

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 Excavation Side Slope BS-5
Sample No.: BS-5
Elev. or Depth: 228.69' Sample Length(in./cm.): N/A
Location: BS-5
Description: Red Clayey sand
Date: N/A Natural Moisture: 11.6
Liquid Limit: 31 Plastic Limit: 17 USCS Class.: SC
Testing Remarks: Tested by: MD Reviewed by: MC

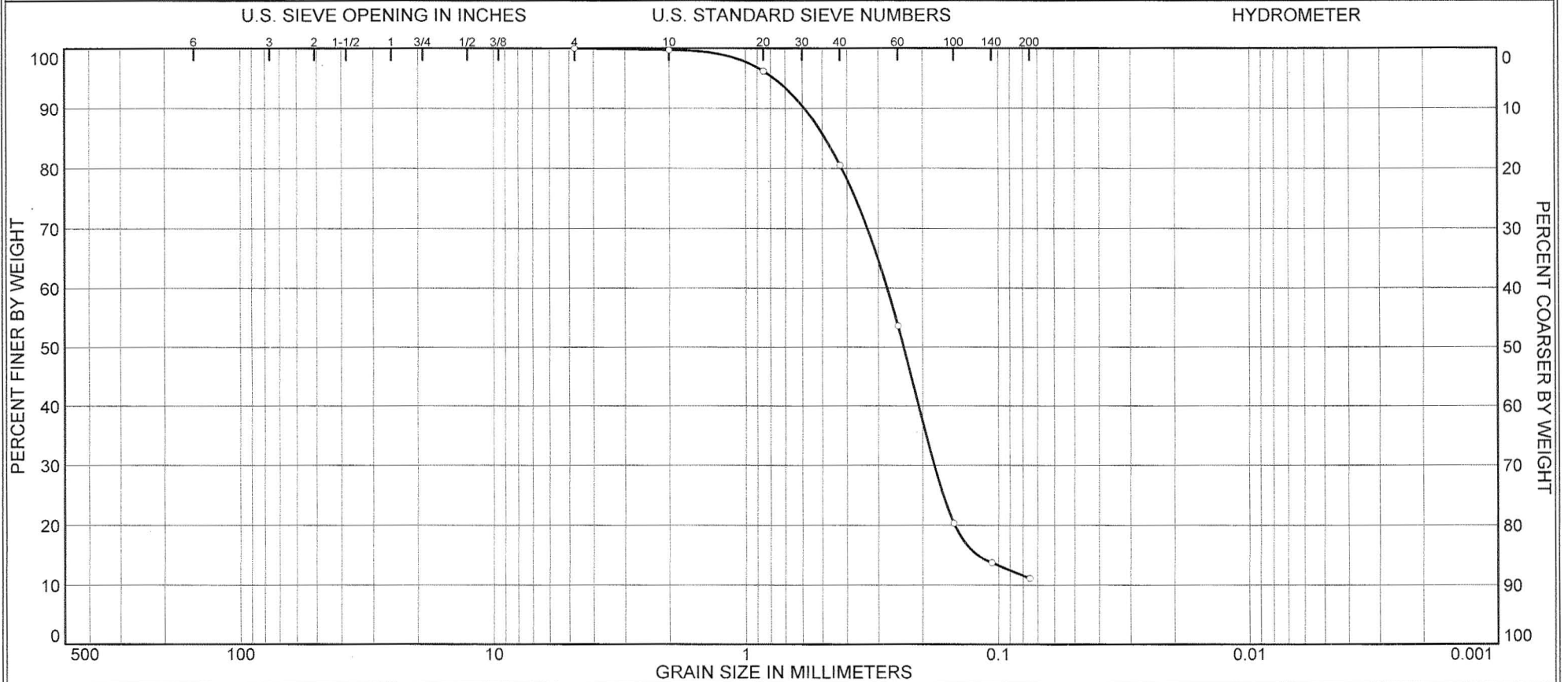
Mechanical Analysis Data

Table with 3 columns: Sieve, Cumul. Wt. retained, Percent finer. Rows include sieve sizes #4, #10, #20, #40, #60, #100, #140, #200 and corresponding weight and percentage values.

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 77.8 (% coarse = 0.0 % medium = 16.0 % fine = 61.8)
% FINES = 22.2
D85= 0.43 D60= 0.30 D50= 0.26
D30= 0.18

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.3	19.2	69.4	11.1	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Excavation Side Slope BS-6	BS-6	226.46'	N/A	SP-SM	Red Poorly graded sand with silt	4.1	NV	NP

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

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

Sample Data

Source: Test Pad Excavation Side Slope BS-6
Sample No.: BS-6
Elev. or Depth: 226.46' Sample Length(in./cm.): N/A
Location: BS-6
Description: Red Poorly graded sand with silt
Date: N/A Natural Moisture: 4.1
Liquid Limit: NV Plastic Limit: NP USCS Class.: SP-SM
Testing Remarks: Tested by: MD Reviewed by: MC

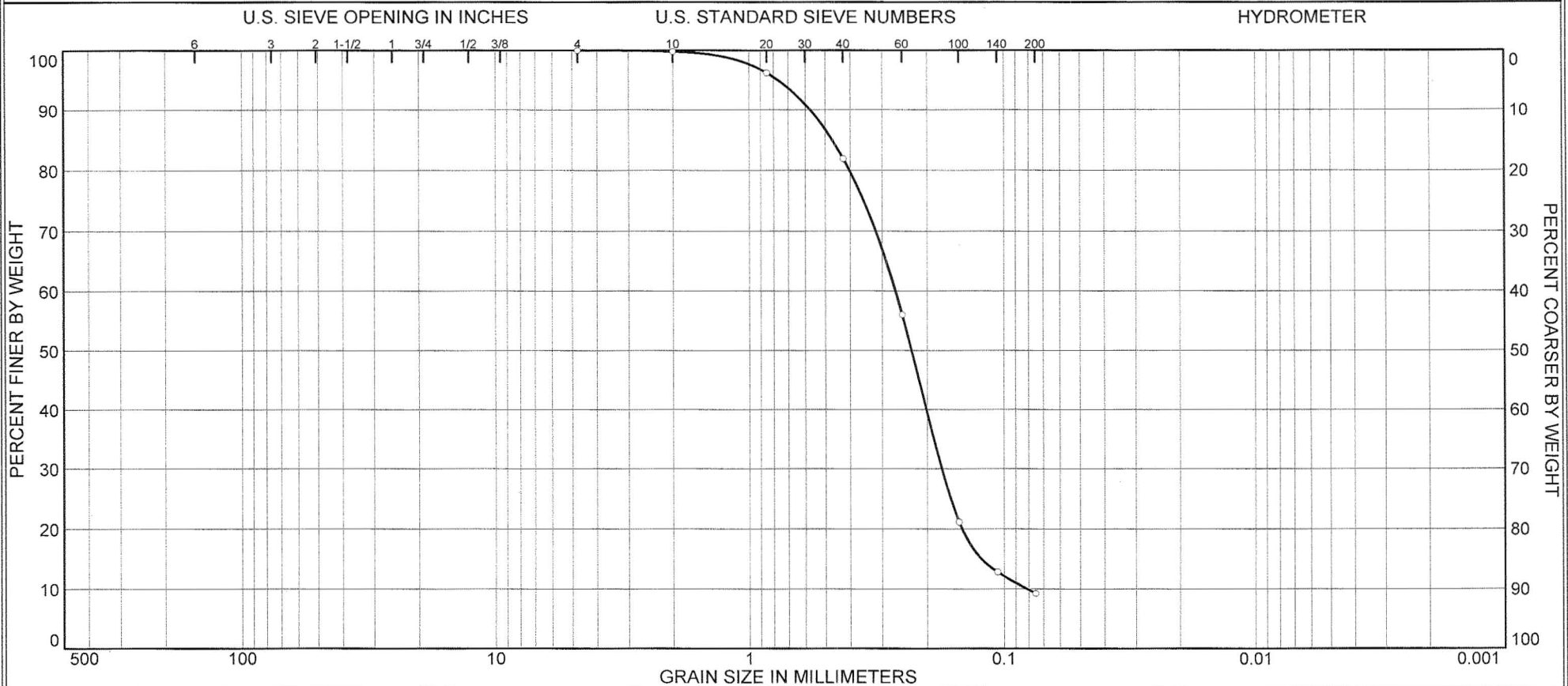
Mechanical Analysis Data

Table with 3 columns: Sieve, Cumul. Wt. retained, Percent finer. Rows include sieve sizes #4, #10, #20, #40, #60, #100, #140, #200 and their corresponding weights and percentages.

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 88.9 (% coarse = 0.3 % medium = 19.2 % fine = 69.4)
% FINES = 11.1
D85= 0.49 D60= 0.28 D50= 0.24
D30= 0.18 D15= 0.12

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.2	17.9	72.7	9.2	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Excavation Side Slope BS-7	BS-7	237.02'	N/A	SP-SM	Yellowish Brown Poorly graded sand with silt	3.7	NV	NP

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

Sample Data

Source: Test Pad Excavation Side Slope BS-7
Sample No.: BS-7
Elev. or Depth: 237.02' Sample Length(in./cm.): N/A
Location: BS-7
Description: Yellowish Brown Poorly graded sand with silt
Date: N/A Natural Moisture: 3.7
Liquid Limit: NV Plastic Limit: NP USCS Class.: SP-SM
Testing Remarks: Tested by: MD Reviewed by: MC

Mechanical Analysis Data

Table with 3 columns: Sieve, Cumul. Wt. retained, Percent finer. Rows include sieve sizes #4, #10, #20, #40, #60, #100, #140, #200 and corresponding weight and percentage values.

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 90.8 (% coarse = 0.2 % medium = 17.9 % fine = 72.7)
% FINES = 9.2
D85= 0.47 D60= 0.27 D50= 0.23
D30= 0.18 D15= 0.12 D10= 0.08
Cc= 1.4188 Cu= 3.2611

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.4	18.4	61.3	19.9	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Excavation Side Slope BS-8	BS-8	236.00'	N/A	SM	Red Silty sand	9.7	NV	NP

Client GPC c/o SNOC
 Project Vogtle Units 3 & 4 Test Pad Project
 Project No. 6141-06-0286.54

**MACTEC ENGINEERING
AND
CONSULTING, INC.**

Tested by: MD Reviewed by: MC

GRAIN SIZE DISTRIBUTION TEST DATA

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

Sample Data

Source: Test Pad Excavation Side Slope BS-8
Sample No.: BS-8
Elev. or Depth: 236.00' Sample Length(in./cm.): N/A
Location: BS-8
Description: Red Silty sand
Date: N/A Natural Moisture: 9.7
Liquid Limit: NV Plastic Limit: NP USCS Class.: SM
Testing Remarks: Tested by: MD Reviewed by: MC

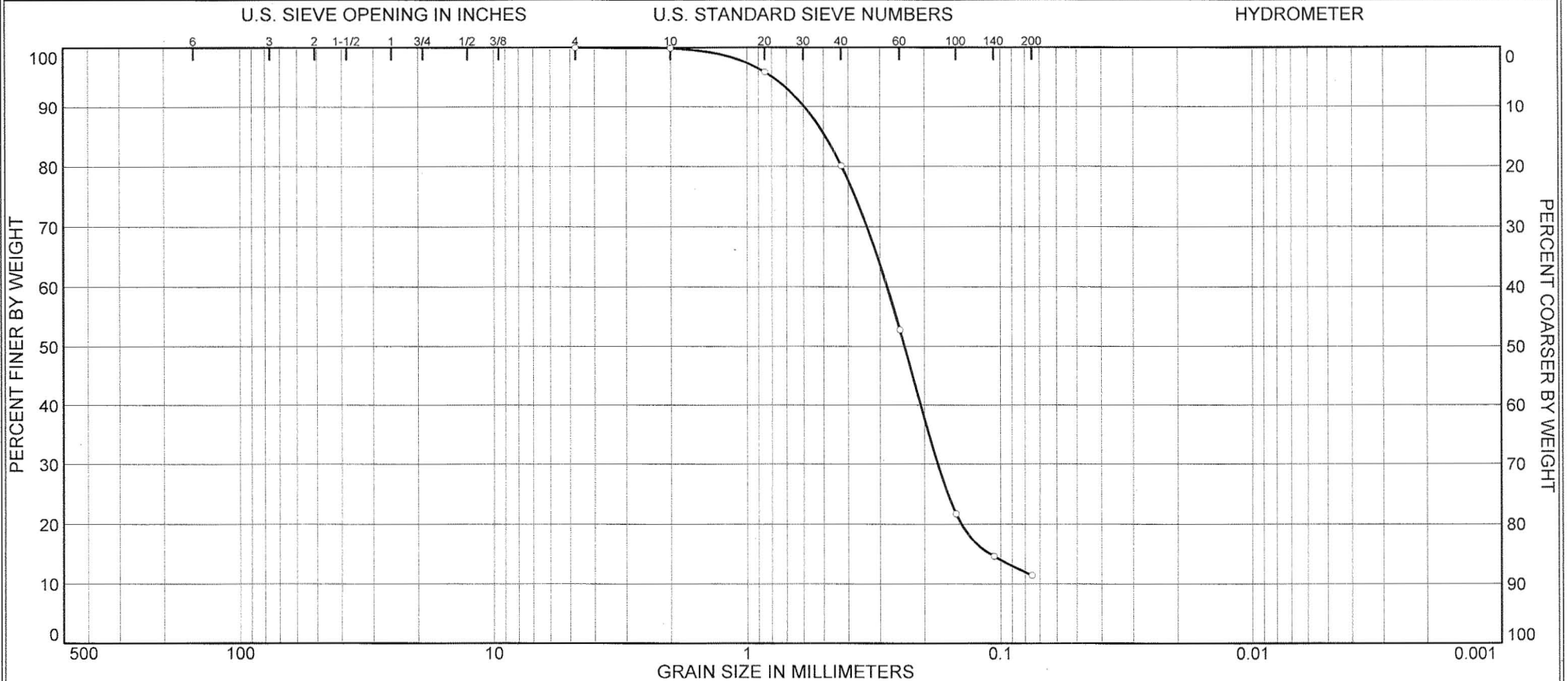
Mechanical Analysis Data

Table with 3 columns: Sieve, Cumul. Wt. retained, Percent finer. Rows include sieve sizes from .375 inch to #200 and corresponding weight and percentage values.

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 80.1 (% coarse = 0.4 % medium = 18.4 % fine = 61.3)
% FINES = 19.9
D85= 0.49 D60= 0.25 D50= 0.22
D30= 0.15

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.1	19.8	68.7	11.4	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Excavation Side Slope BS-9	BS-9	238.76'	N/A		Yellowish Brown Poorly graded sand with silt	3.4		

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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 Excavation Side Slope BS-9
Sample No.: BS-9
Elev. or Depth: 238.76' **Sample Length(in./cm.):** N/A
Location: BS-9
Description: Yellowish Brown Poorly graded sand with silt
Date: N/A **Natural Moisture:** 3.4
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD Reviewed by: MC

Mechanical Analysis Data

Initial

Dry sample and tare= 197.03
Tare = 64.25
Dry sample weight = 132.78
Tare for cumulative weight retained= .00

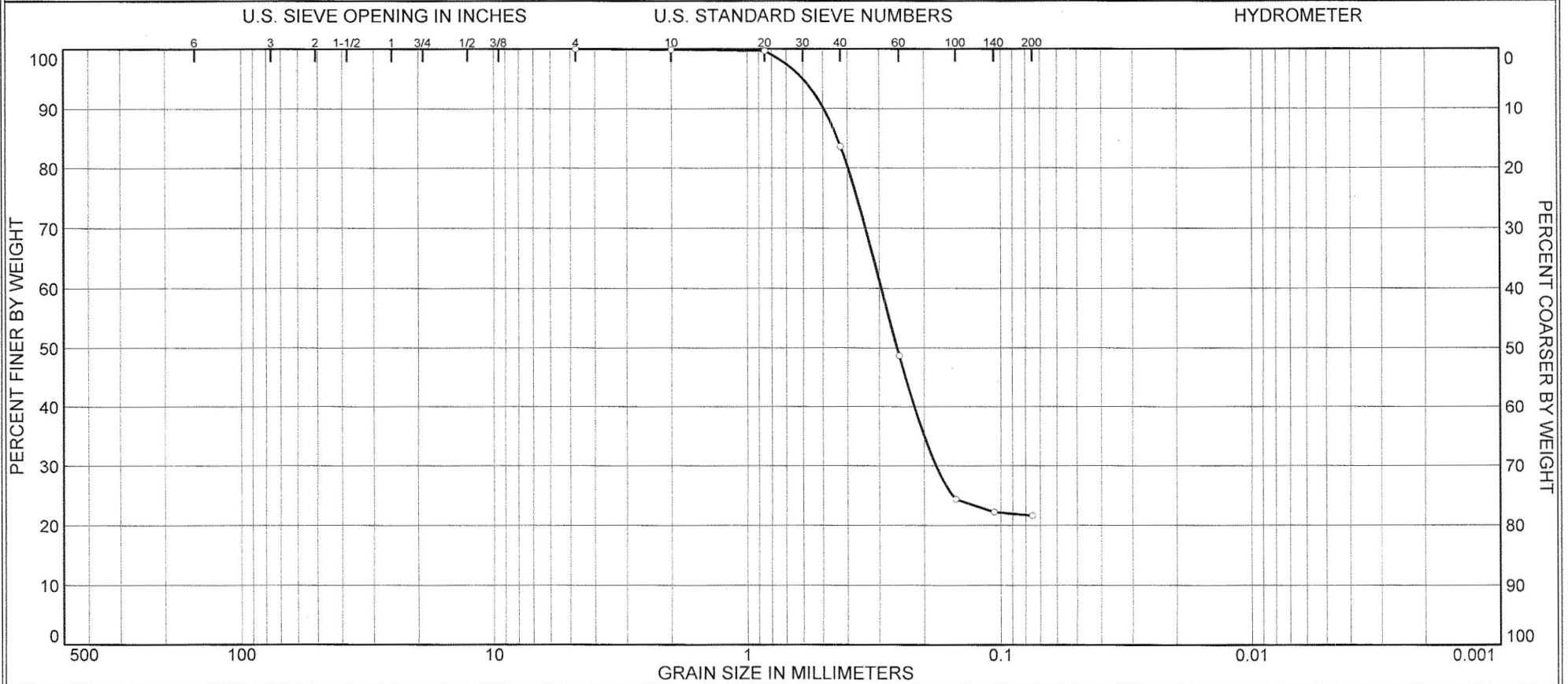
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.11	99.9
# 20	5.50	95.9
# 40	26.43	80.1
# 60	62.61	52.8
# 100	104.01	21.7
# 140	113.39	14.6
# 200	117.67	11.4

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 88.6 (% coarse = 0.1 % medium = 19.8 % fine = 68.7)
% FINES = 11.4

D85= 0.49 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	0.1	16.3	62.0	21.6	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Excavation Side Slope BS-10	BS-10	231.98'	N/A	SM	Red Silty sand	10.3	NV	NP

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

Sample Data

Source: Test Pad Excavation Side Slope BS-10
Sample No.: BS-10
Elev. or Depth: 231.98' **Sample Length(in./cm.):** N/A
Location: BS-10
Description: Red Silty sand
Date: N/A **Natural Moisture:** 10.3
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: MD Reviewed by: MC

Mechanical Analysis Data

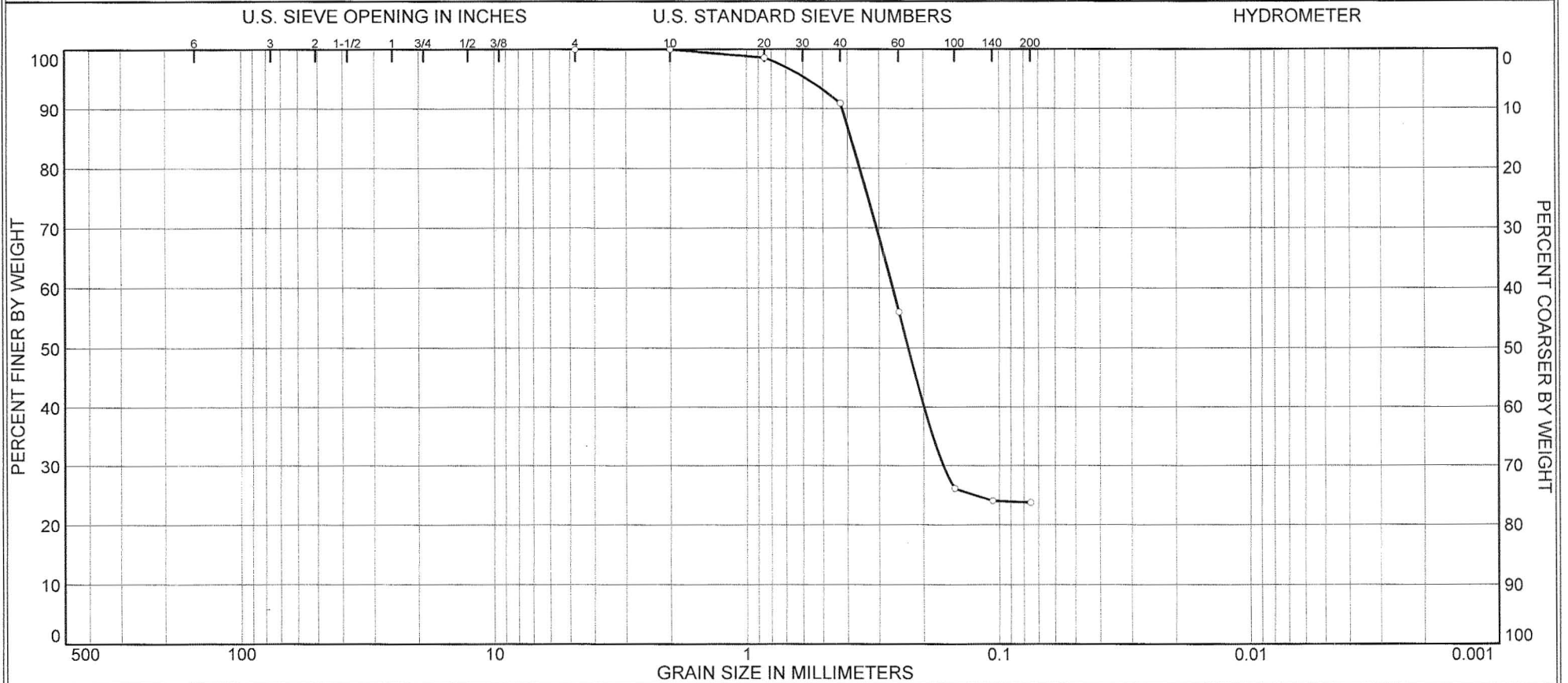
	Initial	
Dry sample and tare=	197.02	
Tare =	64.05	
Dry sample weight =	132.97	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.11	99.9
# 20	0.34	99.7
# 40	21.80	83.6
# 60	68.26	48.7
# 100	100.65	24.3
# 140	103.41	22.2
# 200	104.26	21.6

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 78.4 (**% coarse = 0.1** **% medium = 16.3** **% fine = 62.0)**
% FINES = 21.6

D₈₅ = 0.44 **D₆₀ = 0.29** **D₅₀ = 0.25**
D₃₀ = 0.18

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.0	9.1	67.2	23.7	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Excavation Side Slope BS-11	BS-11	229.40'	N/A	SM	Red Silty sand	10.1	NV	NP

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Project: Vogtle Units 3 & 4 Test Pad Project
Project Number: 6141-06-0286.54

Sample Data

Source: Test Pad Excavation Side Slope BS-11
Sample No.: BS-11
Elev. or Depth: 229.40' Sample Length(in./cm.): N/A
Location: BS-11
Description: Red Silty sand
Date: N/A Natural Moisture: 10.1
Liquid Limit: NV Plastic Limit: NP USCS Class.: SM
Testing Remarks: Tested by: MD Reviewed by: MC

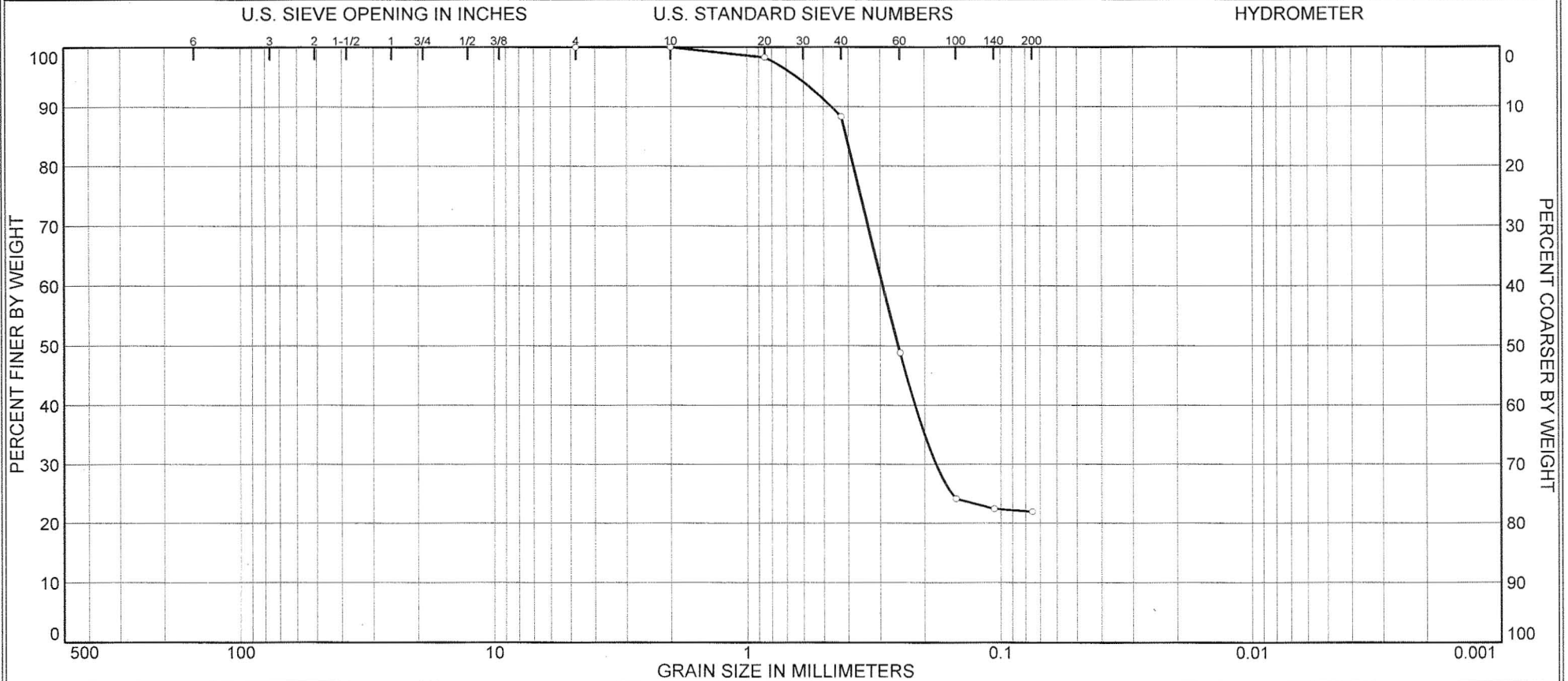
Mechanical Analysis Data

Table with 3 columns: Sieve, Cumul. Wt. retained, Percent finer. Rows include sieve sizes #4, #10, #20, #40, #60, #100, #140, #200 and corresponding weight and percentage values.

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 76.3 (% coarse = 0.0 % medium = 9.1 % fine = 67.2)
% FINES = 23.7
D85= 0.39 D60= 0.26 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	0.0	0.0	11.7	66.4	21.9	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Test Pad Excavation Side Slope BS-12	BS-12	229.79'	N/A		Red Silty sand	10.8		

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

Sample Data

Source: Test Pad Excavation Side Slope BS-12
Sample No.: BS-12
Elev. or Depth: 229.79' **Sample Length(in./cm.):** N/A
Location: BS-12
Description: Red Silty sand
Date: N/A **Natural Moisture:** 10.8
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD Reviewed by: MC

Mechanical Analysis Data

	Initial	
Dry sample and tare=	197.48	
Tare =	64.04	
Dry sample weight =	133.44	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt.	Percent
	retained	finer
# 4	0.00	100.0
# 10	0.03	100.0
# 20	2.21	98.3
# 40	15.67	88.3
# 60	68.26	48.8
# 100	101.22	24.1
# 140	103.58	22.4
# 200	104.25	21.9

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 78.1 (**% coarse = 0.0** **% medium = 11.7** **% fine = 66.4)**
% FINES = 21.9

D85= 0.41 **D60= 0.29** **D50= 0.25**
D30= 0.18