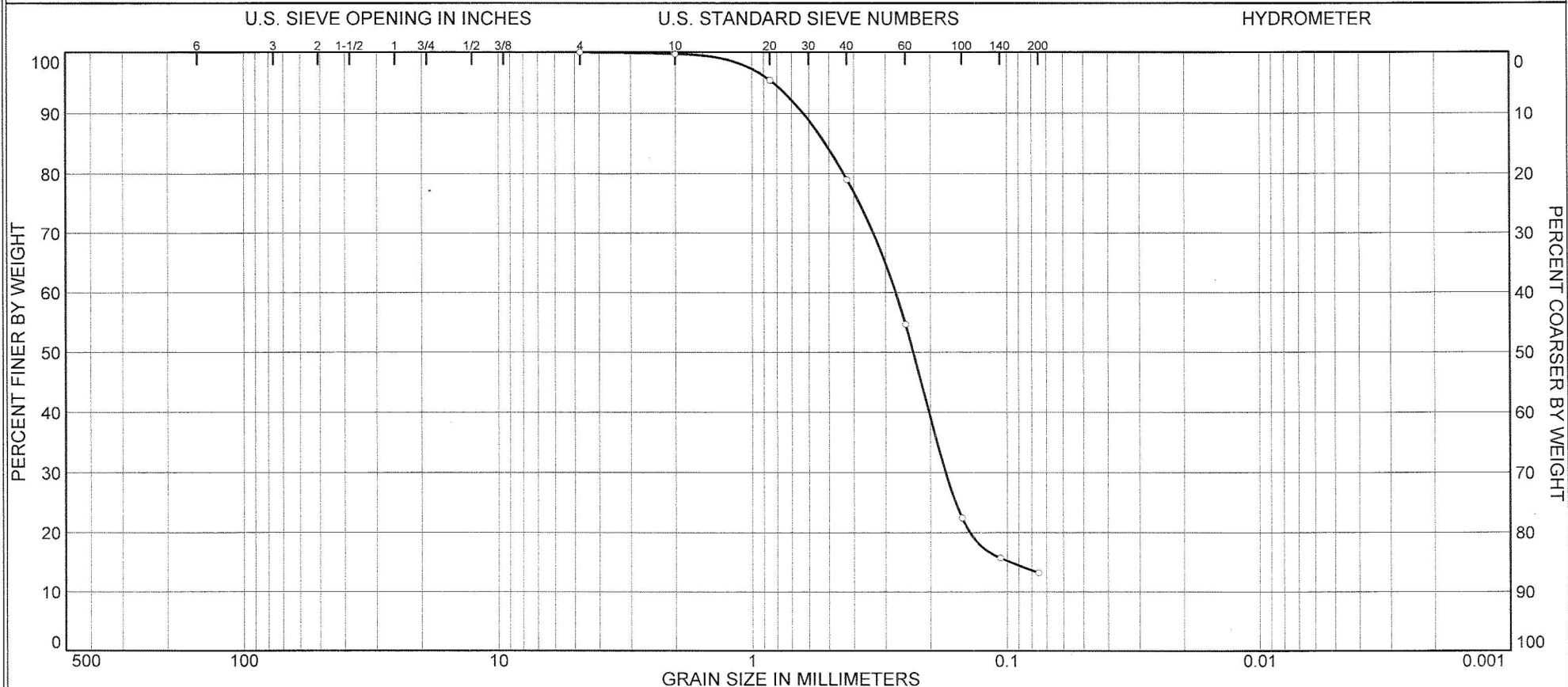
	Initial	
Dry sample and tare=	213.71	
Tare =	109.66	
Dry sample weight =	104.05	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.79	99.2
# 10	1.20	98.8
# 20	5.94	94.3
# 40	22.90	78.0
# 60	48.74	53.2
# 100	81.83	21.4
# 140	88.48	15.0
# 200	90.73	12.8

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL = 0.8** (**% coarse =** **% fine = 0.8**)
% SAND = 86.4 (**% coarse = 0.4** **% medium = 20.8** **% fine = 65.2**)
% FINES = 12.8

D85= 0.53 **D60= 0.28** **D50= 0.24**
D30= 0.18 **D15= 0.11**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.3	20.7	65.8	13.2	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G9-3	G9-3	229.82'	N/A	SM	Red Silty sand	7.0	NV	NP

Client GPC c/o SNOG

Project Vogtle Units 3 & 4 Test Pad Project

Project No. 6141-06-0286.54

8117

**MACTEC ENGINEERING
AND
CONSULTING, INC.**

Tested by: EH Reviewed by: HJ

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOC
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G9-3
Sample No.: G9-3
Elev. or Depth: 229.82' **Sample Length(in./cm.):** 8117
Location: G9-3
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.0
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: EH Reviewed by: HJ

Mechanical Analysis Data

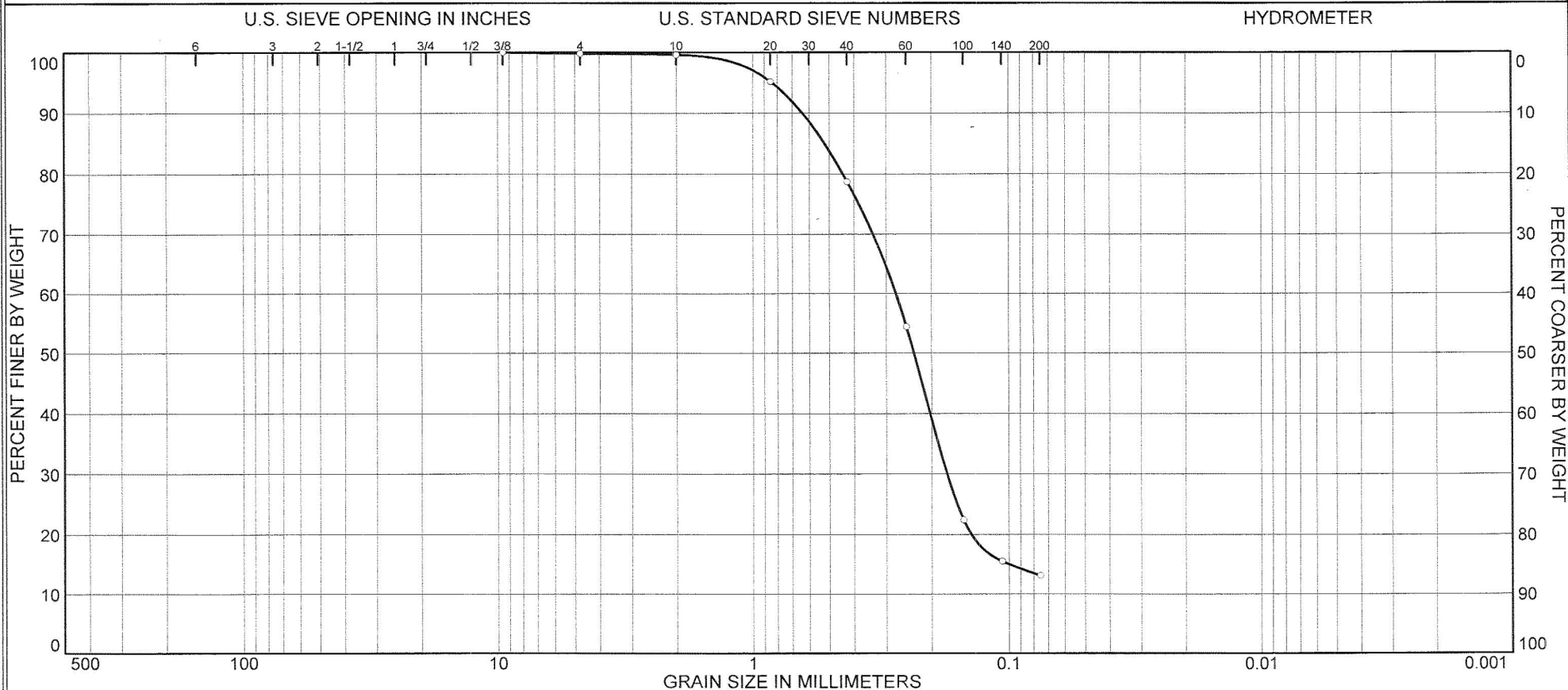
Sieve	Cumul. Wt. retained	Percent finer
Initial		
Dry sample and tare=	217.94	
Tare =	110.90	
Dry sample weight =	107.04	
Tare for cumulative weight retained= .00		
# 4	0.00	100.0
# 10	0.27	99.7
# 20	4.97	95.4
# 40	22.50	79.0
# 60	48.55	54.6
# 100	83.10	22.4
# 140	90.24	15.7
# 200	92.90	13.2

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 86.8 (**% coarse = 0.3** **% medium = 20.7** **% fine = 65.8**)
% FINES = 13.2

D85= 0.52 **D60= 0.27** **D50= 0.23**
D30= 0.17 **D15= 0.10**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.2	0.2	20.9	65.6	13.1	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G9-4	G9-4	229.66'	N/A		Red Silty sand	7.5		

Client GPC c/o SNOG		MACTEC ENGINEERING AND CONSULTING, INC.	○ Tested by: EH Reviewed by: HJ
Project Vogtle Units 3 & 4 Test Pad Project			
Project No. 6141-06-0286.54	8118		

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOC
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G9-4
Sample No.: G9-4
Elev. or Depth: 229.66' **Sample Length(in./cm.):** 8118
Location: G9-4
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.5
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: EH Reviewed by: HJ

Mechanical Analysis Data

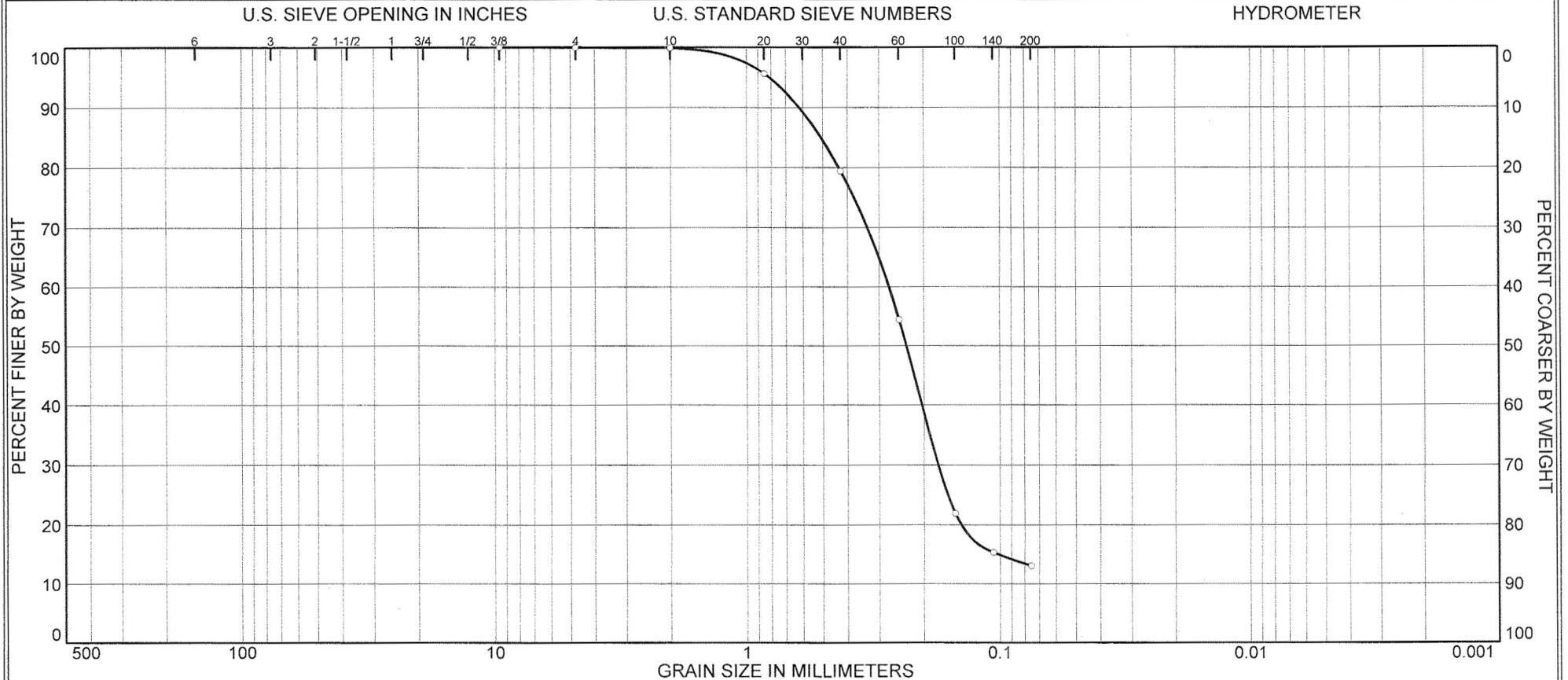
	Initial	
Dry sample and tare=	206.85	
Tare =	113.35	
Dry sample weight =	93.50	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.22	99.8
# 10	0.40	99.6
# 20	4.53	95.2
# 40	19.92	78.7
# 60	42.66	54.4
# 100	72.51	22.4
# 140	79.01	15.5
# 200	81.26	13.1

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL = 0.2** (**% coarse =** **% fine = 0.2**)
% SAND = 86.7 (**% coarse = 0.2** **% medium = 20.9** **% fine = 65.6**)
% FINES = 13.1

D85= 0.52 **D60= 0.27** **D50= 0.23**
D30= 0.17 **D15= 0.10**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.1	20.5	66.4	13.0	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G10-1	G10-1	230.22'	N/A		Red Silty sand	7.3		

Client GPC c/o SNOC		MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: EH	Reviewed by: HJ
Project Vogtle Units 3 & 4 Test Pad Project				
Project No. 6141-06-0286.54	8119			

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOC
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G10-1
Sample No.: G10-1
Elev. or Depth: 230.22' **Sample Length(in./cm.):** 8119
Location: G10-1
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.3
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: EH Reviewed by: HJ

Mechanical Analysis Data

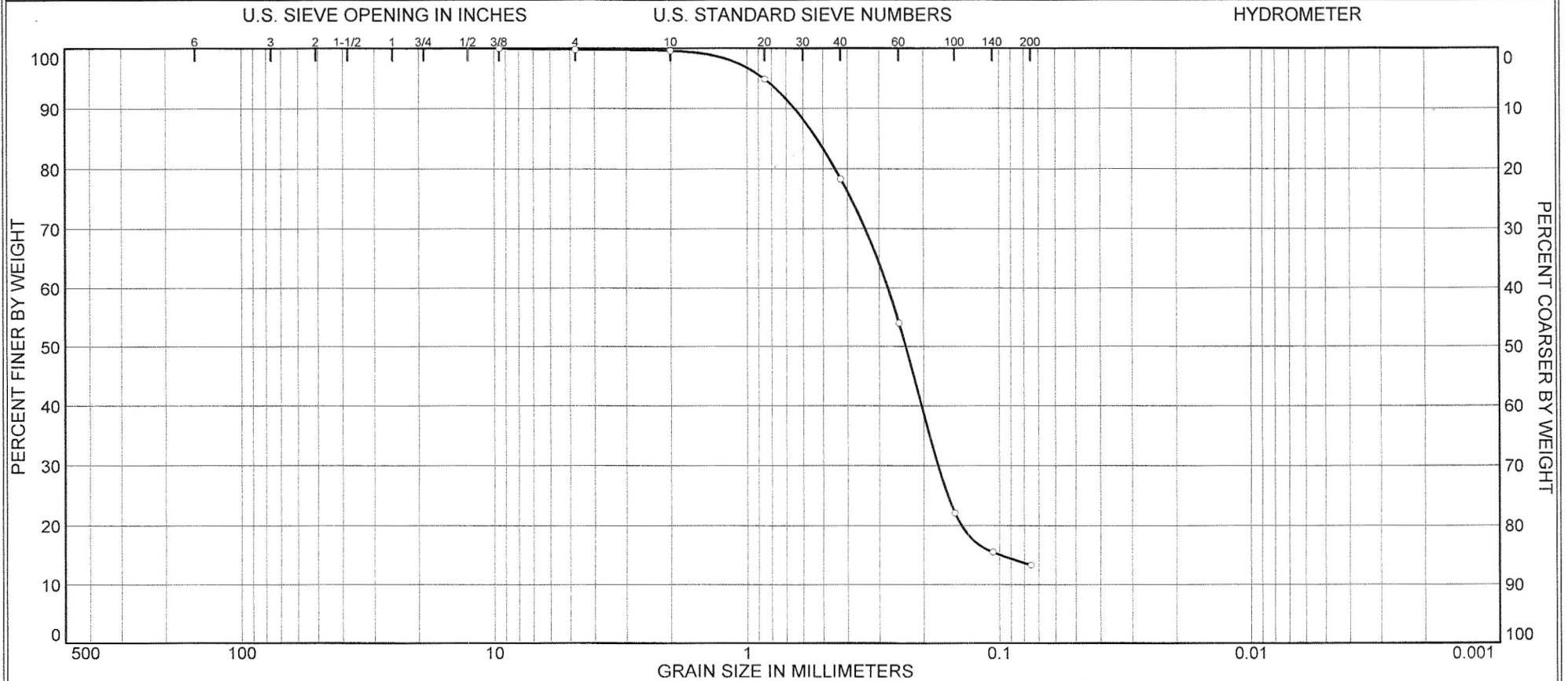
	Initial	
Dry sample and tare=	211.87	
Tare =	109.13	
Dry sample weight =	102.74	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.00	100.0
# 10	0.12	99.9
# 20	4.48	95.6
# 40	21.19	79.4
# 60	46.87	54.4
# 100	80.24	21.9
# 140	87.02	15.3
# 200	89.37	13.0

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 87.0 (% coarse = 0.1 % medium = 20.5 % fine = 66.4)
% FINES = 13.0

D₈₅= 0.51 D₆₀= 0.27 D₅₀= 0.23
D₃₀= 0.18 D₁₅= 0.10

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.2	0.2	21.3	65.0	13.3	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Backfill G10-2	G10-2	230.36'	N/A	SM	Red Silty sand	8.5	NV	NP

Client GPC c/o SNOG		MACTEC ENGINEERING AND CONSULTING, INC.	○ Tested by: EH Reviewed by: HJ
Project Vogtle Units 3 & 4 Test Pad Project			
Project No. 6141-06-0286.54	8120		

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOC
Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Backfill G10-2
Sample No.: G10-2
Elev. or Depth: 230.36' **Sample Length(in./cm.):** 8120
Location: G10-2
Description: Red Silty sand
Date: N/A **Natural Moisture:** 8.5
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: EH Reviewed by: HJ

Mechanical Analysis Data

	Initial	
Dry sample and tare=	204.59	
Tare =	112.65	
Dry sample weight =	91.94	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.15	99.8
# 10	0.39	99.6
# 20	4.65	94.9
# 40	19.96	78.3
# 60	42.26	54.0
# 100	71.63	22.1
# 140	77.66	15.5
# 200	79.71	13.3

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL = 0.2 (% coarse = % fine = 0.2)
% SAND = 86.5 (% coarse = 0.2 % medium = 21.3 % fine = 65.0)
% FINES = 13.3

D85= 0.53 D60= 0.28 D50= 0.24
D30= 0.17 D15= 0.10