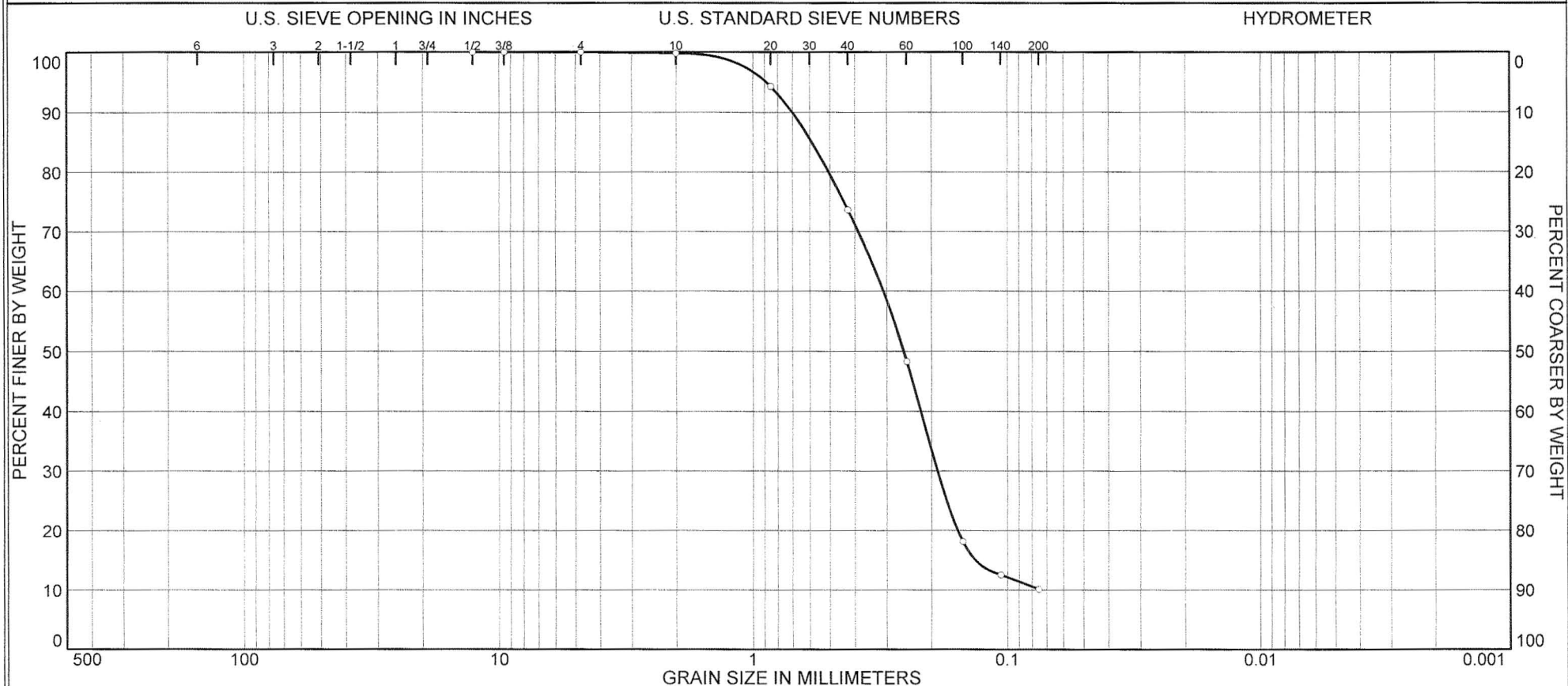


Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.2	26.2	63.5	10.1	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Near CL of Test Pad 5' from Top of Slope TPAD-1	TPAD-1		N/A	SP-SM	Poorly Graded sand with silt		NV	NP

Client GPC c/o SNOG		MACTEC ENGINEERING AND CONSULTING, INC.	○ Tested by: EH Reviewed by: HJ
Project Vogtle Units 3 & 4 COL Project			
Project No. 6141-06-0286	8099		

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOC
Project: Vogtle Units 3 & 4 COL Project
Project Number: 6141-06-0286

Sample Data

Source: Near CL of Test Pad 5' from Top of Slope TPAD-1
Sample No.: TPAD-1
Elev. or Depth: **Sample Length(in./cm.):** 8099
Location: TPAD-1
Description: Poorly Graded sand with silt
Date: N/A **Natural Moisture:**
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SP-SM
Testing Remarks: Tested by: EH Reviewed by: HJ

Mechanical Analysis Data

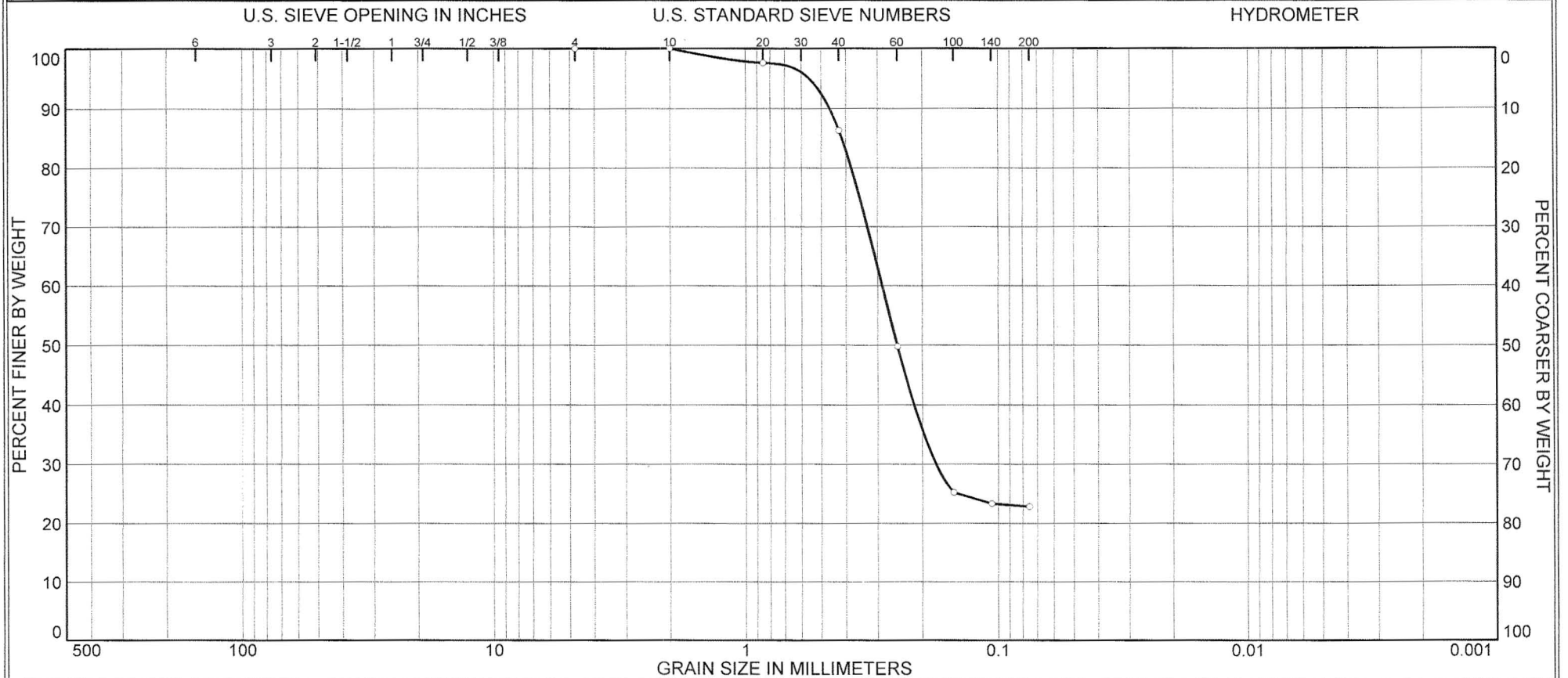
	Initial	
Dry sample and tare=	231.82	
Tare =	52.06	
Dry sample weight =	179.76	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.5 inch	0.00	100.0
.375 inch	0.00	100.0
# 4	0.00	100.0
# 10	0.30	99.8
# 20	10.26	94.3
# 40	47.37	73.6
# 60	92.88	48.3
# 100	147.19	18.1
# 140	157.26	12.5
# 200	161.58	10.1

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 89.9 (**% coarse = 0.2** **% medium = 26.2** **% fine = 63.5**)
% FINES = 10.1

D85= 0.59 **D60= 0.31** **D50= 0.26**
D30= 0.19 **D15= 0.13**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.0	13.7	63.5	22.8	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
5 Feet From Top of Slope TPAD-2	TPAD-2	n/a	n/a		Red Silty sand		NV	NP

Client GPC c/o SNOG	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		

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: 5 Feet From Top of Slope TPAD-2
Sample No.: TPAD-2
Elev. or Depth: n/a **Sample Length(in./cm.):** n/a
Location: TPAD-2
Description: Red Silty sand
Date: n/a **Natural Moisture:**
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:**
Testing Remarks: Tested by: MD Reviewed by: MC

Mechanical Analysis Data

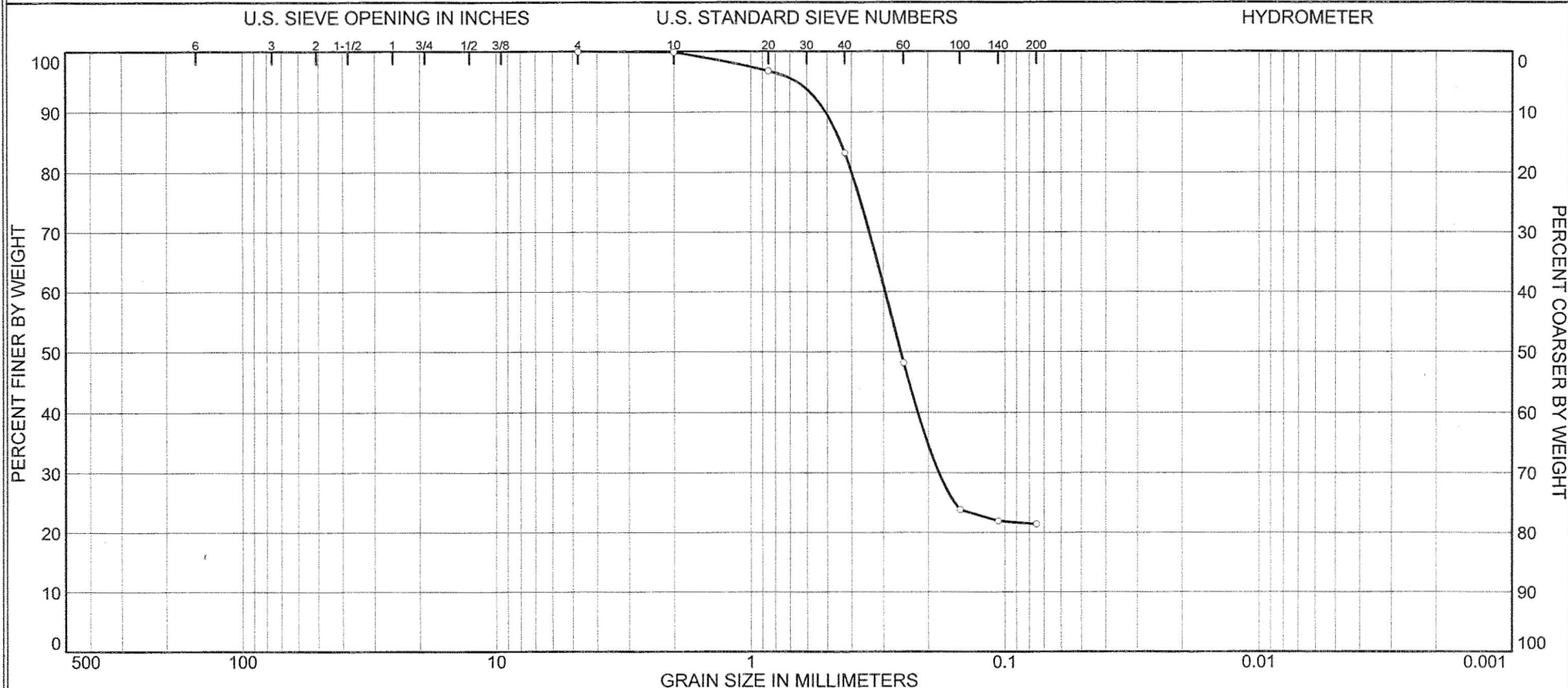
	Initial	
Dry sample and tare=	129.25	
Tare =	8.08	
Dry sample weight =	121.17	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.02	100.0
# 20	2.92	97.6
# 40	16.58	86.3
# 60	60.80	49.8
# 100	90.63	25.2
# 140	92.94	23.3
# 200	93.56	22.8

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 77.2 (**% coarse = 0.0** **% medium = 13.7** **% fine = 63.5**)
% FINES = 22.8

D₈₅ = 0.41 **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	0.1	16.7	61.8	21.4	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Near CL of Test Pad 5' from Top of Slope	TPAD-2		N/A	SC	Clayey sand		41	21
TPAD-2								

Client GPC c/o SNOC	MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: EH Reviewed by: HJ
Project Vogtle Units 3 & 4 COL Project		
Project No. 6141-06-0286 8100		

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOC
Project: Vogtle Units 3 & 4 COL Project
Project Number: 6141-06-0286

Sample Data

Source: Near CL of Test Pad 5' from Top of Slope TPAD-2
Sample No.: TPAD-2
Elev. or Depth: **Sample Length(in./cm.):** 8100
Location: TPAD-2
Description: Clayey sand
Date: N/A **Natural Moisture:**
Liquid Limit: 41 **Plastic Limit:** 21 **USCS Class.:** SC
Testing Remarks: Tested by: EH Reviewed by: HJ

Mechanical Analysis Data

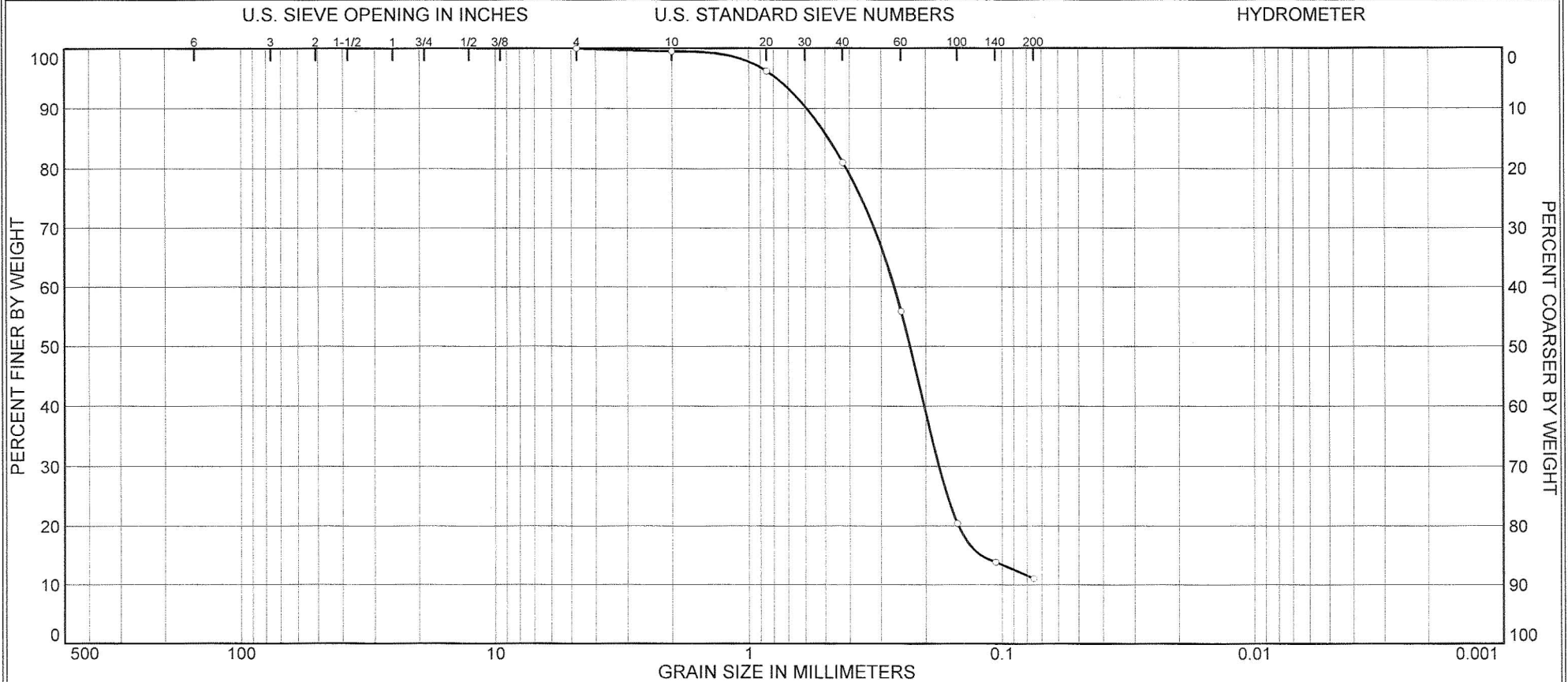
	Initial	
Dry sample and tare=	321.03	
Tare =	86.16	
Dry sample weight =	234.87	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.19	99.9
# 20	7.47	96.8
# 40	39.55	83.2
# 60	121.66	48.2
# 100	179.06	23.8
# 140	183.37	21.9
# 200	184.53	21.4

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 78.6 (**% coarse = 0.1** **% medium = 16.7** **% fine = 61.8**)
% FINES = 21.4

D85= 0.44 **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	0.5	18.5	70.0	11.0	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Stockpile SW Corner TPAD-3	TPAD-3	N/A	N/A	SP-SM	Red Poorly graded sand with silt	4.9	NV	NP

Client GPC c/o SNOC	MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: MD/SW 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: Stockpile SW Corner TPAD-3
Sample No.: TPAD-3
Elev. or Depth: N/A **Sample Length(in./cm.):** N/A
Location: TPAD-3
Description: Red Poorly graded sand with silt
Date: N/A **Natural Moisture:** 4.9
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SP-SM
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

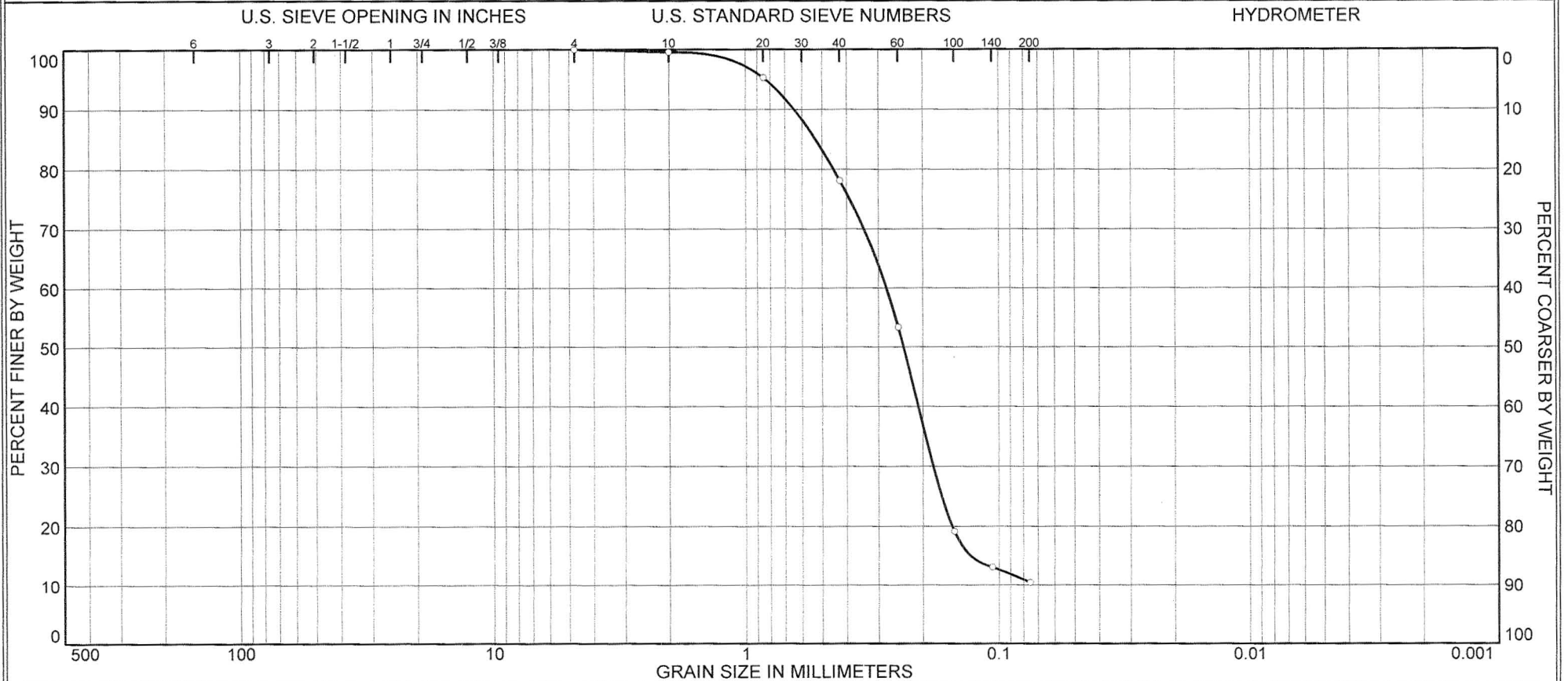
	Initial	
Dry sample and tare=	341.43	
Tare =	215.98	
Dry sample weight =	125.45	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.65	99.5
# 20	4.71	96.2
# 40	23.84	81.0
# 60	55.35	55.9
# 100	99.82	20.4
# 140	108.10	13.8
# 200	111.63	11.0

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 89.0 (% coarse = 0.5 % medium = 18.5 % fine = 70.0)
% FINES = 11.0

D85= 0.48 D60= 0.27 D50= 0.23
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	0.4	21.5	67.7	10.4	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Stockpile SW Corner TPAD-3	TPAD-3		N/A	SP-SM	Poorly Graded sand with silt		NV	NP

Client GPC c/o SNOC

Project Vogtle Units 3 & 4 COL Project

Project No. 6141-06-0286

8105

**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 COL Project
Project Number: 6141-06-0286

Sample Data

Source: Stockpile SW Corner TPAD-3
Sample No.: TPAD-3
Elev. or Depth: **Sample Length(in./cm.):** 8105
Location: TPAD-3
Description: Poorly Graded sand with silt
Date: N/A **Natural Moisture:**
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SP-SM
Testing Remarks: Tested by: EH Reviewed by: HJ

Mechanical Analysis Data

Initial
Dry sample and tare= 228.87
Tare = 110.58
Dry sample weight = 118.29
Tare for cumulative weight retained= .00

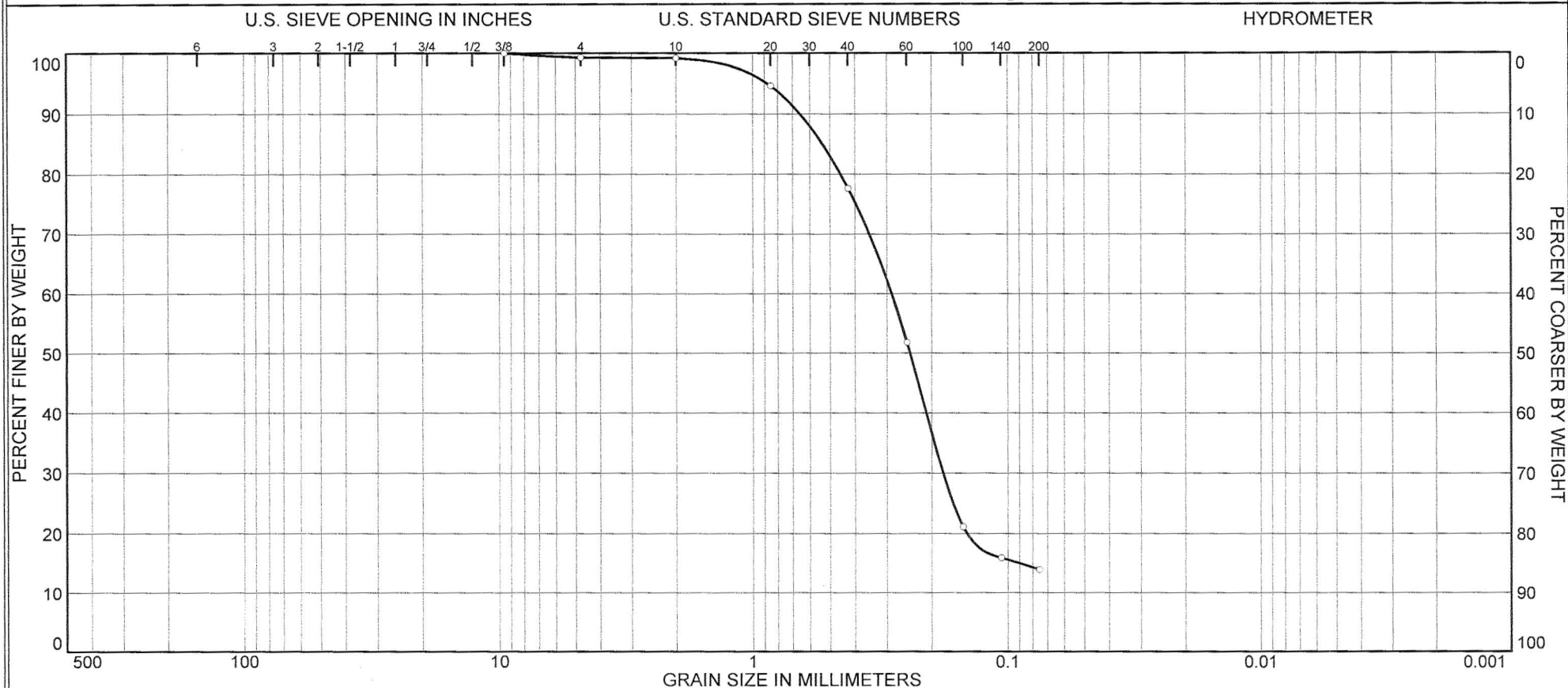
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.42	99.6
# 20	5.55	95.3
# 40	25.92	78.1
# 60	55.21	53.3
# 100	95.75	19.1
# 140	102.91	13.0
# 200	105.99	10.4

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 89.6 (**% coarse = 0.4** **% medium = 21.5** **% fine = 67.7)**
% FINES = 10.4

D85= 0.53 **D60= 0.28** **D50= 0.24**
D30= 0.18 **D15= 0.13**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.7	0.1	21.6	63.7	13.9	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Stockpile NE Corner	TPAD-4		N/A	SM	Silty sand		NV	NP
TPAD-4								

Client GPC c/o SNOC		MACTEC ENGINEERING AND CONSULTING, INC.	○ Tested by: EH Reviewed by: HJ
Project Vogtle Units 3 & 4 COL Project			
Project No. 6141-06-0286	8106		

GRAIN SIZE DISTRIBUTION TEST DATA

Client: GPC c/o SNOC
Project: Vogtle Units 3 & 4 COL Project
Project Number: 6141-06-0286

Sample Data

Source: Stockpile NE Corner TPAD-4
Sample No.: TPAD-4
Elev. or Depth: **Sample Length(in./cm.):** 8106
Location: TPAD-4
Description: Silty sand
Date: N/A **Natural Moisture:**
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: EH Reviewed by: HJ

Mechanical Analysis Data

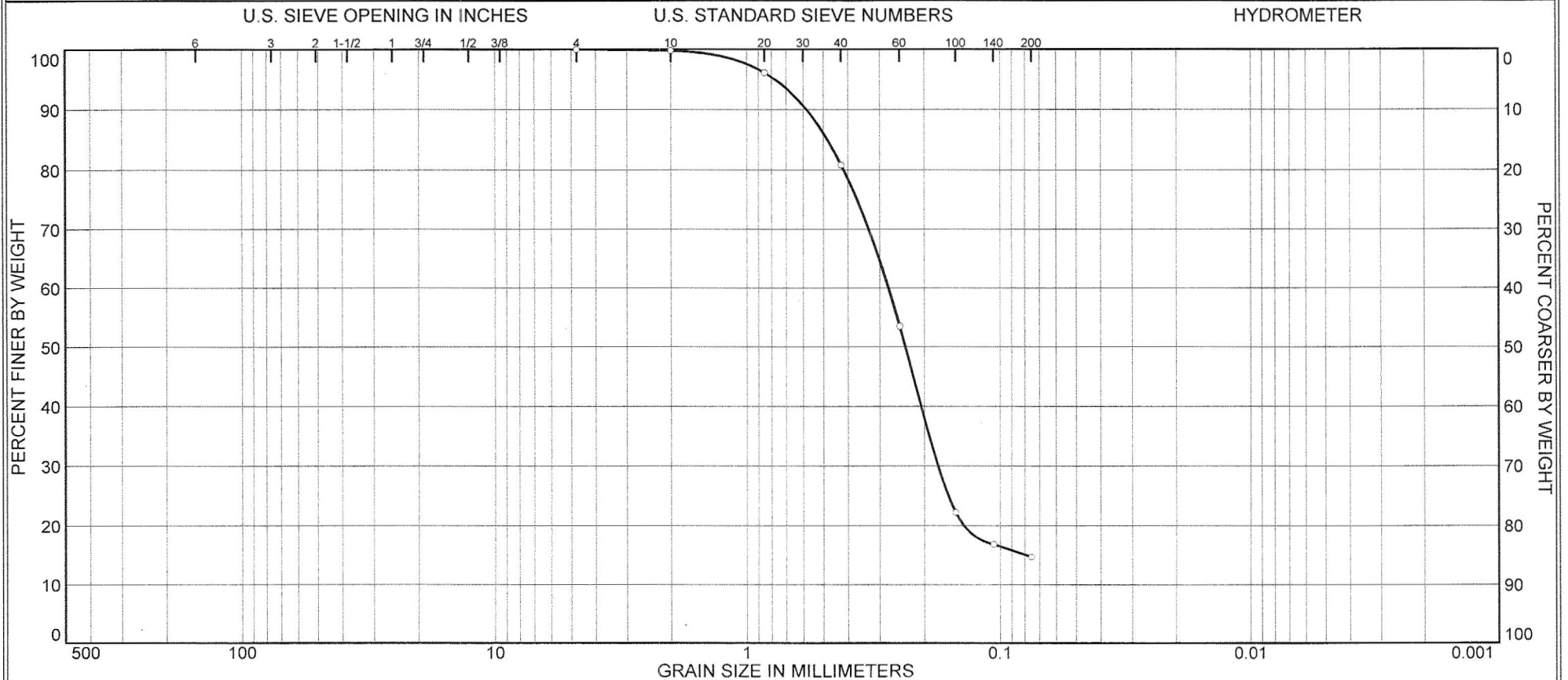
	Initial	
Dry sample and tare=	214.94	
Tare =	111.24	
Dry sample weight =	103.70	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
.375 inch	0.00	100.0
# 4	0.76	99.3
# 10	0.85	99.2
# 20	5.59	94.6
# 40	23.25	77.6
# 60	49.97	51.8
# 100	81.82	21.1
# 140	87.20	15.9
# 200	89.32	13.9

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL = 0.7** (**% coarse =** **% fine = 0.7**)
% SAND = 85.4 (**% coarse = 0.1** **% medium = 21.6** **% fine = 63.7**)
% FINES = 13.9

D85= 0.53 D60= 0.29 D50= 0.24
D30= 0.18 D15= 0.09

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.2	19.0	66.1	14.7	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Stockpile NE Corner TPAD-4	TPAD-4	N/A	N/A	SM	Red Silty sand	6.6	NV	NP

Client GPC c/o SNOG	MACTEC ENGINEERING AND CONSULTING, INC.	Tested by: MD/SW 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: Stockpile NE Corner TPAD-4
Sample No.: TPAD-4
Elev. or Depth: N/A **Sample Length(in./cm.):** N/A
Location: TPAD-4
Description: Red Silty sand
Date: N/A **Natural Moisture:** 6.6
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

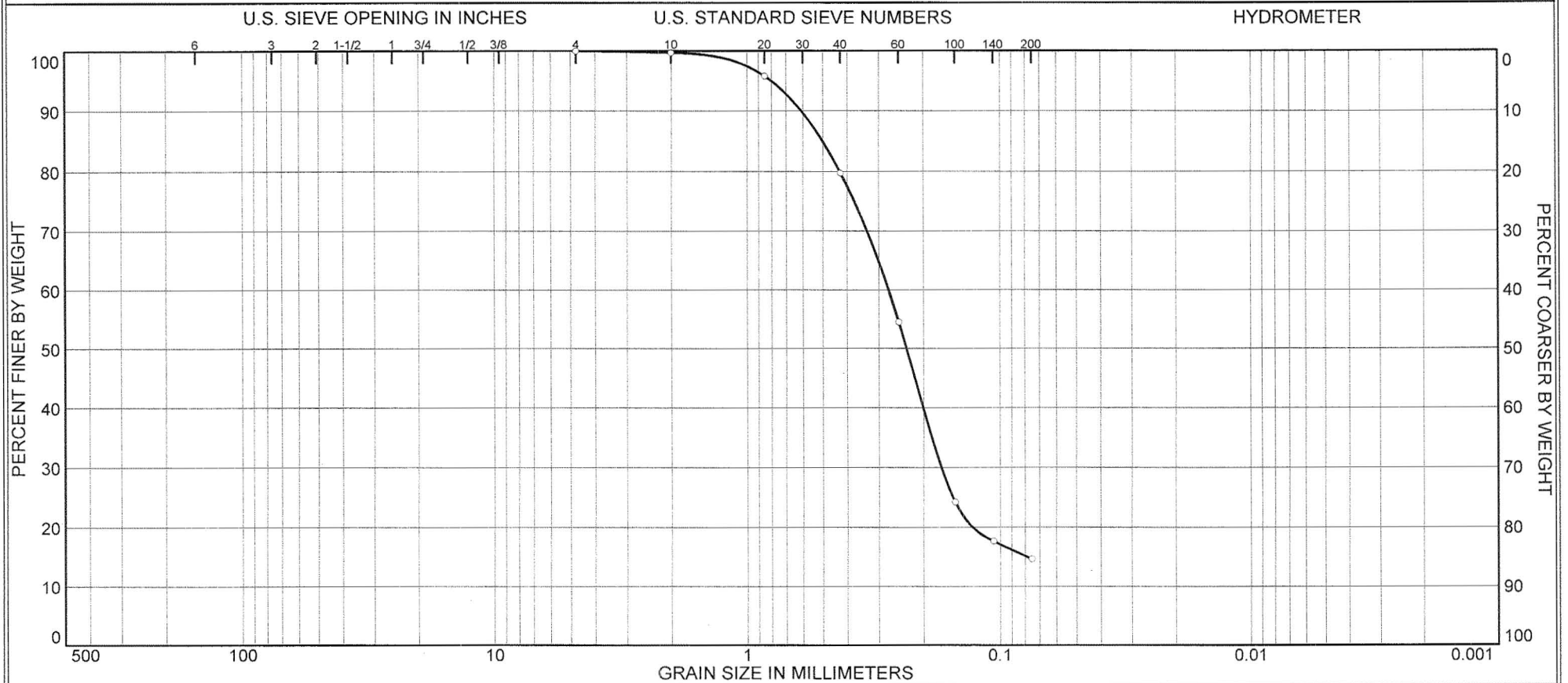
	Initial	
Dry sample and tare=	190.78	
Tare =	51.10	
Dry sample weight =	139.68	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.30	99.8
# 20	5.45	96.1
# 40	26.81	80.8
# 60	64.90	53.5
# 100	108.72	22.2
# 140	116.18	16.8
# 200	119.19	14.7

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 85.3 (**% coarse = 0.2** **% medium = 19.0** **% fine = 66.1**)
% FINES = 14.7

D85= 0.48 **D60= 0.28** **D50= 0.24**
D30= 0.18 **D15= 0.08**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.3	20.0	65.1	14.6	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Center of Stockpile TPAD-5	TPAD-5	N/A	N/A	SM	Red Silty sand	7.2	NV	NP

Client GPC c/o SNOC		MACTEC ENGINEERING AND CONSULTING, INC.	☐ Tested by: MD/SW 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: Center of Stockpile TPAD-5
Sample No.: TPAD-5
Elev. or Depth: N/A **Sample Length(in./cm.):** N/A
Location: TPAD-5
Description: Red Silty sand
Date: N/A **Natural Moisture:** 7.2
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

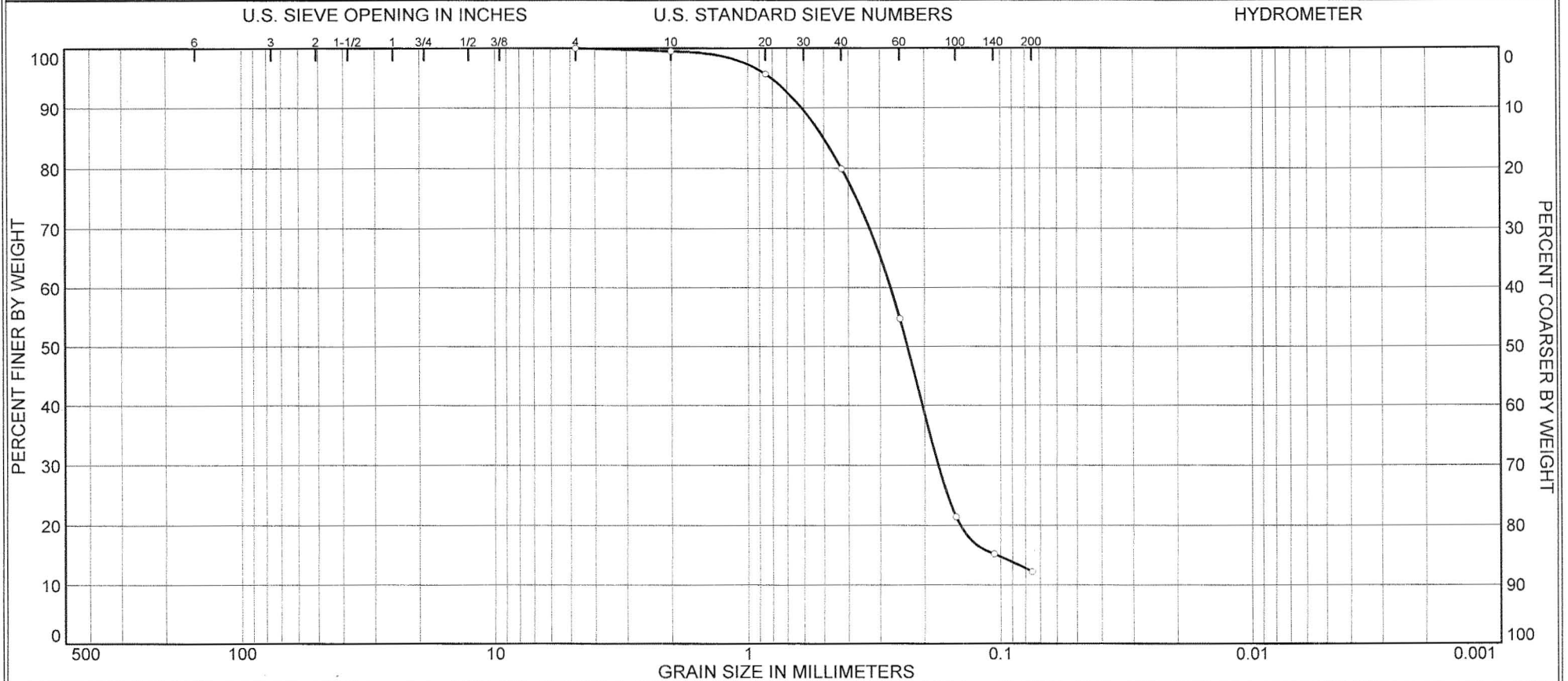
	Initial	
Dry sample and tare=	225.87	
Tare =	83.70	
Dry sample weight =	142.17	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.47	99.7
# 20	6.03	95.8
# 40	28.82	79.7
# 60	64.72	54.5
# 100	107.72	24.2
# 140	117.16	17.6
# 200	121.48	14.6

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 85.4 (**% coarse = 0.3** **% medium = 20.0** **% fine = 65.1**)
% FINES = 14.6

D85= 0.50 **D60= 0.27** **D50= 0.23**
D30= 0.17 **D15= 0.08**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.5	19.6	67.7	12.2	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
North Center of Stockpile TPAD-6	TPAD-6	N/A	N/A	SM	Reddish Brown Silty sand	6.1	NV	NP

Client GPC c/o SNOG		MACTEC ENGINEERING AND CONSULTING, INC.	○ Tested by: MD/SW 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: North Center of Stockpile TPAD-6
Sample No.: TPAD-6
Elev. or Depth: N/A **Sample Length(in./cm.):** N/A
Location: TPAD-6
Description: Reddish Brown Silty sand
Date: N/A **Natural Moisture:** 6.1
Liquid Limit: NV **Plastic Limit:** NP **USCS Class.:** SM
Testing Remarks: Tested by: MD/SW Reviewed by: MC

Mechanical Analysis Data

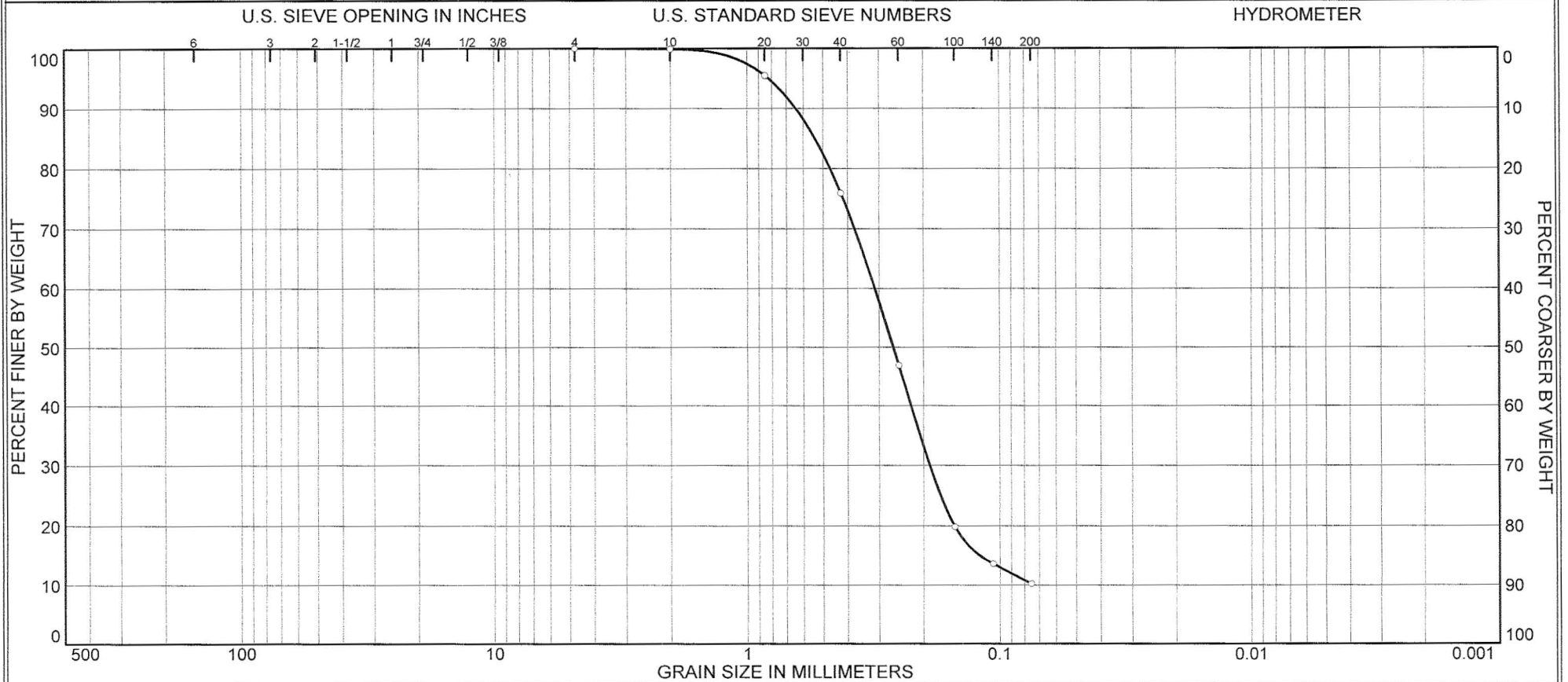
	Initial	
Dry sample and tare=	238.40	
Tare =	91.60	
Dry sample weight =	146.80	
Tare for cumulative weight retained=	.00	
Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.68	99.5
# 20	6.53	95.6
# 40	29.49	79.9
# 60	66.48	54.7
# 100	115.42	21.4
# 140	124.48	15.2
# 200	128.85	12.2

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = **% GRAVEL =**
% SAND = 87.8 (**% coarse = 0.5** **% medium = 19.6** **% fine = 67.7**)
% FINES = 12.2

D85= 0.50 **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	0.0	0.1	24.0	65.7	10.2	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
Stockpile-Material from New Borrow Site NE of Test Pad	TPAD-7		N/A		Tan Poorly graded sand with silt	4.6		

Client GPC c/o SNOG	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		

GRAIN SIZE DISTRIBUTION TEST DATA

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

Sample Data

Source: Stockpile-Material from New Borrow Site NE of Test Pad
Sample No.: TPAD-7
Elev. or Depth: **Sample Length(in./cm.):**
Location: TPAD-7
Description: Tan Poorly graded sand with silt
Date: N/A **Natural Moisture:** 4.6
Liquid Limit: **Plastic Limit:** **USCS Class.:**
Testing Remarks: Tested by: MD Reviewed by: MC

Mechanical Analysis Data

Sieve	Cumul. Wt. retained	Percent finer
# 4	0.00	100.0
# 10	0.15	99.9
# 20	6.18	95.5
# 40	33.33	75.9
# 60	73.37	46.9
# 100	110.74	19.8
# 140	119.42	13.6
# 200	124.06	10.2

Dry sample and tare= 202.43
Tare = 64.28
Dry sample weight = 138.15
Tare for cumulative weight retained= .00

Fractional Components

Gravel/Sand based on #4
Sand/Fines based on #200
% COBBLES = % GRAVEL =
% SAND = 89.8 (% coarse = 0.1 % medium = 24.0 % fine = 65.7)
% FINES = 10.2

D₈₅= 0.54 D₆₀= 0.31 D₅₀= 0.26
D₃₀= 0.19 D₁₅= 0.12
