

SPECIFIC GRAVITY

ASTM D 854-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth (ft):	321.5-322.0
Project No.:	2013-465-001	Sample No.:	ST-16
Lab ID:	2013-465-001-013	Visual Description:	Greenish Gray Silty Sand

(Minus No.4 sieve material, oven dried)

Replicate Number	1	2
Pycnometer ID	G 1255	G 1403
Weight of Pycnometer + Soil + Water (g)	747.61	738.41
Temperature (°C)	25.1	25.0
Weight of Pycnometer + Water (g)	685.09	675.40
Tare Number	976	925
Weight of Tare + Dry Soil (g)	202.61	202.33
Weight of Tare (g)	101.37	100.03
Weight of Dry Soil (g)	101.24	102.30
Specific Gravity of Soil @ Measured Temperature	2.614	2.604
Specific Gravity of Water @ Measured Temperature	0.99703	0.99705
Conversion Factor for Measured Temperature	0.99882	0.99884
Specific Gravity @ 20° Celsius	2.617	2.607

Average Specific Gravity @ 20° Celsius	2.61
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Tested By TO Date 12/2/13 Checked By KC Date 12/3/13

SPECIFIC GRAVITY

ASTM D 854-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	321.5-322.0
Project No.	2013-465-001	Sample No.	ST-16
Lab ID #	2013-465-001-013		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1118	11/23/14
Balance	G1057	11/4/14
#4 Sieve	G025	8/20/14
Pycnometer	G1255	Initial Only
Pycnometer	G1403	Initial Only
Thermometer	G1412	6/12/14
Vacuum Pump	G824	10/11/14

SPECIFIC GRAVITY

ASTM D 854-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth (ft):	338.0-338.2
Project No.:	2013-465-001	Sample No.:	ST-18
Lab ID:	2013-465-001-015	Visual Description:	Gray Sand

(Minus No.4 sieve material, oven dried)

Replicate Number	1	2
Pycnometer ID	G 1255	G 1403
Weight of Pycnometer + Soil + Water (g)	747.78	738.35
Temperature (°C)	25.0	24.4
Weight of Pycnometer + Water (g)	685.11	675.47
Tare Number	960	929
Weight of Tare + Dry Soil (g)	200.25	203.5
Weight of Tare (g)	99.17	101.72
Weight of Dry Soil (g)	101.08	101.78
Specific Gravity of Soil @ Measured Temperature	2.632	2.616
Specific Gravity of Water @ Measured Temperature	0.99705	0.99720
Conversion Factor for Measured Temperature	0.99884	0.99900
Specific Gravity @ 20° Celsius	2.635	2.619

Average Specific Gravity @ 20° Celsius 2.63

Tested By TO Date 11/15/13 Checked By KC Date 11/18/13

SPECIFIC GRAVITY

ASTM D 854-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	338.0-338.2
Project No.	2013-465-001	Sample No.	ST-18
Lab ID #	2013-465-001-015		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
#4 Sieve	G025	8/20/14
Pycnometer	G1255	Initial Only
Pycnometer	G1403	Initial Only
Thermometer	G1412	6/12/14
Vacuum Pump	G824	10/11/14

SPECIFIC GRAVITY

ASTM D 854-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth (ft):	354.9-355.4
Project No.:	2013-465-001	Sample No.:	ST-20
Lab ID:	2013-465-001-017	Visual Description:	Greenish Gray Silty Sand

(Minus No.4 sieve material, oven dried)

Replicate Number	1	2
Pycnometer ID	G 1255	G 1403
Weight of Pycnometer + Soil + Water (g)	742.15	733.22
Temperature (°C)	25.5	25.4
Weight of Pycnometer + Water (g)	685.04	675.35
Tare Number	1920	929
Weight of Tare + Dry Soil (g)	190.6	195.69
Weight of Tare (g)	98.2	101.67
Weight of Dry Soil (g)	92.40	94.02
Specific Gravity of Soil @ Measured Temperature	2.618	2.601
Specific Gravity of Water @ Measured Temperature	0.99692	0.99695
Conversion Factor for Measured Temperature	0.99871	0.99874
Specific Gravity @ 20° Celsius	2.621	2.604

Average Specific Gravity @ 20° Celsius	2.61
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Tested By TO Date 12/4/13 Checked By KC Date 12/5/13

SPECIFIC GRAVITY

ASTM D 854-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	354.9-355.4
Project No.	2013-465-001	Sample No.	ST-20
Lab ID #	2013-465-001-017		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1118	11/23/14
Balance	G1057	11/4/14
#4 Sieve	G025	8/20/14
Pycnometer	G1255	Initial Only
Pycnometer	G1403	Initial Only
Thermometer	G1412	6/12/14
Vacuum Pump	G824	10/11/14

SPECIFIC GRAVITY

ASTM D 854-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth (ft):	391.9-392.4
Project No.:	2013-465-001	Sample No.:	ST-23
Lab ID:	2013-465-001-019	Visual Description:	Greenish Gray Silty Sand (Minus No.4 sieve material, oven dried)

Replicate Number		1		2
Pycnometer ID	G	1255		G 1403
Weight of Pycnometer + Soil + Water (g)		744.55		735.49
Temperature (°C)		23.8		23.2
Weight of Pycnometer + Water (g)		685.26		675.62
Tare Number		2349		949
Weight of Tare + Dry Soil (g)		193.73		196.13
Weight of Tare (g)		97.53		98.66
Weight of Dry Soil (g)		96.20		97.47
Specific Gravity of Soil @ Measured Temperature		2.607		2.592
Specific Gravity of Water @ Measured Temperature		0.99735		0.99750
Conversion Factor for Measured Temperature		0.99914		0.99929
Specific Gravity @ 20° Celsius		2.609		2.594

Average Specific Gravity @ 20° Celsius	2.60
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Tested By TO Date 11/26/13 Checked By KC Date 11/27/13

DCN: CT-S5 Date: 9/22/13 Revision: 19

Gravity.xls

SPECIFIC GRAVITY

ASTM D 854-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	391.9-392.4
Project No.	2013-465-001	Sample No.	ST-23
Lab ID #	2013-465-001-019		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1118	11/23/14
Balance	G1057	11/4/14
#4 Sieve	G025	8/20/14
Pycnometer	G1255	Initial Only
Pycnometer	G1403	Initial Only
Thermometer	G1412	6/12/14
Vacuum Pump	G824	10/11/14

SPECIFIC GRAVITY

ASTM D 854-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth (ft):	436.8-437.3
Project No.:	2013-465-001	Sample No.:	ST-25
Lab ID:	2013-465-001-020	Visual Description:	Gray Silty Sand

(Minus No.4 sieve material, oven dried)

Replicate Number	1	2
Pycnometer ID	G 1255	G 1403
Weight of Pycnometer + Soil + Water (g)	746.74	737.76
Temperature (°C)	26.6	25.3
Weight of Pycnometer + Water (g)	684.90	675.36
Tare Number	1920	1678
Weight of Tare + Dry Soil (g)	198.52	190.13
Weight of Tare (g)	98.22	89.05
Weight of Dry Soil (g)	100.30	101.08
Specific Gravity of Soil @ Measured Temperature	2.608	2.613
Specific Gravity of Water @ Measured Temperature	0.99663	0.99698
Conversion Factor for Measured Temperature	0.99842	0.99877
Specific Gravity @ 20° Celsius	2.612	2.616

Average Specific Gravity @ 20° Celsius	2.61
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Tested By TO Date 11/13/13 Checked By KC Date 11/14/13

SPECIFIC GRAVITY

ASTM D 854-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	436.8-437.3
Project No.	2013-465-001	Sample No.	ST-25
Lab ID #	2013-465-001-020		

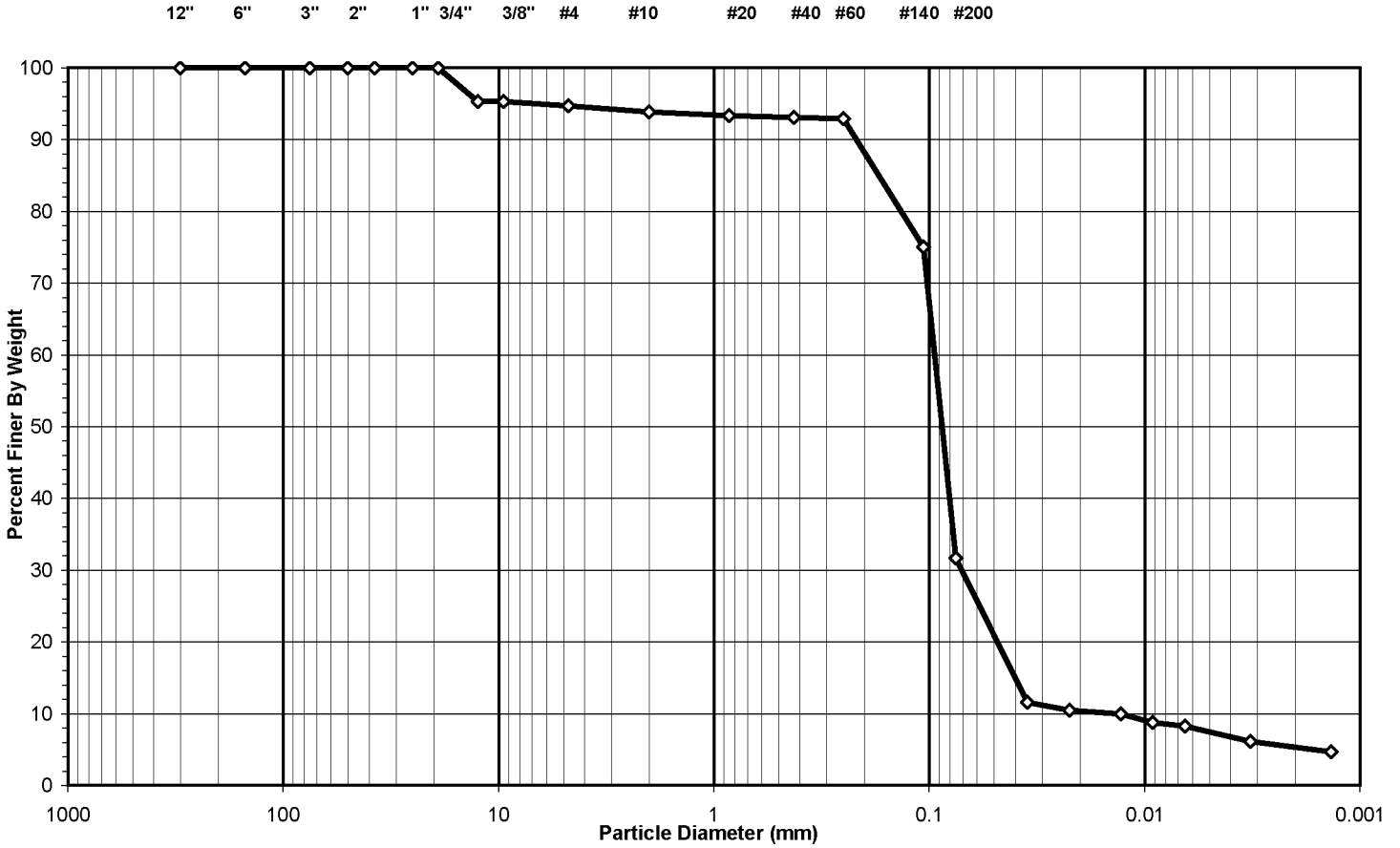
Equipment	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/5/14
#4 Sieve	G025	8/20/14
Pycnometer	G1255	Initial Only
Pycnometer	G1403	Initial Only
Thermometer	G1412	6/12/14
Vacuum Pump	G824	10/11/14

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-021

Boring No. R-6-1b
 Depth (ft) 148.2-148.7
 Sample No. ST-3
 Soil Color Greenish Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel	sand			silt and clay fraction		
	cobble	gravel	sand			silt	clay	

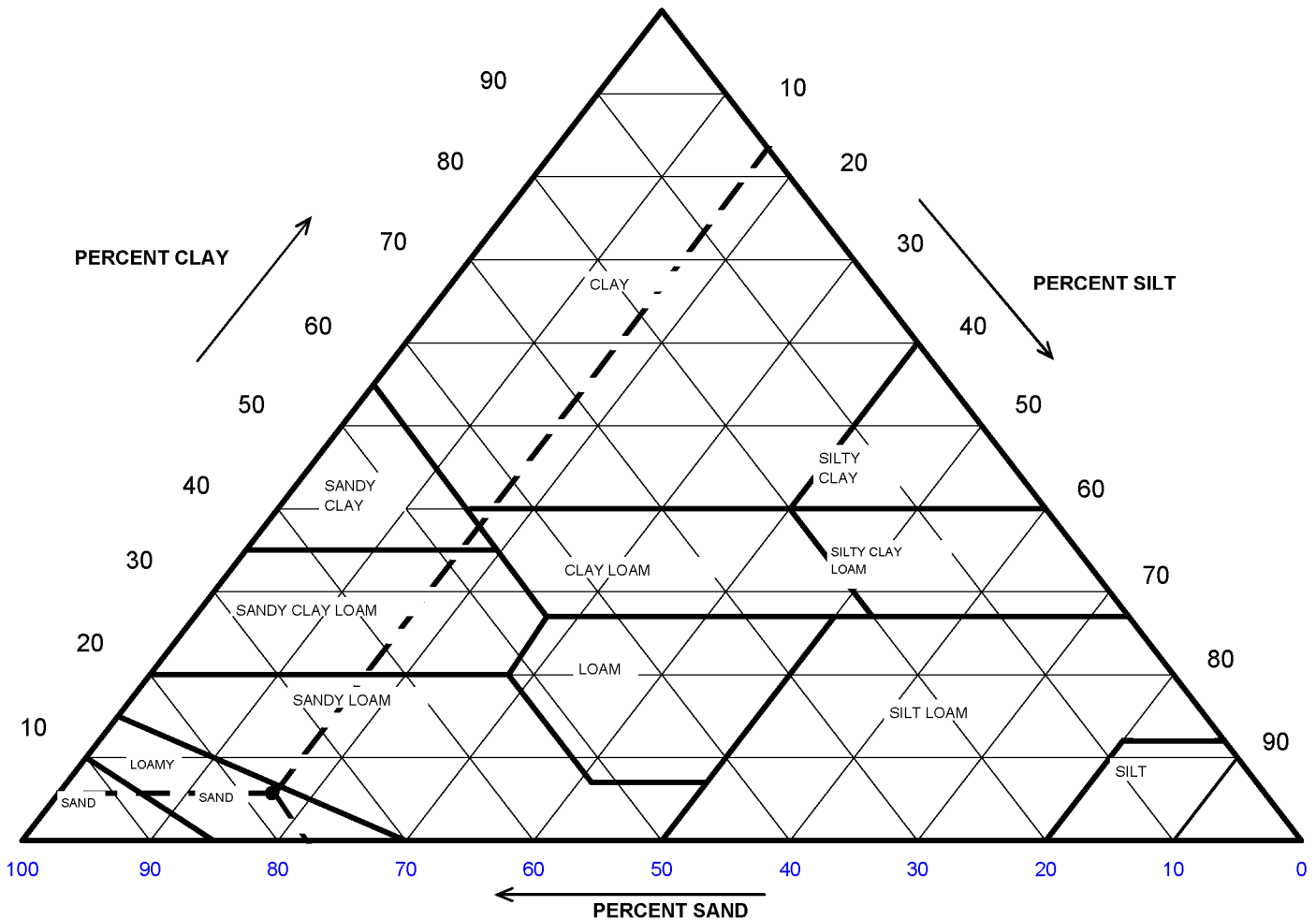


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	5.28
#4 To #200	<i>Sand</i>	63.00
Finer Than #200	<i>Silt & Clay</i>	31.72
USCS Symbol <i>SM, TESTED</i> <i>(NON-PLASTIC FINES)</i> USCS Classification <i>SILTY SAND</i>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-021

Boring No. R-6-1b
 Depth (ft) 148.2-148.7
 Sample No. ST-3
 Soil Color Greenish Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	6.10	0.00
2	93.90	<i>Sand</i>	72.87	77.60
0.05	21.03	<i>Silt</i>	15.71	16.73
0.002	5.32	<i>Clay</i>	5.32	5.67
USDA Classification:		LOAMY SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-021

Boring No. R-6-1b
 Depth (ft) 148.2-148.7
 Sample No. ST-3
 Soil Color **Greenish Gray**

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	43	Air Dried - #10 Hydrometer Material (g)	85.28
Wgt. Tare + Wet Soil (g)	29.22	Corrected Dry Wt. of - #10 Material (g)	84.34
Wgt. Tare + Dry Soil (g)	28.99		
Weight of Tare (g)	8.32	Weight of - #200 Material (g)	28.49
Weight of Water (g)	0.23	Weight of - #10 ; + #200 Material (g)	55.85
Weight of Dry Soil (g)	20.67		
Moisture Content (%)	1.1	J-FACTOR (%FINER THAN #10)	0.9390
Soil Specimen Data			
Tare No.	17		
Wgt. Tare + Air Dry Soil (g)	390.42		
Weight of Tare (g)	204.44		
Air Dried Wgt. Total Sample (g)	185.98	Dry Weight of Material Retained on #10 (g)	11.23
Total Dry Sample Weight (g)	184.06	Corrected Dry Sample Wt - #10 (g)	172.83

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	8.68	4.7	4.7	95.3	95.3
3/8"	9.50	0.00	0.0	4.7	95.3	95.3
#4	4.75	1.03	0.6	5.3	94.7	94.7
#10	2.00	1.52	0.8	6.1	93.9	93.9
#20	0.85	0.46	0.5	0.5	99.5	93.4
#40	0.425	0.22	0.3	0.8	99.2	93.1
#60	0.250	0.17	0.2	1.0	99.0	93.0
#140	0.106	16.10	19.1	20.1	79.9	75.0
#200	0.075	38.90	46.1	66.2	33.8	31.7
Pan	-	28.49	33.8	100.0	-	-

Notes :

Tested By **PC** Date **11/19/13** Checked By **JAM** Date **11/21/13**

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-021

Boring No. R-6-1b
 Depth (ft) 148.2-148.7
 Sample No. ST-3
 Soil Color **Greenish Gray**

Elapsed Time (min)	R Measured	Temp. (°C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	15.0	22.7	4.61	10.4	12.4	0.01330	0.0350	11.6
5	14.0	22.7	4.61	9.4	11.2	0.01330	0.0222	10.5
15	13.5	22.7	4.61	8.9	10.6	0.01330	0.0129	9.9
30	12.5	22.7	4.61	7.9	9.4	0.01330	0.0092	8.8
60	12.0	22.8	4.58	7.4	8.8	0.01328	0.0065	8.3
250	10.0	22.9	4.55	5.4	6.5	0.01326	0.0032	6.1
1440	9.0	22.1	4.80	4.2	5.0	0.01339	0.0014	4.7

Soil Specimen Data		Other Corrections	
Wgt. of Dry Material (g)	84.34	Hygroscopic Moisture Factor	0.989
Weight of Deflocculant (g)	5.0	a - Factor	1.004
		Percent Finer than # 10	93.90
		Specific Gravity	2.63 Measured

Notes:

Tested By TO Date 11/18/13 Checked By JAM Date 11/21/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	148.2-148.7
Project No.	2013-465-001	Sample No.	ST-3
Lab ID #	2013-465-001-021		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1047	3/25/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	G718	9/13/14
3/8" Sieve	G414	9/13/14
#4 Sieve	G620	11/8/14
#10 Sieve	G893	12/11/13
Sieve Shaker	G1067	9/20/14
Additional Balance	G1395	6/4/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	148.2-148.7
Project No.	2013-465-001	Sample No.	ST-3
Lab ID #	2013-465-001-021		

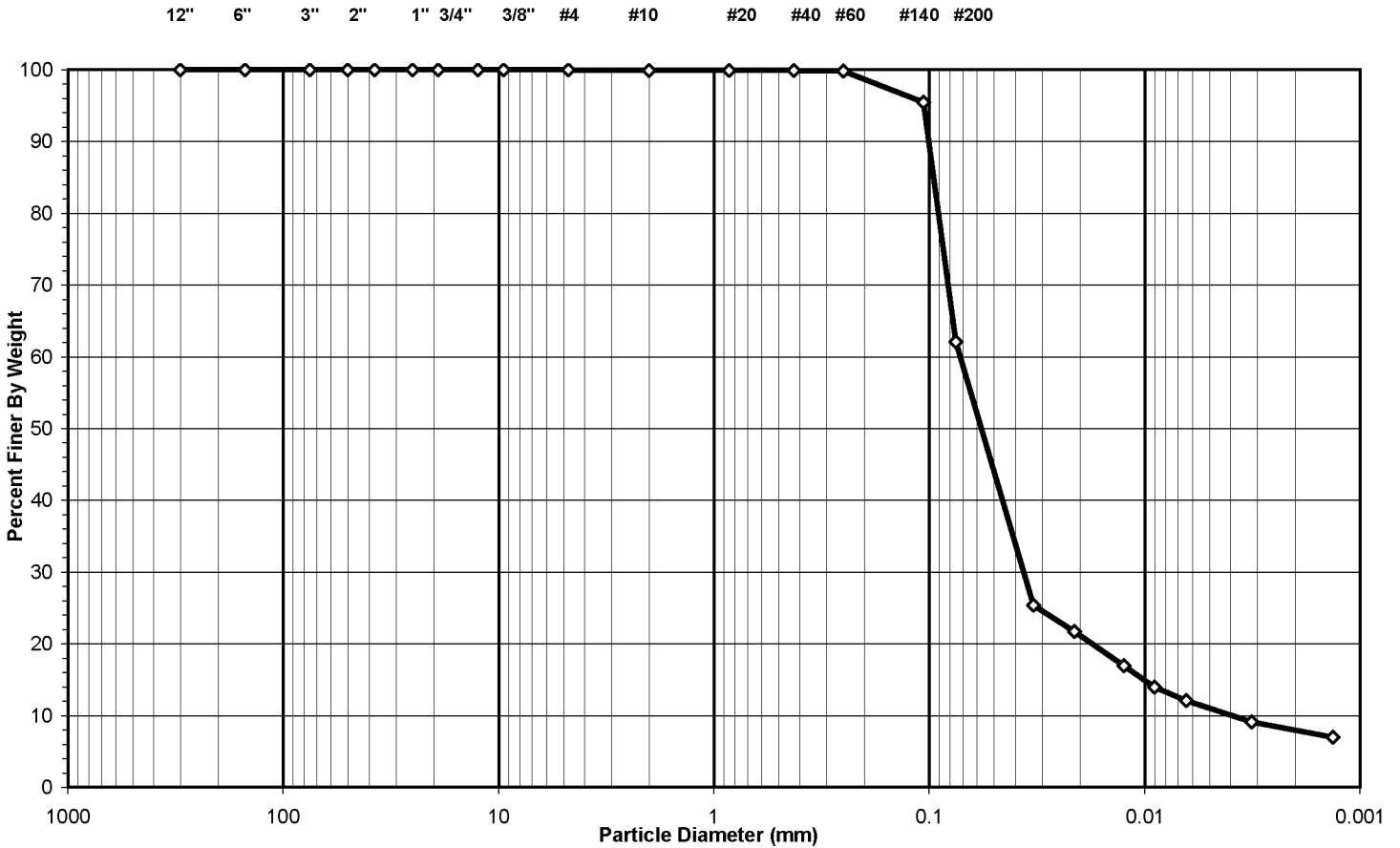
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G204	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1383	8/9/14
#40 Sieve	G1280	1/2/14
#60 Sieve	G1273	1/2/14
#140 Sieve	G1408	12/11/13
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-022

Boring No. R-6-1b
 Depth (ft) 164.6-165.1
 Sample No. ST-5
 Soil Color Greenish Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel	sand			silt and clay fraction		
	cobble	gravel	sand			silt	clay	

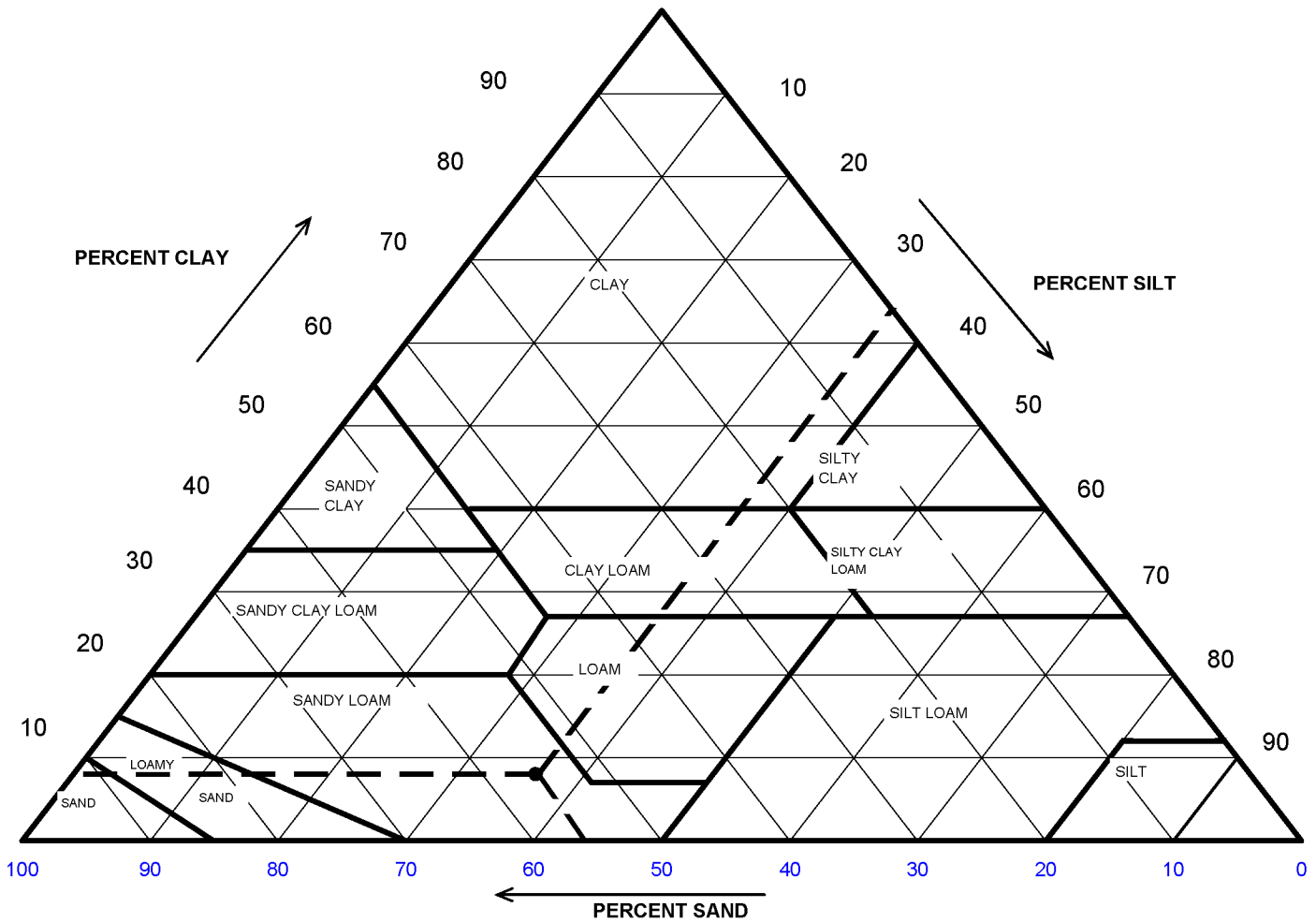


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	37.93
Finer Than #200	<i>Silt & Clay</i>	62.07
USCS Symbol <i>ML, TESTED</i> <i>(NON-PLASTIC FINES)</i>		
USCS Classification <i>SANDY SILT</i>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-022

Boring No. R-6-1b
 Depth (ft) 164.6-165.1
 Sample No. ST-5
 Soil Color Greenish Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		Gravel	0.04	0.00
2	99.96	Sand	55.81	55.84
0.05	44.14	Silt	36.17	36.18
0.002	7.97	Clay	7.97	7.98
USDA Classification:		SANDY LOAM		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-022

Boring No. R-6-1b
 Depth (ft) 164.6-165.1
 Sample No. ST-5
 Soil Color **Greenish Gray**

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	17	Air Dried - #10 Hydrometer Material (g)	84.41
Wgt. Tare + Wet Soil (g)	40.18	Corrected Dry Wt. of - #10 Material (g)	82.87
Wgt. Tare + Dry Soil (g)	39.60		
Weight of Tare (g)	8.49	Weight of - #200 Material (g)	51.46
Weight of Water (g)	0.58	Weight of - #10 ; + #200 Material (g)	31.41
Weight of Dry Soil (g)	31.11		
Moisture Content (%)	1.9	J-FACTOR (%FINER THAN #10)	0.9996
Soil Specimen Data			
Tare No.	967		
Wgt. Tare + Air Dry Soil (g)	378.25		
Weight of Tare (g)	101.77		
Air Dried Wgt. Total Sample (g)	276.48	Dry Weight of Material Retained on #10 (g)	0.12
Total Dry Sample Weight (g)	271.42	Corrected Dry Sample Wt - #10 (g)	271.30

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.12	0.0	0.0	100.0	100.0
#20	0.85	0.02	0.0	0.0	100.0	99.9
#40	0.425	0.02	0.0	0.0	100.0	99.9
#60	0.250	0.03	0.0	0.1	99.9	99.9
#140	0.106	3.66	4.4	4.5	95.5	95.5
#200	0.075	27.68	33.4	37.9	62.1	62.1
Pan	-	51.46	62.1	100.0	-	-

Notes :

Tested By PC Date 11/11/13 Checked By KC Date 11/18/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	164.6-165.1
Project No.	2013-465-001	Sample No.	ST-5
Lab ID	2013-465-001-022	Soil Color	Greenish Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	26.0	21.7	4.93	21.1	25.4	0.01333	0.0327	25.4
5	23.0	21.7	4.93	18.1	21.8	0.01333	0.0211	21.8
15	19.0	21.7	4.93	14.1	16.9	0.01333	0.0125	16.9
30	16.5	21.7	4.93	11.6	13.9	0.01333	0.0090	13.9
60	15.0	21.7	4.93	10.1	12.1	0.01333	0.0064	12.1
250	12.5	21.7	4.93	7.6	9.1	0.01333	0.0032	9.1
1440	10.5	22.4	4.71	5.8	7.0	0.01322	0.0013	7.0

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	82.87	Hygroscopic Moisture Factor	0.982
Weight of Deflocculant (g)	5.0	a - Factor	0.998
		Percent Finer than # 10	99.96
		Specific Gravity	2.66 Measured

Notes:

Tested By **TO** Date **11/12/13** Checked By **KC** Date **11/18/13**

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	164.6-165.1
Project No.	2013-465-001	Sample No.	ST-5
Lab ID #	2013-465-001-022		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1395	6/4/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	G009	9/13/14
3/8" Sieve	G1251	9/13/14
#4 Sieve	G802	9/16/14
#10 Sieve	G894	8/9/14
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	164.6-165.1
Project No.	2013-465-001	Sample No.	ST-5
Lab ID #	2013-465-001-022		

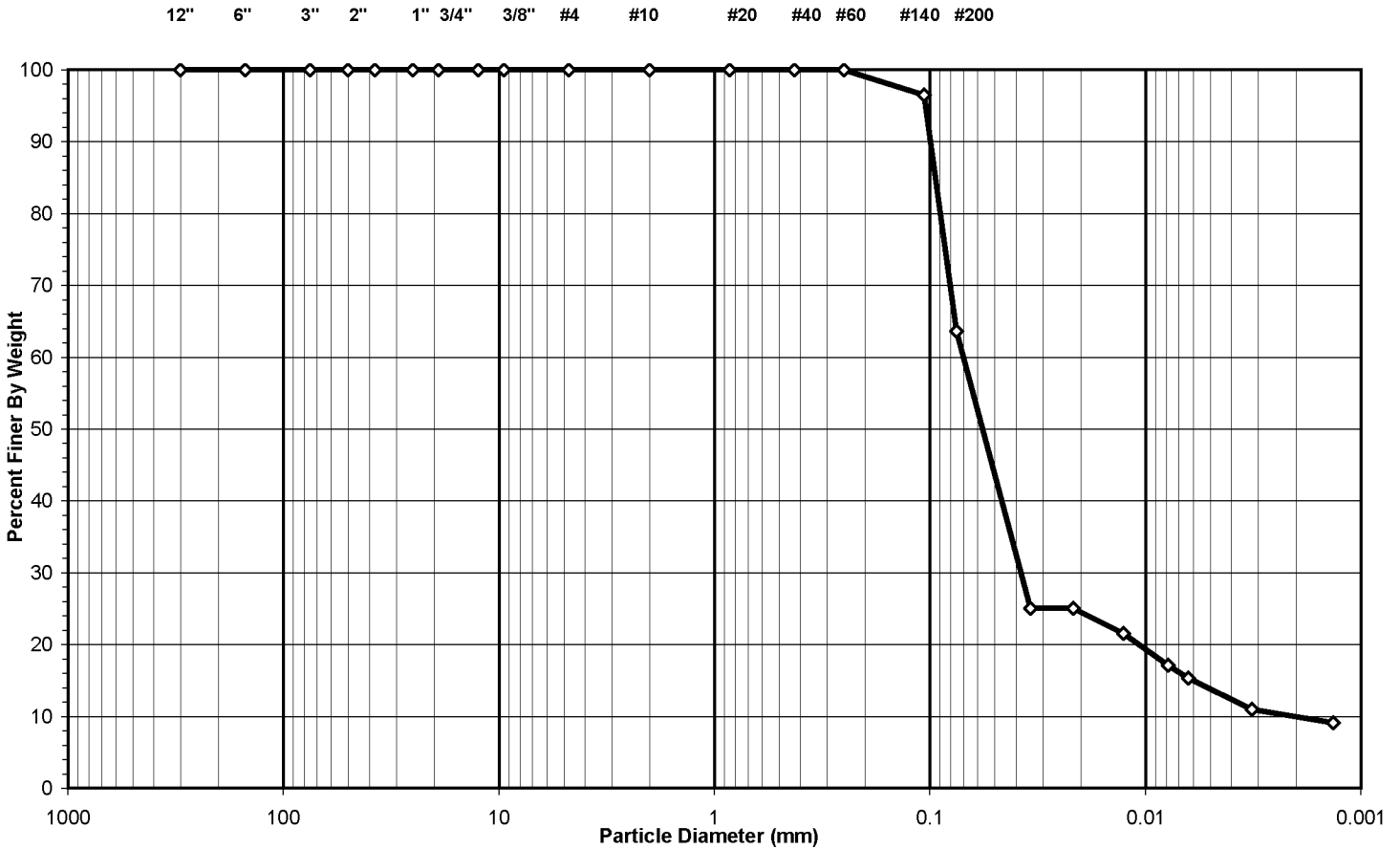
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G198	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1497	12/13/13
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	12/11/13
#200 Sieve	G1386	10/24/14
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-023

Boring No. R-6-1b
 Depth (ft) 179.2-179.7
 Sample No. ST-9
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobbles	gravel	sand			silt and clay fraction		
	cobbles	gravel	sand			silt	clay	

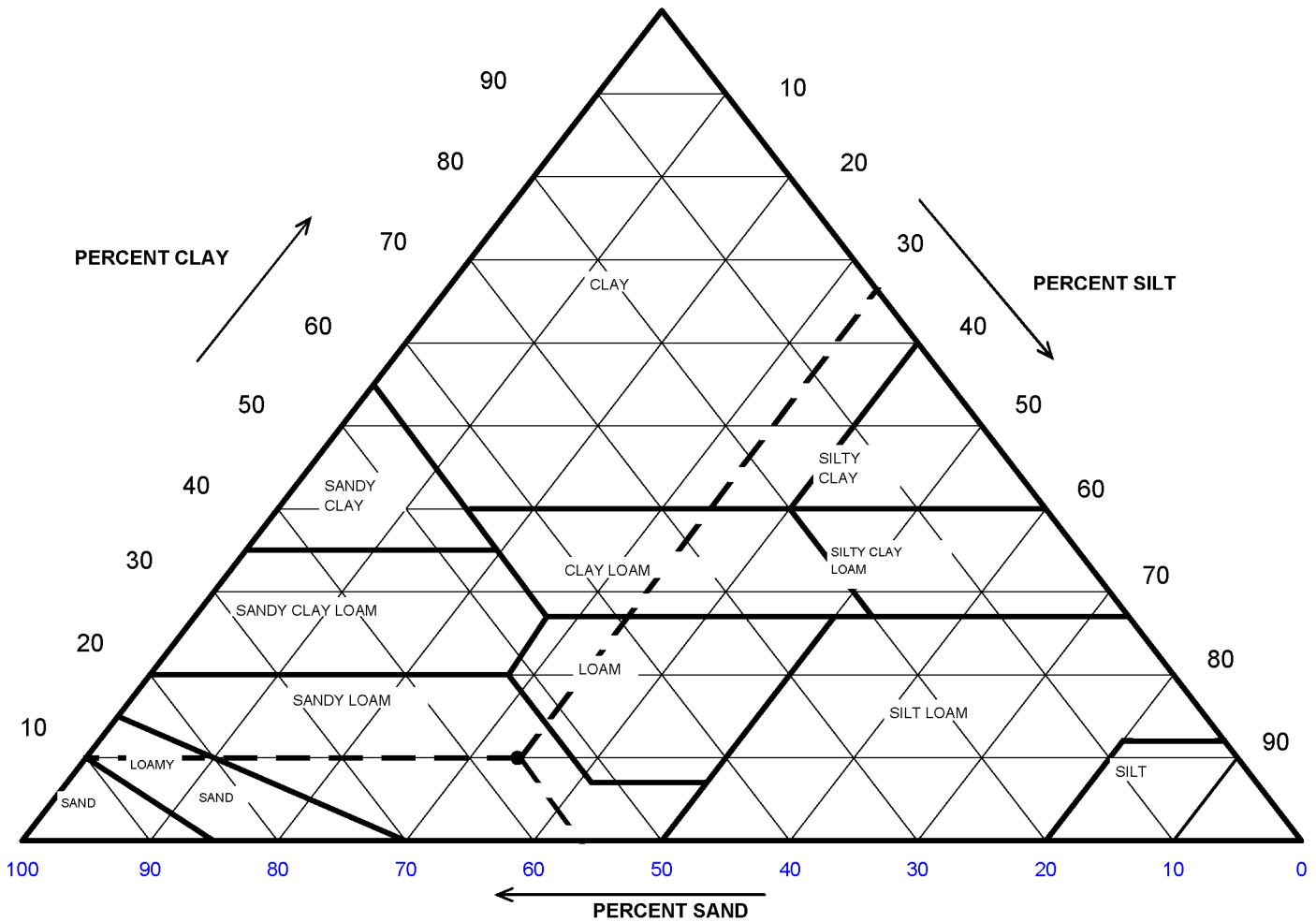


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	36.39
Finer Than #200	<i>Silt & Clay</i>	63.61
USCS Symbol <i>ML, TESTED</i> <i>(NON-PLASTIC FINES)</i>		
USCS Classification <i>SANDY SILT</i>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-023

Boring No. R-6-1b
 Depth (ft) 179.2-179.7
 Sample No. ST-9
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	56.26	56.26
0.05	43.74	<i>Silt</i>	33.78	33.78
0.002	9.96	<i>Clay</i>	9.96	9.96
		USDA Classification:	SANDY LOAM	

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-023

Boring No. R-6-1b
 Depth (ft) 179.2-179.7
 Sample No. ST-9
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	65	Air Dried - #10 Hydrometer Material (g)	58.22
Wgt. Tare + Wet Soil (g)	25.44	Corrected Dry Wt. of - #10 Material (g)	56.61
Wgt. Tare + Dry Soil (g)	24.98		
Weight of Tare (g)	8.76	Weight of - #200 Material (g)	36.01
Weight of Water (g)	0.46	Weight of - #10 ; + #200 Material (g)	20.60
Weight of Dry Soil (g)	16.22		
Moisture Content (%)	2.8	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	664		
Wgt. Tare + Air Dry Soil (g)	490.38		
Weight of Tare (g)	96.19		
Air Dried Wgt. Total Sample (g)	394.19	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	383.32	Corrected Dry Sample Wt - #10 (g)	383.32

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.00	0.0	0.0	100.0	100.0
#40	0.425	0.00	0.0	0.0	100.0	100.0
#60	0.250	0.00	0.0	0.0	100.0	100.0
#140	0.106	1.96	3.5	3.5	96.5	96.5
#200	0.075	18.64	32.9	36.4	63.6	63.6
Pan	-	36.01	63.6	100.0	-	-

Notes :

Tested By TO Date 11/12/13 Checked By KC Date 11/20/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	179.2-179.7
Project No.	2013-465-001	Sample No.	ST-9
Lab ID	2013-465-001-023	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	19.0	22.1	4.80	14.2	25.1	0.01331	0.0342	25.1
5	19.0	22.1	4.80	14.2	25.1	0.01331	0.0216	25.1
15	17.0	22.1	4.80	12.2	21.5	0.01331	0.0126	21.5
40	14.5	22.1	4.80	9.7	17.1	0.01331	0.0079	17.1
63	13.5	22	4.83	8.7	15.3	0.01332	0.0063	15.3
250	11.0	22.1	4.80	6.2	10.9	0.01331	0.0032	10.9
1440	10.0	22	4.83	5.2	9.1	0.01332	0.0013	9.1

Soil Specimen Data	Other Corrections
Wgt. of Dry Material (g)	Hygroscopic Moisture Factor
56.61	0.972
Weight of Deflocculant (g)	a - Factor
5.0	1
	Percent Finer than # 10
	100.00
	Specific Gravity
	2.65 Measured

Notes:

Tested By TO Date 11/14/13 Checked By KC Date 11/20/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	179.2-179.7
Project No.	2013-465-001	Sample No.	ST-9
Lab ID #	2013-465-001-023		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	G1395	6/4/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	179.2-179.7
Project No.	2013-465-001	Sample No.	ST-9
Lab ID #	2013-465-001-023		

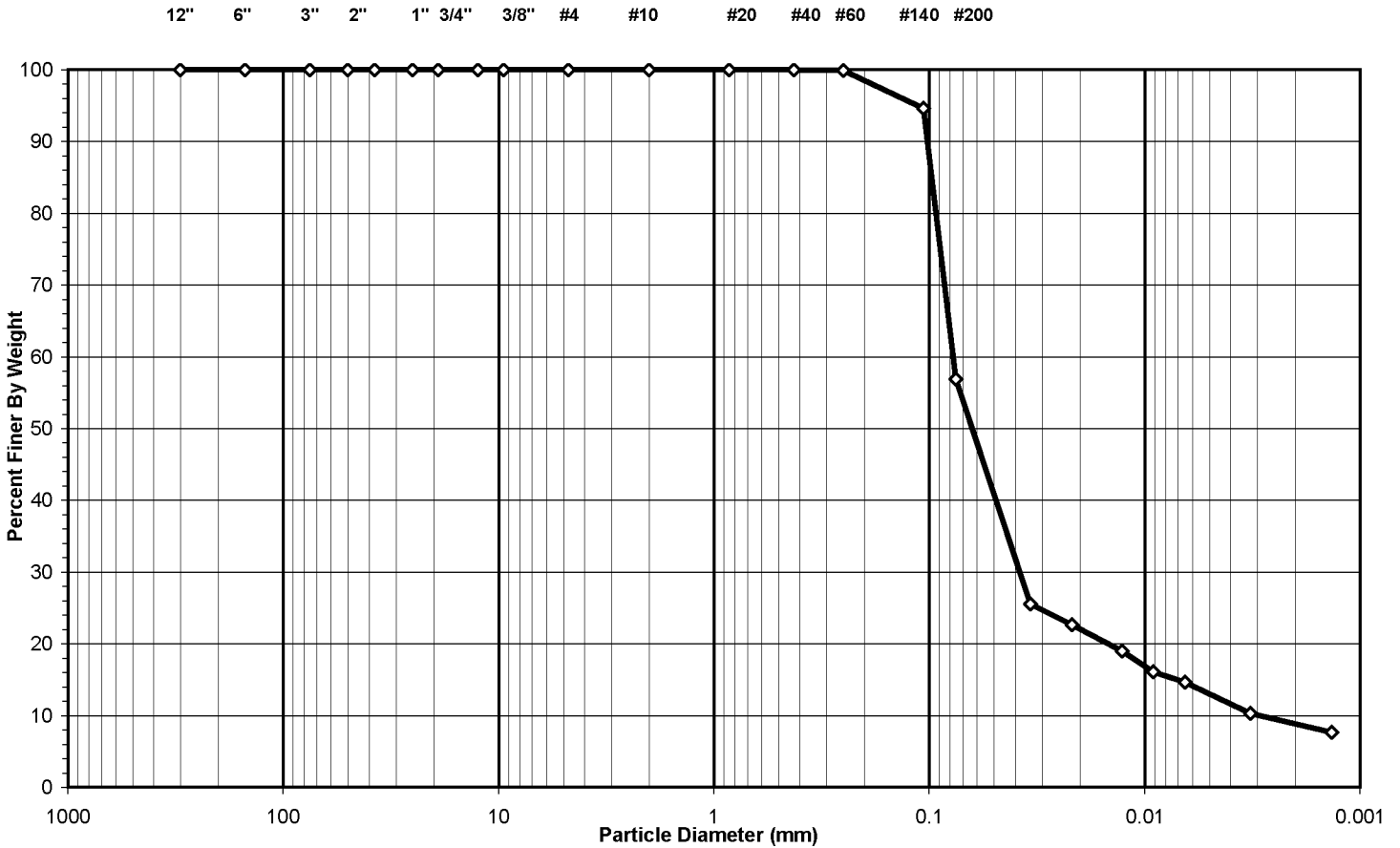
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G198	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1497	12/13/13
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	12/11/13
#200 Sieve	G1386	10/24/14
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-024

Boring No. R-6-1b
 Depth (ft) 186.3-186.8
 Sample No. ST-11
 Soil Color Greenish Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel		sand		silt and clay fraction		
	cobble	gravel		sand		silt	clay	

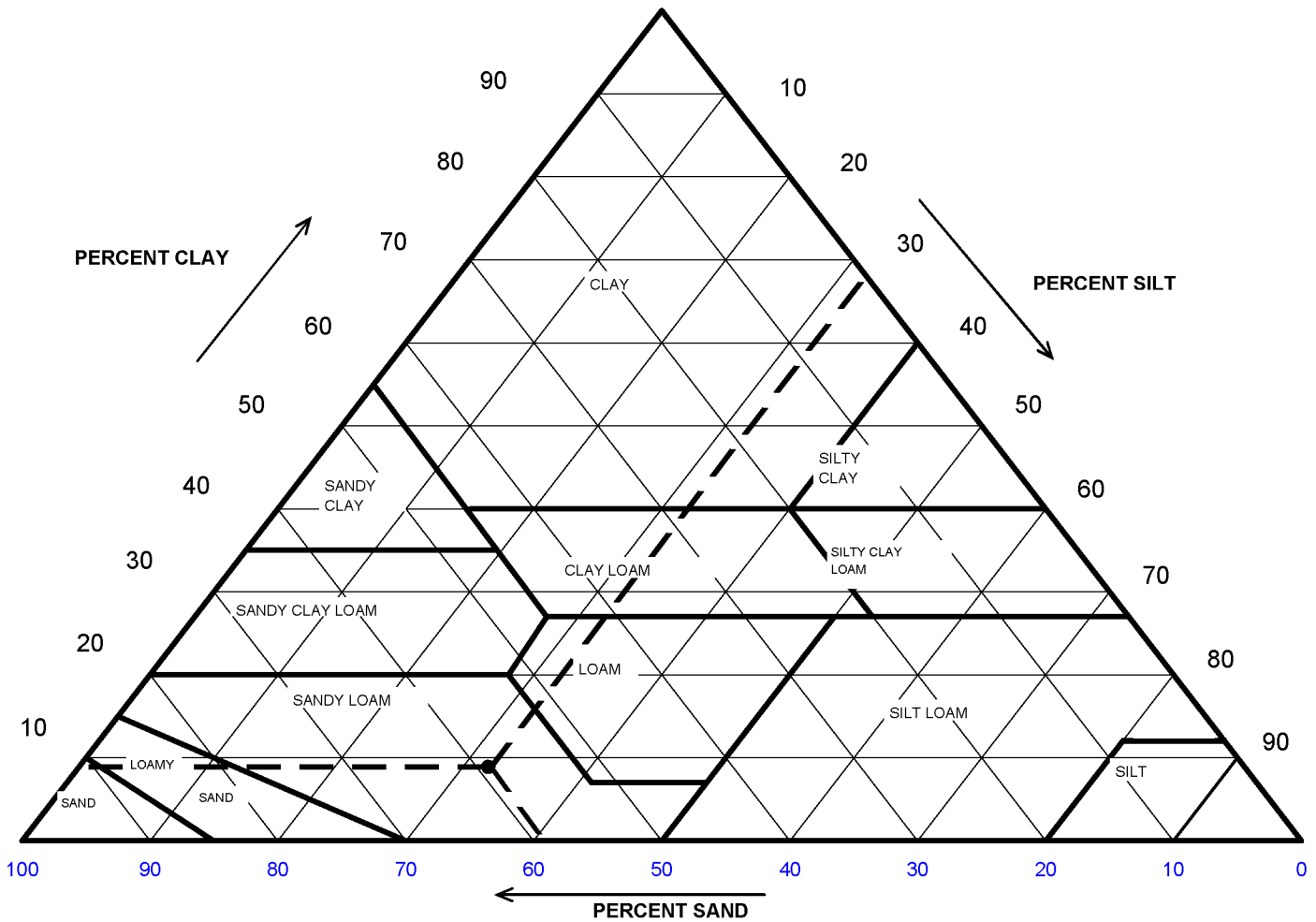


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	43.06
Finer Than #200	<i>Silt & Clay</i>	56.94
USCS Symbol <i>ML, TESTED</i> <i>(NON-PLASTIC FINES)</i>		
USCS Classification <i>SANDY SILT</i>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-024

Boring No. R-6-1b
 Depth (ft) 186.3-186.8
 Sample No. ST-11
 Soil Color Greenish Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	59.08	59.08
0.05	40.92	<i>Silt</i>	32.06	32.06
0.002	8.86	<i>Clay</i>	8.86	8.86
USDA Classification:		SANDY LOAM		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-024

Boring No. R-6-1b
 Depth (ft) 186.3-186.8
 Sample No. ST-11
 Soil Color **Greenish Gray**

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	25	Air Dried - #10 Hydrometer Material (g)	70.87
Wgt. Tare + Wet Soil (g)	30.14	Corrected Dry Wt. of - #10 Material (g)	69.18
Wgt. Tare + Dry Soil (g)	29.62		
Weight of Tare (g)	8.31	Weight of - #200 Material (g)	39.39
Weight of Water (g)	0.52	Weight of - #10 ; + #200 Material (g)	29.79
Weight of Dry Soil (g)	21.31		
Moisture Content (%)	2.4	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	1923		
Wgt. Tare + Air Dry Soil (g)	347.93		
Weight of Tare (g)	95.63		
Air Dried Wgt. Total Sample (g)	252.30	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	246.29	Corrected Dry Sample Wt - #10 (g)	246.29

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.00	0.0	0.0	100.0	100.0
#40	0.425	0.00	0.0	0.0	100.0	100.0
#60	0.250	0.04	0.1	0.1	99.9	99.9
#140	0.106	3.68	5.3	5.4	94.6	94.6
#200	0.075	26.07	37.7	43.1	56.9	56.9
Pan	-	39.39	56.9	100.0	-	-

Notes :

Tested By TO Date 11/11/13 Checked By KC Date 11/18/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-024

Boring No. R-6-1b
 Depth (ft) 186.3-186.8
 Sample No. ST-11
 Soil Color **Greenish Gray**

Elapsed Time (min)	R Measured	Temp. (°C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	22.5	21.7	4.93	17.6	25.6	0.01349	0.0339	25.6
5	20.5	21.7	4.93	15.6	22.6	0.01349	0.0217	22.6
15	18.0	21.7	4.93	13.1	19.0	0.01349	0.0127	19.0
30	16.0	21.7	4.93	11.1	16.1	0.01349	0.0091	16.1
60	15.0	21.7	4.93	10.1	14.6	0.01349	0.0065	14.6
250	12.0	21.7	4.93	7.1	10.3	0.01349	0.0032	10.3
1440	10.0	22.4	4.71	5.3	7.7	0.01338	0.0014	7.7

Soil Specimen Data		Other Corrections	
Wgt. of Dry Material (g)	69.18	Hygroscopic Moisture Factor	0.976
Weight of Deflocculant (g)	5.0	a - Factor	1.006
		Percent Finer than # 10	100.00
		Specific Gravity	2.62 Measured

Notes:

Tested By TO Date 11/12/13 Checked By KC Date 11/18/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	186.3-186.8
Project No.	2013-465-001	Sample No.	ST-11
Lab ID #	2013-465-001-024		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1395	6/4/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	NA	NA
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	186.3-186.8
Project No.	2013-465-001	Sample No.	ST-11
Lab ID #	2013-465-001-024		

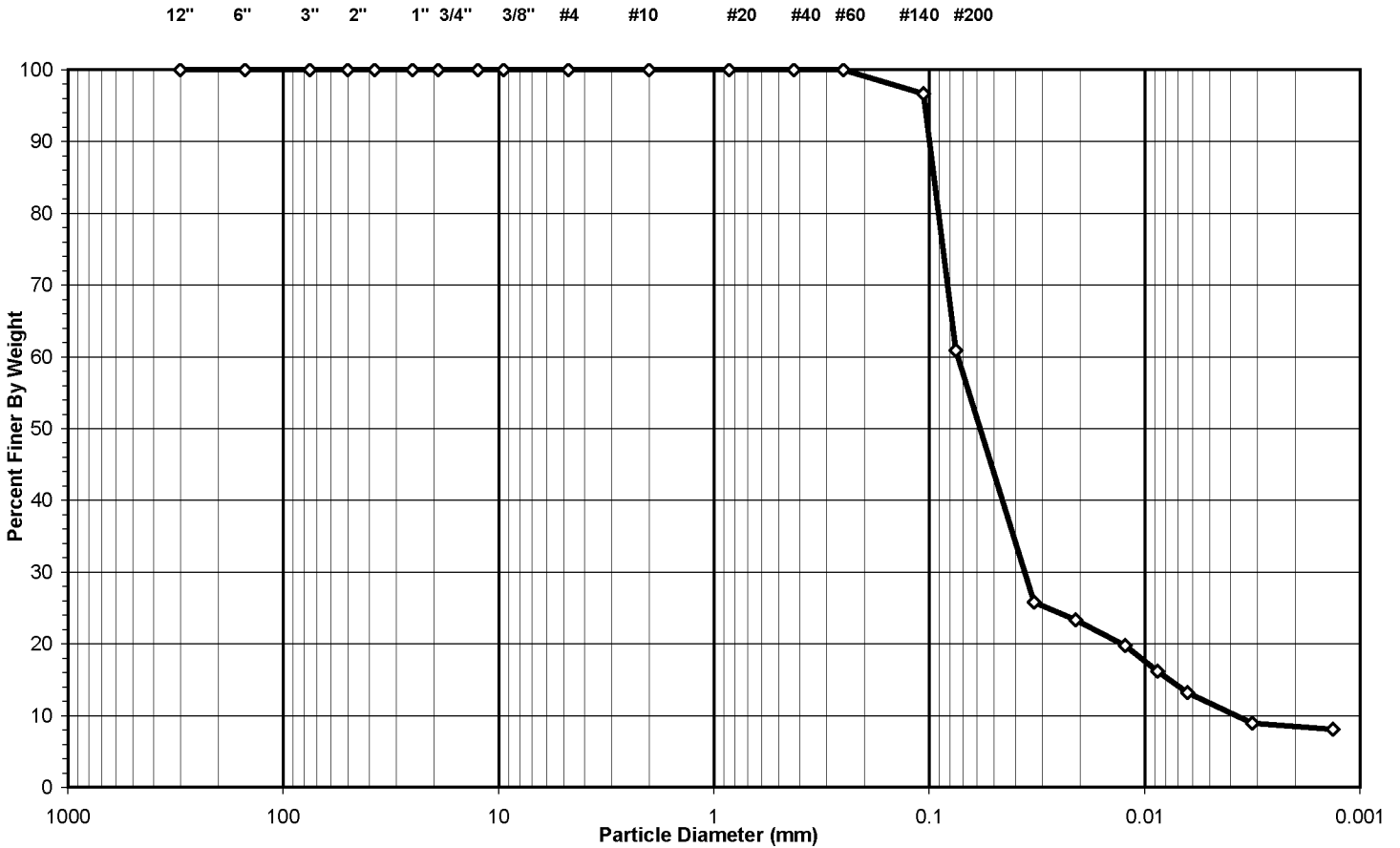
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G371	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1497	12/13/13
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	12/11/13
#200 Sieve	G1386	10/24/14
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-025

Boring No. R-6-1b
 Depth (ft) 194.1-194.6
 Sample No. ST-13
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobbles	gravel	sand			silt and clay fraction		
	cobbles	gravel	sand			silt	clay	

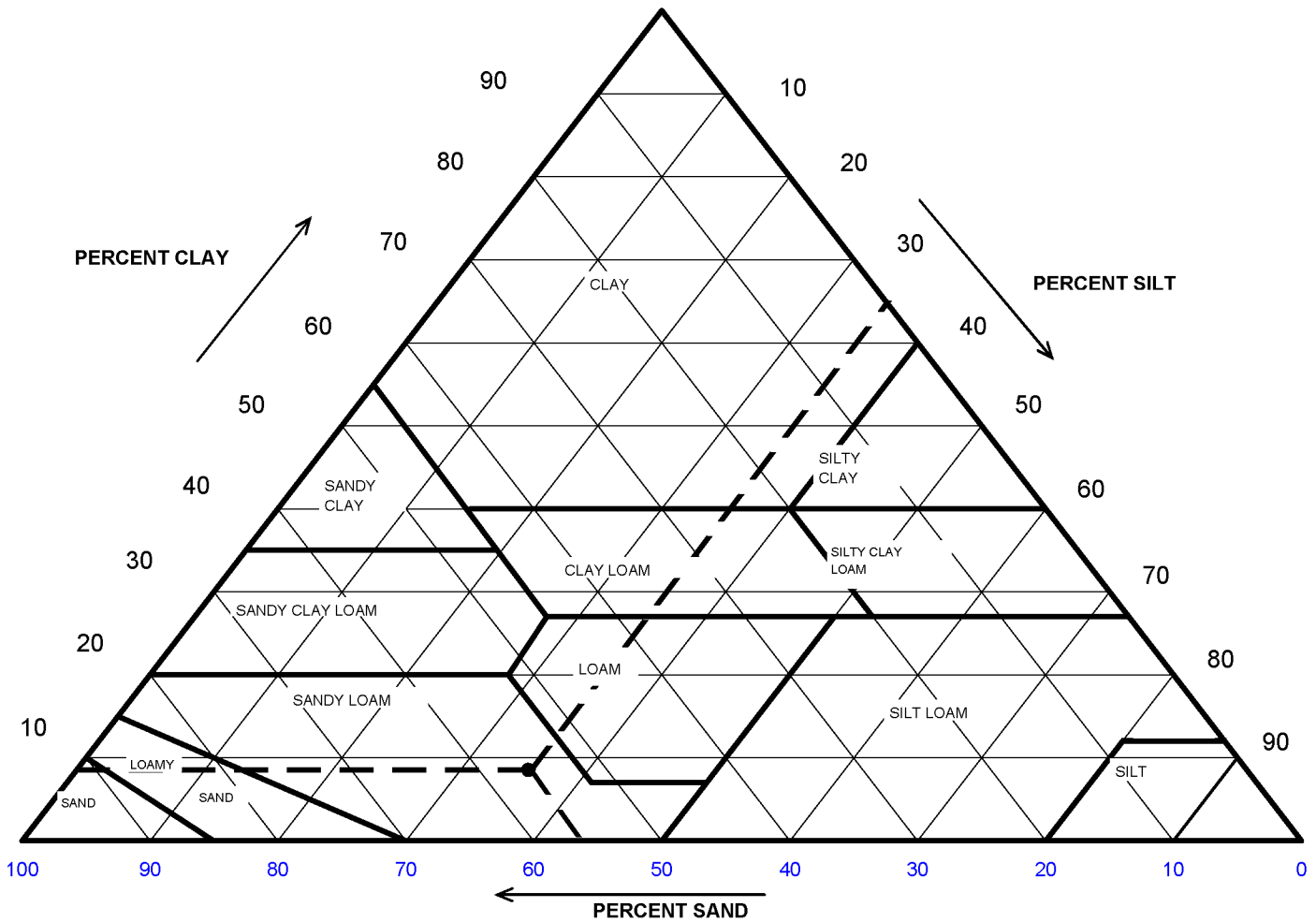


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	39.12
Finer Than #200	<i>Silt & Clay</i>	60.88
USCS Symbol <i>ML, TESTED</i> <i>(NON-PLASTIC FINES)</i>		
USCS Classification <i>SANDY SILT</i>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-025

Boring No. R-6-1b
 Depth (ft) 194.1-194.6
 Sample No. ST-13
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	56.14	56.14
0.05	43.86	<i>Silt</i>	35.36	35.36
0.002	8.50	<i>Clay</i>	8.50	8.50
USDA Classification:		SANDY LOAM		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-025

Boring No. R-6-1b
 Depth (ft) 194.1-194.6
 Sample No. ST-13
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	18	Air Dried - #10 Hydrometer Material (g)	85.11
Wgt. Tare + Wet Soil (g)	33.52	Corrected Dry Wt. of - #10 Material (g)	83.09
Wgt. Tare + Dry Soil (g)	32.93		
Weight of Tare (g)	8.70	Weight of - #200 Material (g)	50.59
Weight of Water (g)	0.59	Weight of - #10 ; + #200 Material (g)	32.50
Weight of Dry Soil (g)	24.23		
Moisture Content (%)	2.4	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	59		
Wgt. Tare + Air Dry Soil (g)	721.92		
Weight of Tare (g)	200.72		
Air Dried Wgt. Total Sample (g)	521.20	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	508.81	Corrected Dry Sample Wt - #10 (g)	508.81

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.00	0.0	0.0	100.0	100.0
#40	0.425	0.00	0.0	0.0	100.0	100.0
#60	0.250	0.02	0.0	0.0	100.0	100.0
#140	0.106	2.71	3.3	3.3	96.7	96.7
#200	0.075	29.77	35.8	39.1	60.9	60.9
Pan	-	50.59	60.9	100.0	-	-

Notes :

Tested By TO Date 11/12/13 Checked By JAM Date 11/21/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	194.1-194.6
Project No.	2013-465-001	Sample No.	ST-13
Lab ID	2013-465-001-025	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	26.0	22.7	4.61	21.4	25.8	0.01325	0.0325	25.8
5	24.0	22.7	4.61	19.4	23.4	0.01325	0.0208	23.4
15	21.0	22.7	4.61	16.4	19.8	0.01325	0.0123	19.8
31	18.0	22.7	4.61	13.4	16.1	0.01325	0.0087	16.1
60	15.5	22.9	4.55	10.9	13.2	0.01322	0.0063	13.2
250	12.0	22.9	4.55	7.4	9.0	0.01322	0.0032	9.0
1440	11.5	22.1	4.80	6.7	8.1	0.01335	0.0013	8.1

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	83.09	Hygroscopic Moisture Factor	0.976
Weight of Deflocculant (g)	5.0	a - Factor	1.002
		Percent Finer than # 10	100.00
		Specific Gravity	2.64 Measured

Notes:

Tested By **TO** Date **11/18/13** Checked By **JAM** Date **11/21/13**

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	194.1-194.6
Project No.	2013-465-001	Sample No.	ST-13
Lab ID #	2013-465-001-025		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	G1395	6/4/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	194.1-194.6
Project No.	2013-465-001	Sample No.	ST-13
Lab ID #	2013-465-001-025		

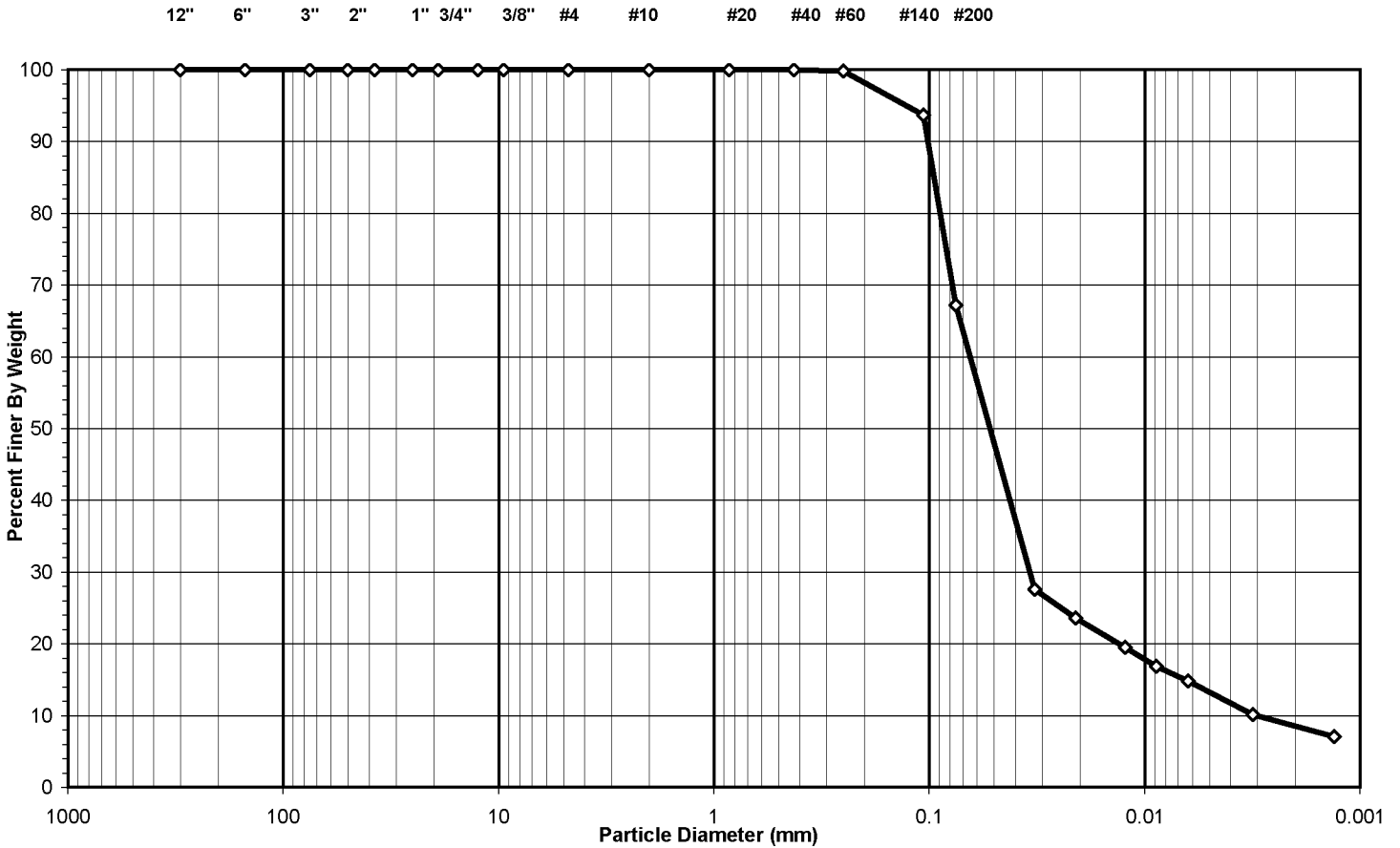
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G357	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1383	8/9/14
#40 Sieve	G1280	1/2/14
#60 Sieve	G1273	1/2/14
#140 Sieve	G1408	12/11/13
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-026

Boring No. R-6-1b
 Depth (ft) 201.6-202.1
 Sample No. ST-15
 Soil Color **Greenish Gray**

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel		sand		silt and clay fraction		
	cobble	gravel		sand		silt	clay	

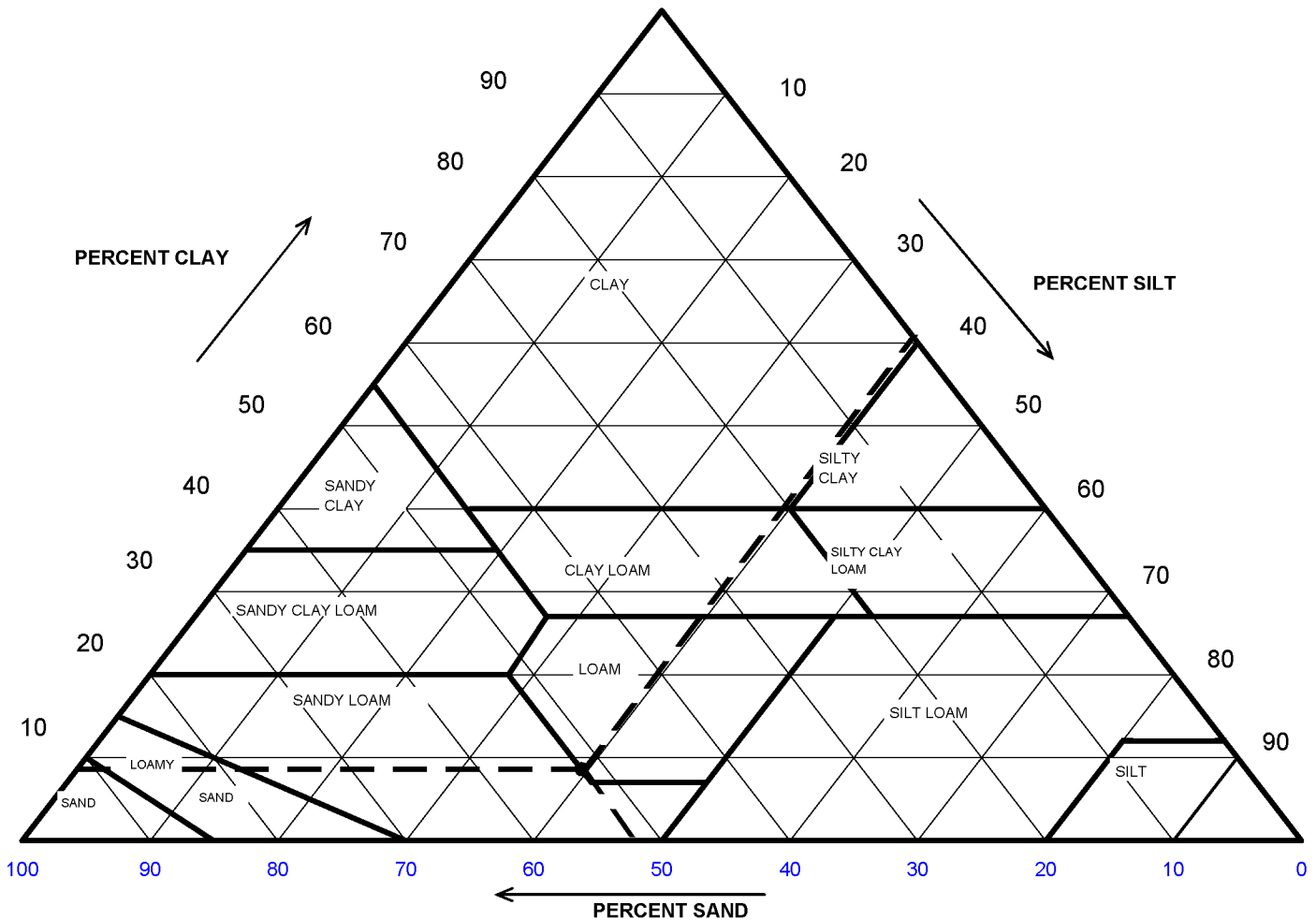


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	32.81
Finer Than #200	<i>Silt & Clay</i>	67.19
USCS Symbol <i>ML, TESTED</i> <i>(NON-PLASTIC FINES)</i>		
USCS Classification <i>SANDY SILT</i>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-026

Boring No. R-6-1b
 Depth (ft) 201.6-202.1
 Sample No. ST-15
 Soil Color Greenish Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	51.96	51.96
0.05	48.04	<i>Silt</i>	39.48	39.48
0.002	8.56	<i>Clay</i>	8.56	8.56
		USDA Classification:	LOAM	

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-026

Boring No. R-6-1b
 Depth (ft) 201.6-202.1
 Sample No. ST-15
 Soil Color **Greenish Gray**

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	21	Air Dried - #10 Hydrometer Material (g)	75.23
Wgt. Tare + Wet Soil (g)	35.54	Corrected Dry Wt. of - #10 Material (g)	73.84
Wgt. Tare + Dry Soil (g)	35.04		
Weight of Tare (g)	8.49	Weight of - #200 Material (g)	49.61
Weight of Water (g)	0.50	Weight of - #10 ; + #200 Material (g)	24.23
Weight of Dry Soil (g)	26.55		
Moisture Content (%)	1.9	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	503		
Wgt. Tare + Air Dry Soil (g)	568.61		
Weight of Tare (g)	94.35		
Air Dried Wgt. Total Sample (g)	474.26	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	465.49	Corrected Dry Sample Wt - #10 (g)	465.49

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.00	0.0	0.0	100.0	100.0
#40	0.425	0.03	0.0	0.0	100.0	100.0
#60	0.250	0.08	0.1	0.1	99.9	99.9
#140	0.106	4.53	6.1	6.3	93.7	93.7
#200	0.075	19.59	26.5	32.8	67.2	67.2
Pan	-	49.61	67.2	100.0	-	-

Notes :

Tested By TO Date 11/12/13 Checked By KC Date 11/18/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-026

Boring No. R-6-1b
 Depth (ft) 201.6-202.1
 Sample No. ST-15
 Soil Color **Greenish Gray**

Elapsed Time (min)	R Measured	Temp. (°C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	25.5	21.7	4.93	20.6	27.6	0.01317	0.0324	27.6
5	22.5	21.7	4.93	17.6	23.6	0.01317	0.0209	23.6
15	19.5	21.7	4.93	14.6	19.5	0.01317	0.0123	19.5
30	17.5	21.7	4.93	12.6	16.9	0.01317	0.0088	16.9
60	16.0	21.7	4.93	11.1	14.8	0.01317	0.0063	14.8
250	12.5	21.7	4.93	7.6	10.2	0.01317	0.0031	10.2
1440	10.0	22.4	4.71	5.3	7.1	0.01307	0.0013	7.1

Soil Specimen Data		Other Corrections	
Wgt. of Dry Material (g)	73.84	Hygroscopic Moisture Factor	0.982
Weight of Deflocculant (g)	5.0	a - Factor	0.99
		Percent Finer than # 10	100.00
		Specific Gravity	2.70 Assumed

Notes:

Tested By TO Date 11/12/13 Checked By KC Date 11/18/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	201.6-202.1
Project No.	2013-465-001	Sample No.	ST-15
Lab ID #	2013-465-001-026		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1395	6/4/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	NA	NA
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	201.6-202.1
Project No.	2013-465-001	Sample No.	ST-15
Lab ID #	2013-465-001-026		

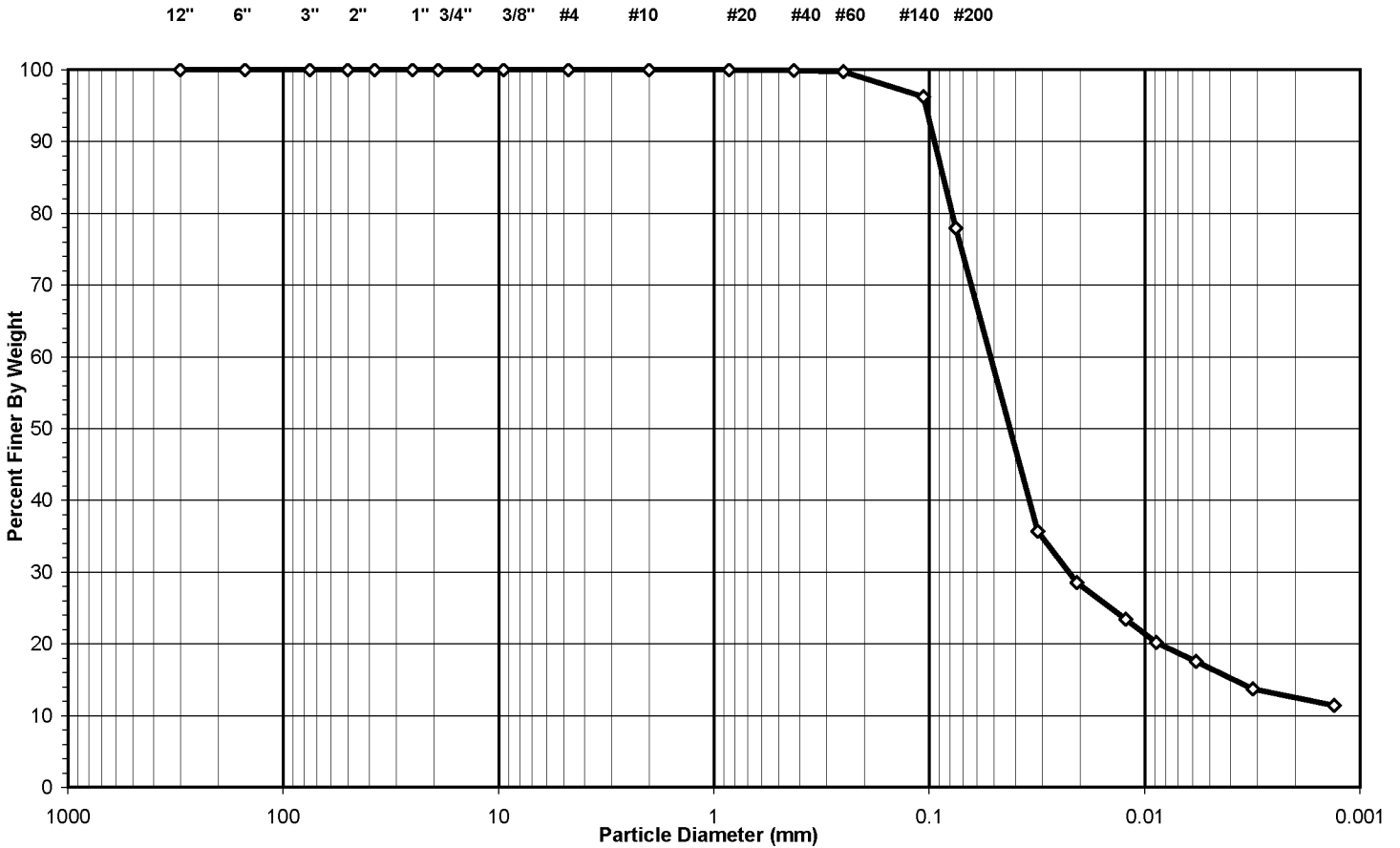
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G358	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1497	12/13/13
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	12/11/13
#200 Sieve	G1386	10/24/14
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-027

Boring No. R-6-1b
 Depth (ft) 208.7-209.2
 Sample No. ST-17
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel	sand			silt and clay fraction		
	cobble	gravel	sand			silt	clay	

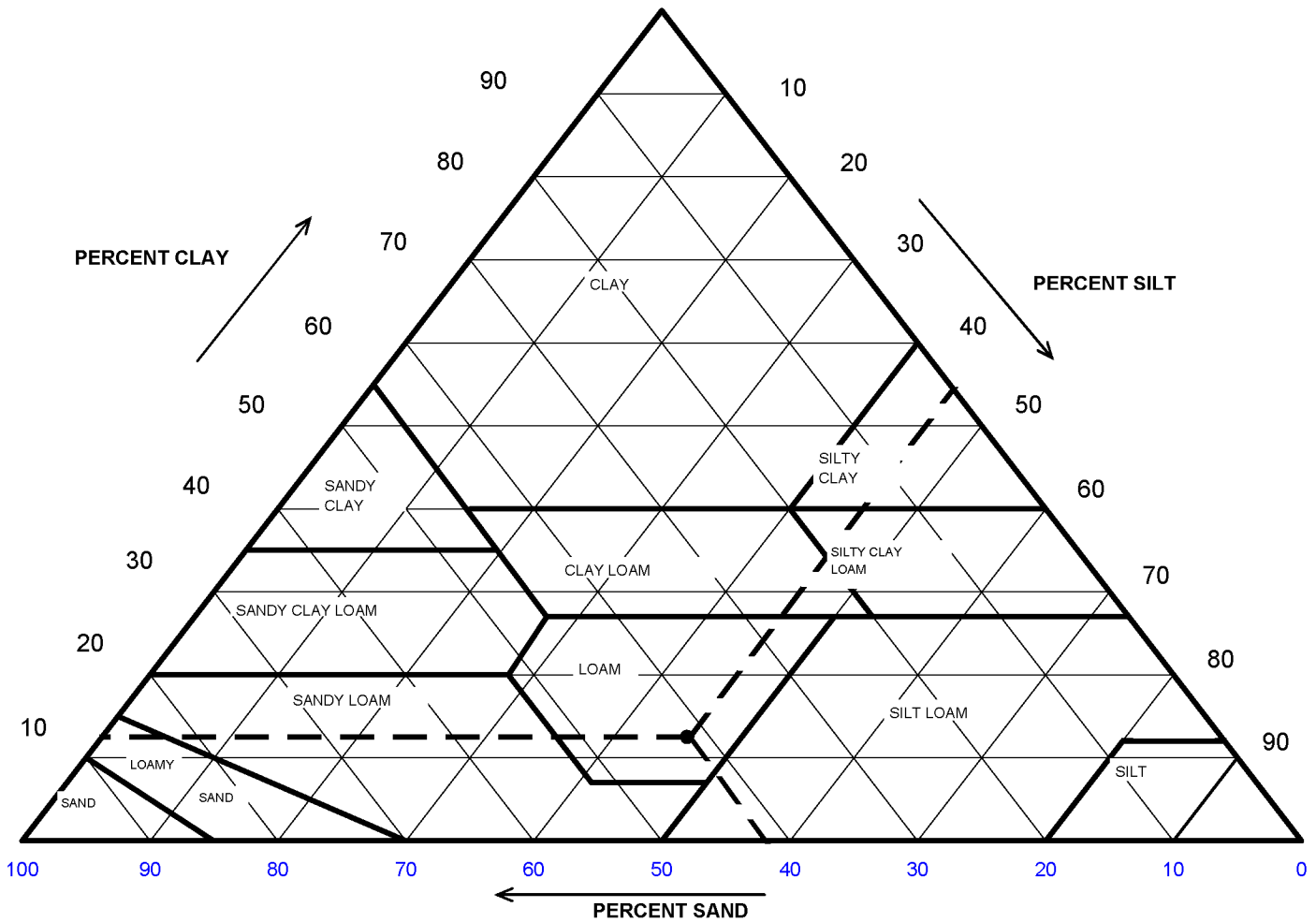


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	22.07
Finer Than #200	<i>Silt & Clay</i>	77.93
<p>USCS Symbol <i>ML, TESTED</i> <i>(NON-PLASTIC FINES)</i></p> <p>USCS Classification <i>SILT WITH SAND</i></p>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-027

Boring No. R-6-1b
 Depth (ft) 208.7-209.2
 Sample No. ST-17
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	41.75	41.75
0.05	58.25	<i>Silt</i>	45.76	45.76
0.002	12.48	<i>Clay</i>	12.48	12.48
USDA Classification:		LOAM		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-027

Boring No. R-6-1b
 Depth (ft) 208.7-209.2
 Sample No. ST-17
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	9	Air Dried - #10 Hydrometer Material (g)	84.40
Wgt. Tare + Wet Soil (g)	44.57	Corrected Dry Wt. of - #10 Material (g)	77.42
Wgt. Tare + Dry Soil (g)	41.57		
Weight of Tare (g)	8.27	Weight of - #200 Material (g)	60.33
Weight of Water (g)	3.00	Weight of - #10 ; + #200 Material (g)	17.09
Weight of Dry Soil (g)	33.30		
Moisture Content (%)	9.0	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	2485		
Wgt. Tare + Air Dry Soil (g)	473.42		
Weight of Tare (g)	95.76		
Air Dried Wgt. Total Sample (g)	377.66	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	346.45	Corrected Dry Sample Wt - #10 (g)	346.45

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.00	0.0	0.0	100.0	100.0
#40	0.425	0.07	0.1	0.1	99.9	99.9
#60	0.250	0.15	0.2	0.3	99.7	99.7
#140	0.106	2.65	3.4	3.7	96.3	96.3
#200	0.075	14.22	18.4	22.1	77.9	77.9
Pan	-	60.33	77.9	100.0	-	-

Notes :

Tested By TO Date 11/12/13 Checked By KC Date 11/18/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	208.7-209.2
Project No.	2013-465-001	Sample No.	ST-17
Lab ID	2013-465-001-027	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	32.5	21.7	4.93	27.6	35.7	0.01341	0.0314	35.7
5	27.0	21.7	4.93	22.1	28.6	0.01341	0.0207	28.6
15	23.0	21.7	4.93	18.1	23.4	0.01341	0.0123	23.4
30	20.5	21.7	4.93	15.6	20.2	0.01341	0.0088	20.2
72	18.5	21.7	4.93	13.6	17.6	0.01341	0.0058	17.6
250	15.5	21.7	4.93	10.6	13.7	0.01341	0.0031	13.7
1440	13.5	22.4	4.71	8.8	11.4	0.01330	0.0013	11.4

Soil Specimen Data	Other Corrections
Wgt. of Dry Material (g)	77.42
Weight of Deflocculant (g)	5.0
	Hygroscopic Moisture Factor
	0.917
	a - Factor
	1.002
	Percent Finer than # 10
	100.00
	Specific Gravity
	2.64 Measured

Notes:

Tested By TO Date 11/12/13 Checked By KC Date 11/18/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	208.7-209.2
Project No.	2013-465-001	Sample No.	ST-17
Lab ID #	2013-465-001-027		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	NA	NA
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	208.7-209.2
Project No.	2013-465-001	Sample No.	ST-17
Lab ID #	2013-465-001-027		

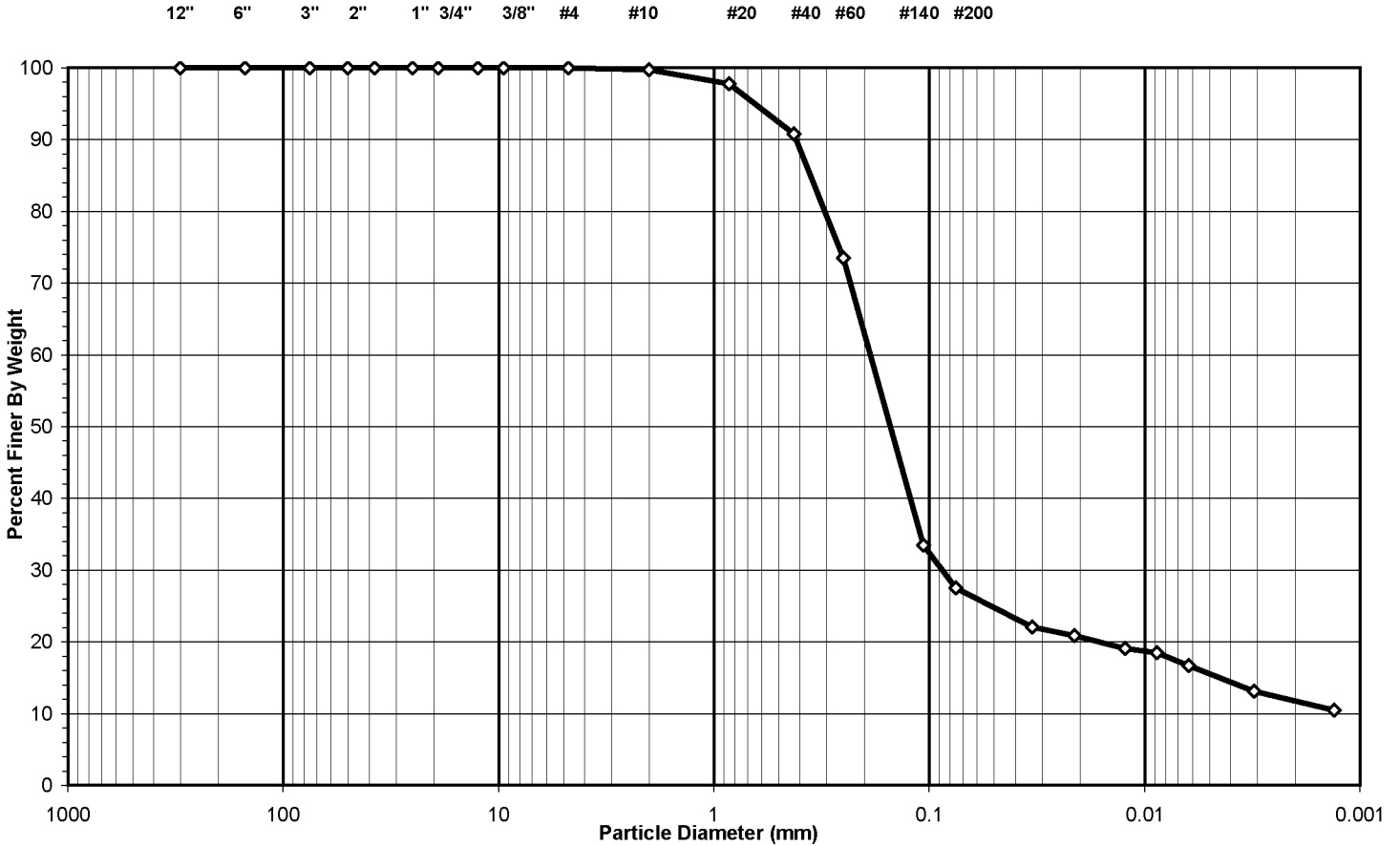
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G202	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1497	12/13/13
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	12/11/13
#200 Sieve	G1386	10/24/14
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-028

Boring No. R-6-1b
 Depth (ft) 225.2-225.7
 Sample No. ST-22
 Soil Color Greenish Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel	sand			silt and clay fraction		
	cobble	gravel	sand			silt	clay	

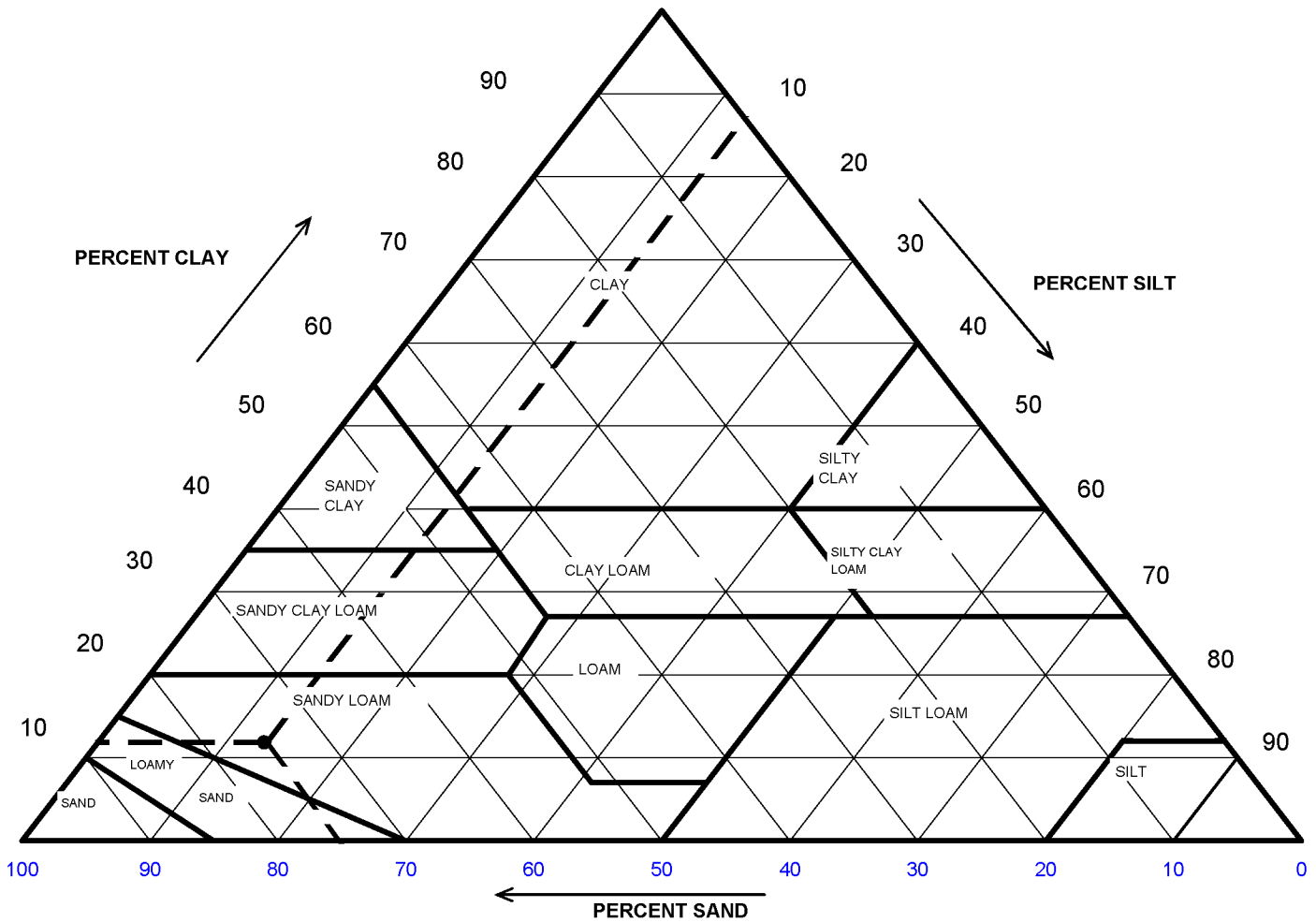


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	72.50
Finer Than #200	<i>Silt & Clay</i>	27.50
USCS Symbol <i>SM, TESTED</i> <i>(NON-PLASTIC FINES)</i>		
USCS Classification <i>SILTY SAND</i>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-028

Boring No. R-6-1b
 Depth (ft) 225.2-225.7
 Sample No. ST-22
 Soil Color Greenish Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.28	0.00
2	99.72	<i>Sand</i>	74.90	75.11
0.05	24.81	<i>Silt</i>	13.05	13.08
0.002	11.77	<i>Clay</i>	11.77	11.80
		USDA Classification:	SANDY LOAM	

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-028

Boring No. R-6-1b
 Depth (ft) 225.2-225.7
 Sample No. ST-22
 Soil Color **Greenish Gray**

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	65	Air Dried - #10 Hydrometer Material (g)	83.45
Wgt. Tare + Wet Soil (g)	32.79	Corrected Dry Wt. of - #10 Material (g)	83.14
Wgt. Tare + Dry Soil (g)	32.70		
Weight of Tare (g)	8.75	Weight of - #200 Material (g)	22.93
Weight of Water (g)	0.09	Weight of - #10 ; + #200 Material (g)	60.21
Weight of Dry Soil (g)	23.95		
Moisture Content (%)	0.4	J-FACTOR (%FINER THAN #10)	0.9972
Soil Specimen Data			
Tare No.	703		
Wgt. Tare + Air Dry Soil (g)	406.83		
Weight of Tare (g)	98.34		
Air Dried Wgt. Total Sample (g)	308.49	Dry Weight of Material Retained on #10 (g)	0.87
Total Dry Sample Weight (g)	307.34	Corrected Dry Sample Wt - #10 (g)	306.47

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.87	0.3	0.3	99.7	99.7
#20	0.85	1.63	2.0	2.0	98.0	97.8
#40	0.425	5.78	7.0	8.9	91.1	90.8
#60	0.250	14.47	17.4	26.3	73.7	73.5
#140	0.106	33.32	40.1	66.4	33.6	33.5
#200	0.075	5.01	6.0	72.4	27.6	27.5
Pan	-	22.93	27.6	100.0	-	-

Notes :

Tested By **PC** Date **11/15/13** Checked By **JAM** Date **11/21/13**

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-028

Boring No. R-6-1b
 Depth (ft) 225.2-225.7
 Sample No. ST-22
 Soil Color **Greenish Gray**

Elapsed Time (min)	R Measured	Temp. (°C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	23.0	22.7	4.61	18.4	22.2	0.01325	0.0332	22.1
5	22.0	22.7	4.61	17.4	21.0	0.01325	0.0211	20.9
15	20.5	22.7	4.61	15.9	19.1	0.01325	0.0123	19.1
30	20.0	22.7	4.61	15.4	18.5	0.01325	0.0087	18.5
60	18.5	22.8	4.58	13.9	16.8	0.01324	0.0062	16.7
250	15.5	22.9	4.55	10.9	13.2	0.01322	0.0031	13.2
1440	13.5	22.1	4.80	8.7	10.5	0.01335	0.0013	10.5

Soil Specimen Data		Other Corrections	
Wgt. of Dry Material (g)	83.14	Hygroscopic Moisture Factor	0.996
Weight of Deflocculant (g)	5.0	a - Factor	1.002
		Percent Finer than # 10	99.72
		Specific Gravity	2.64 Measured

Notes:

Tested By TO Date 11/18/13 Checked By JAM Date 11/21/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	225.2-225.7
Project No.	2013-465-001	Sample No.	ST-22
Lab ID #	2013-465-001-028		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1395	6/4/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	G009	9/13/14
3/8" Sieve	G1251	9/13/14
#4 Sieve	G802	9/16/14
#10 Sieve	G894	8/9/14
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	225.2-225.7
Project No.	2013-465-001	Sample No.	ST-22
Lab ID #	2013-465-001-028		

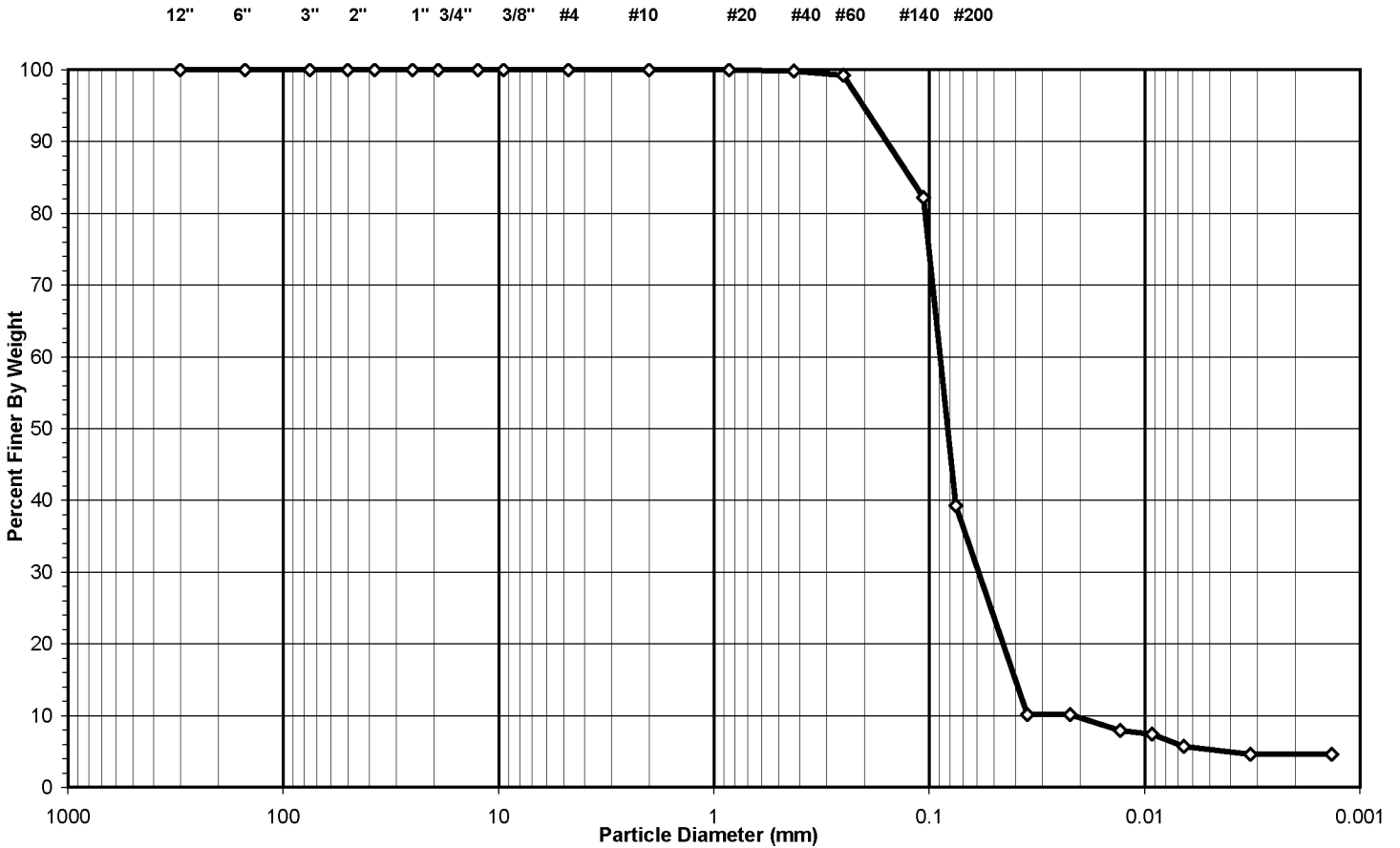
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G1402	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1383	8/9/14
#40 Sieve	G1280	1/2/14
#60 Sieve	G1273	1/2/14
#140 Sieve	G1408	12/11/13
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-029

Boring No. R-6-1b
 Depth (ft) 234.7-235.2
 Sample No. ST-25
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel		sand			silt and clay fraction	
	cobble	gravel		sand			silt	clay

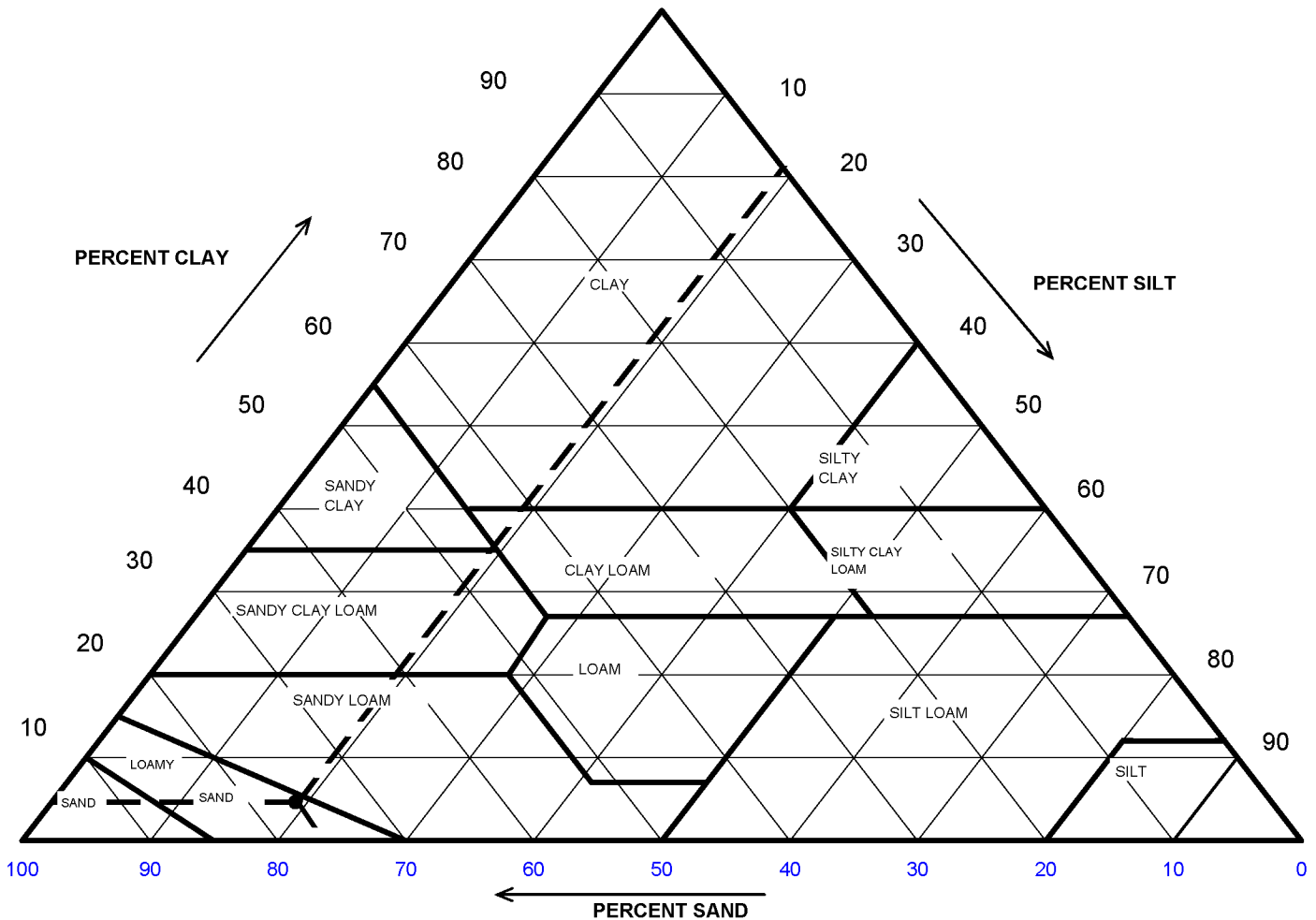


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	60.76
Finer Than #200	<i>Silt & Clay</i>	39.24
USCS Symbol <i>SM, TESTED</i> <i>(NON-PLASTIC FINES)</i>		
USCS Classification <i>SILTY SAND</i>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-029

Boring No. R-6-1b
 Depth (ft) 234.7-235.2
 Sample No. ST-25
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	76.31	76.31
0.05	23.69	<i>Silt</i>	19.09	19.09
0.002	4.60	<i>Clay</i>	4.60	4.60
USDA Classification:		LOAMY SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-029

Boring No. R-6-1b
 Depth (ft) 234.7-235.2
 Sample No. ST-25
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	57	Air Dried - #10 Hydrometer Material (g)	90.97
Wgt. Tare + Wet Soil (g)	34.07	Corrected Dry Wt. of - #10 Material (g)	90.69
Wgt. Tare + Dry Soil (g)	33.99		
Weight of Tare (g)	8.29	Weight of - #200 Material (g)	35.59
Weight of Water (g)	0.08	Weight of - #10 ; + #200 Material (g)	55.10
Weight of Dry Soil (g)	25.70		
Moisture Content (%)	0.3	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	925		
Wgt. Tare + Air Dry Soil (g)	491.71		
Weight of Tare (g)	100.10		
Air Dried Wgt. Total Sample (g)	391.61	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	390.39	Corrected Dry Sample Wt - #10 (g)	390.39

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.00	0.0	0.0	100.0	100.0
#40	0.425	0.12	0.1	0.1	99.9	99.9
#60	0.250	0.57	0.6	0.8	99.2	99.2
#140	0.106	15.48	17.1	17.8	82.2	82.2
#200	0.075	38.93	42.9	60.8	39.2	39.2
Pan	-	35.59	39.2	100.0	-	-

Notes :

Tested By TO Date 11/12/13 Checked By KC Date 11/20/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	234.7-235.2
Project No.	2013-465-001	Sample No.	ST-25
Lab ID	2013-465-001-029	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	14.0	22.1	4.80	9.2	10.1	0.01327	0.0351	10.1
5	14.0	22.1	4.80	9.2	10.1	0.01327	0.0222	10.1
15	12.0	22.1	4.80	7.2	7.9	0.01327	0.0130	7.9
30	11.5	22.1	4.80	6.7	7.4	0.01327	0.0092	7.4
60	10.0	22	4.83	5.2	5.7	0.01328	0.0066	5.7
250	9.0	22.1	4.80	4.2	4.6	0.01327	0.0032	4.6
1440	9.0	22	4.83	4.2	4.6	0.01328	0.0013	4.6

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	90.69	Hygroscopic Moisture Factor	0.997
Weight of Deflocculant (g)	5.0	a - Factor	0.998
		Percent Finer than # 10	100.00
		Specific Gravity	2.66 Measured

Notes:

Tested By **TO** Date **11/14/13** Checked By **KC** Date **11/20/13**

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	234.7-235.2
Project No.	2013-465-001	Sample No.	ST-25
Lab ID #	2013-465-001-029		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	G1395	6/4/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	234.7-235.2
Project No.	2013-465-001	Sample No.	ST-25
Lab ID #	2013-465-001-029		

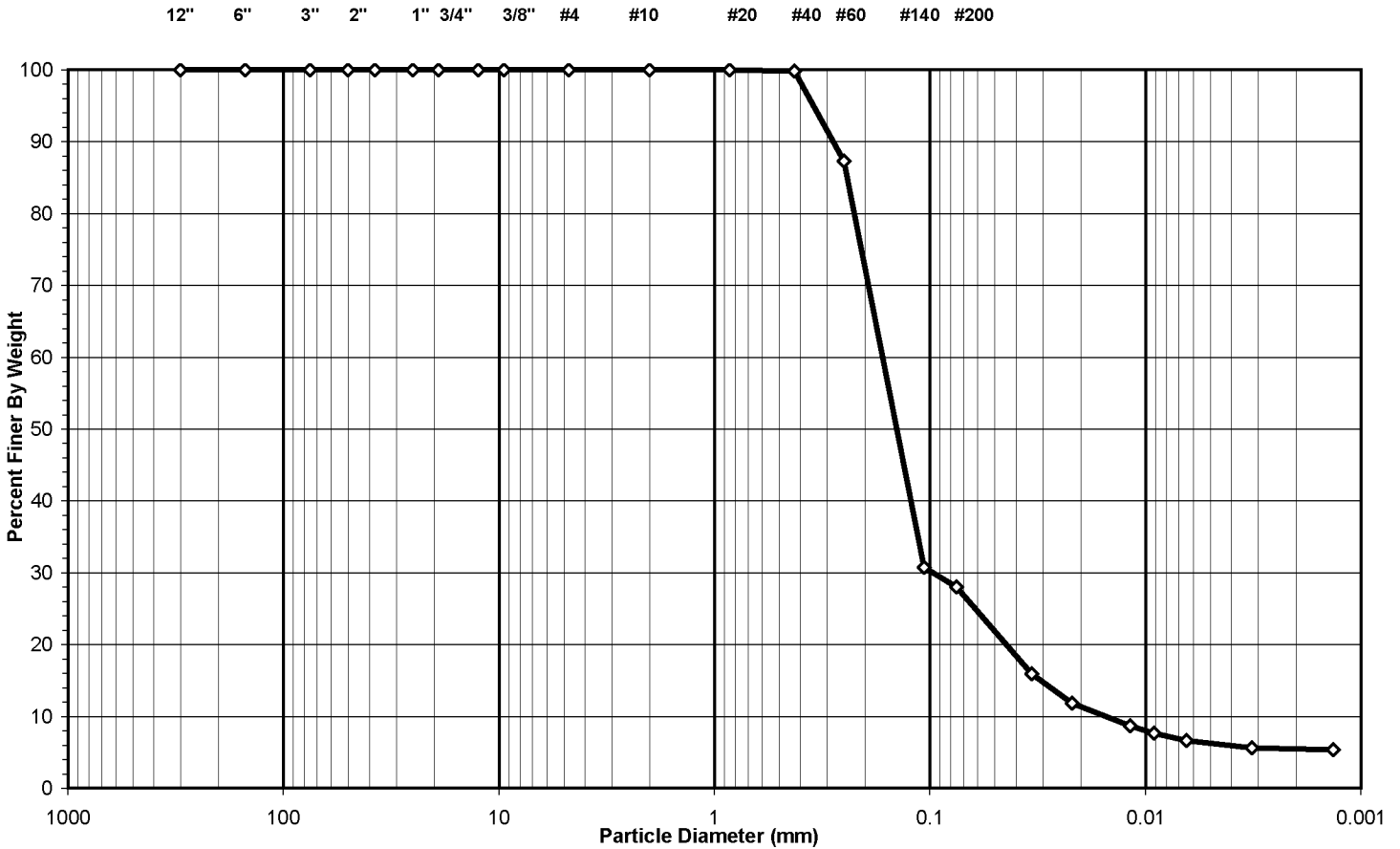
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G202	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1497	12/13/13
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	12/11/13
#200 Sieve	G1386	10/24/14
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-030

Boring No. R-6-1b
 Depth (ft) 252.2-252.7
 Sample No. ST-31
 Soil Color **Greenish Gray**

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel	sand			silt and clay fraction		
	cobble	gravel	sand			silt	clay	

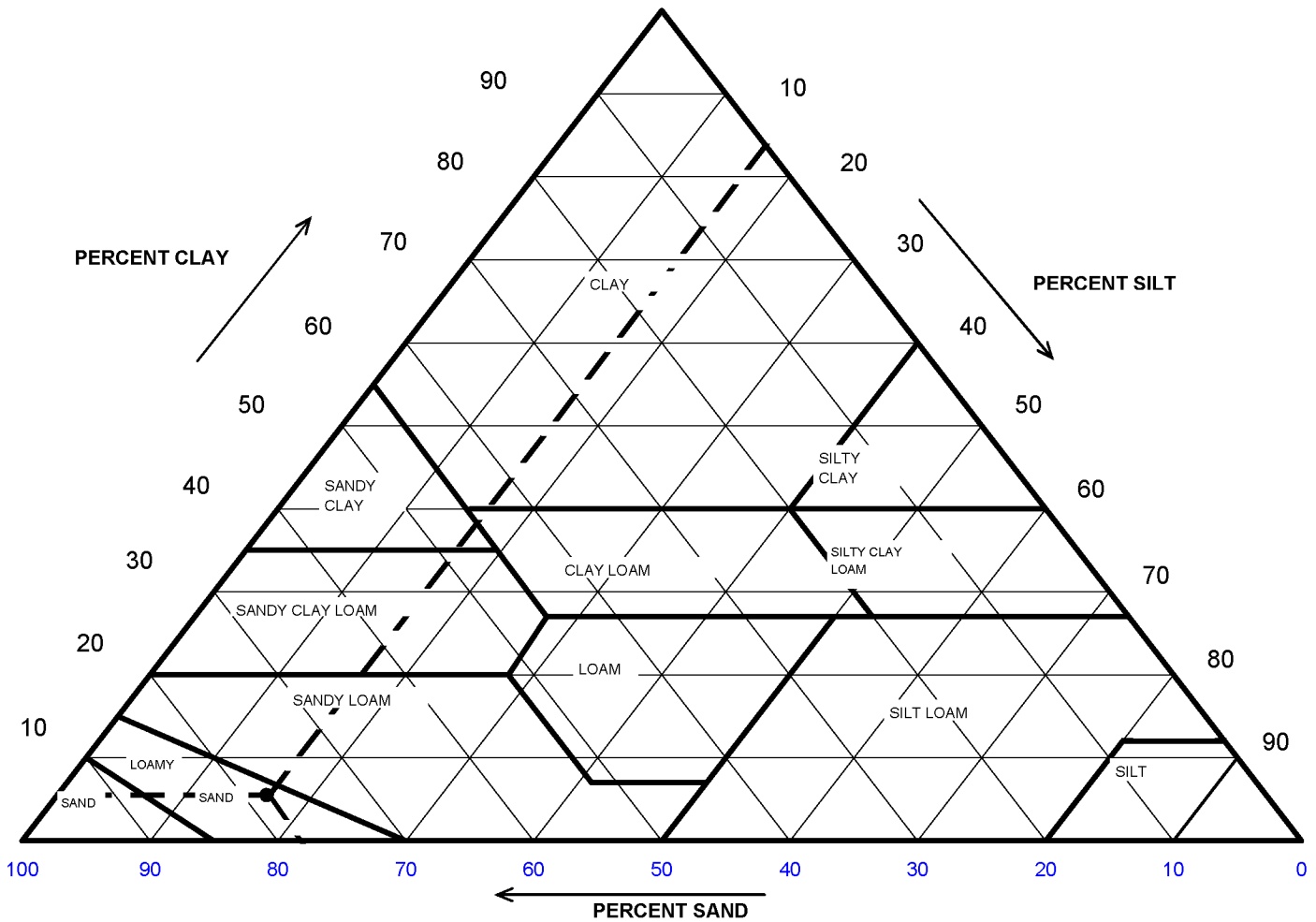


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	71.97
Finer Than #200	<i>Silt & Clay</i>	28.03
USCS Symbol <i>SM, TESTED</i> <i>(NON-PLASTIC FINES)</i>		
USCS Classification <i>SILTY SAND</i>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-030

Boring No. R-6-1b
 Depth (ft) 252.2-252.7
 Sample No. ST-31
 Soil Color Greenish Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	78.10	78.10
0.05	21.90	<i>Silt</i>	16.40	16.40
0.002	5.51	<i>Clay</i>	5.51	5.51
USDA Classification:		LOAMY SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-030

Boring No. R-6-1b
 Depth (ft) 252.2-252.7
 Sample No. ST-31
 Soil Color **Greenish Gray**

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	43	Air Dried - #10 Hydrometer Material (g)	96.66
Wgt. Tare + Wet Soil (g)	36.33	Corrected Dry Wt. of - #10 Material (g)	96.45
Wgt. Tare + Dry Soil (g)	36.27		
Weight of Tare (g)	8.29	Weight of - #200 Material (g)	27.03
Weight of Water (g)	0.06	Weight of - #10 ; + #200 Material (g)	69.42
Weight of Dry Soil (g)	27.98		
Moisture Content (%)	0.2	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	12		
Wgt. Tare + Air Dry Soil (g)	503.01		
Weight of Tare (g)	203.36		
Air Dried Wgt. Total Sample (g)	299.65	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	299.01	Corrected Dry Sample Wt - #10 (g)	299.01

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.00	0.0	0.0	100.0	100.0
#40	0.425	0.18	0.2	0.2	99.8	99.8
#60	0.250	12.03	12.5	12.7	87.3	87.3
#140	0.106	54.60	56.6	69.3	30.7	30.7
#200	0.075	2.61	2.7	72.0	28.0	28.0
Pan	-	27.03	28.0	100.0	-	-

Notes :

Tested By TO Date 11/11/13 Checked By JAM Date 11/21/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-030

Boring No. R-6-1b
 Depth (ft) 252.2-252.7
 Sample No. ST-31
 Soil Color **Greenish Gray**

Elapsed Time (min)	R Measured	Temp. (°C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	20.0	22.7	4.61	15.4	16.0	0.01321	0.0337	16.0
5	16.0	22.7	4.61	11.4	11.8	0.01321	0.0219	11.8
18	13.0	22.7	4.61	8.4	8.7	0.01321	0.0117	8.7
30	12.0	22.7	4.61	7.4	7.7	0.01321	0.0091	7.7
61	11.0	22.8	4.58	6.4	6.7	0.01320	0.0064	6.7
250	10.0	22.9	4.55	5.4	5.6	0.01318	0.0032	5.6
1440	10.0	22.1	4.80	5.2	5.4	0.01331	0.0013	5.4

Soil Specimen Data		Other Corrections	
Wgt. of Dry Material (g)	96.45	Hygroscopic Moisture Factor	0.998
Weight of Deflocculant (g)	5.0	a - Factor	1
		Percent Finer than # 10	100.00
		Specific Gravity	2.65 Measured

Notes:

Tested By TO Date 11/18/13 Checked By JAM Date 11/21/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	252.2-252.7
Project No.	2013-465-001	Sample No.	ST-31
Lab ID #	2013-465-001-030		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1395	6/4/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	NA	NA
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	252.2-252.7
Project No.	2013-465-001	Sample No.	ST-31
Lab ID #	2013-465-001-030		

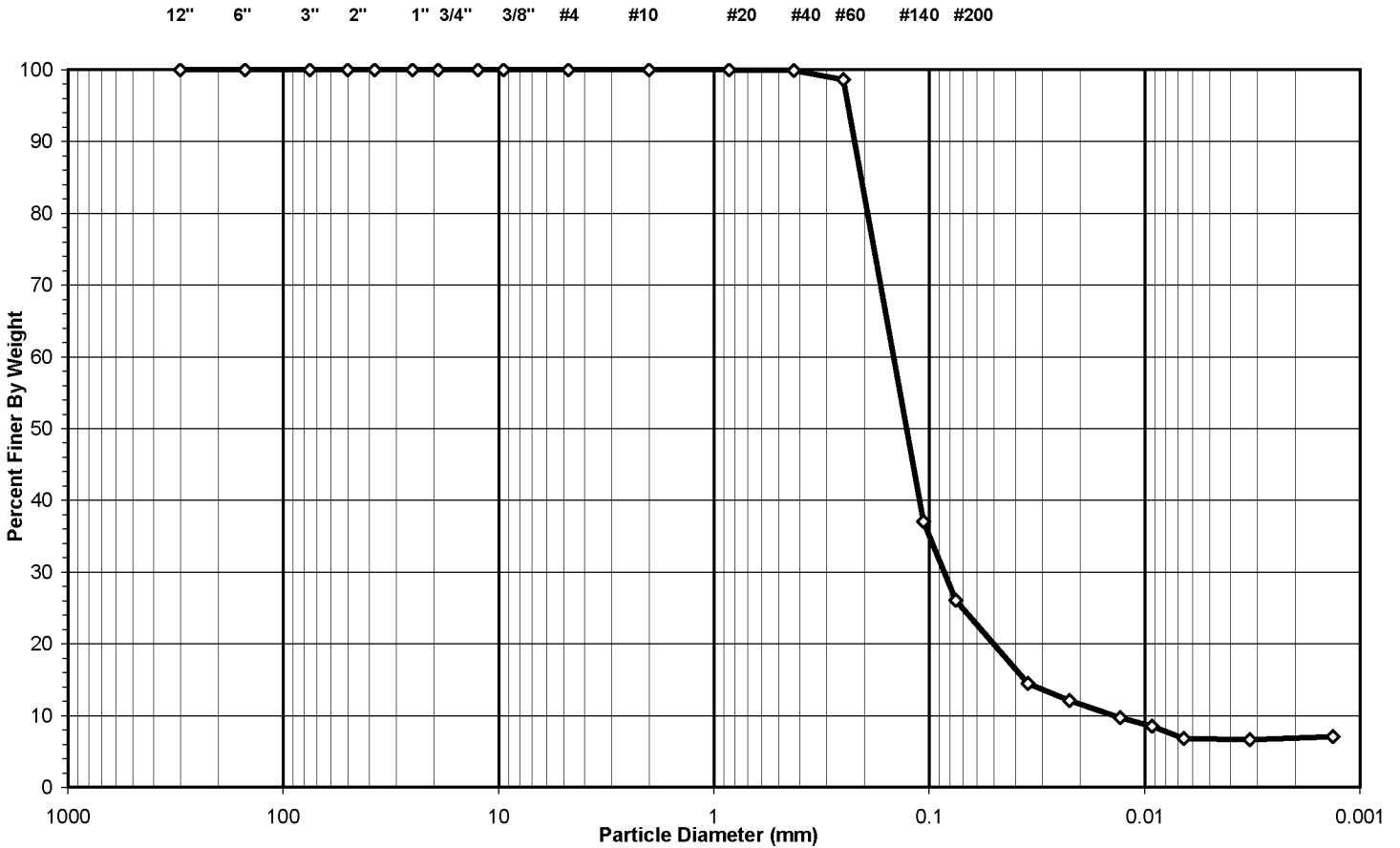
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G209	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1383	8/9/14
#40 Sieve	G1280	1/2/14
#60 Sieve	G1273	1/2/14
#140 Sieve	G1408	12/11/13
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-003
 Lab ID 2013-465-003-001

Boring No. R-6-1B
 Depth (ft) 259.7-260.1
 Sample No. ST-33
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel	sand			silt and clay fraction		
	cobble	gravel	sand			silt	clay	

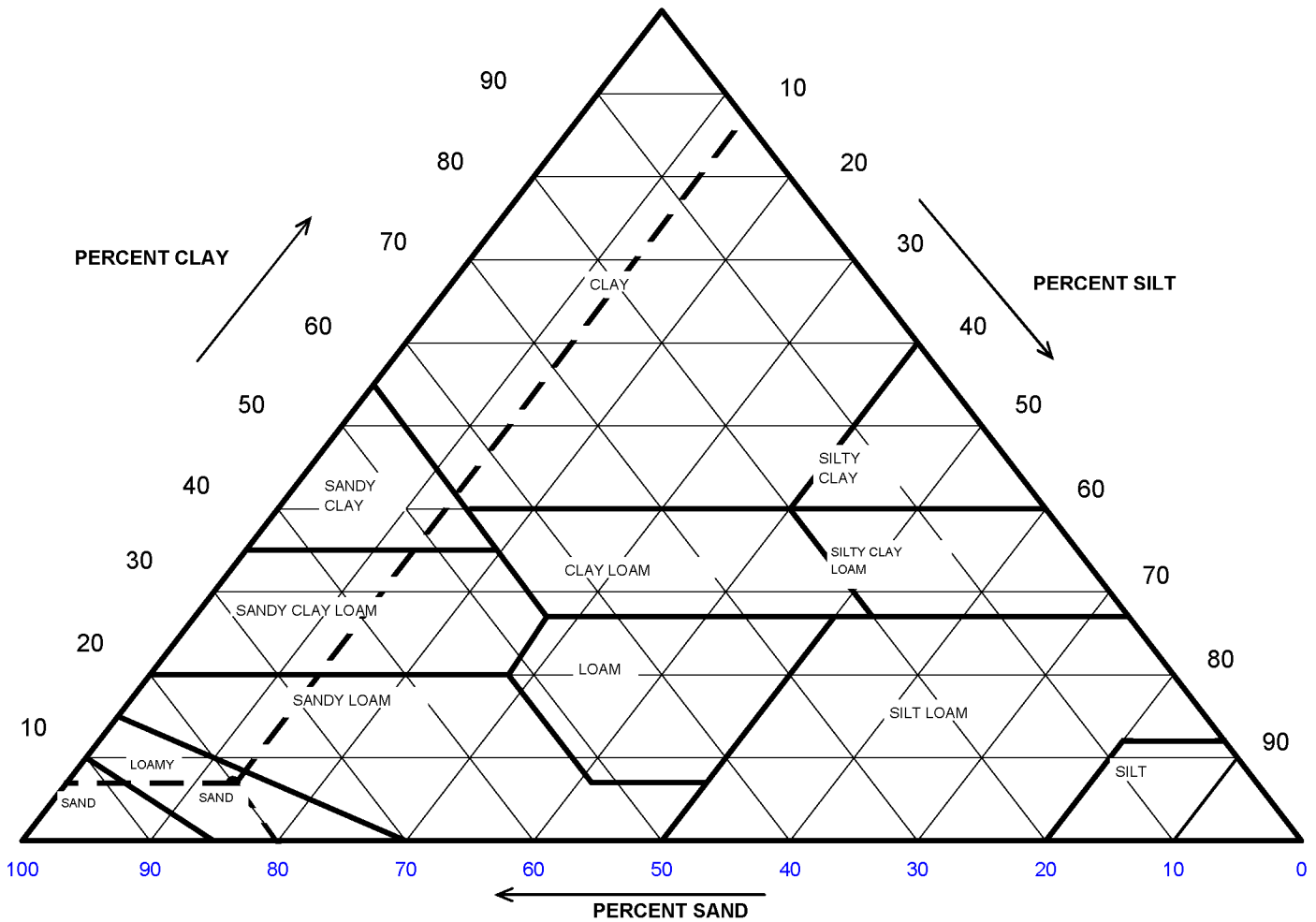


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	73.93
Finer Than #200	<i>Silt & Clay</i>	26.07
USCS Symbol <i>SM, TESTED</i> <i>(NON-PLASTIC FINES)</i>		
USCS Classification <i>SILTY SAND</i>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-003
 Lab ID 2013-465-003-001

Boring No. R-6-1B
 Depth (ft) 259.7-260.1
 Sample No. ST-33
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	80.03	80.03
0.05	19.97	<i>Silt</i>	13.07	13.07
0.002	6.90	<i>Clay</i>	6.90	6.90
USDA Classification:		LOAMY SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-003
 Lab ID 2013-465-003-001

Boring No. R-6-1B
 Depth (ft) 259.7-260.1
 Sample No. ST-33
 Soil Color **Gray**

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	21	Air Dried - #10 Hydrometer Material (g)	84.73
Wgt. Tare + Wet Soil (g)	27.43	Corrected Dry Wt. of - #10 Material (g)	84.06
Wgt. Tare + Dry Soil (g)	27.28		
Weight of Tare (g)	8.45	Weight of - #200 Material (g)	21.91
Weight of Water (g)	0.15	Weight of - #10 ; + #200 Material (g)	62.15
Weight of Dry Soil (g)	18.83		
Moisture Content (%)	0.8	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	43		
Wgt. Tare + Air Dry Soil (g)	662.40		
Weight of Tare (g)	203.04		
Air Dried Wgt. Total Sample (g)	459.36	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	455.73	Corrected Dry Sample Wt - #10 (g)	455.73

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.00	0.0	0.0	100.0	100.0
#40	0.425	0.08	0.1	0.1	99.9	99.9
#60	0.250	1.03	1.2	1.3	98.7	98.7
#140	0.106	51.79	61.6	62.9	37.1	37.1
#200	0.075	9.25	11.0	73.9	26.1	26.1
Pan	-	21.91	26.1	100.0	-	-

Notes :

Tested By TO Date 12/3/13 Checked By KC Date 12/5/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1B
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	259.7-260.1
Project No.	2013-465-003	Sample No.	ST-33
Lab ID	2013-465-003-001	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	17.0	22	4.83	12.2	14.5	0.01336	0.0347	14.5
5	15.0	22	4.83	10.2	12.1	0.01336	0.0222	12.1
15	13.0	22	4.83	8.2	9.7	0.01336	0.0130	9.7
30	12.0	22	4.83	7.2	8.5	0.01336	0.0092	8.5
60	10.5	22.1	4.80	5.7	6.8	0.01335	0.0066	6.8
250	10.5	21.8	4.90	5.6	6.7	0.01340	0.0032	6.7
1440	10.5	22.9	4.55	5.9	7.1	0.01322	0.0013	7.1

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	84.06	Hygroscopic Moisture Factor	0.992
Weight of Deflocculant (g)	5.0	a - Factor	1.002
		Percent Finer than # 10	100.00
		Specific Gravity	2.64 Measured

Notes:

Tested By **TO** Date **12/3/13** Checked By **KC** Date **12/5/13**

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1B
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	259.7-260.1
Project No.	2013-465-003	Sample No.	ST-33
Lab ID #	2013-465-003-001		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1047	3/25/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	G1394	5/15/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/4/14
Oven	G1118	11/23/14

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1B
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	259.7-260.1
Project No.	2013-465-003	Sample No.	ST-33
Lab ID #	2013-465-003-001		

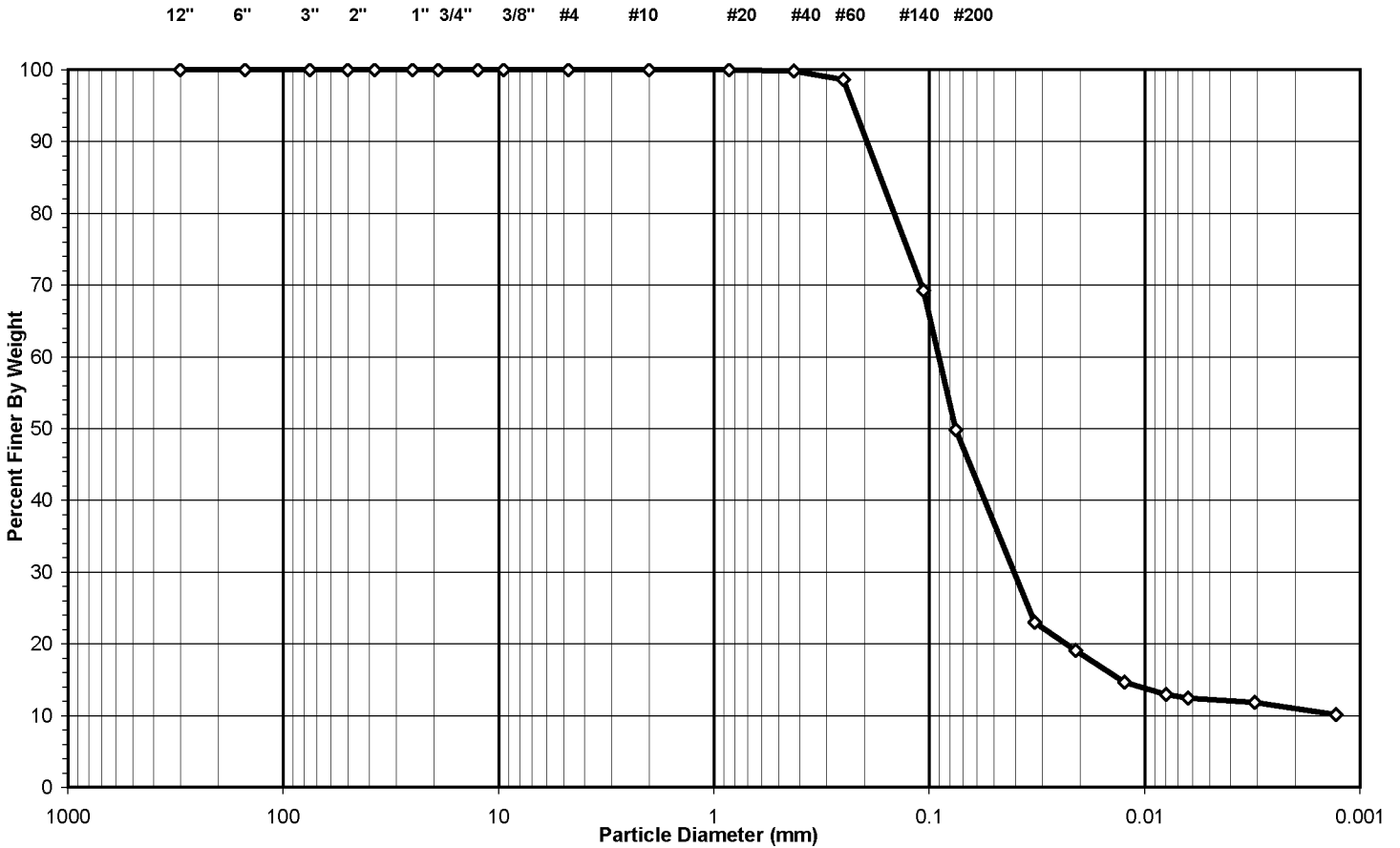
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/23/14
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G206	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1394	5/15/14
#10 Sieve	NA	NA
#20 Sieve	G1497	4/22/14
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	11/22/14
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-031

Boring No. R-6-1b
 Depth (ft) 271.8-272.3
 Sample No. ST-37
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel	sand			silt and clay fraction		
	cobble	gravel	sand			silt	clay	

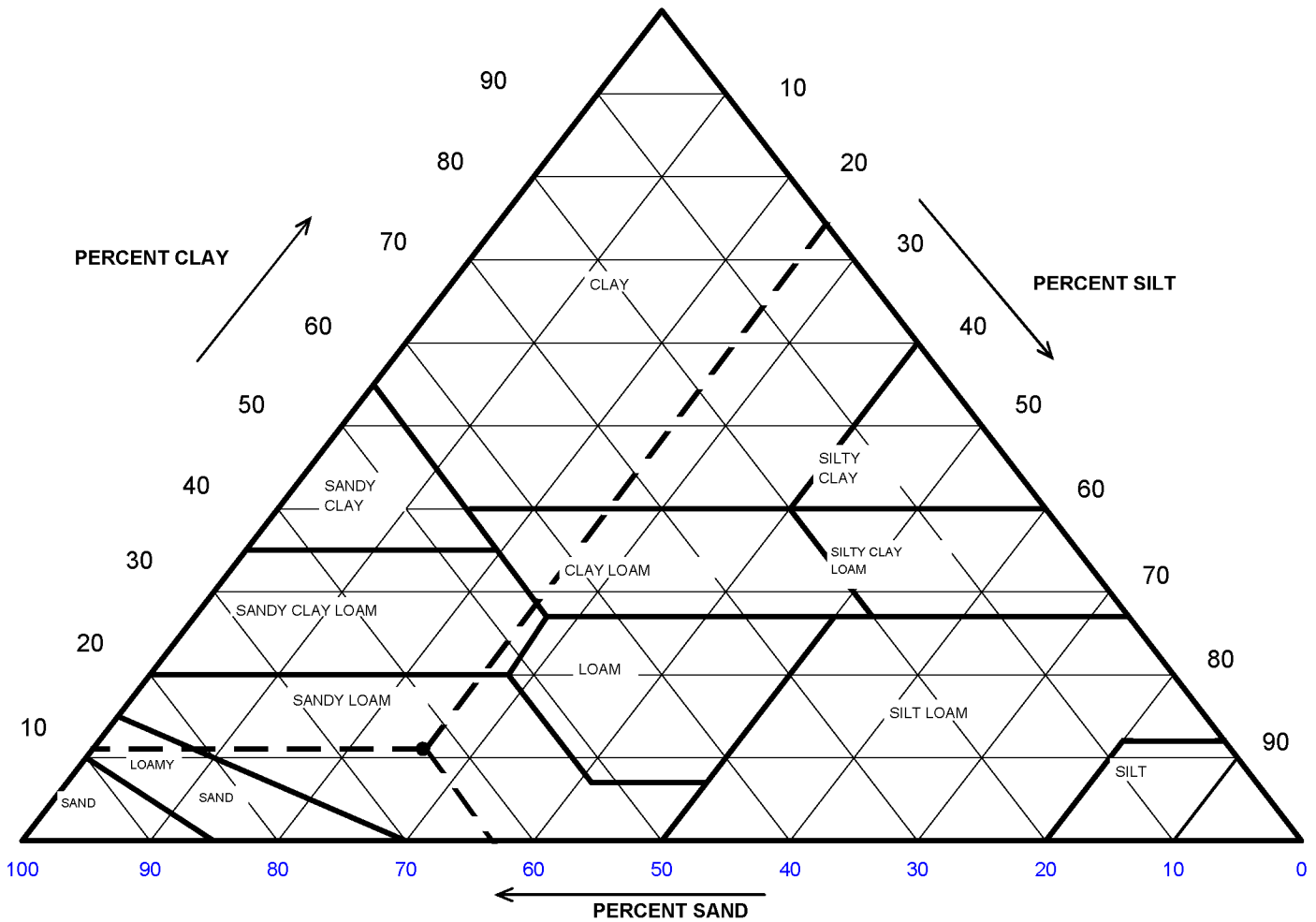


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	50.20
Finer Than #200	<i>Silt & Clay</i>	49.80
USCS Symbol <i>SM, TESTED</i> <i>(NON-PLASTIC FINES)</i>		
USCS Classification <i>SILTY SAND</i>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-031

Boring No. R-6-1b
 Depth (ft) 271.8-272.3
 Sample No. ST-37
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	63.10	63.10
0.05	36.90	<i>Silt</i>	25.87	25.87
0.002	11.03	<i>Clay</i>	11.03	11.03
USDA Classification:		SANDY LOAM		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-031

Boring No. R-6-1b
 Depth (ft) 271.8-272.3
 Sample No. ST-37
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	31	Air Dried - #10 Hydrometer Material (g)	90.97
Wgt. Tare + Wet Soil (g)	34.03	Corrected Dry Wt. of - #10 Material (g)	89.15
Wgt. Tare + Dry Soil (g)	33.52		
Weight of Tare (g)	8.47	Weight of - #200 Material (g)	44.39
Weight of Water (g)	0.51	Weight of - #10 ; + #200 Material (g)	44.76
Weight of Dry Soil (g)	25.05		
Moisture Content (%)	2.0	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	932		
Wgt. Tare + Air Dry Soil (g)	720.66		
Weight of Tare (g)	99.35		
Air Dried Wgt. Total Sample (g)	621.31	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	608.91	Corrected Dry Sample Wt - #10 (g)	608.91

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.00	0.0	0.0	100.0	100.0
#40	0.425	0.12	0.1	0.1	99.9	99.9
#60	0.250	1.07	1.2	1.3	98.7	98.7
#140	0.106	26.24	29.4	30.8	69.2	69.2
#200	0.075	17.33	19.4	50.2	49.8	49.8
Pan	-	44.39	49.8	100.0	-	-

Notes :

Tested By TO Date 11/12/13 Checked By KC Date 11/20/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	271.8-272.3
Project No.	2013-465-001	Sample No.	ST-37
Lab ID	2013-465-001-031	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	25.5	22.1	4.80	20.7	23.0	0.01311	0.0323	23.0
5	22.0	22.1	4.80	17.2	19.1	0.01311	0.0209	19.1
15	18.0	22.1	4.80	13.2	14.7	0.01311	0.0124	14.7
37	16.5	22.1	4.80	11.7	13.0	0.01311	0.0079	13.0
60	16.0	22	4.83	11.2	12.4	0.01313	0.0063	12.4
250	15.5	22.1	4.80	10.7	11.9	0.01311	0.0031	11.9
1440	14.0	22	4.83	9.2	10.2	0.01313	0.0013	10.2

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	89.15	Hygroscopic Moisture Factor	0.980
Weight of Deflocculant (g)	5.0	a - Factor	0.99
		Percent Finer than # 10	100.00
		Specific Gravity	2.70 Assumed

Notes:

Tested By **TO** Date **11/14/13** Checked By **KC** Date **11/20/13**

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	271.8-272.3
Project No.	2013-465-001	Sample No.	ST-37
Lab ID #	2013-465-001-031		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	G1395	6/4/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	271.8-272.3
Project No.	2013-465-001	Sample No.	ST-37
Lab ID #	2013-465-001-031		

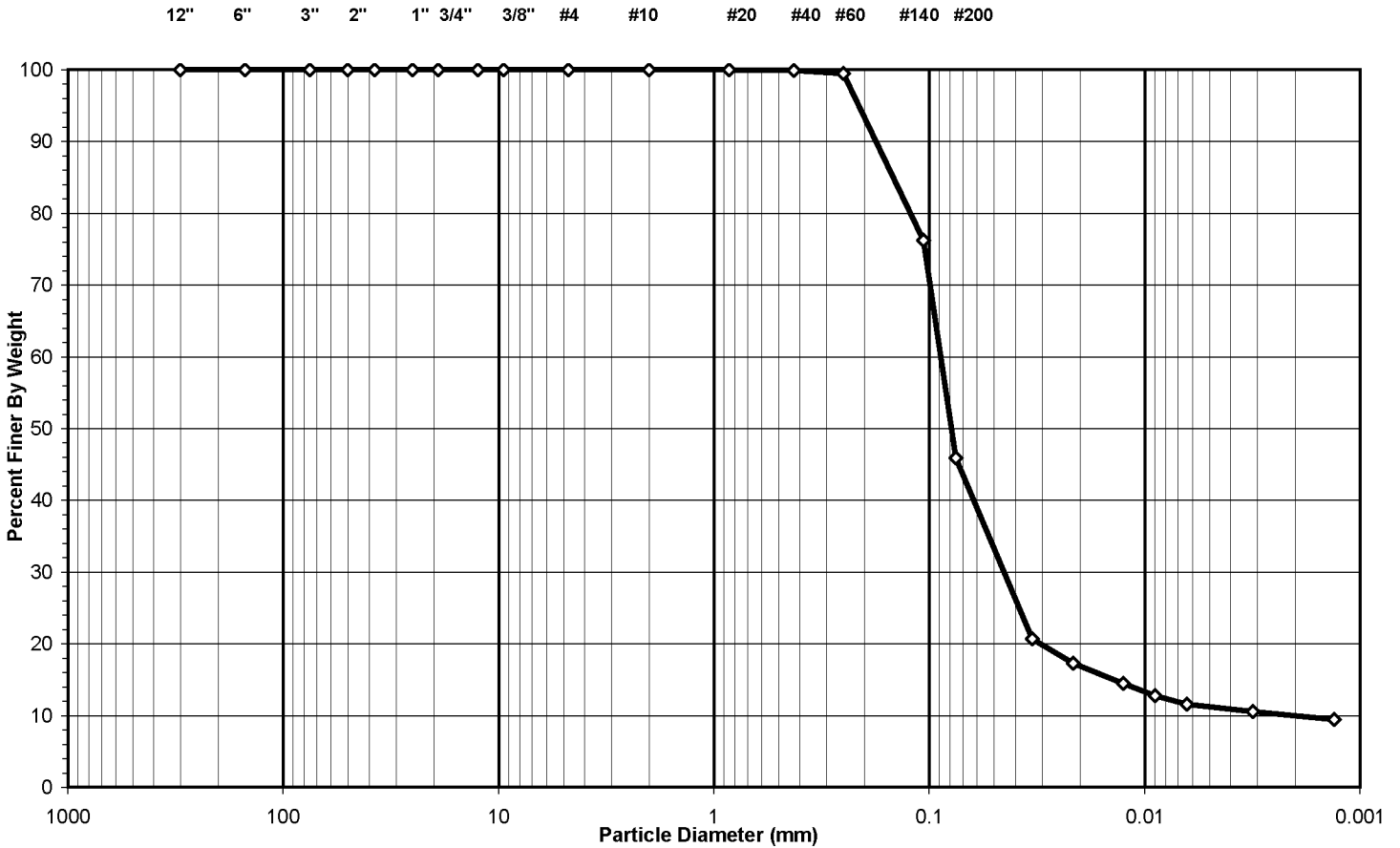
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G205	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1497	12/13/13
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	12/11/13
#200 Sieve	G1386	10/24/14
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-032

Boring No. R-6-1b
 Depth (ft) 280.9-281.4
 Sample No. ST-40
 Soil Color Greenish Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel	sand			silt and clay fraction		
	cobble	gravel	sand			silt	clay	

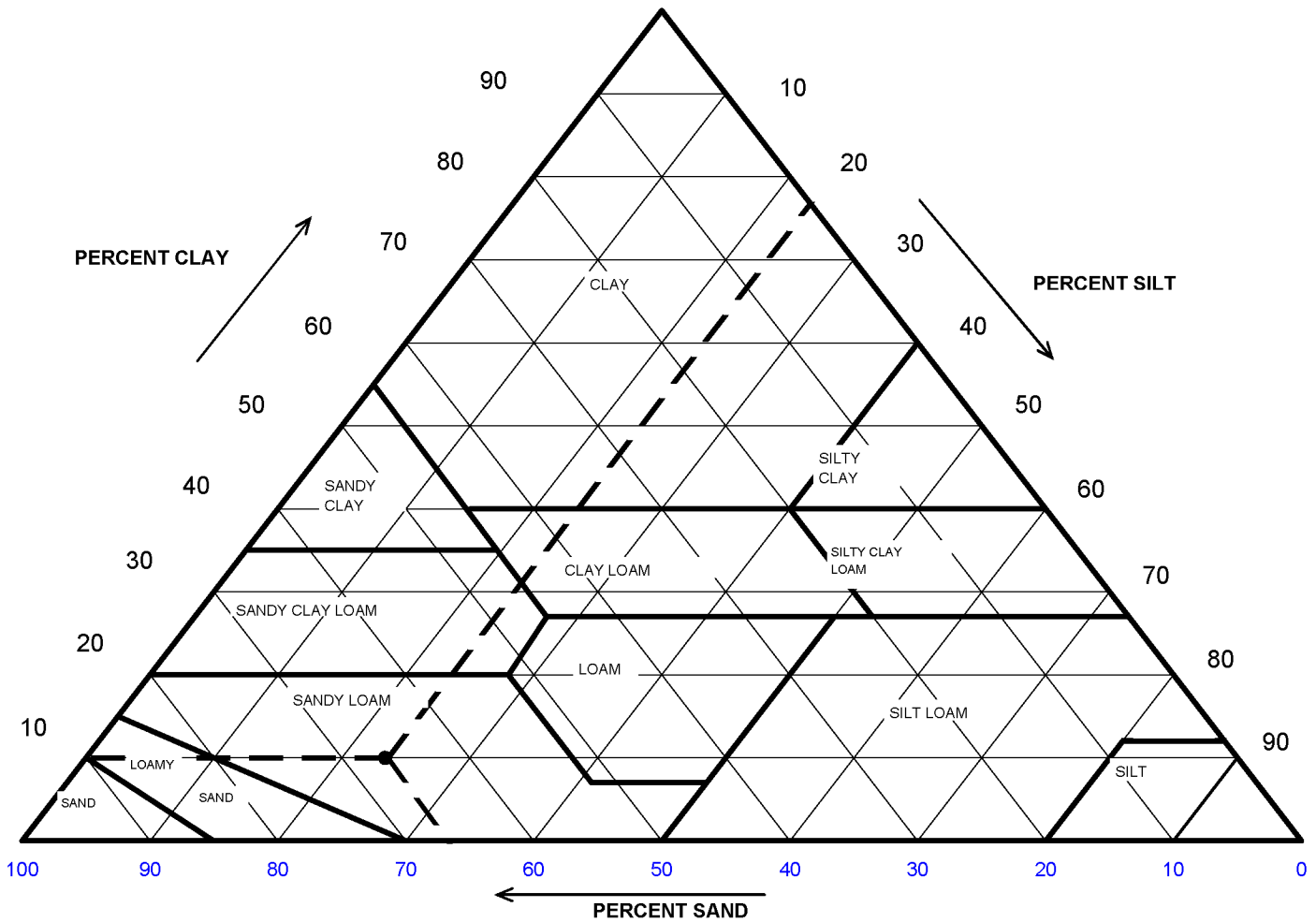


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	54.06
Finer Than #200	<i>Silt & Clay</i>	45.94
USCS Symbol	SC, TESTED	
USCS Classification	CLAYEY SAND	

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-032

Boring No. R-6-1b
 Depth (ft) 280.9-281.4
 Sample No. ST-40
 Soil Color Greenish Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	66.60	66.60
0.05	33.40	<i>Silt</i>	23.42	23.42
0.002	9.98	<i>Clay</i>	9.98	9.98
USDA Classification:		SANDY LOAM		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-032

Boring No. R-6-1b
 Depth (ft) 280.9-281.4
 Sample No. ST-40
 Soil Color **Greenish Gray**

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	43	Air Dried - #10 Hydrometer Material (g)	89.84
Wgt. Tare + Wet Soil (g)	28.69	Corrected Dry Wt. of - #10 Material (g)	88.56
Wgt. Tare + Dry Soil (g)	28.40		
Weight of Tare (g)	8.31	Weight of - #200 Material (g)	40.68
Weight of Water (g)	0.29	Weight of - #10 ; + #200 Material (g)	47.88
Weight of Dry Soil (g)	20.09		
Moisture Content (%)	1.4	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	26		
Wgt. Tare + Air Dry Soil (g)	459.67		
Weight of Tare (g)	200.96		
Air Dried Wgt. Total Sample (g)	258.71	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	255.03	Corrected Dry Sample Wt - #10 (g)	255.03

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.00	0.0	0.0	100.0	100.0
#40	0.425	0.05	0.1	0.1	99.9	99.9
#60	0.250	0.40	0.5	0.5	99.5	99.5
#140	0.106	20.60	23.3	23.8	76.2	76.2
#200	0.075	26.83	30.3	54.1	45.9	45.9
Pan	-	40.68	45.9	100.0	-	-

Notes :

Tested By TO Date 11/21/13 Checked By KC Date 11/26/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-032

Boring No. R-6-1b
 Depth (ft) 280.9-281.4
 Sample No. ST-40
 Soil Color **Greenish Gray**

Elapsed Time (min)	R Measured	Temp. (°C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	23.0	22.5	4.68	18.3	20.7	0.01325	0.0331	20.7
5	20.0	22.5	4.68	15.3	17.3	0.01325	0.0214	17.3
15	17.5	22.5	4.68	12.8	14.5	0.01325	0.0125	14.5
30	16.0	22.5	4.68	11.3	12.8	0.01325	0.0089	12.8
60	15.0	22.4	4.71	10.3	11.6	0.01326	0.0064	11.6
250	14.0	22.6	4.64	9.4	10.6	0.01323	0.0031	10.6
1440	13.0	22.6	4.64	8.4	9.4	0.01323	0.0013	9.4

Soil Specimen Data		Other Corrections	
Wgt. of Dry Material (g)	88.56	Hygroscopic Moisture Factor	0.986
Weight of Deflocculant (g)	5.0	a - Factor	1
		Percent Finer than # 10	100.00
		Specific Gravity	2.65 Measured

Notes:

Tested By TO Date 11/21/13 Checked By KC Date 11/26/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	280.9-281.4
Project No.	2013-465-001	Sample No.	ST-40
Lab ID #	2013-465-001-032		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1395	6/4/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	NA	NA
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	280.9-281.4
Project No.	2013-465-001	Sample No.	ST-40
Lab ID #	2013-465-001-032		

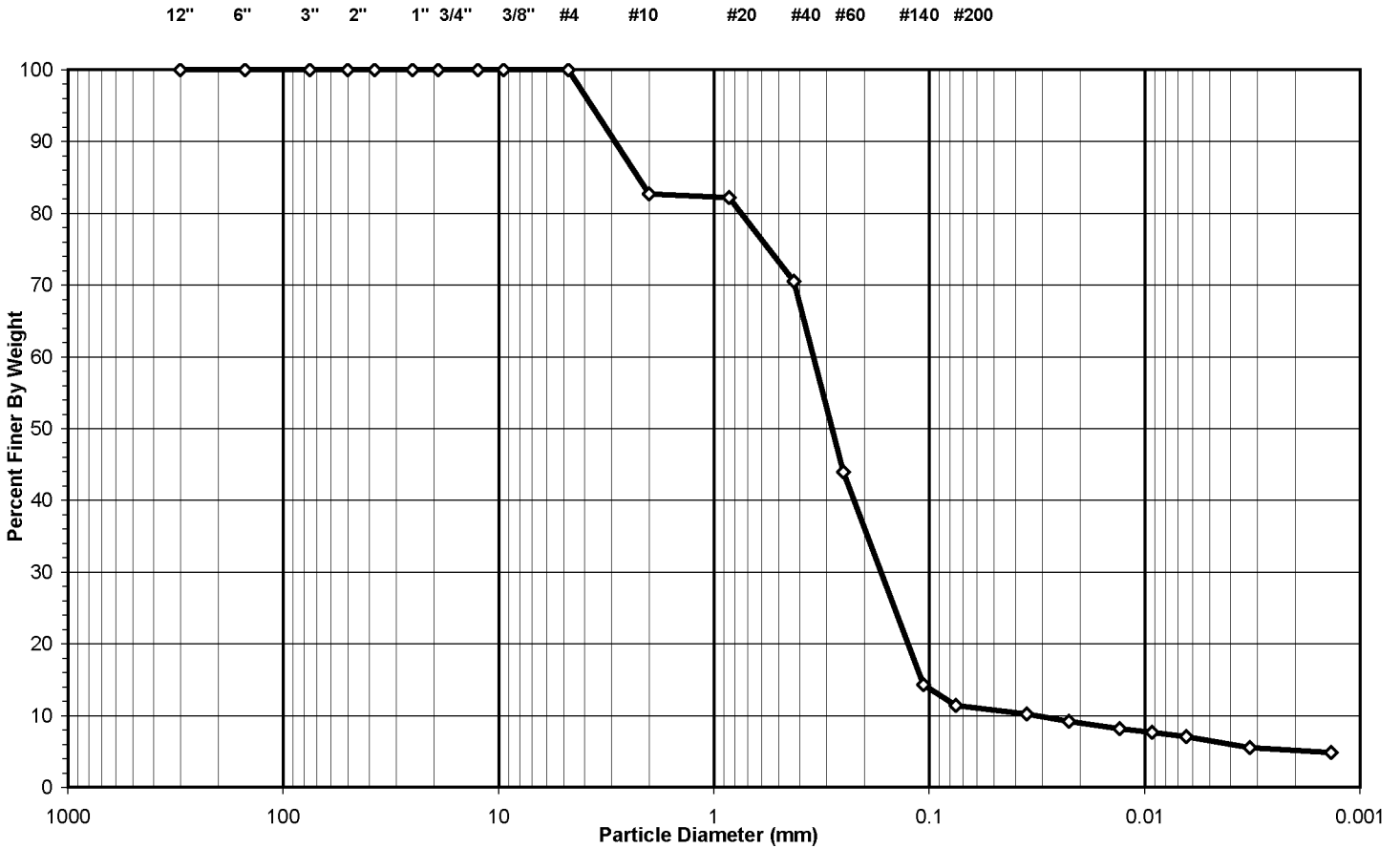
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G781	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1383	8/9/14
#40 Sieve	G1280	1/2/14
#60 Sieve	G1273	1/2/14
#140 Sieve	G1408	12/11/13
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-033

Boring No. R-6-1b
 Depth (ft) 300.7-301.2
 Sample No. ST-46
 Soil Color Greenish Gray

USCS USDA	SIEVE ANALYSIS						HYDROMETER		
	cobble	gravel	sand			silt and clay fraction			
	cobble	gravel	sand			silt	clay		

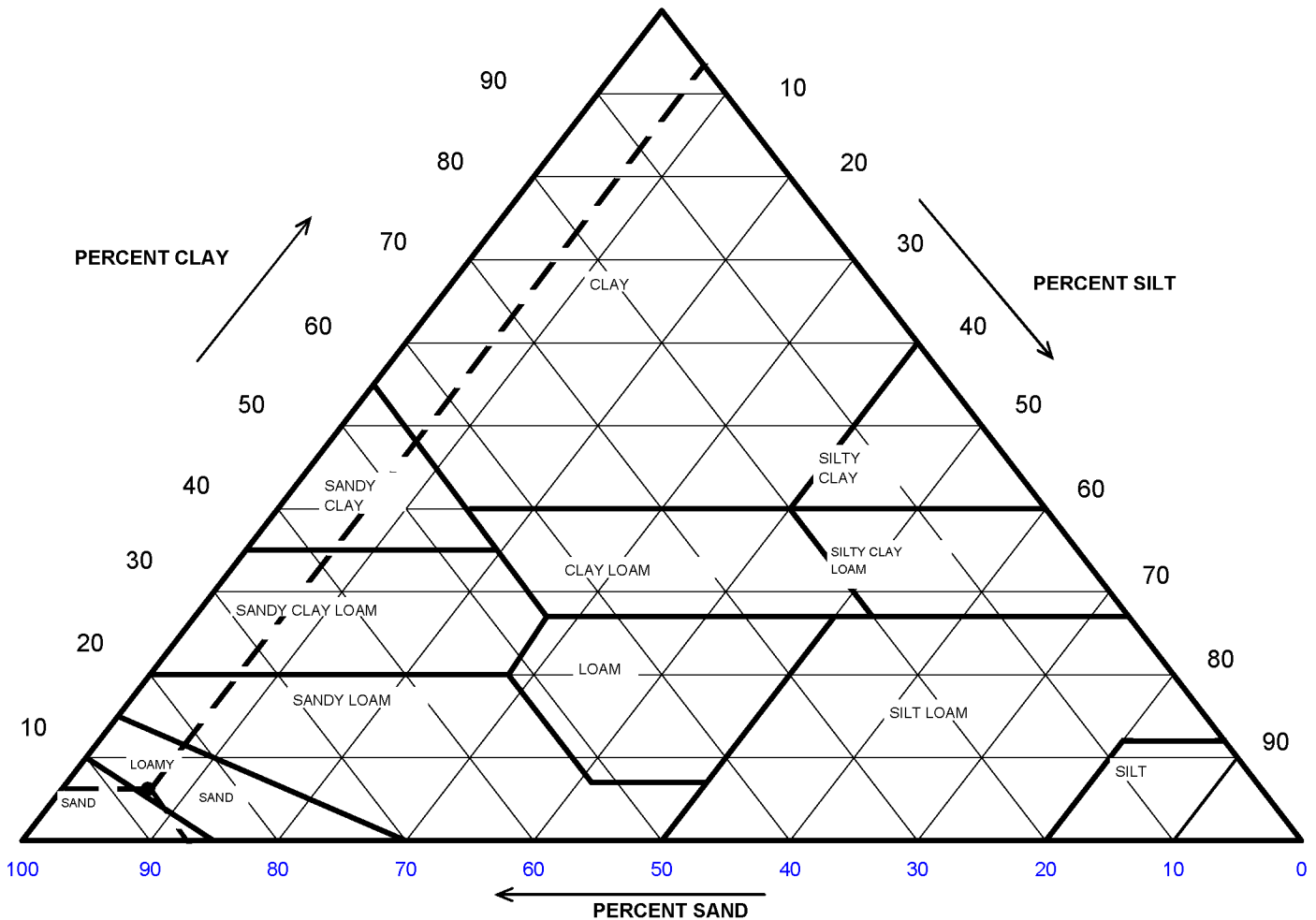


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	88.60
Finer Than #200	<i>Silt & Clay</i>	11.40
		D60 = 0.34
		D30 = 0.17 CC = 2.53
		D10 = 0.03 CU = 10.76
USCS Symbol	SW-SM, TESTED	
USCS Classification	WELL-GRADED SAND WITH SILT	
		(NON-PLASTIC FINES)

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-033

Boring No. R-6-1b
 Depth (ft) 300.7-301.2
 Sample No. ST-46
 Soil Color Greenish Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	17.32	0.00
2	82.68	<i>Sand</i>	71.92	86.98
0.05	10.76	<i>Silt</i>	5.60	6.78
0.002	5.16	<i>Clay</i>	5.16	6.24
USDA Classification:		LOAMY SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-033

Boring No. R-6-1b
 Depth (ft) 300.7-301.2
 Sample No. ST-46
 Soil Color **Greenish Gray**

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	25	Air Dried - #10 Hydrometer Material (g)	82.19
Wgt. Tare + Wet Soil (g)	37.72	Corrected Dry Wt. of - #10 Material (g)	81.15
Wgt. Tare + Dry Soil (g)	37.35		
Weight of Tare (g)	8.34	Weight of - #200 Material (g)	11.18
Weight of Water (g)	0.37	Weight of - #10 ; + #200 Material (g)	69.97
Weight of Dry Soil (g)	29.01		
Moisture Content (%)	1.3	J-FACTOR (%FINER THAN #10)	0.8268
Soil Specimen Data			
Tare No.	631		
Wgt. Tare + Air Dry Soil (g)	405.69		
Weight of Tare (g)	98.21		
Air Dried Wgt. Total Sample (g)	307.48	Dry Weight of Material Retained on #10 (g)	52.69
Total Dry Sample Weight (g)	304.27	Corrected Dry Sample Wt - #10 (g)	251.58

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	52.69	17.3	17.3	82.7	82.7
#20	0.85	0.45	0.6	0.6	99.4	82.2
#40	0.425	11.44	14.1	14.7	85.3	70.6
#60	0.250	26.10	32.2	46.8	53.2	44.0
#140	0.106	29.10	35.9	82.7	17.3	14.3
#200	0.075	2.88	3.5	86.2	13.8	11.4
Pan	-	11.18	13.8	100.0	-	-

Notes :

Tested By **BK** Date **12/5/13** Checked By **KC** Date **12/6/13**

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-033

Boring No. R-6-1b
 Depth (ft) 300.7-301.2
 Sample No. ST-46
 Soil Color **Greenish Gray**

Elapsed Time (min)	R Measured	Temp. (°C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	14.5	22.9	4.55	9.9	12.4	0.01335	0.0352	10.2
5	13.5	22.9	4.55	8.9	11.1	0.01335	0.0224	9.2
15	12.5	22.9	4.55	7.9	9.9	0.01335	0.0130	8.2
30	12.0	22.9	4.55	7.4	9.3	0.01335	0.0092	7.7
63	11.5	22.8	4.58	6.9	8.6	0.01336	0.0064	7.1
250	10.0	22.6	4.64	5.4	6.7	0.01339	0.0032	5.5
1440	9.5	22.3	4.74	4.8	5.9	0.01344	0.0014	4.9

Soil Specimen Data	Other Corrections
Wgt. of Dry Material (g) 81.15	Hygroscopic Moisture Factor 0.987
Weight of Deflocculant (g) 5.0	a - Factor 1.008
	Percent Finer than # 10 82.68
	Specific Gravity 2.61 Measured

Notes:

Tested By TO Date 12/4/13 Checked By KC Date 12/6/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	300.7-301.2
Project No.	2013-465-001	Sample No.	ST-46
Lab ID #	2013-465-001-033		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	G009	9/13/14
3/8" Sieve	G1251	9/13/14
#4 Sieve	G802	9/16/14
#10 Sieve	G894	8/9/14
Sieve Shaker	G1067	9/20/14
Additional Balance	G1395	6/4/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/4/14
Oven	G1118	11/23/14

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	300.7-301.2
Project No.	2013-465-001	Sample No.	ST-46
Lab ID #	2013-465-001-033		

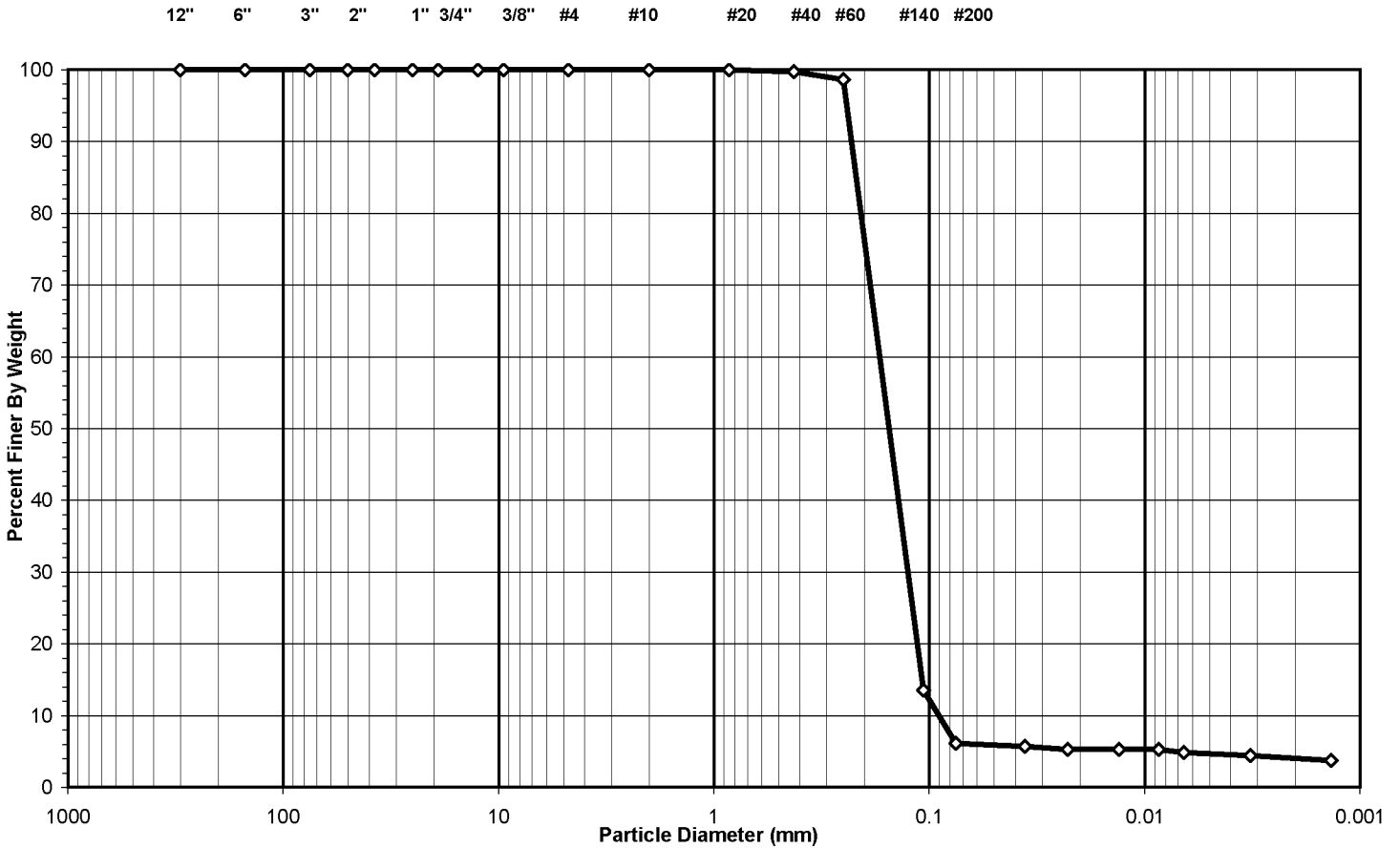
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/23/14
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G353	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G447	3/29/14
#10 Sieve	NA	NA
#20 Sieve	G1497	4/22/14
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	11/22/14
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-034

Boring No. R-6-1b
 Depth (ft) 319.0-319.5
 Sample No. ST-52
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel		sand		silt and clay fraction		
	cobble	gravel		sand		silt	clay	

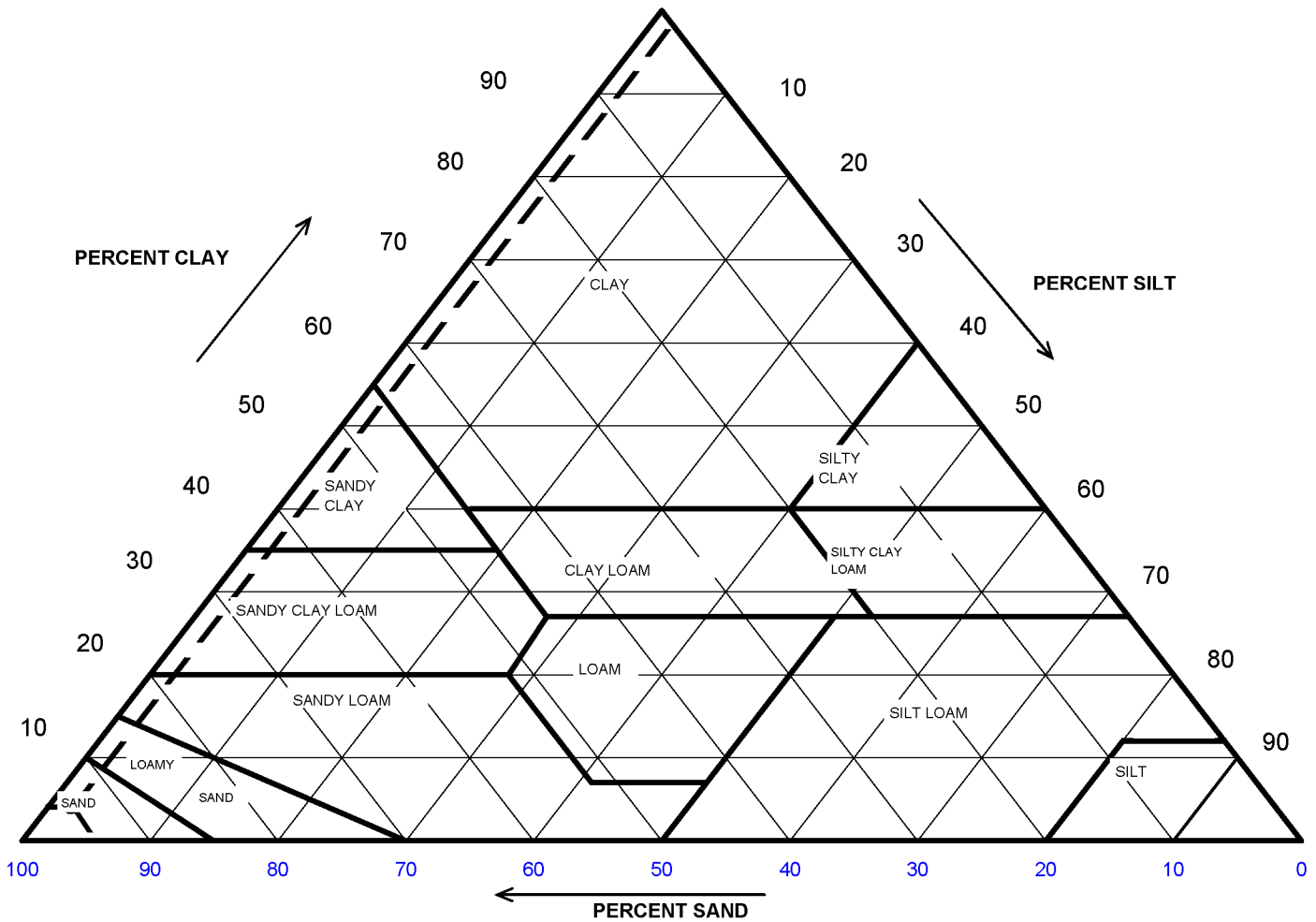


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	93.91
Finer Than #200	<i>Silt & Clay</i>	6.09
		D60 = 0.17
		D30 = 0.13 CC = 1.03
		D10 = 0.09 CU = 1.88
USCS Symbol	<i>SP-SM, TESTED</i>	
	<i>(NON-PLASTIC FINES)</i>	
USCS Classification	<i>POORLY GRADED SAND WITH SILT</i>	

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-034

Boring No. R-6-1b
 Depth (ft) 319.0-319.5
 Sample No. ST-52
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	94.10	94.10
0.05	5.90	<i>Silt</i>	1.83	1.83
0.002	4.07	<i>Clay</i>	4.07	4.07
USDA Classification:		SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-034

Boring No. R-6-1b
 Depth (ft) 319.0-319.5
 Sample No. ST-52
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	53	Air Dried - #10 Hydrometer Material (g)	112.73
Wgt. Tare + Wet Soil (g)	30.64	Corrected Dry Wt. of - #10 Material (g)	112.01
Wgt. Tare + Dry Soil (g)	30.50		
Weight of Tare (g)	8.64	Weight of - #200 Material (g)	6.82
Weight of Water (g)	0.14	Weight of - #10 ; + #200 Material (g)	105.19
Weight of Dry Soil (g)	21.86		
Moisture Content (%)	0.6	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	693		
Wgt. Tare + Air Dry Soil (g)	543.68		
Weight of Tare (g)	89.99		
Air Dried Wgt. Total Sample (g)	453.69	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	450.80	Corrected Dry Sample Wt - #10 (g)	450.80

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.04	0.0	0.0	100.0	100.0
#40	0.425	0.26	0.2	0.3	99.7	99.7
#60	0.250	1.18	1.1	1.3	98.7	98.7
#140	0.106	95.37	85.1	86.5	13.5	13.5
#200	0.075	8.34	7.4	93.9	6.1	6.1
Pan	-	6.82	6.1	100.0	-	-

Notes :

Tested By TO Date 11/12/13 Checked By JAM Date 11/21/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	319.0-319.5
Project No.	2013-465-001	Sample No.	ST-52
Lab ID	2013-465-001-034	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	11.0	22.7	4.61	6.4	5.7	0.01334	0.0359	5.7
5	10.5	22.7	4.61	5.9	5.3	0.01334	0.0228	5.3
15	10.5	22.7	4.61	5.9	5.3	0.01334	0.0131	5.3
35	10.5	22.7	4.61	5.9	5.3	0.01334	0.0086	5.3
60	10.0	22.9	4.55	5.4	4.9	0.01330	0.0066	4.9
250	9.5	22.9	4.55	4.9	4.4	0.01330	0.0032	4.4
1440	9.0	22.1	4.80	4.2	3.8	0.01343	0.0014	3.8

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	112.01	Hygroscopic Moisture Factor	0.994
Weight of Deflocculant (g)	5.0	a - Factor	1.006
		Percent Finer than # 10	100.00
		Specific Gravity	2.62 Measured

Notes:

Tested By **TO** Date **11/18/13** Checked By **JAM** Date **11/21/13**

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	319.0-319.5
Project No.	2013-465-001	Sample No.	ST-52
Lab ID #	2013-465-001-034		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	G1395	6/4/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	319.0-319.5
Project No.	2013-465-001	Sample No.	ST-52
Lab ID #	2013-465-001-034		

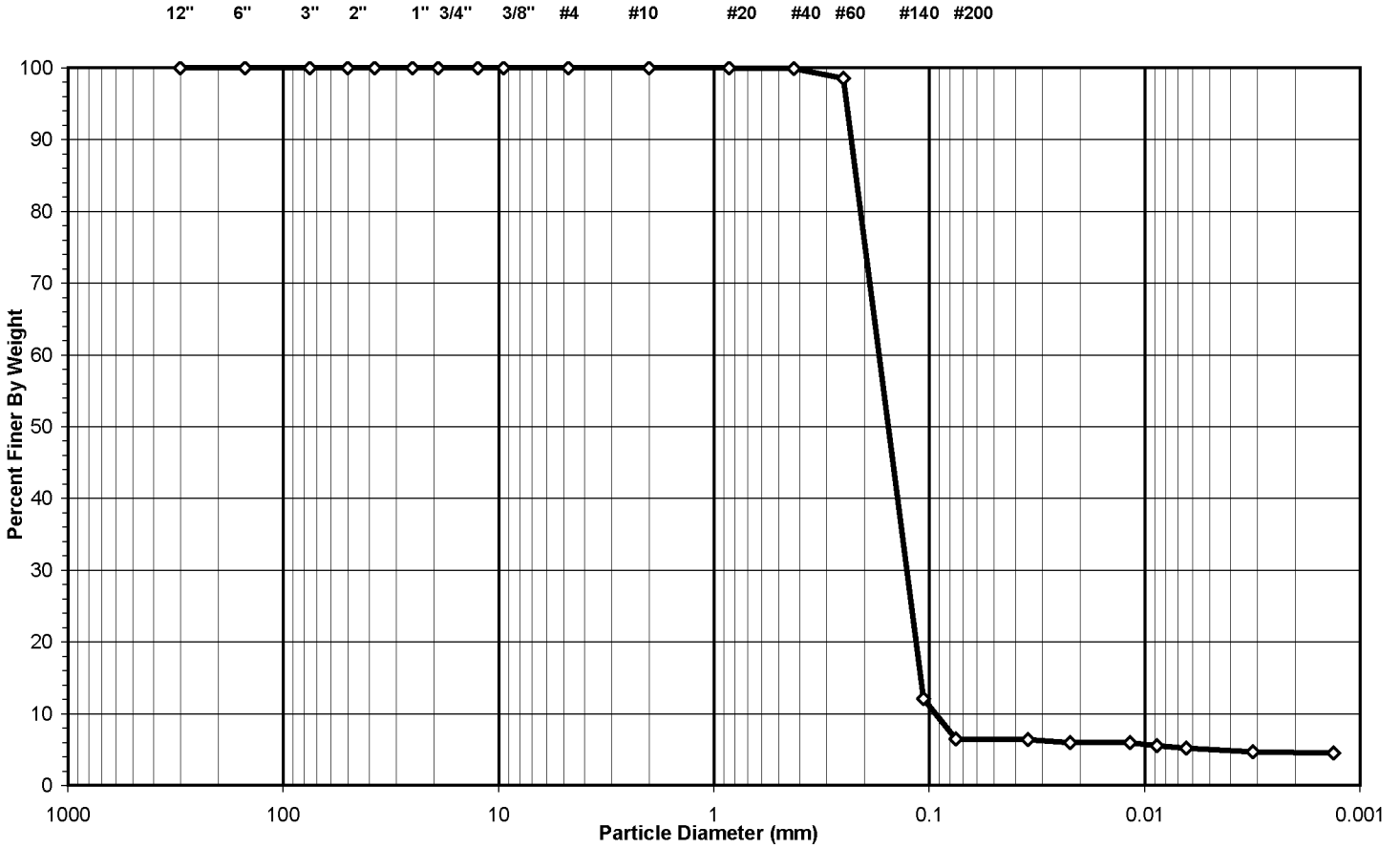
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G212	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1383	8/9/14
#40 Sieve	G1280	1/2/14
#60 Sieve	G1273	1/2/14
#140 Sieve	G1408	12/11/13
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-036

Boring No. R-6-1b
 Depth (ft) 343.5-344.0
 Sample No. ST-61
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel	sand			silt and clay fraction		
	cobble	gravel	sand			silt	clay	

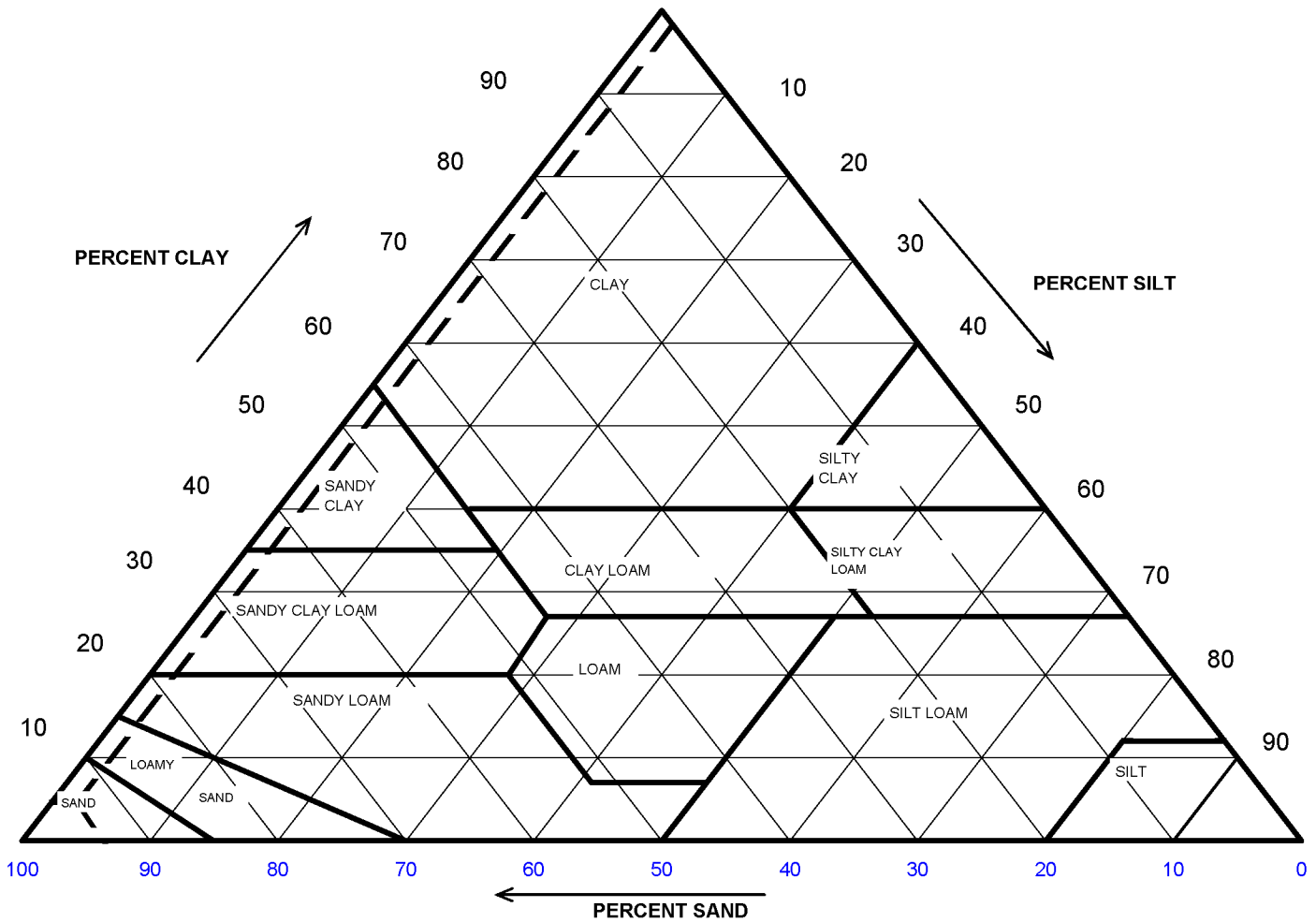


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	93.50
Finer Than #200	<i>Silt & Clay</i>	6.50
		D60 = 0.17
		D30 = 0.13 CC = 1.01
		D10 = 0.09 CU = 1.83
USCS Symbol	<i>SP-SM, TESTED</i>	
	<i>(NON-PLASTIC FINES)</i>	
USCS Classification	<i>POORLY GRADED SAND WITH SILT</i>	

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-036

Boring No. R-6-1b
 Depth (ft) 343.5-344.0
 Sample No. ST-61
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	93.55	93.55
0.05	6.45	<i>Silt</i>	1.84	1.84
0.002	4.61	<i>Clay</i>	4.61	4.61
USDA Classification:		SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-036

Boring No. R-6-1b
 Depth (ft) 343.5-344.0
 Sample No. ST-61
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	17	Air Dried - #10 Hydrometer Material (g)	114.78
Wgt. Tare + Wet Soil (g)	21.37	Corrected Dry Wt. of - #10 Material (g)	114.15
Wgt. Tare + Dry Soil (g)	21.30		
Weight of Tare (g)	8.52	Weight of - #200 Material (g)	7.41
Weight of Water (g)	0.07	Weight of - #10 ; + #200 Material (g)	106.74
Weight of Dry Soil (g)	12.78		
Moisture Content (%)	0.5	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	963		
Wgt. Tare + Air Dry Soil (g)	775.90		
Weight of Tare (g)	101.67		
Air Dried Wgt. Total Sample (g)	674.23	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	670.56	Corrected Dry Sample Wt - #10 (g)	670.56

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.00	0.0	0.0	100.0	100.0
#40	0.425	0.06	0.1	0.1	99.9	99.9
#60	0.250	1.55	1.4	1.4	98.6	98.6
#140	0.106	98.70	86.5	87.9	12.1	12.1
#200	0.075	6.43	5.6	93.5	6.5	6.5
Pan	-	7.41	6.5	100.0	-	-

Notes :

Tested By TO Date 11/11/13 Checked By JAM Date 11/21/13

HYDROMETER ANALYSIS
ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	343.5-344.0
Project No.	2013-465-001	Sample No.	ST-61
Lab ID	2013-465-001-036	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	12.0	22.7	4.61	7.4	6.4	0.01302	0.0348	6.4
5	11.5	22.7	4.61	6.9	6.0	0.01302	0.0221	6.0
18	11.5	22.7	4.61	6.9	6.0	0.01302	0.0116	6.0
32	11.0	22.7	4.61	6.4	5.5	0.01302	0.0088	5.5
60	10.5	22.9	4.55	5.9	5.2	0.01299	0.0064	5.2
250	10.0	22.9	4.55	5.4	4.7	0.01299	0.0031	4.7
1440	10.0	22.1	4.80	5.2	4.5	0.01311	0.0013	4.5

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	114.15	Hygroscopic Moisture Factor	0.995
Weight of Deflocculant (g)	5.0	a - Factor	0.99
		Percent Finer than # 10	100.00
		Specific Gravity	2.70 Assumed

Notes:

Tested By **TO** Date **11/18/13** Checked By **JAM** Date **11/21/13**

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	343.5-344.0
Project No.	2013-465-001	Sample No.	ST-61
Lab ID #	2013-465-001-036		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	G1395	6/4/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	343.5-344.0
Project No.	2013-465-001	Sample No.	ST-61
Lab ID #	2013-465-001-036		

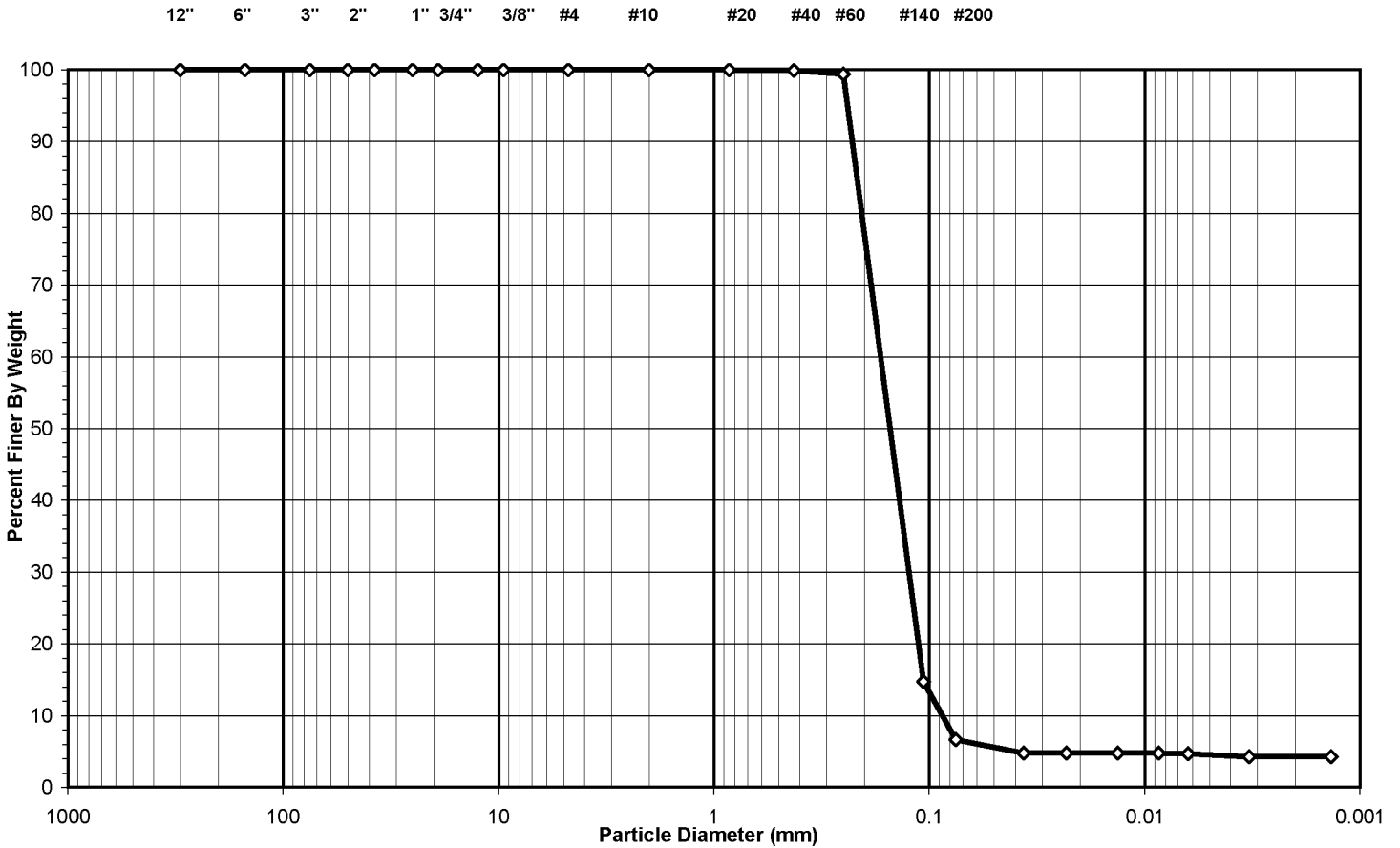
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G773	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1383	8/9/14
#40 Sieve	G1280	1/2/14
#60 Sieve	G1273	1/2/14
#140 Sieve	G1408	12/11/13
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-038

Boring No. R-6-1b
 Depth (ft) 360.6-361.1
 Sample No. ST-67
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS						HYDROMETER		
	cobble	gravel	sand			silt and clay fraction			
	cobble	gravel	sand			silt	clay		

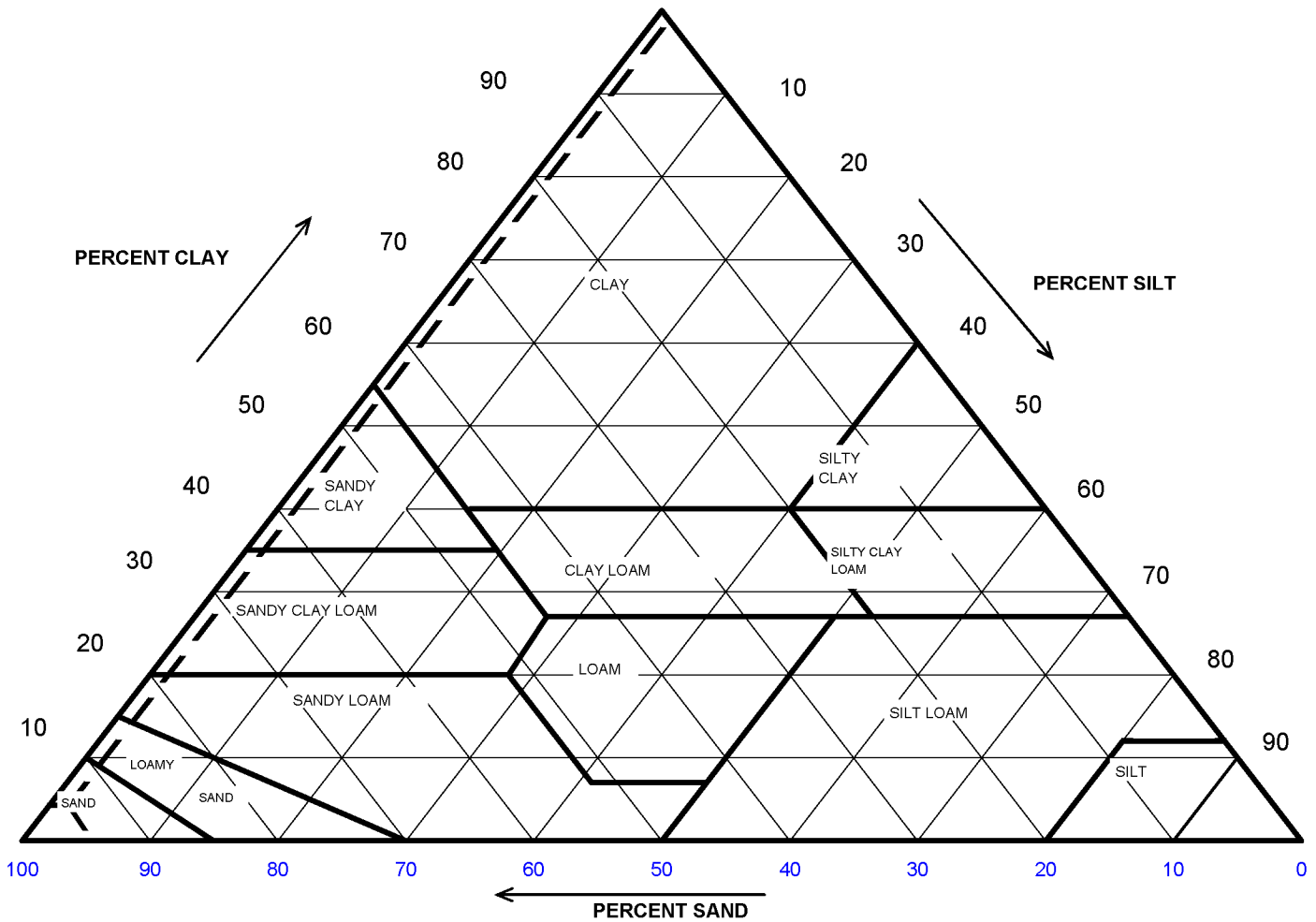


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	93.36
Finer Than #200	<i>Silt & Clay</i>	6.64
		D60 = 0.17
		D30 = 0.12 CC = 1.05
		D10 = 0.09 CU = 1.94
USCS Symbol	<i>SP-SM, TESTED</i>	
	<i>(NON-PLASTIC FINES)</i>	
USCS Classification	<i>POORLY GRADED SAND WITH SILT</i>	

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-038

Boring No. R-6-1b
 Depth (ft) 360.6-361.1
 Sample No. ST-67
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	94.42	94.42
0.05	5.58	<i>Silt</i>	1.31	1.31
0.002	4.28	<i>Clay</i>	4.28	4.28
USDA Classification:		SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-038

Boring No. R-6-1b
 Depth (ft) 360.6-361.1
 Sample No. ST-67
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	11	Air Dried - #10 Hydrometer Material (g)	110.31
Wgt. Tare + Wet Soil (g)	40.03	Corrected Dry Wt. of - #10 Material (g)	110.03
Wgt. Tare + Dry Soil (g)	39.95		
Weight of Tare (g)	8.38	Weight of - #200 Material (g)	7.31
Weight of Water (g)	0.08	Weight of - #10 ; + #200 Material (g)	102.72
Weight of Dry Soil (g)	31.57		
Moisture Content (%)	0.3	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	2331		
Wgt. Tare + Air Dry Soil (g)	507.70		
Weight of Tare (g)	95.09		
Air Dried Wgt. Total Sample (g)	412.61	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	411.57	Corrected Dry Sample Wt - #10 (g)	411.57

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.00	0.0	0.0	100.0	100.0
#40	0.425	0.05	0.0	0.0	100.0	100.0
#60	0.250	0.56	0.5	0.6	99.4	99.4
#140	0.106	93.17	84.7	85.2	14.8	14.8
#200	0.075	8.94	8.1	93.4	6.6	6.6
Pan	-	7.31	6.6	100.0	-	-

Notes :

Tested By TO Date 11/12/13 Checked By KC Date 11/20/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	360.6-361.1
Project No.	2013-465-001	Sample No.	ST-67
Lab ID	2013-465-001-038	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	10.0	22.1	4.80	5.2	4.8	0.01343	0.0364	4.8
5	10.0	22.1	4.80	5.2	4.8	0.01343	0.0230	4.8
15	10.0	22.1	4.80	5.2	4.8	0.01343	0.0133	4.8
36	10.0	22.1	4.80	5.2	4.8	0.01343	0.0086	4.8
67	10.0	22	4.83	5.2	4.7	0.01345	0.0063	4.7
250	9.5	22.1	4.80	4.7	4.3	0.01343	0.0033	4.3
1440	9.5	22	4.83	4.7	4.3	0.01345	0.0014	4.3

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	110.03	Hygroscopic Moisture Factor	0.997
Weight of Deflocculant (g)	5.0	a - Factor	1.006
		Percent Finer than # 10	100.00
		Specific Gravity	2.62 Measured

Notes:

Tested By **TO** Date **11/14/13** Checked By **KC** Date **11/20/13**

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	360.6-361.1
Project No.	2013-465-001	Sample No.	ST-67
Lab ID #	2013-465-001-038		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	G1395	6/4/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	360.6-361.1
Project No.	2013-465-001	Sample No.	ST-67
Lab ID #	2013-465-001-038		

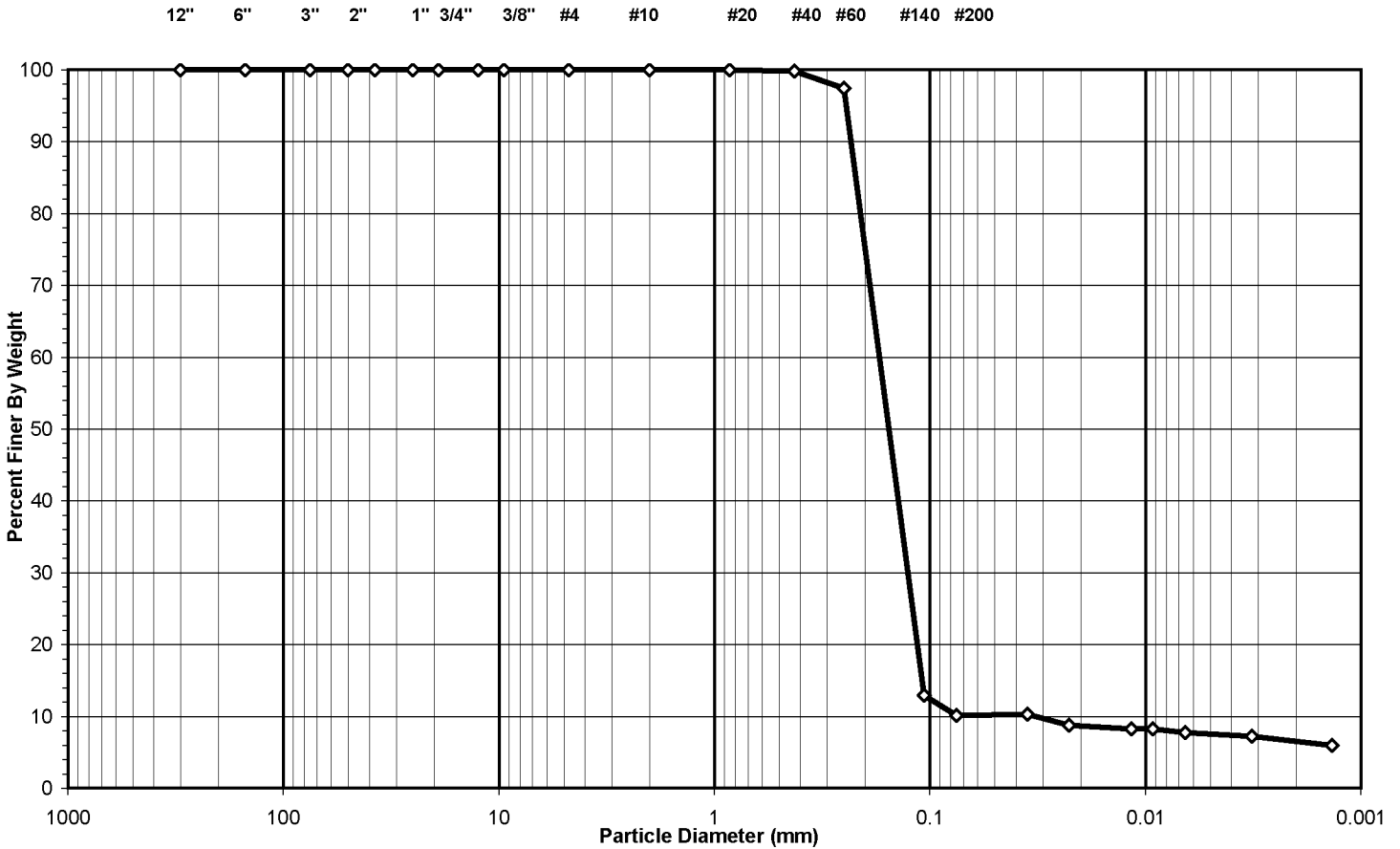
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G362	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1497	12/13/13
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	12/11/13
#200 Sieve	G1386	10/24/14
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-039

Boring No. R-6-1b
 Depth (ft) 383.4-383.9
 Sample No. ST-75
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel	sand			silt and clay fraction		
	cobble	gravel	sand			silt	clay	

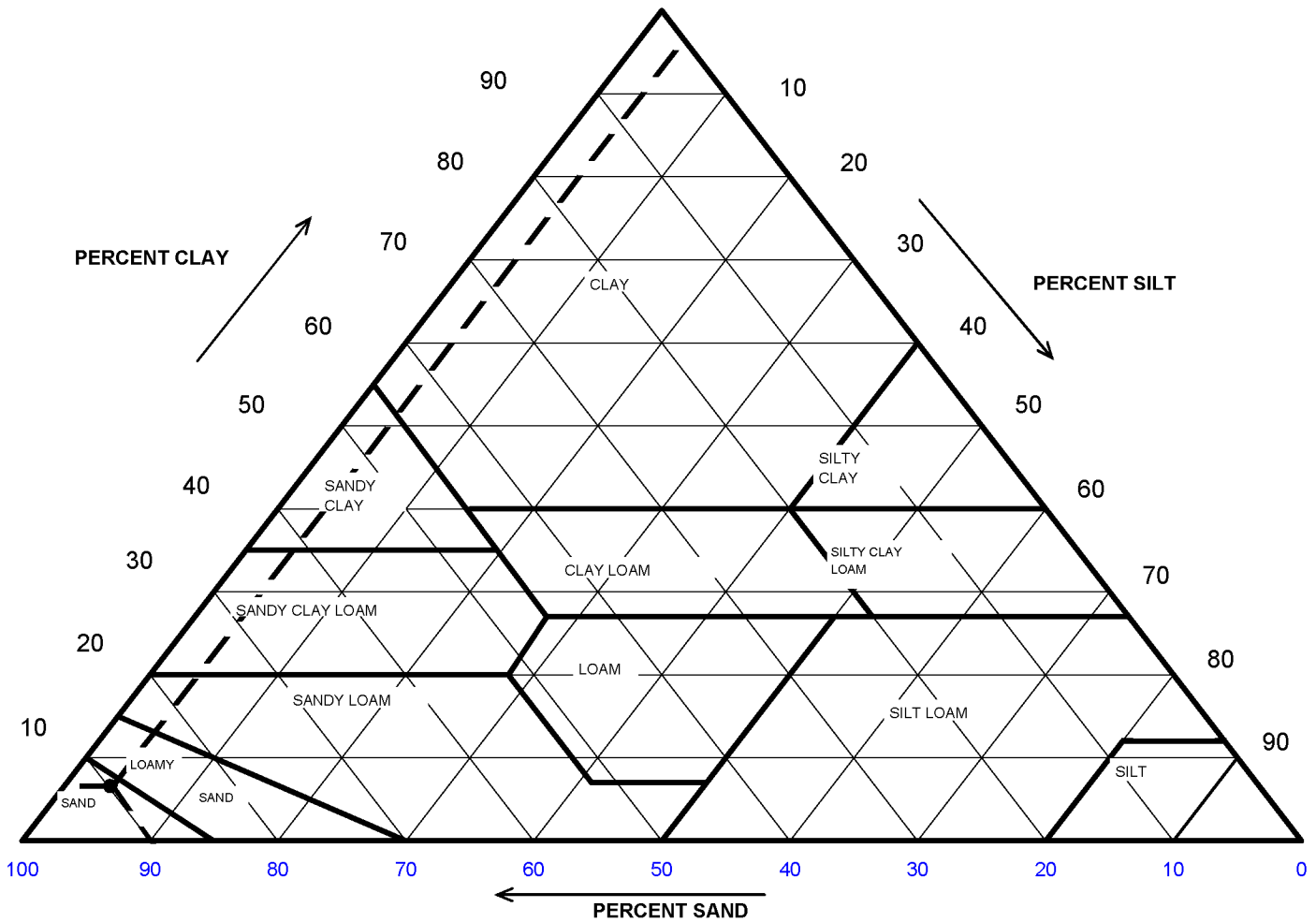


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	89.90
Finer Than #200	<i>Silt & Clay</i>	10.10
		D60 = 0.17
		D30 = 0.13 CC = 2.89
		D10 = 0.03 CU = 5.30
USCS Symbol	<i>SP-SM, TESTED</i>	
	<i>(NON-PLASTIC FINES)</i>	
USCS Classification	<i>POORLY GRADED SAND WITH SILT</i>	

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-039

Boring No. R-6-1b
 Depth (ft) 383.4-383.9
 Sample No. ST-75
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	89.78	89.78
0.05	10.22	<i>Silt</i>	3.68	3.68
0.002	6.54	<i>Clay</i>	6.54	6.54
USDA Classification:		SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-039

Boring No. R-6-1b
 Depth (ft) 383.4-383.9
 Sample No. ST-75
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	57	Air Dried - #10 Hydrometer Material (g)	98.15
Wgt. Tare + Wet Soil (g)	32.24	Corrected Dry Wt. of - #10 Material (g)	96.59
Wgt. Tare + Dry Soil (g)	31.86		
Weight of Tare (g)	8.27	Weight of - #200 Material (g)	9.75
Weight of Water (g)	0.38	Weight of - #10 ; + #200 Material (g)	86.84
Weight of Dry Soil (g)	23.59		
Moisture Content (%)	1.6	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	976		
Wgt. Tare + Air Dry Soil (g)	521.43		
Weight of Tare (g)	101.36		
Air Dried Wgt. Total Sample (g)	420.07	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	413.41	Corrected Dry Sample Wt - #10 (g)	413.41

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.02	0.0	0.0	100.0	100.0
#40	0.425	0.11	0.1	0.1	99.9	99.9
#60	0.250	2.30	2.4	2.5	97.5	97.5
#140	0.106	81.69	84.6	87.1	12.9	12.9
#200	0.075	2.72	2.8	89.9	10.1	10.1
Pan	-	9.75	10.1	100.0	-	-

Notes :

Tested By TO Date 11/18/13 Checked By JAM Date 11/21/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	383.4-383.9
Project No.	2013-465-001	Sample No.	ST-75
Lab ID	2013-465-001-039	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	14.5	22.7	4.61	9.9	10.3	0.01338	0.0353	10.3
5	13.0	22.7	4.61	8.4	8.8	0.01338	0.0225	8.8
19	12.5	22.7	4.61	7.9	8.2	0.01338	0.0116	8.2
30	12.5	22.7	4.61	7.9	8.2	0.01338	0.0092	8.2
60	12.0	22.8	4.58	7.4	7.7	0.01336	0.0065	7.7
250	11.5	22.9	4.55	6.9	7.3	0.01335	0.0032	7.3
1440	10.5	22.1	4.80	5.7	5.9	0.01347	0.0014	5.9

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	96.59	Hygroscopic Moisture Factor	0.984
Weight of Deflocculant (g)	5.0	a - Factor	1.008
		Percent Finer than # 10	100.00
		Specific Gravity	2.61 Measured

Notes:

Tested By TO Date 11/18/13 Checked By JAM Date 11/21/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	383.4-383.9
Project No.	2013-465-001	Sample No.	ST-75
Lab ID #	2013-465-001-039		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	G1395	6/4/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	383.4-383.9
Project No.	2013-465-001	Sample No.	ST-75
Lab ID #	2013-465-001-039		

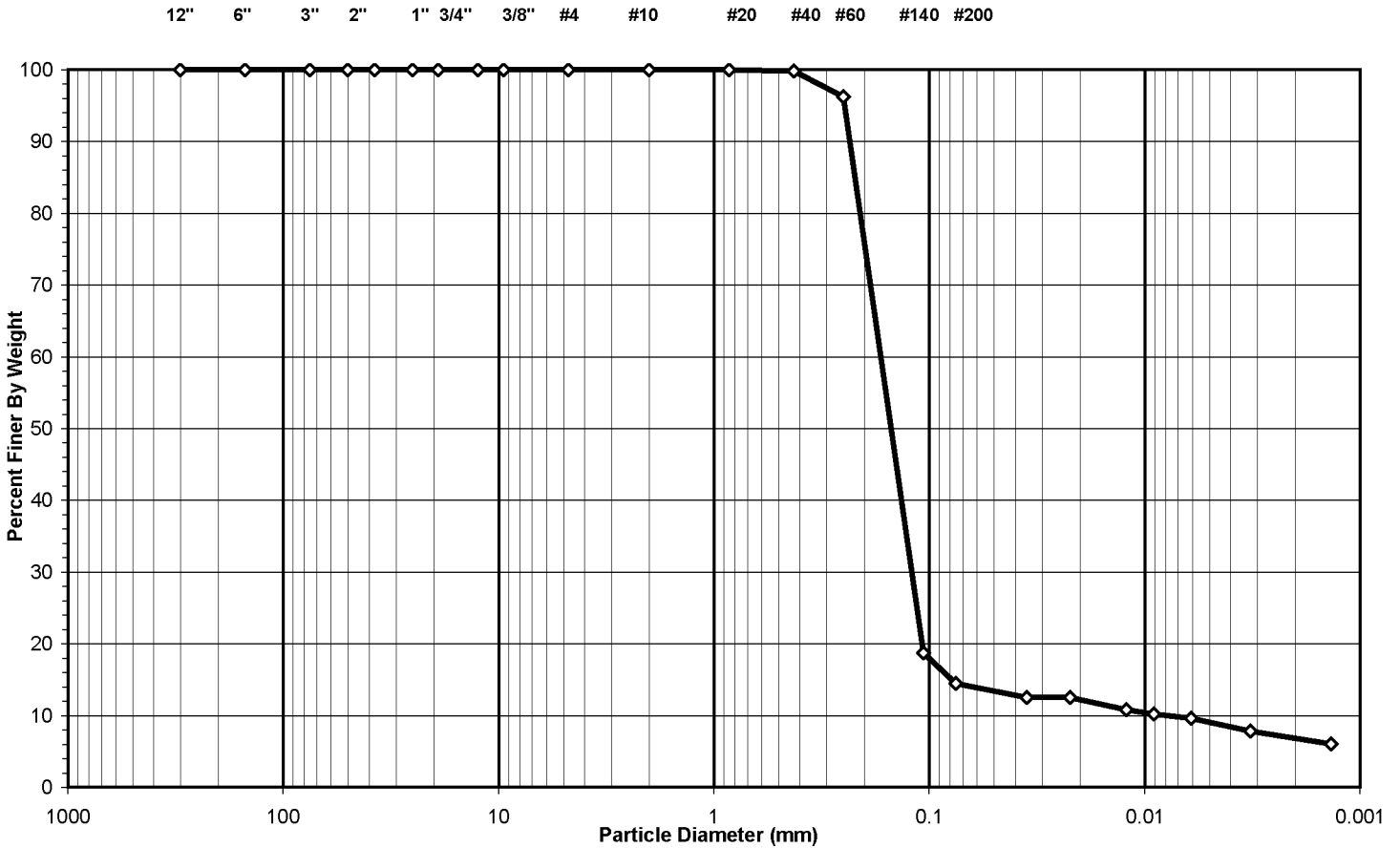
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G355	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1383	8/9/14
#40 Sieve	G1280	1/2/14
#60 Sieve	G1273	1/2/14
#140 Sieve	G1408	12/11/13
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-040

Boring No. R-6-1b
 Depth (ft) 403.0-403.5
 Sample No. ST-82
 Soil Color Greenish Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobbles	gravel	sand			silt and clay fraction		
	cobbles	gravel	sand			silt	clay	

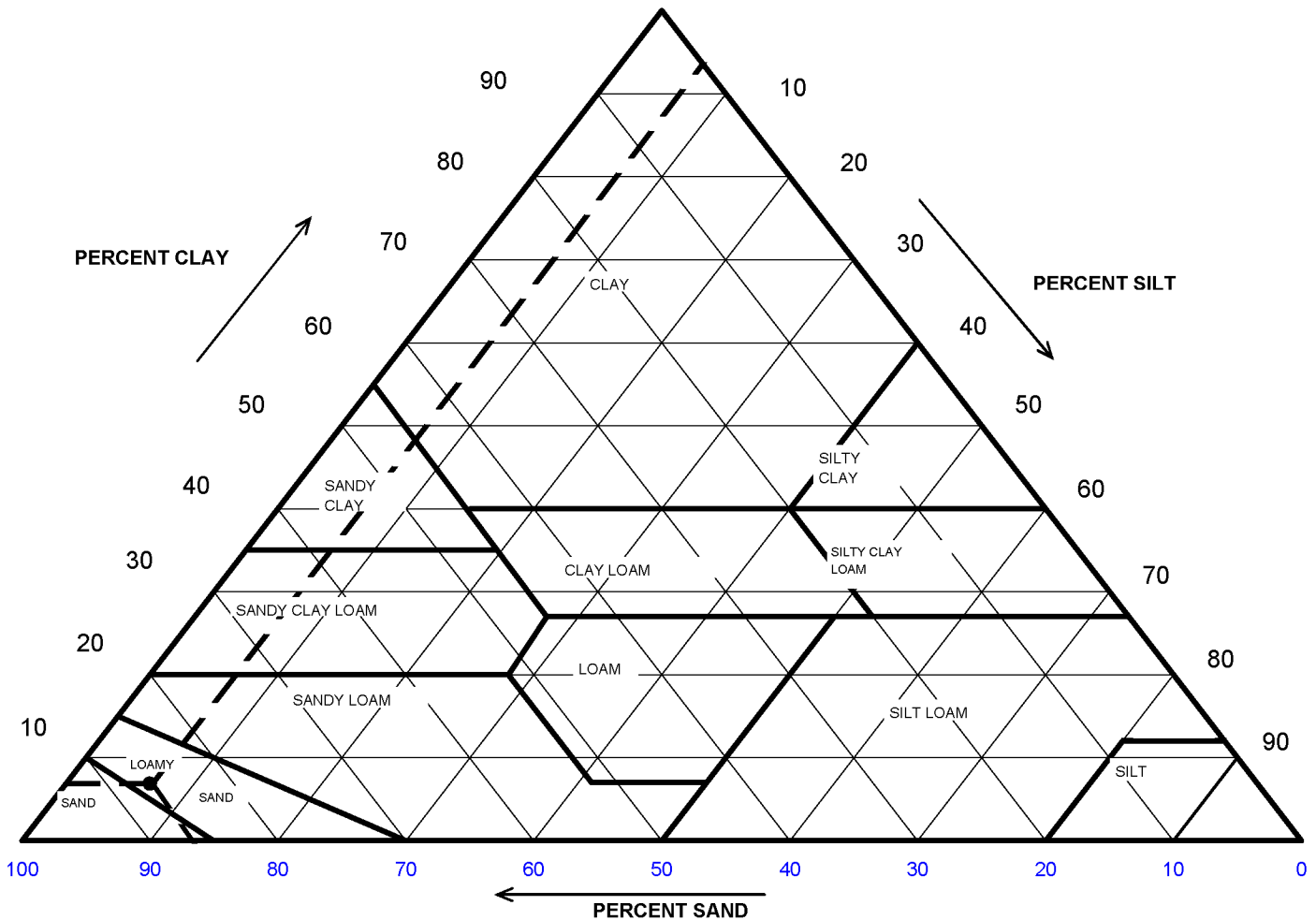


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	85.54
Finer Than #200	<i>Silt & Clay</i>	14.46
USCS Symbol <i>SM, TESTED</i> <i>(NON-PLASTIC FINES)</i>		
USCS Classification <i>SILTY SAND</i>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-040

Boring No. R-6-1b
 Depth (ft) 403.0-403.5
 Sample No. ST-82
 Soil Color Greenish Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	86.57	86.57
0.05	13.43	<i>Silt</i>	6.59	6.59
0.002	6.83	<i>Clay</i>	6.83	6.83
USDA Classification:		LOAMY SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-040

Boring No. R-6-1b
 Depth (ft) 403.0-403.5
 Sample No. ST-82
 Soil Color **Greenish Gray**

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	30	Air Dried - #10 Hydrometer Material (g)	91.11
Wgt. Tare + Wet Soil (g)	30.01	Corrected Dry Wt. of - #10 Material (g)	88.27
Wgt. Tare + Dry Soil (g)	29.34		
Weight of Tare (g)	8.50	Weight of - #200 Material (g)	12.76
Weight of Water (g)	0.67	Weight of - #10 ; + #200 Material (g)	75.51
Weight of Dry Soil (g)	20.84		
Moisture Content (%)	3.2	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	503		
Wgt. Tare + Air Dry Soil (g)	352.65		
Weight of Tare (g)	94.37		
Air Dried Wgt. Total Sample (g)	258.28	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	250.24	Corrected Dry Sample Wt - #10 (g)	250.24

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.03	0.0	0.0	100.0	100.0
#40	0.425	0.13	0.1	0.2	99.8	99.8
#60	0.250	3.14	3.6	3.7	96.3	96.3
#140	0.106	68.42	77.5	81.2	18.8	18.8
#200	0.075	3.79	4.3	85.5	14.5	14.5
Pan	-	12.76	14.5	100.0	-	-

Notes :

Tested By TO Date 12/4/13 Checked By KC Date 12/6/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-040

Boring No. R-6-1b
 Depth (ft) 403.0-403.5
 Sample No. ST-82
 Soil Color **Greenish Gray**

Elapsed Time (min)	R Measured	Temp. (°C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	15.5	22.9	4.55	10.9	12.5	0.01339	0.0351	12.5
5	15.5	22.9	4.55	10.9	12.5	0.01339	0.0222	12.5
17	14.0	22.9	4.55	9.4	10.8	0.01339	0.0121	10.8
31	13.5	22.9	4.55	8.9	10.2	0.01339	0.0090	10.2
69	13.0	22.8	4.58	8.4	9.6	0.01340	0.0061	9.6
250	11.5	22.6	4.64	6.9	7.8	0.01343	0.0032	7.8
1440	10.0	22.3	4.74	5.3	6.0	0.01348	0.0014	6.0

Soil Specimen Data		Other Corrections	
Wgt. of Dry Material (g)	88.27	Hygroscopic Moisture Factor	0.969
Weight of Deflocculant (g)	5.0	a - Factor	1.01
		Percent Finer than # 10	100.00
		Specific Gravity	2.60 Measured

Notes:

Tested By TO Date 12/4/13 Checked By KC Date 12/6/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	403.0-403.5
Project No.	2013-465-001	Sample No.	ST-82
Lab ID #	2013-465-001-040		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	NA	NA
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/4/14
Oven	G1118	11/23/14

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	403.0-403.5
Project No.	2013-465-001	Sample No.	ST-82
Lab ID #	2013-465-001-040		

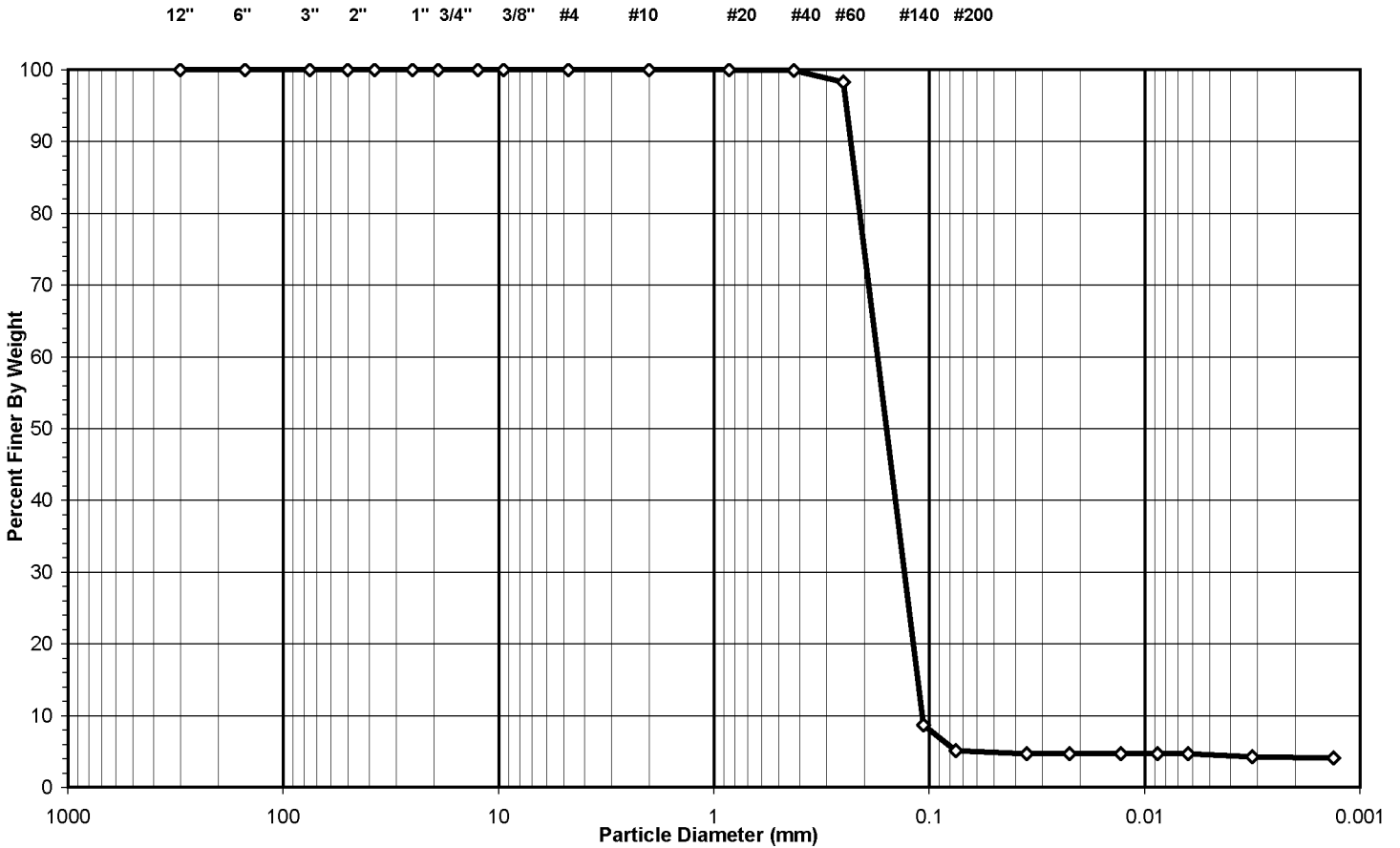
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/23/14
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G358	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G447	3/29/14
#10 Sieve	NA	NA
#20 Sieve	G1497	4/22/14
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	11/22/14
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-041

Boring No. R-6-1b
 Depth (ft) 421.5-422.0
 Sample No. ST-88
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobbles	gravel	sand			silt and clay fraction		
	cobbles	gravel	sand			silt	clay	

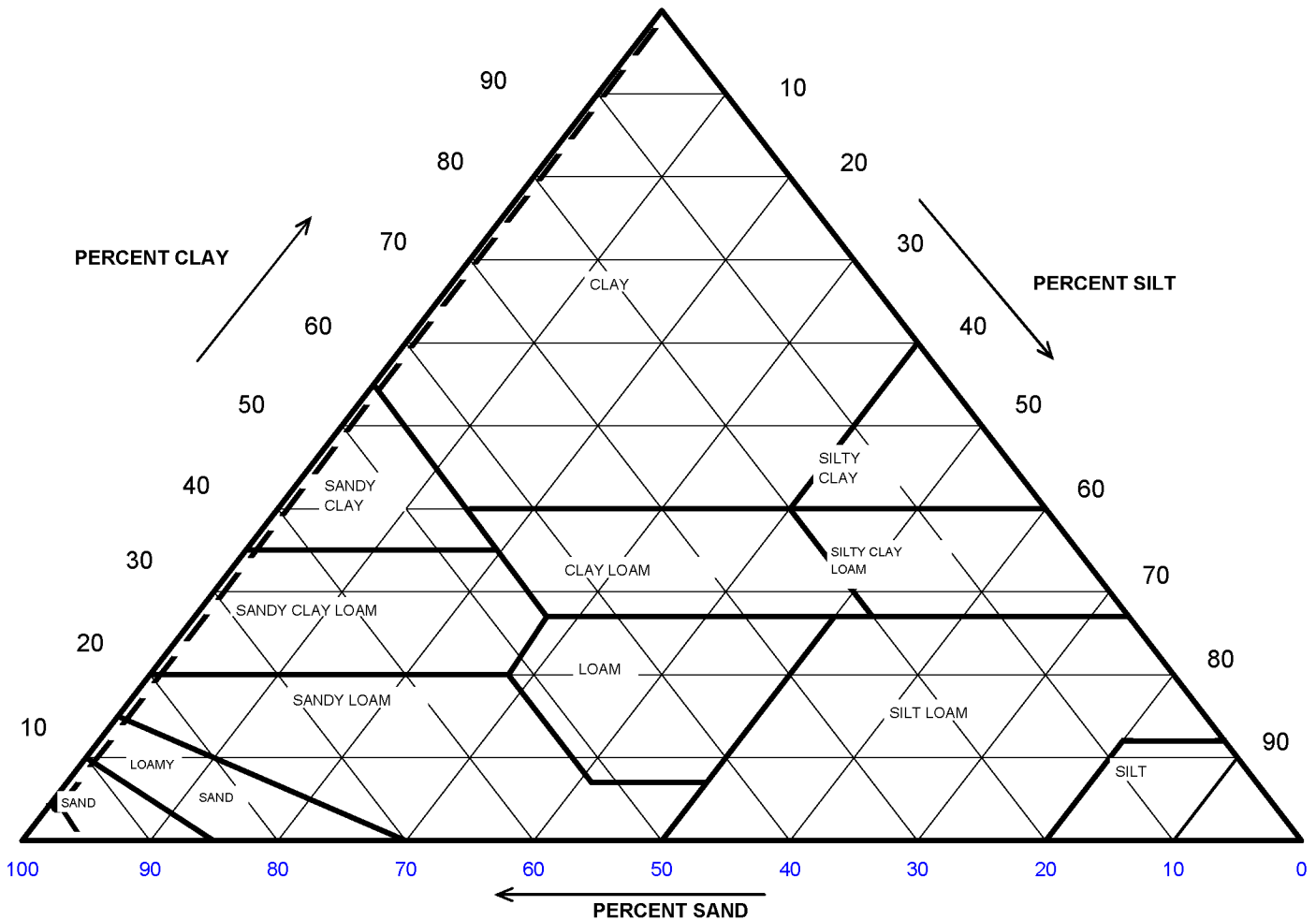


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	94.87
Finer Than #200	<i>Silt & Clay</i>	5.13
		D60 = 0.17
		D30 = 0.13 CC = 0.91
		D10 = 0.11 CU = 1.61
USCS Symbol	<i>SP-SM, TESTED</i>	
	<i>(NON-PLASTIC FINES)</i>	
USCS Classification	<i>POORLY GRADED SAND WITH SILT</i>	

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-041

Boring No. R-6-1b
 Depth (ft) 421.5-422.0
 Sample No. ST-88
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	95.13	95.13
0.05	4.87	<i>Silt</i>	0.71	0.71
0.002	4.16	<i>Clay</i>	4.16	4.16
USDA Classification:		SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-041

Boring No. R-6-1b
 Depth (ft) 421.5-422.0
 Sample No. ST-88
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	53	Air Dried - #10 Hydrometer Material (g)	115.12
Wgt. Tare + Wet Soil (g)	39.51	Corrected Dry Wt. of - #10 Material (g)	114.63
Wgt. Tare + Dry Soil (g)	39.38		
Weight of Tare (g)	8.72	Weight of - #200 Material (g)	5.88
Weight of Water (g)	0.13	Weight of - #10 ; + #200 Material (g)	108.75
Weight of Dry Soil (g)	30.66		
Moisture Content (%)	0.4	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	922		
Wgt. Tare + Air Dry Soil (g)	748.91		
Weight of Tare (g)	100.05		
Air Dried Wgt. Total Sample (g)	648.86	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	646.12	Corrected Dry Sample Wt - #10 (g)	646.12

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.02	0.0	0.0	100.0	100.0
#40	0.425	0.05	0.0	0.1	99.9	99.9
#60	0.250	1.93	1.7	1.7	98.3	98.3
#140	0.106	102.72	89.6	91.4	8.6	8.6
#200	0.075	4.03	3.5	94.9	5.1	5.1
Pan	-	5.88	5.1	100.0	-	-

Notes :

Tested By TO Date 11/18/13 Checked By JAM Date 11/21/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	421.5-422.0
Project No.	2013-465-001	Sample No.	ST-88
Lab ID	2013-465-001-041	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	10.0	22.7	4.61	5.4	4.7	0.01302	0.0352	4.7
5	10.0	22.7	4.61	5.4	4.7	0.01302	0.0223	4.7
15	10.0	22.7	4.61	5.4	4.7	0.01302	0.0129	4.7
33	10.0	22.7	4.61	5.4	4.7	0.01302	0.0087	4.7
63	10.0	22.8	4.58	5.4	4.7	0.01300	0.0063	4.7
250	9.5	22.9	4.55	4.9	4.3	0.01299	0.0032	4.3
1440	9.5	22.1	4.80	4.7	4.1	0.01311	0.0013	4.1

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	114.63	Hygroscopic Moisture Factor	0.996
Weight of Deflocculant (g)	5.0	a - Factor	0.99
		Percent Finer than # 10	100.00
		Specific Gravity	2.70 Assumed

Notes:

Tested By TO Date 11/18/13 Checked By JAM Date 11/21/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	421.5-422.0
Project No.	2013-465-001	Sample No.	ST-88
Lab ID #	2013-465-001-041		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	G1395	6/4/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	421.5-422.0
Project No.	2013-465-001	Sample No.	ST-88
Lab ID #	2013-465-001-041		

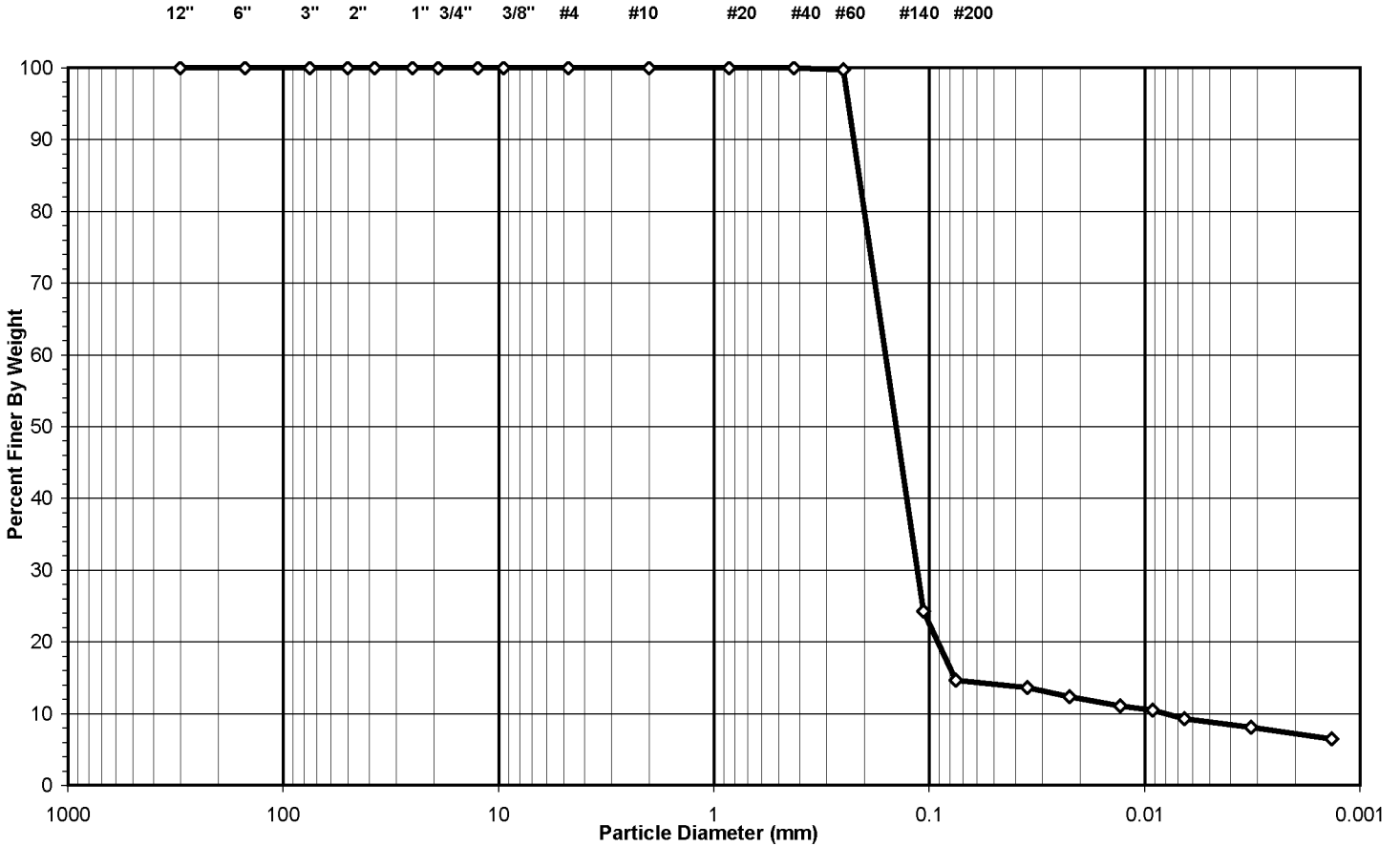
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G207	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1383	8/9/14
#40 Sieve	G1280	1/2/14
#60 Sieve	G1273	1/2/14
#140 Sieve	G1408	12/11/13
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-042

Boring No. R-6-1b
 Depth (ft) 447.9-448.4
 Sample No. ST-97
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel	sand			silt and clay fraction		
	cobble	gravel	sand			silt	clay	

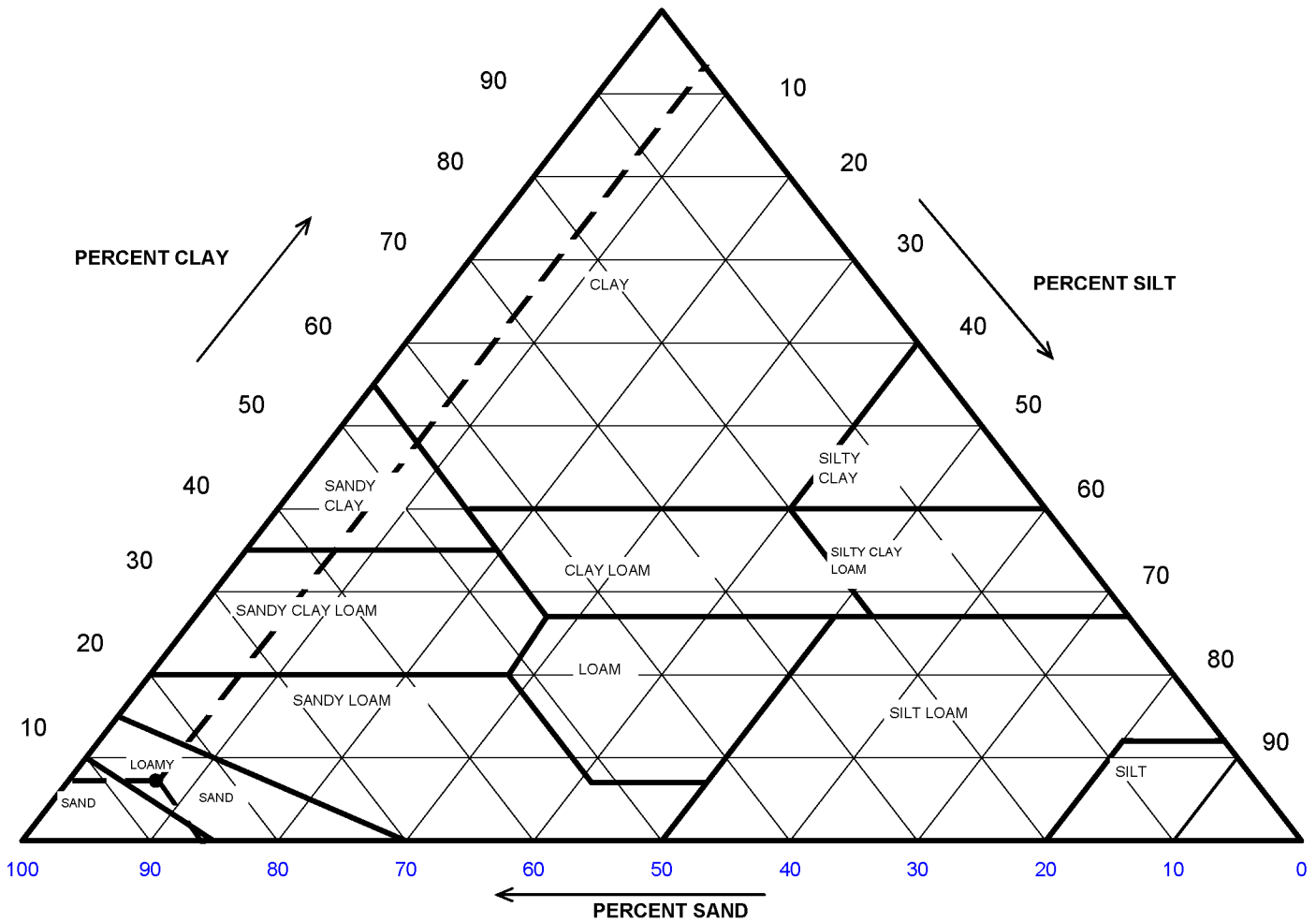


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	85.36
Finer Than #200	<i>Silt & Clay</i>	14.64
USCS Symbol <i>SM, TESTED</i> <i>(NON-PLASTIC FINES)</i>		
USCS Classification <i>SILTY SAND</i>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-042

Boring No. R-6-1b
 Depth (ft) 447.9-448.4
 Sample No. ST-97
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	85.90	85.90
0.05	14.10	<i>Silt</i>	6.89	6.89
0.002	7.21	<i>Clay</i>	7.21	7.21
USDA Classification:		LOAMY SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-042

Boring No. R-6-1b
 Depth (ft) 447.9-448.4
 Sample No. ST-97
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	31	Air Dried - #10 Hydrometer Material (g)	81.63
Wgt. Tare + Wet Soil (g)	30.39	Corrected Dry Wt. of - #10 Material (g)	80.44
Wgt. Tare + Dry Soil (g)	30.07		
Weight of Tare (g)	8.47	Weight of - #200 Material (g)	11.78
Weight of Water (g)	0.32	Weight of - #10 ; + #200 Material (g)	68.66
Weight of Dry Soil (g)	21.60		
Moisture Content (%)	1.5	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	659		
Wgt. Tare + Air Dry Soil (g)	612.75		
Weight of Tare (g)	95.83		
Air Dried Wgt. Total Sample (g)	516.92	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	509.37	Corrected Dry Sample Wt - #10 (g)	509.37

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.00	0.0	0.0	100.0	100.0
#40	0.425	0.01	0.0	0.0	100.0	100.0
#60	0.250	0.22	0.3	0.3	99.7	99.7
#140	0.106	60.68	75.4	75.7	24.3	24.3
#200	0.075	7.75	9.6	85.4	14.6	14.6
Pan	-	11.78	14.6	100.0	-	-

Notes :

Tested By TO Date 11/18/13 Checked By JAM Date 11/21/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	447.9-448.4
Project No.	2013-465-001	Sample No.	ST-97
Lab ID	2013-465-001-042	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	15.5	22.7	4.61	10.9	13.6	0.01334	0.0350	13.6
5	14.5	22.7	4.61	9.9	12.4	0.01334	0.0223	12.4
15	13.5	22.7	4.61	8.9	11.1	0.01334	0.0129	11.1
30	13.0	22.7	4.61	8.4	10.5	0.01334	0.0092	10.5
60	12.0	22.8	4.58	7.4	9.3	0.01332	0.0065	9.3
250	11.0	22.9	4.55	6.4	8.1	0.01330	0.0032	8.1
1440	10.0	22.1	4.80	5.2	6.5	0.01343	0.0014	6.5

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	80.44	Hygroscopic Moisture Factor	0.985
Weight of Deflocculant (g)	5.0	a - Factor	1.006
		Percent Finer than # 10	100.00
		Specific Gravity	2.62 Measured

Notes:

Tested By TO Date 11/18/13 Checked By JAM Date 11/21/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	447.9-448.4
Project No.	2013-465-001	Sample No.	ST-97
Lab ID #	2013-465-001-042		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	G1395	6/4/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	447.9-448.4
Project No.	2013-465-001	Sample No.	ST-97
Lab ID #	2013-465-001-042		

Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G366	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1383	8/9/14
#40 Sieve	G1280	1/2/14
#60 Sieve	G1273	1/2/14
#140 Sieve	G1408	12/11/13
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

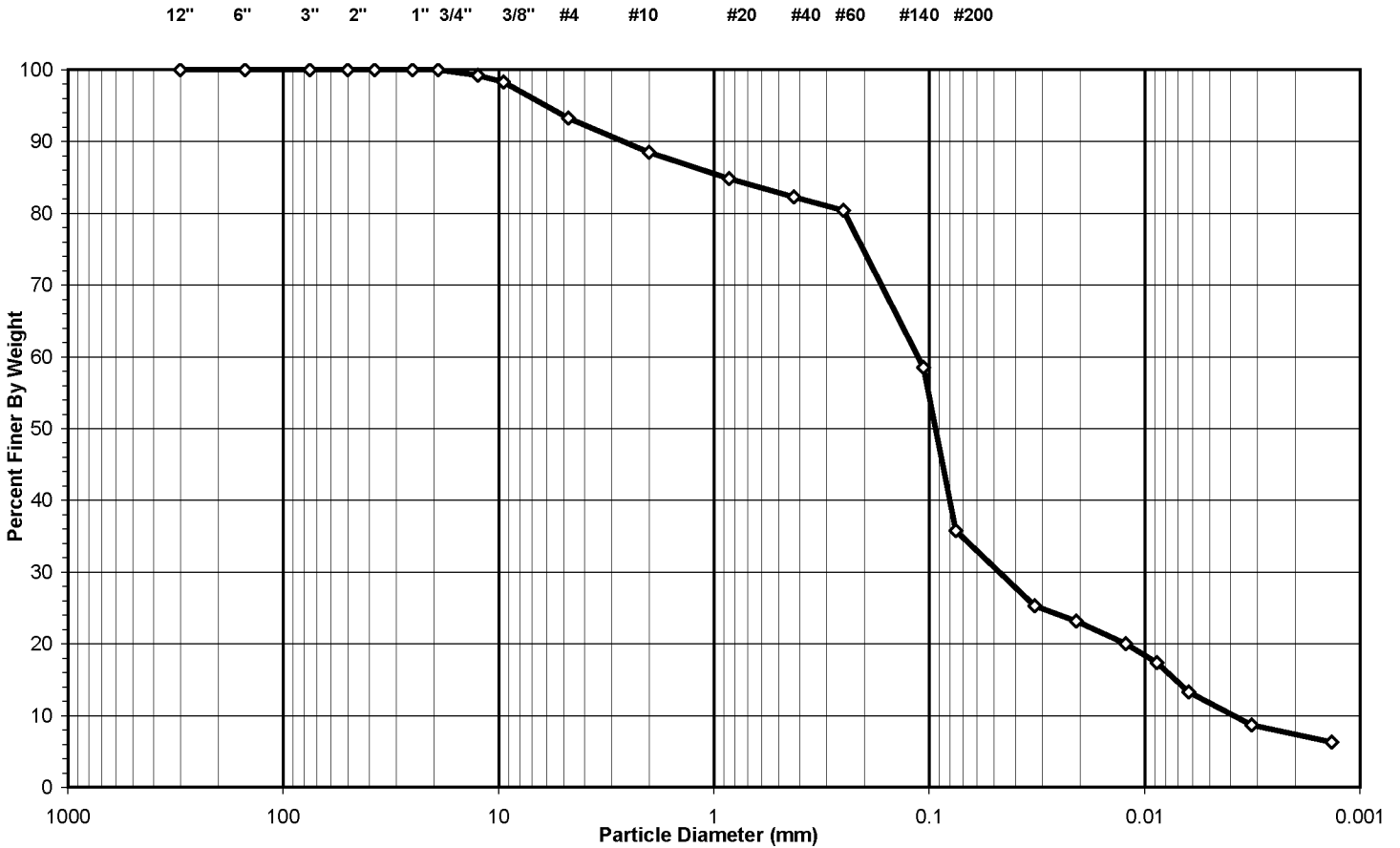


SIEVE AND HYDROMETER ANALYSIS
ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-001

Boring No. R-7-1
 Depth (ft) 138.1-138.6
 Sample No. ST-1
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel	sand			silt and clay fraction		
	cobble	gravel	sand			silt	clay	

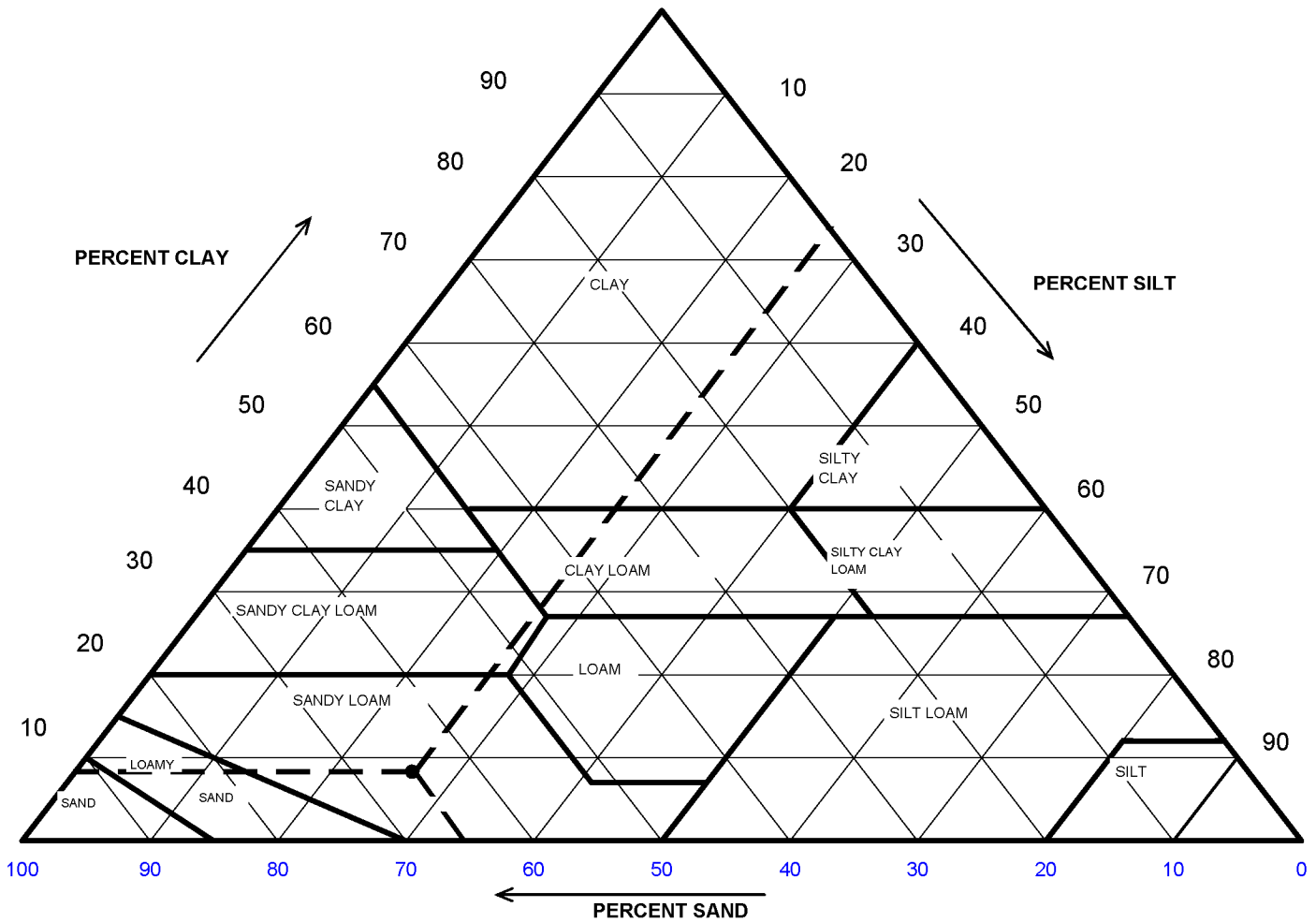


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	Gravel	6.74
#4 To #200	Sand	57.49
Finer Than #200	Silt & Clay	35.77
USCS Symbol	SM, TESTED (NON-PLASTIC FINES)	
USCS Classification	SILTY SAND	

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-001

Boring No. R-7-1
 Depth (ft) 138.1-138.6
 Sample No. ST-1
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	11.46	0.00
2	88.54	<i>Sand</i>	57.83	65.32
0.05	30.71	<i>Silt</i>	23.34	26.36
0.002	7.37	<i>Clay</i>	7.37	8.32
USDA Classification:		SANDY LOAM		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-001

Boring No. R-7-1
 Depth (ft) 138.1-138.6
 Sample No. ST-1
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	30	Air Dried - #10 Hydrometer Material (g)	88.64
Wgt. Tare + Wet Soil (g)	40.27	Corrected Dry Wt. of - #10 Material (g)	84.18
Wgt. Tare + Dry Soil (g)	38.67		
Weight of Tare (g)	8.49	Weight of - #200 Material (g)	34.01
Weight of Water (g)	1.60	Weight of - #10 ; + #200 Material (g)	50.17
Weight of Dry Soil (g)	30.18		
Moisture Content (%)	5.3	J-FACTOR (%FINER THAN #10)	0.8854
Soil Specimen Data			
Tare No.	693		
Wgt. Tare + Air Dry Soil (g)	880.00		
Weight of Tare (g)	89.83		
Air Dried Wgt. Total Sample (g)	790.17	Dry Weight of Material Retained on #10 (g)	86.52
Total Dry Sample Weight (g)	754.74	Corrected Dry Sample Wt - #10 (g)	668.22

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	5.99	0.8	0.8	99.2	99.2
3/8"	9.50	6.89	0.9	1.7	98.3	98.3
#4	4.75	38.02	5.0	6.7	93.3	93.3
#10	2.00	35.62	4.7	11.5	88.5	88.5
#20	0.85	3.54	4.2	4.2	95.8	84.8
#40	0.425	2.38	2.8	7.0	93.0	82.3
#60	0.250	1.79	2.1	9.2	90.8	80.4
#140	0.106	20.85	24.8	33.9	66.1	58.5
#200	0.075	21.61	25.7	59.6	40.4	35.8
Pan	-	34.01	40.4	100.0	-	-

Notes :

Tested By BK Date 12/10/13 Checked By KC Date 12/11/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	138.1-138.6
Project No.	2013-465-001	Sample No.	ST-1
Lab ID	2013-465-001-001	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	29.0	21.4	5.02	24.0	28.5	0.01346	0.0323	25.3
5	27.0	21.4	5.02	22.0	26.2	0.01346	0.0207	23.2
15	24.0	21.4	5.02	19.0	22.6	0.01346	0.0122	20.0
30	21.5	21.4	5.02	16.5	19.6	0.01346	0.0088	17.4
62	17.5	21.9	4.87	12.6	15.0	0.01338	0.0062	13.3
250	13.0	22.2	4.77	8.2	9.8	0.01333	0.0032	8.7
1440	11.0	21.3	5.05	5.9	7.1	0.01348	0.0014	6.3

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	84.18	Hygroscopic Moisture Factor	0.950
Weight of Deflocculant (g)	5.0	a - Factor	1.002
		Percent Finer than # 10	88.54
		Specific Gravity	2.64 Measured

Notes:

Tested By TO Date 12/9/13 Checked By KC Date 12/11/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	138.1-138.6
Project No.	2013-465-001	Sample No.	ST-1
Lab ID #	2013-465-001-001		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	G009	9/13/14
3/8" Sieve	G1251	9/13/14
#4 Sieve	G802	9/16/14
#10 Sieve	G894	8/9/14
Sieve Shaker	G1067	9/20/14
Additional Balance	G1394	5/15/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/4/14
Oven	G1118	11/23/14

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	138.1-138.6
Project No.	2013-465-001	Sample No.	ST-1
Lab ID #	2013-465-001-001		

Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/23/14
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G1401	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1394	5/15/14
#10 Sieve	NA	NA
#20 Sieve	G1497	4/22/14
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	11/22/14
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

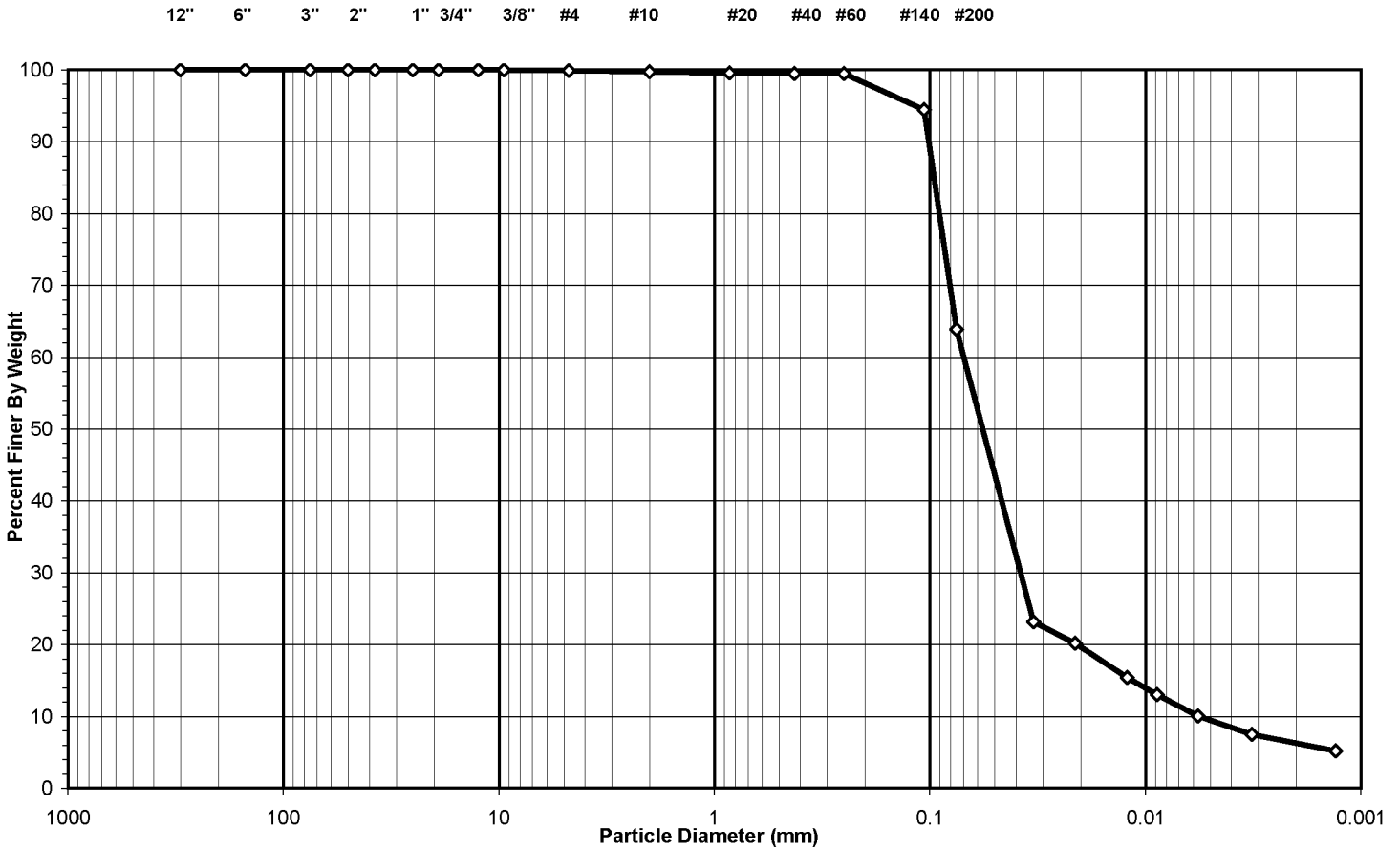


SIEVE AND HYDROMETER ANALYSIS
ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-002

Boring No. R-7-1
 Depth (ft) 159.6-160.7
 Sample No. ST-2
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS				HYDROMETER		
	cobble	gravel	sand		silt and clay fraction		
	cobble	gravel	sand		silt	clay	

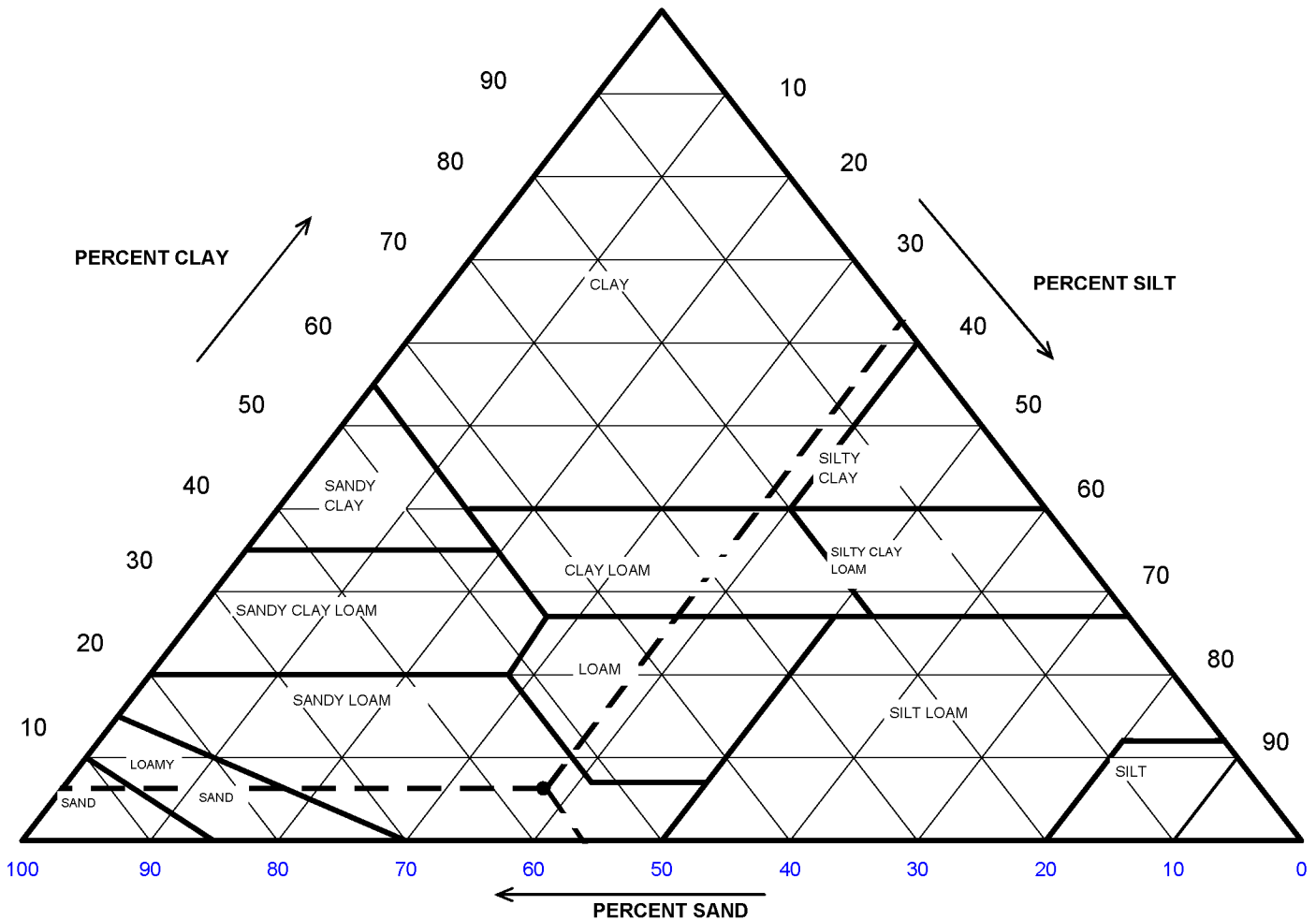


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	Gravel	0.07
#4 To #200	Sand	36.05
Finer Than #200	Silt & Clay	63.88
USCS Symbol	ML, TESTED (NON-PLASTIC FINES)	
USCS Classification	SANDY SILT	

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-002

Boring No. R-7-1
 Depth (ft) 159.6-160.7
 Sample No. ST-2
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.28	0.00
2	99.72	<i>Sand</i>	55.89	56.05
0.05	43.82	<i>Silt</i>	37.53	37.64
0.002	6.29	<i>Clay</i>	6.29	6.31
USDA Classification:		SANDY LOAM		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-002

Boring No. R-7-1
 Depth (ft) 159.6-160.7
 Sample No. ST-2
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	40	Air Dried - #10 Hydrometer Material (g)	84.23
Wgt. Tare + Wet Soil (g)	26.96	Corrected Dry Wt. of - #10 Material (g)	83.50
Wgt. Tare + Dry Soil (g)	26.80		
Weight of Tare (g)	8.42	Weight of - #200 Material (g)	53.49
Weight of Water (g)	0.16	Weight of - #10 ; + #200 Material (g)	30.01
Weight of Dry Soil (g)	18.38		
Moisture Content (%)	0.9	J-FACTOR (%FINER THAN #10)	0.9972
Soil Specimen Data			
Tare No.	49		
Wgt. Tare + Air Dry Soil (g)	1222.70		
Weight of Tare (g)	199.88		
Air Dried Wgt. Total Sample (g)	1022.82	Dry Weight of Material Retained on #10 (g)	2.87
Total Dry Sample Weight (g)	1014.02	Corrected Dry Sample Wt - #10 (g)	1011.15

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.73	0.1	0.1	99.9	99.9
#10	2.00	2.14	0.2	0.3	99.7	99.7
#20	0.85	0.09	0.1	0.1	99.9	99.6
#40	0.425	0.07	0.1	0.2	99.8	99.5
#60	0.250	0.05	0.1	0.3	99.7	99.5
#140	0.106	4.20	5.0	5.3	94.7	94.5
#200	0.075	25.60	30.7	35.9	64.1	63.9
Pan	-	53.49	64.1	100.0	-	-

Notes :

Tested By PC Date 11/20/13 Checked By KC Date 11/25/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	159.6-160.7
Project No.	2013-465-001	Sample No.	ST-2
Lab ID	2013-465-001-002	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	24.0	22.7	4.61	19.4	23.3	0.01325	0.0330	23.2
5	21.5	22.7	4.61	16.9	20.3	0.01325	0.0212	20.2
16	17.5	22.7	4.61	12.9	15.5	0.01325	0.0121	15.4
31	15.5	22.7	4.61	10.9	13.1	0.01325	0.0088	13.0
77	13.0	22.7	4.61	8.4	10.1	0.01325	0.0057	10.0
250	11.0	22.4	4.71	6.3	7.6	0.01330	0.0032	7.5
1527	9.0	22.5	4.68	4.3	5.2	0.01329	0.0013	5.2

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	83.50	Hygroscopic Moisture Factor	0.991
Weight of Deflocculant (g)	5.0	a - Factor	1.002
		Percent Finer than # 10	99.72
		Specific Gravity	2.64 Measured

Notes:

Tested By **TO** Date **11/20/13** Checked By **KC** Date **11/25/13**

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	159.6-160.7
Project No.	2013-465-001	Sample No.	ST-2
Lab ID #	2013-465-001-002		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	G718	9/13/14
3/8" Sieve	G414	9/13/14
#4 Sieve	G620	11/8/14
#10 Sieve	G893	12/11/13
Sieve Shaker	G1067	9/20/14
Additional Balance	G1395	6/4/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	159.6-160.7
Project No.	2013-465-001	Sample No.	ST-2
Lab ID #	2013-465-001-002		

Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G356	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1497	12/13/13
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	12/11/13
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

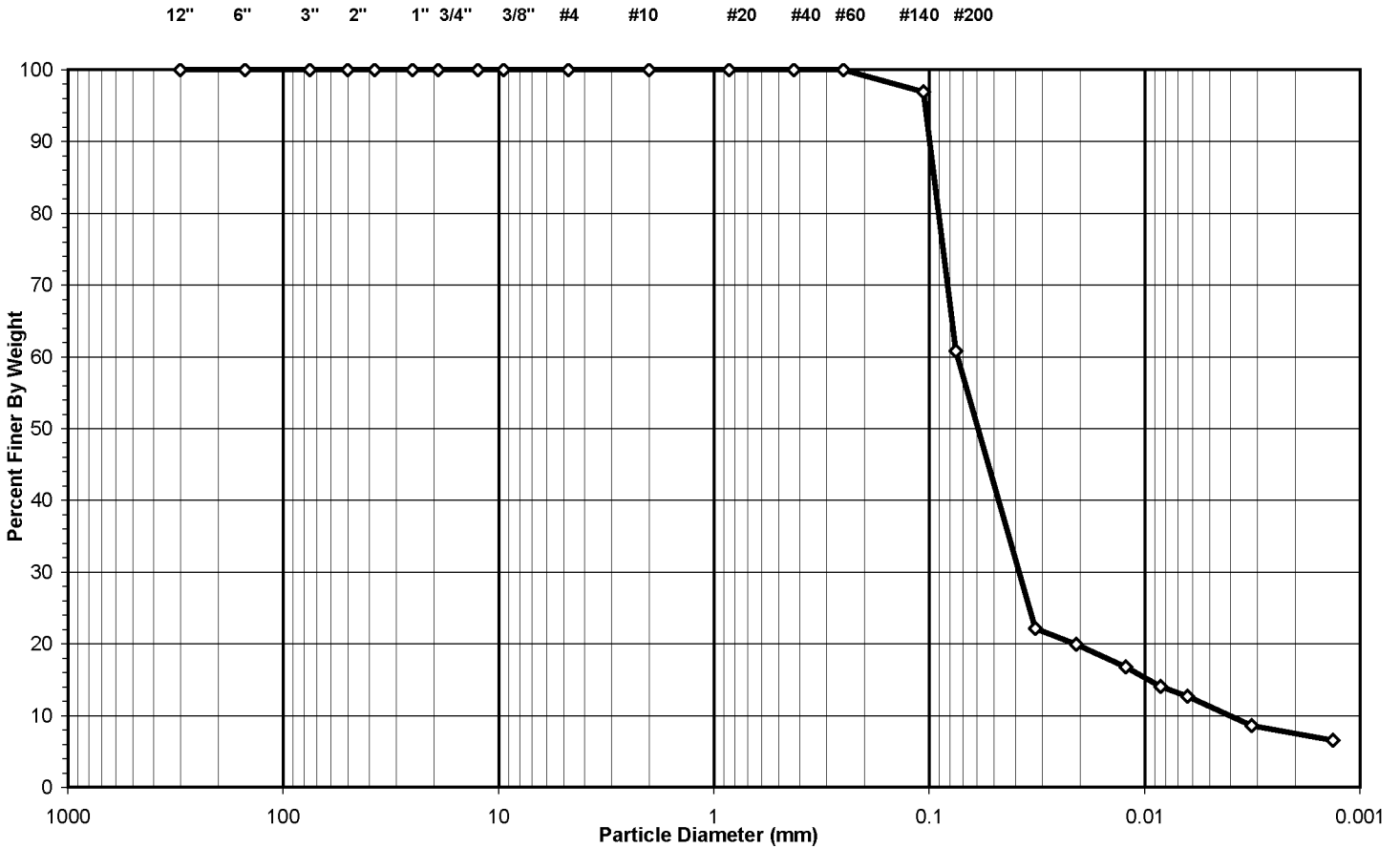


SIEVE AND HYDROMETER ANALYSIS
ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-003

Boring No. R-7-1
 Depth (ft) 189.6-190.1
 Sample No. ST-4
 Soil Color Greenish Gray

USCS USDA	SIEVE ANALYSIS				HYDROMETER		
	cobble	gravel	sand		silt and clay fraction		
	cobble	gravel	sand		silt	clay	

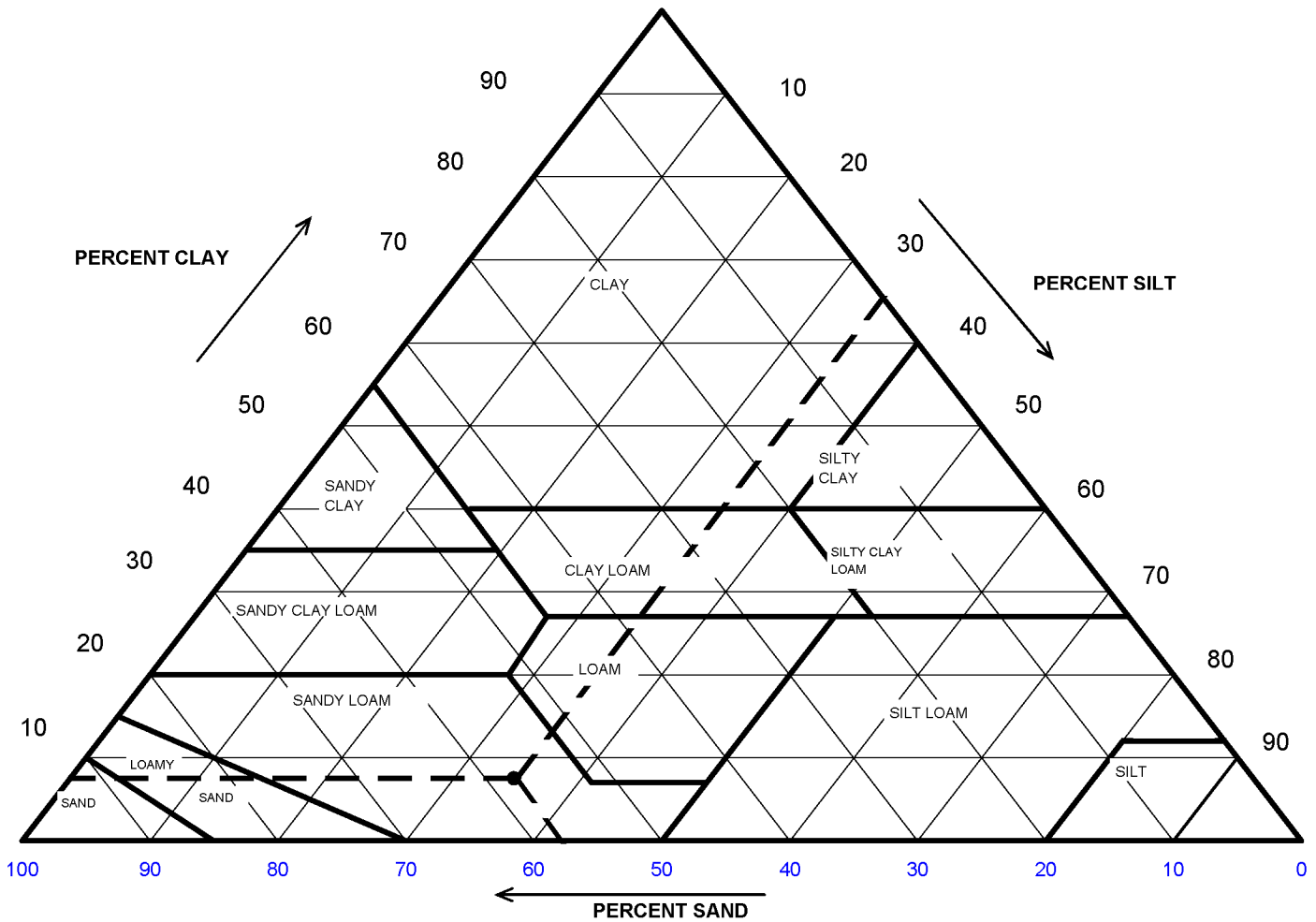


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	Gravel	0.00
#4 To #200	Sand	39.21
Finer Than #200	Silt & Clay	60.79
USCS Symbol	ML, TESTED (NON-PLASTIC FINES)	
USCS Classification	SANDY SILT	

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-003

Boring No. R-7-1
 Depth (ft) 189.6-190.1
 Sample No. ST-4
 Soil Color Greenish Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	57.73	57.73
0.05	42.27	<i>Silt</i>	34.72	34.72
0.002	7.54	<i>Clay</i>	7.54	7.54
USDA Classification:		SANDY LOAM		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-003

Boring No. R-7-1
 Depth (ft) 189.6-190.1
 Sample No. ST-4
 Soil Color **Greenish Gray**

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	20	Air Dried - #10 Hydrometer Material (g)	112.57
Wgt. Tare + Wet Soil (g)	25.21	Corrected Dry Wt. of - #10 Material (g)	111.30
Wgt. Tare + Dry Soil (g)	25.02		
Weight of Tare (g)	8.34	Weight of - #200 Material (g)	67.66
Weight of Water (g)	0.19	Weight of - #10 ; + #200 Material (g)	43.64
Weight of Dry Soil (g)	16.68		
Moisture Content (%)	1.1	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	517		
Wgt. Tare + Air Dry Soil (g)	316.50		
Weight of Tare (g)	94.56		
Air Dried Wgt. Total Sample (g)	221.94	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	219.44	Corrected Dry Sample Wt - #10 (g)	219.44

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.00	0.0	0.0	100.0	100.0
#40	0.425	0.00	0.0	0.0	100.0	100.0
#60	0.250	0.02	0.0	0.0	100.0	100.0
#140	0.106	3.36	3.0	3.0	97.0	97.0
#200	0.075	40.26	36.2	39.2	60.8	60.8
Pan	-	67.66	60.8	100.0	-	-

Notes :

Tested By TO Date 11/11/13 Checked By KC Date 11/18/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	189.6-190.1
Project No.	2013-465-001	Sample No.	ST-4
Lab ID	2013-465-001-003	Soil Color	Greenish Gray

Elapsed Time (min)	R Measured	Temp. (°C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	29.5	21.7	4.93	24.6	22.2	0.01345	0.0322	22.2
5	27.0	21.7	4.93	22.1	19.9	0.01345	0.0207	19.9
15	23.5	21.7	4.93	18.6	16.8	0.01345	0.0123	16.8
33	20.5	21.7	4.93	15.6	14.0	0.01345	0.0084	14.0
60	19.0	21.7	4.93	14.1	12.7	0.01345	0.0063	12.7
250	14.5	21.7	4.93	9.6	8.6	0.01345	0.0032	8.6
1440	12.0	22.4	4.71	7.3	6.6	0.01334	0.0013	6.6

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	111.30	Hygroscopic Moisture Factor	0.989
Weight of Deflocculant (g)	5.0	a - Factor	1.004
		Percent Finer than # 10	100.00
		Specific Gravity	2.63 Measured

Notes:

Tested By **TO** Date **11/12/13** Checked By **KC** Date **11/18/13**

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	189.6-190.1
Project No.	2013-465-001	Sample No.	ST-4
Lab ID #	2013-465-001-003		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1395	6/4/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	NA	NA
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	189.6-190.1
Project No.	2013-465-001	Sample No.	ST-4
Lab ID #	2013-465-001-003		

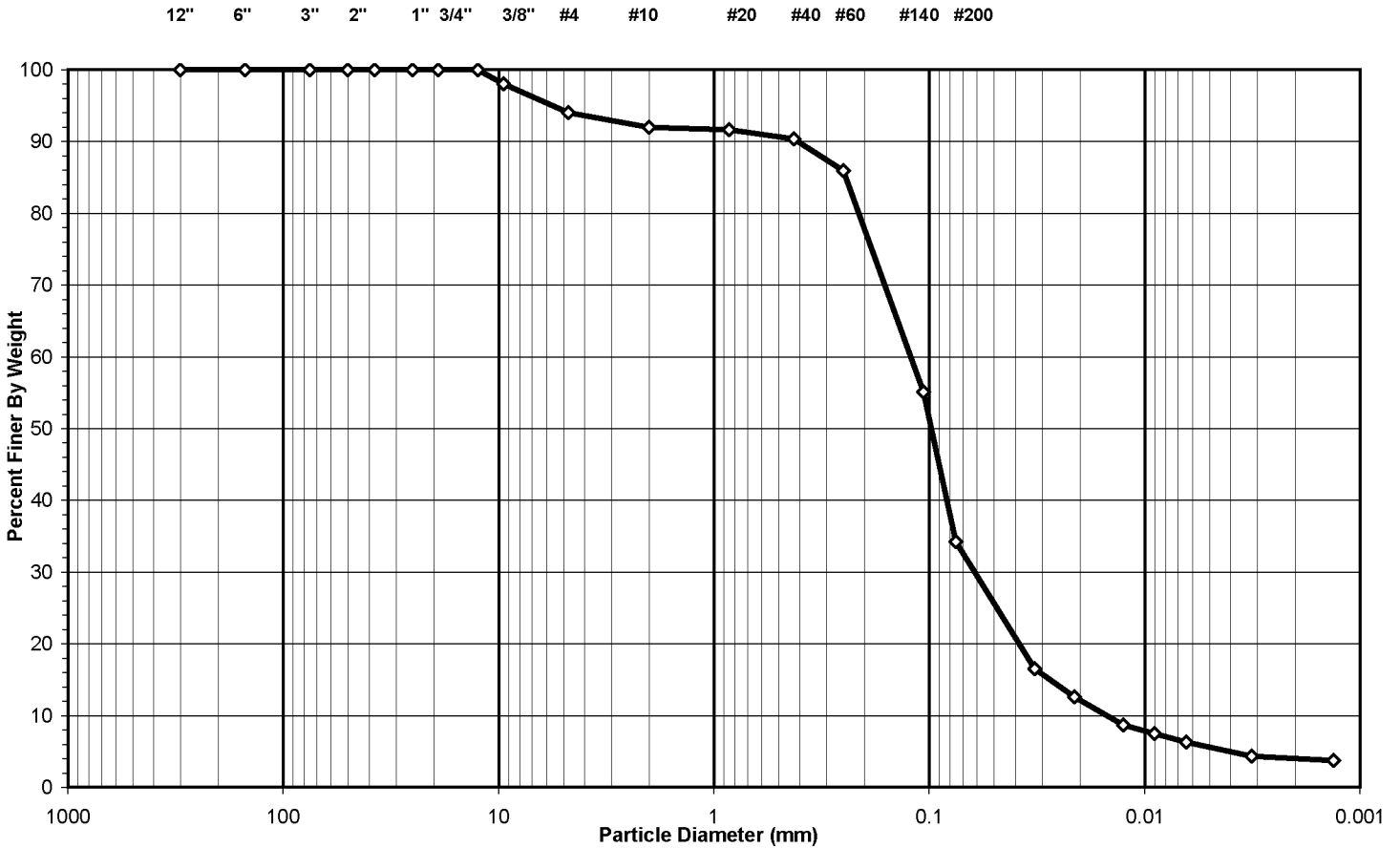
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G205	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1497	12/13/13
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	12/11/13
#200 Sieve	G1386	10/24/14
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-004

Boring No. R-7-1
 Depth (ft) 223.1-223.6
 Sample No. ST-6
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel	sand			silt and clay fraction		
	cobble	gravel	sand			silt	clay	

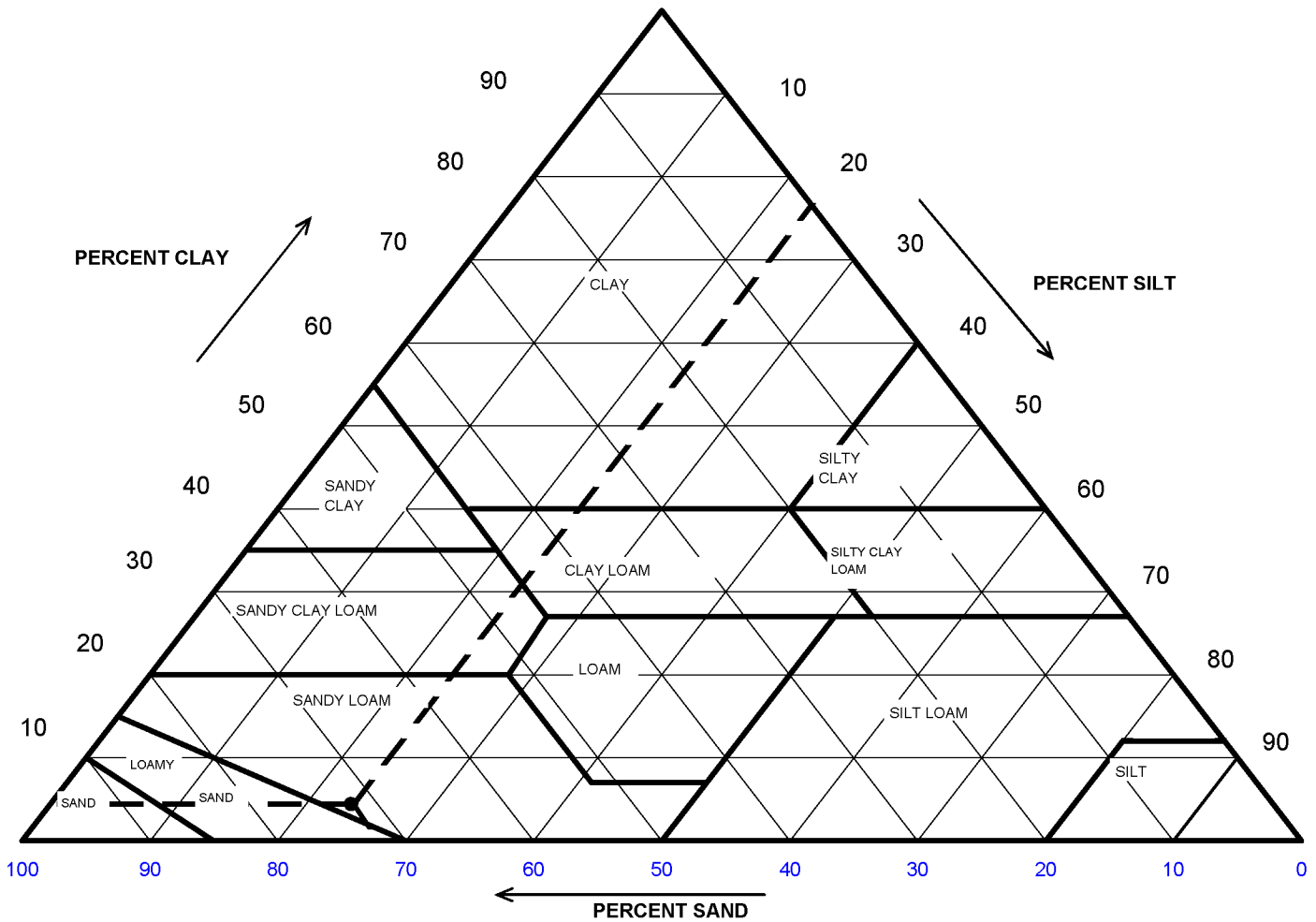


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	5.97
#4 To #200	<i>Sand</i>	59.76
Finer Than #200	<i>Silt & Clay</i>	34.27
USCS Symbol <i>SM, TESTED</i> <i>(NON-PLASTIC FINES)</i>		
USCS Classification <i>SILTY SAND</i>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-004

Boring No. R-7-1
 Depth (ft) 223.1-223.6
 Sample No. ST-6
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	8.02	0.00
2	91.98	<i>Sand</i>	66.26	72.03
0.05	25.72	<i>Silt</i>	21.68	23.57
0.002	4.05	<i>Clay</i>	4.05	4.40
USDA Classification:		SANDY LOAM		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-004

Boring No. R-7-1
 Depth (ft) 223.1-223.6
 Sample No. ST-6
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	30	Air Dried - #10 Hydrometer Material (g)	118.81
Wgt. Tare + Wet Soil (g)	31.46	Corrected Dry Wt. of - #10 Material (g)	116.12
Wgt. Tare + Dry Soil (g)	30.94		
Weight of Tare (g)	8.50	Weight of - #200 Material (g)	43.26
Weight of Water (g)	0.52	Weight of - #10 ; + #200 Material (g)	72.86
Weight of Dry Soil (g)	22.44		
Moisture Content (%)	2.3	J-FACTOR (%FINER THAN #10)	0.9198
Soil Specimen Data			
Tare No.	54		
Wgt. Tare + Air Dry Soil (g)	637.20		
Weight of Tare (g)	204.96		
Air Dried Wgt. Total Sample (g)	432.24	Dry Weight of Material Retained on #10 (g)	33.94
Total Dry Sample Weight (g)	423.22	Corrected Dry Sample Wt - #10 (g)	389.28

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	8.20	1.9	1.9	98.1	98.1
#4	4.75	17.07	4.0	6.0	94.0	94.0
#10	2.00	8.67	2.0	8.0	92.0	92.0
#20	0.85	0.40	0.3	0.3	99.7	91.7
#40	0.425	1.58	1.4	1.7	98.3	90.4
#60	0.250	5.61	4.8	6.5	93.5	86.0
#140	0.106	38.97	33.6	40.1	59.9	55.1
#200	0.075	26.30	22.6	62.7	37.3	34.3
Pan	-	43.26	37.3	100.0	-	-

Notes :

Tested By TO Date 11/11/13 Checked By KC Date 11/18/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	223.1-223.6
Project No.	2013-465-001	Sample No.	ST-6
Lab ID	2013-465-001-004	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	26.0	21.7	4.93	21.1	18.0	0.01317	0.0323	16.5
5	21.0	21.7	4.93	16.1	13.7	0.01317	0.0211	12.6
15	16.0	21.7	4.93	11.1	9.4	0.01317	0.0126	8.7
30	14.5	21.7	4.93	9.6	8.2	0.01317	0.0090	7.5
60	13.0	21.7	4.93	8.1	6.9	0.01317	0.0064	6.3
250	10.5	21.7	4.93	5.6	4.7	0.01317	0.0032	4.4
1440	9.5	22.4	4.71	4.8	4.1	0.01307	0.0013	3.8

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	116.12	Hygroscopic Moisture Factor	0.977
Weight of Deflocculant (g)	5.0	a - Factor	0.99
		Percent Finer than # 10	91.98
		Specific Gravity	2.70 Measured

Notes:

Tested By TO Date 11/12/13 Checked By KC Date 11/18/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	223.1-223.6
Project No.	2013-465-001	Sample No.	ST-6
Lab ID #	2013-465-001-004		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1395	6/4/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	G718	9/13/14
3/8" Sieve	G414	9/13/14
#4 Sieve	G802	9/16/14
#10 Sieve	G893	12/11/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	223.1-223.6
Project No.	2013-465-001	Sample No.	ST-6
Lab ID #	2013-465-001-004		

Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G375	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1497	12/13/13
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	12/11/13
#200 Sieve	G1386	10/24/14
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

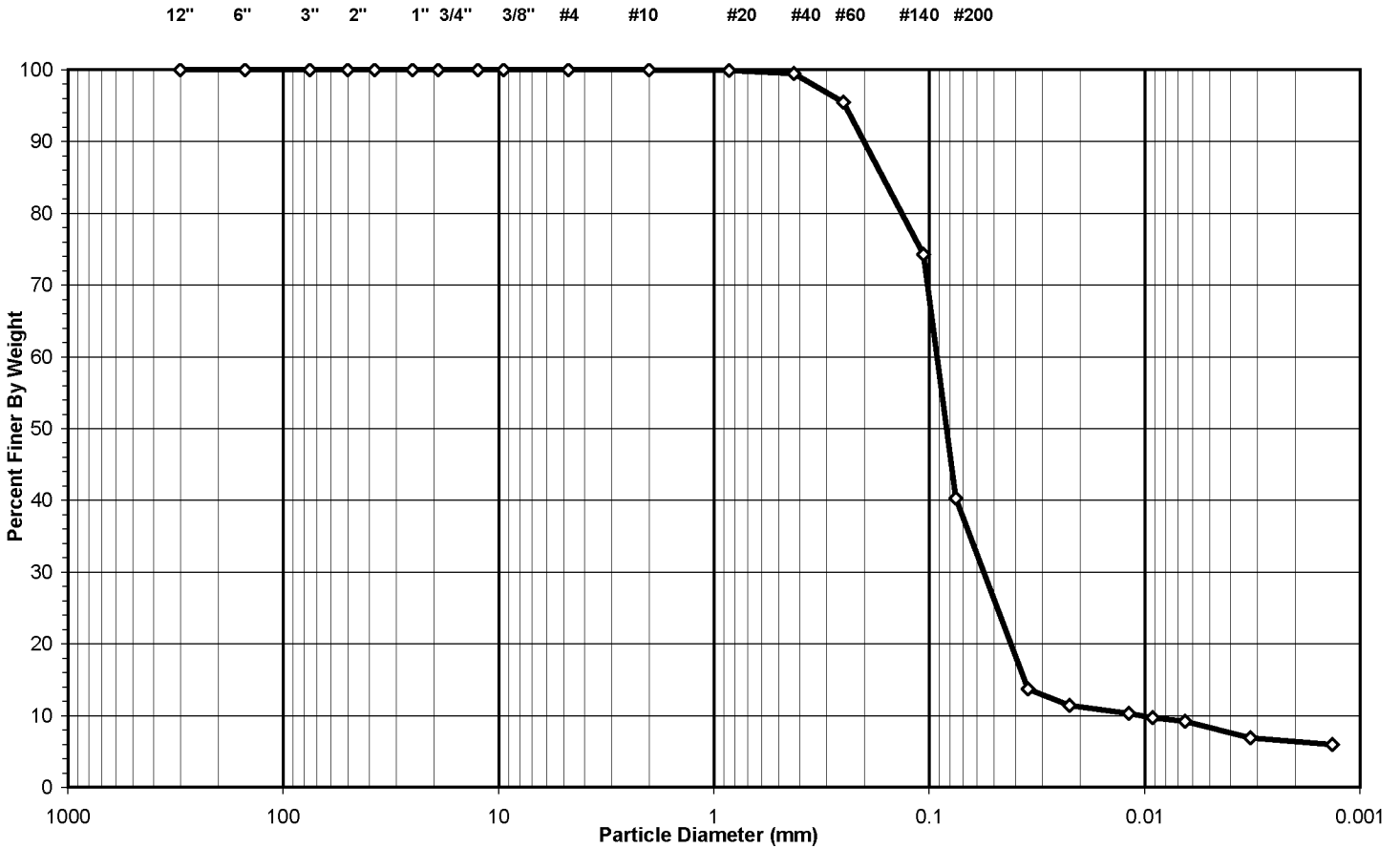


SIEVE AND HYDROMETER ANALYSIS
ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-005

Boring No. R-7-1
 Depth (ft) 233.6-234.1
 Sample No. ST-7
 Soil Color **Greenish Gray**

USCS USDA	SIEVE ANALYSIS				HYDROMETER		
	cobble	gravel	sand		silt and clay fraction		
	cobble	gravel	sand		silt	clay	

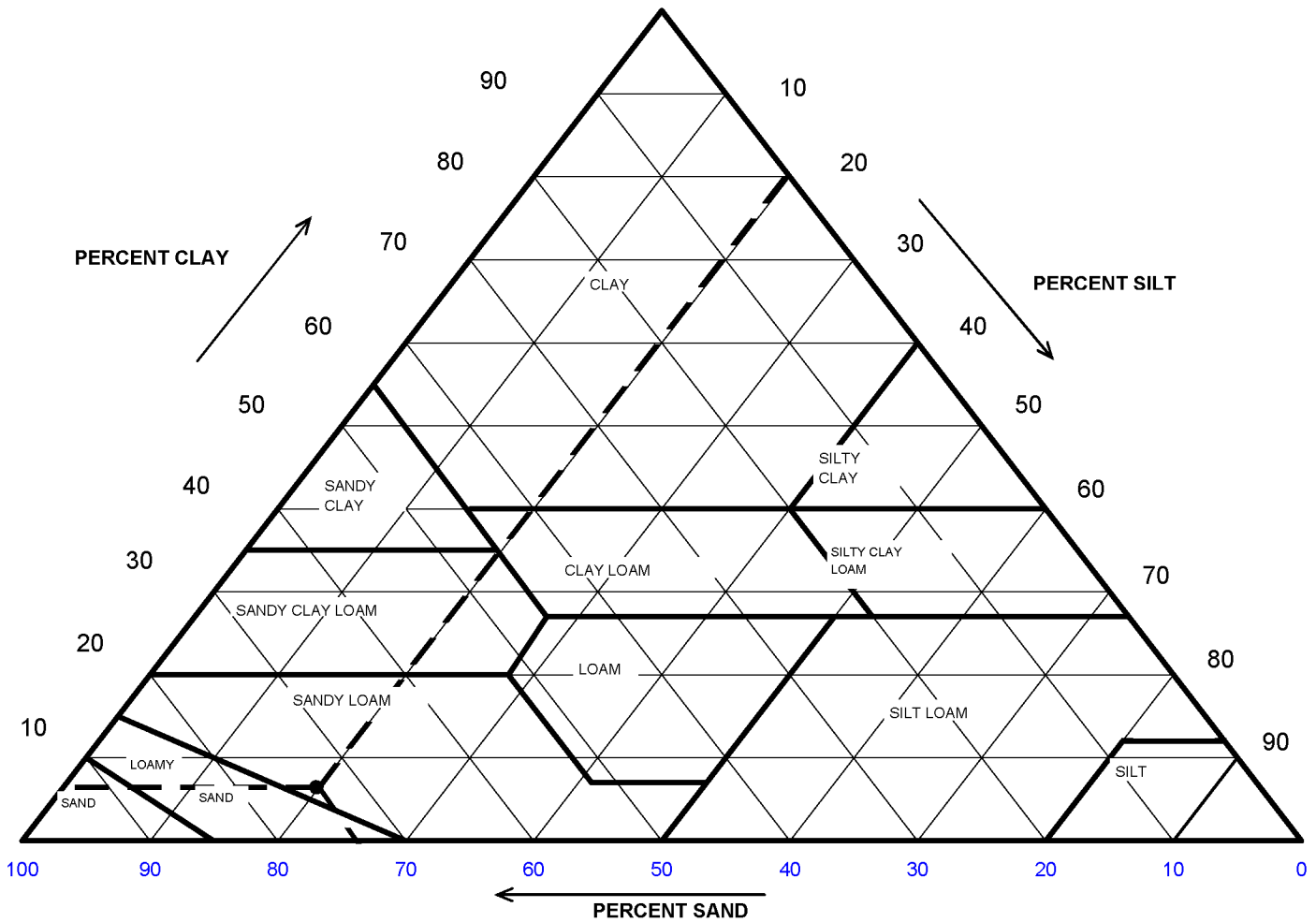


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	Gravel	0.00
#4 To #200	Sand	59.75
Finer Than #200	Silt & Clay	40.25
USCS Symbol	SM, TESTED (NON-PLASTIC FINES)	
USCS Classification	SILTY SAND	

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-005

Boring No. R-7-1
 Depth (ft) 233.6-234.1
 Sample No. ST-7
 Soil Color Greenish Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	73.75	73.75
0.05	26.25	<i>Silt</i>	19.84	19.84
0.002	6.41	<i>Clay</i>	6.41	6.41
USDA Classification:		SANDY LOAM		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-005

Boring No. R-7-1
 Depth (ft) 233.6-234.1
 Sample No. ST-7
 Soil Color **Greenish Gray**

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	37	Air Dried - #10 Hydrometer Material (g)	88.48
Wgt. Tare + Wet Soil (g)	36.29	Corrected Dry Wt. of - #10 Material (g)	88.13
Wgt. Tare + Dry Soil (g)	36.18		
Weight of Tare (g)	8.42	Weight of - #200 Material (g)	35.47
Weight of Water (g)	0.11	Weight of - #10 ; + #200 Material (g)	52.66
Weight of Dry Soil (g)	27.76		
Moisture Content (%)	0.4	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	2354		
Wgt. Tare + Air Dry Soil (g)	363.24		
Weight of Tare (g)	95.59		
Air Dried Wgt. Total Sample (g)	267.65	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	266.59	Corrected Dry Sample Wt - #10 (g)	266.59

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.08	0.1	0.1	99.9	99.9
#40	0.425	0.37	0.4	0.5	99.5	99.5
#60	0.250	3.52	4.0	4.5	95.5	95.5
#140	0.106	18.70	21.2	25.7	74.3	74.3
#200	0.075	29.99	34.0	59.8	40.2	40.2
Pan	-	35.47	40.2	100.0	-	-

Notes :

Tested By TO Date 11/11/13 Checked By KC Date 11/18/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	233.6-234.1
Project No.	2013-465-001	Sample No.	ST-7
Lab ID	2013-465-001-005	Soil Color	Greenish Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	17.0	21.7	4.93	12.1	13.7	0.01337	0.0348	13.7
5	15.0	21.7	4.93	10.1	11.4	0.01337	0.0222	11.4
18	14.0	21.7	4.93	9.1	10.3	0.01337	0.0118	10.3
30	13.5	21.7	4.93	8.6	9.7	0.01337	0.0092	9.7
60	13.0	21.7	4.93	8.1	9.2	0.01337	0.0065	9.2
250	11.0	21.7	4.93	6.1	6.9	0.01337	0.0032	6.9
1440	10.0	22.4	4.71	5.3	6.0	0.01326	0.0013	6.0

Soil Specimen Data	Other Corrections
Wgt. of Dry Material (g)	Hygroscopic Moisture Factor
88.13	0.996
Weight of Deflocculant (g)	a - Factor
5.0	1
	Percent Finer than # 10
	100.00
	Specific Gravity
	2.65 Measured

Notes:

Tested By **TO** Date **11/12/13** Checked By **KC** Date **11/18/13**

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	233.6-234.1
Project No.	2013-465-001	Sample No.	ST-7
Lab ID #	2013-465-001-005		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1395	6/4/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	NA	NA
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	233.6-234.1
Project No.	2013-465-001	Sample No.	ST-7
Lab ID #	2013-465-001-005		

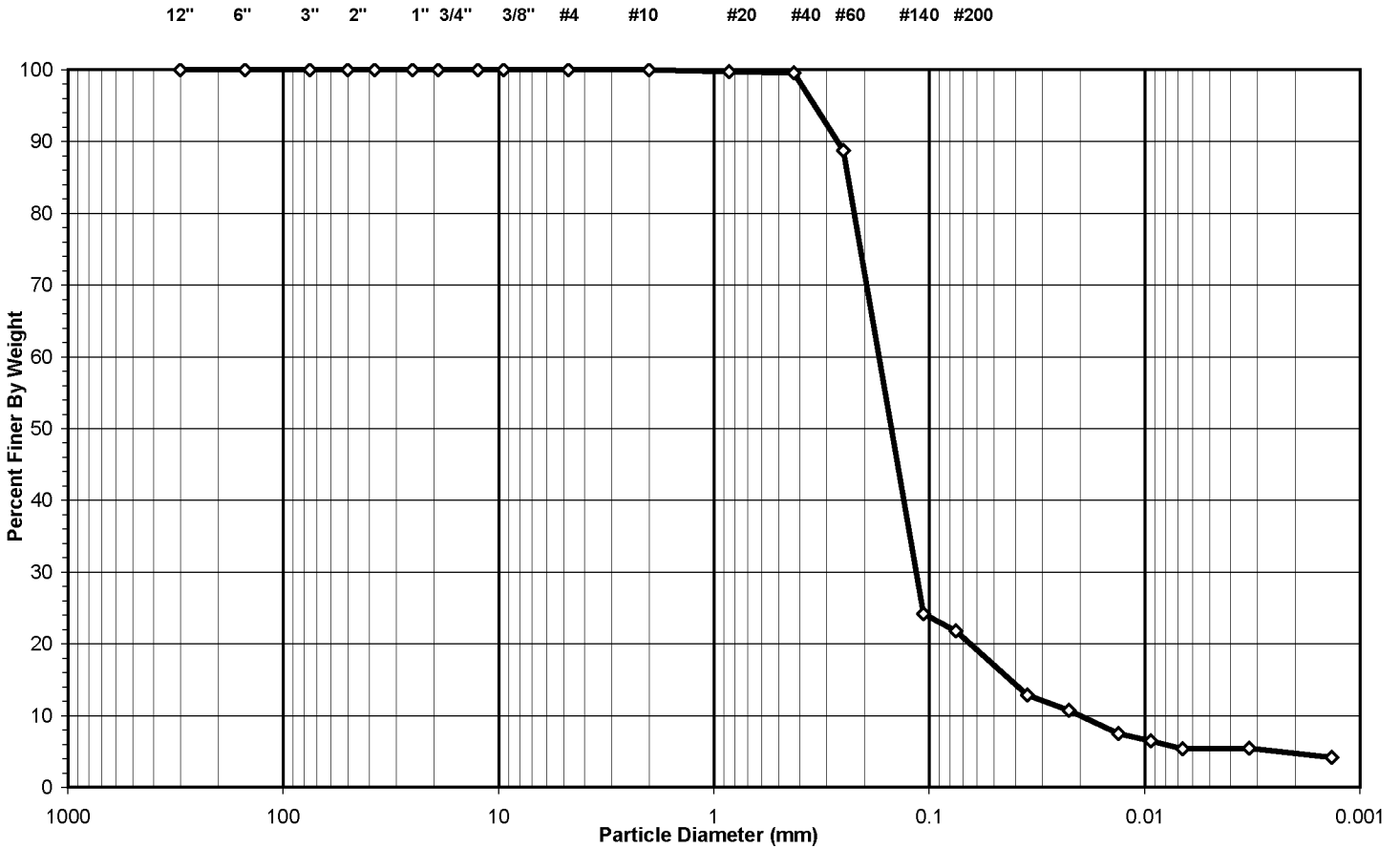
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G781	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1497	12/13/13
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	12/11/13
#200 Sieve	G1386	10/24/14
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-006

Boring No. R-7-1
 Depth (ft) 245.5-246.0
 Sample No. ST-8
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel		sand			silt and clay fraction	
	cobble	gravel		sand			silt	clay

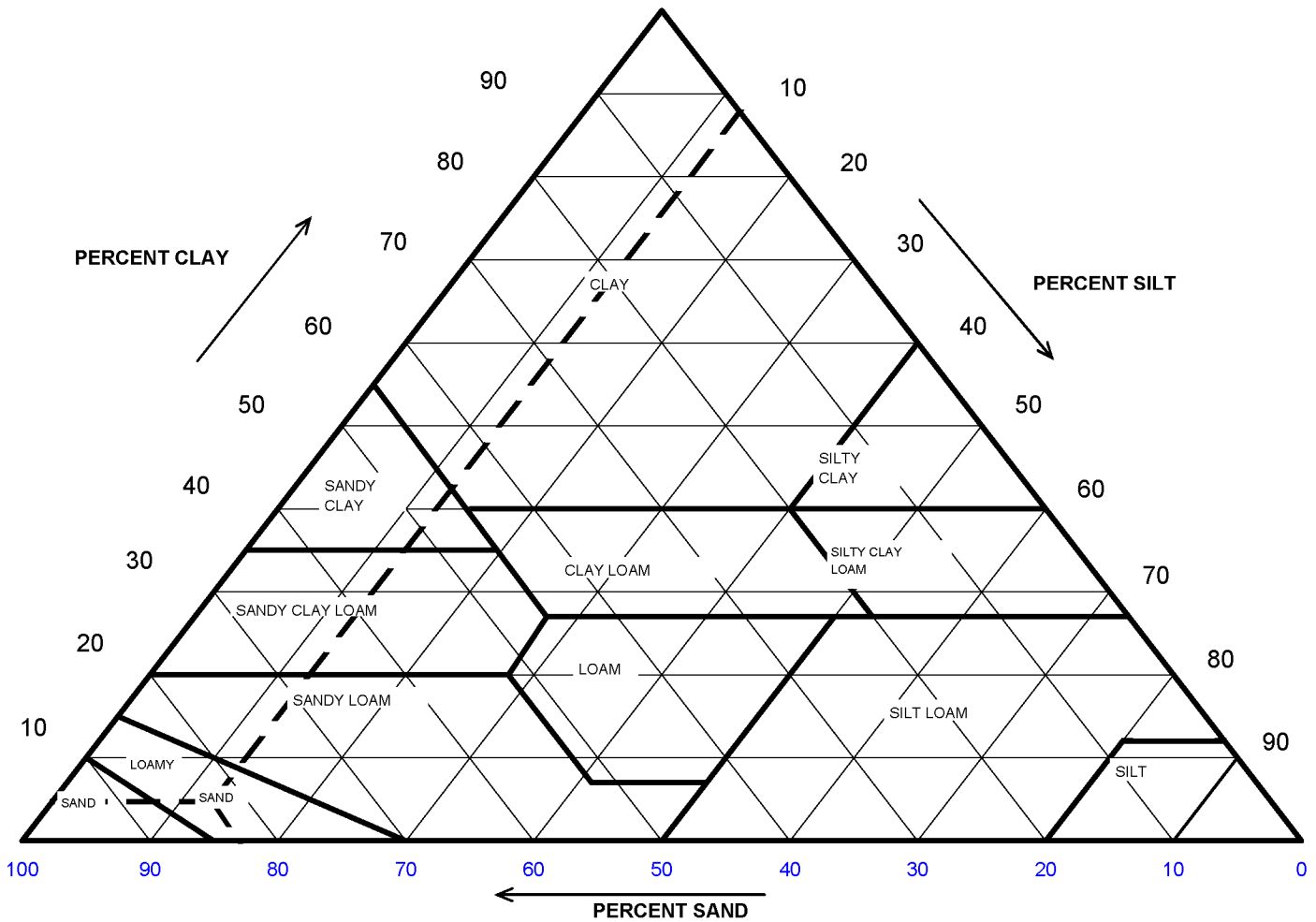


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	78.20
Finer Than #200	<i>Silt & Clay</i>	21.80
USCS Symbol <i>SM, TESTED</i> <i>(NON-PLASTIC FINES)</i>		
USCS Classification <i>SILTY SAND</i>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-006

Boring No. R-7-1
 Depth (ft) 245.5-246.0
 Sample No. ST-8
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	82.96	82.96
0.05	17.04	<i>Silt</i>	12.33	12.33
0.002	4.71	<i>Clay</i>	4.71	4.71
USDA Classification:		LOAMY SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-006

Boring No. R-7-1
 Depth (ft) 245.5-246.0
 Sample No. ST-8
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	2641	Air Dried - #10 Hydrometer Material (g)	115.12
Wgt. Tare + Wet Soil (g)	41.08	Corrected Dry Wt. of - #10 Material (g)	93.68
Wgt. Tare + Dry Soil (g)	34.67		
Weight of Tare (g)	6.67	Weight of - #200 Material (g)	20.43
Weight of Water (g)	6.41	Weight of - #10 ; + #200 Material (g)	73.25
Weight of Dry Soil (g)	28.00		
Moisture Content (%)	22.9	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	1464		
Wgt. Tare + Air Dry Soil (g)	709.23		
Weight of Tare (g)	163.39		
Air Dried Wgt. Total Sample (g)	545.84	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	444.16	Corrected Dry Sample Wt - #10 (g)	444.16

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.23	0.2	0.2	99.8	99.8
#40	0.425	0.18	0.2	0.4	99.6	99.6
#60	0.250	10.14	10.8	11.3	88.7	88.7
#140	0.106	60.47	64.6	75.8	24.2	24.2
#200	0.075	2.23	2.4	78.2	21.8	21.8
Pan	-	20.43	21.8	100.0	-	-

Notes :

Tested By TO Date 11/5/13 Checked By KC Date 11/15/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	245.5-246.0
Project No.	2013-465-001	Sample No.	ST-8
Lab ID	2013-465-001-006	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	17.0	21.5	4.99	12.0	12.9	0.01349	0.0350	12.9
5	15.0	21.5	4.99	10.0	10.7	0.01349	0.0224	10.7
15	12.0	21.5	4.99	7.0	7.5	0.01349	0.0132	7.5
30	11.0	21.5	4.99	6.0	6.4	0.01349	0.0094	6.4
60	10.0	21.5	4.99	5.0	5.4	0.01349	0.0067	5.4
250	10.0	21.7	4.93	5.1	5.4	0.01345	0.0033	5.4
1440	8.5	22.6	4.64	3.9	4.1	0.01331	0.0014	4.1

Soil Specimen Data	Other Corrections
Wgt. of Dry Material (g)	93.68
Weight of Deflocculant (g)	5.0
	Hygroscopic Moisture Factor
	0.814
	a - Factor
	1.004
	Percent Finer than # 10
	100.00
	Specific Gravity
	2.63 Measured

Notes:

Tested By **TO** Date **11/4/13** Checked By **KC** Date **11/15/13**

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	245.5-246.0
Project No.	2013-465-001	Sample No.	ST-8
Lab ID #	2013-465-001-006		

Equipment	Equipment ID#	Calibration Due Date
Oven	G624	10/26/14
Balance	G1393	5/3/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	G1395	6/4/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	245.5-246.0
Project No.	2013-465-001	Sample No.	ST-8
Lab ID #	2013-465-001-006		

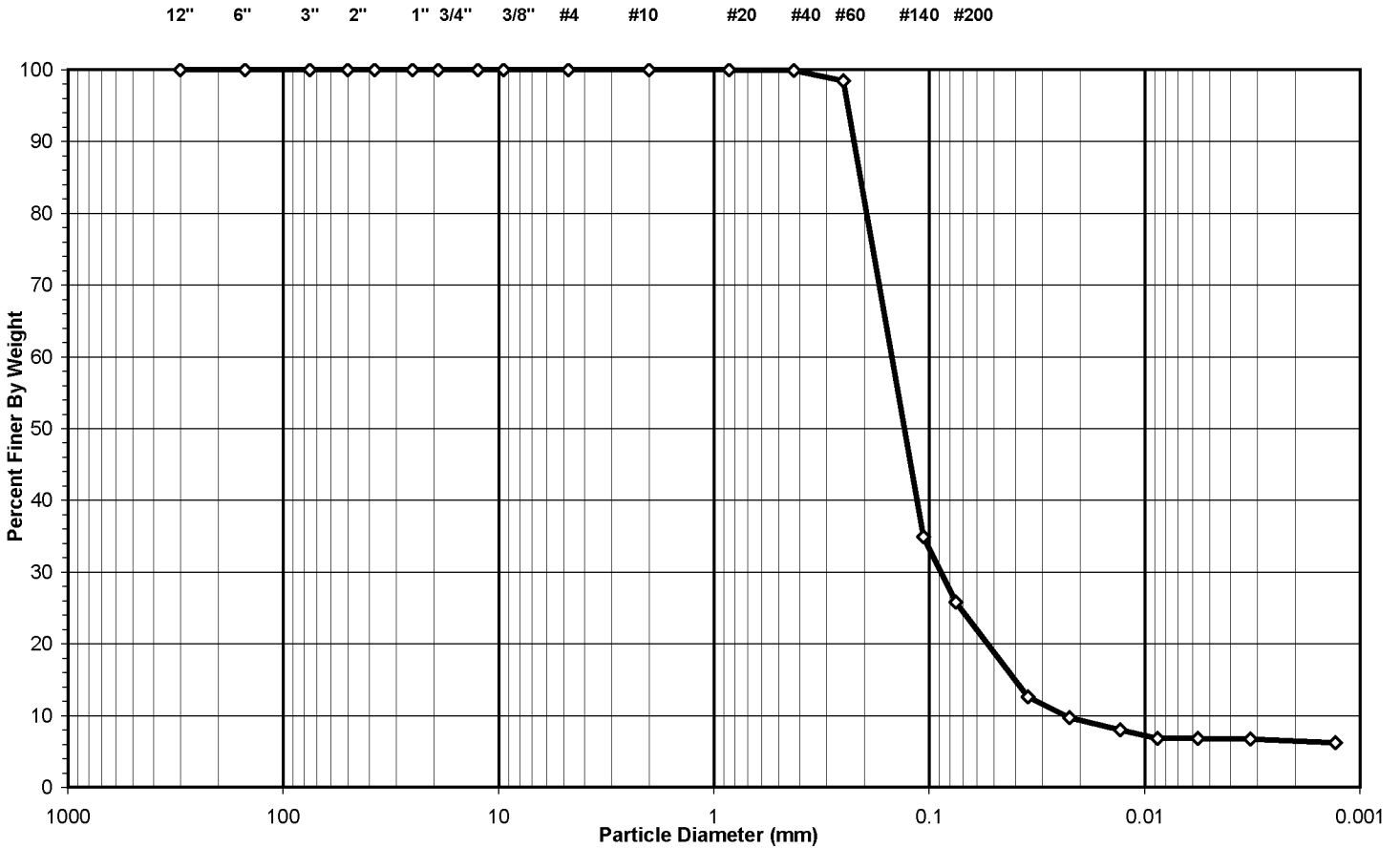
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G362	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1383	8/9/14
#40 Sieve	G1280	1/2/14
#60 Sieve	G1273	1/2/14
#140 Sieve	G1408	12/11/13
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-007

Boring No. R-7-1
 Depth (ft) 256.4-256.9
 Sample No. ST-9
 Soil Color **Greenish Gray**

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobbles	gravel	sand			silt and clay fraction		
	cobbles	gravel	sand			silt	clay	

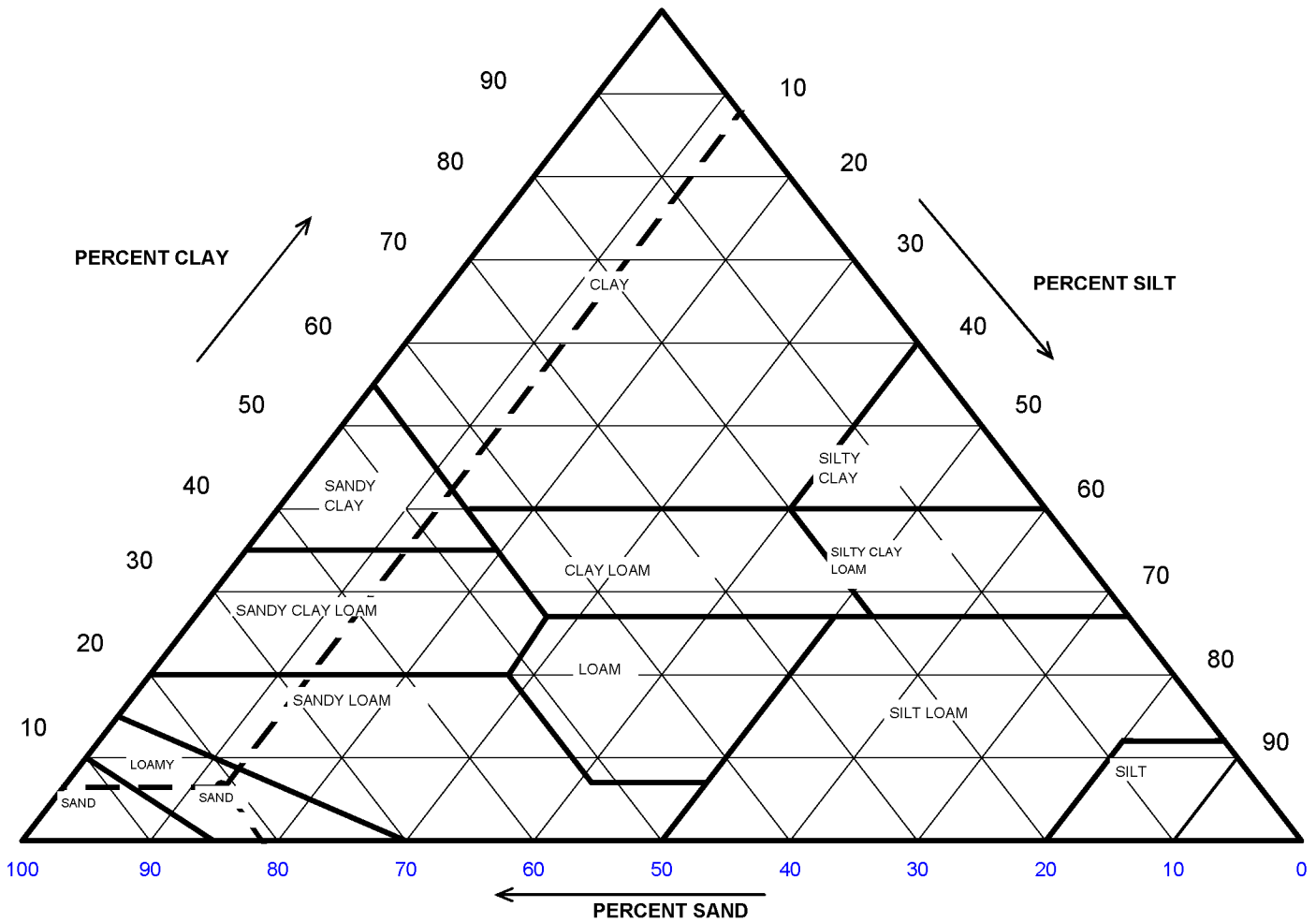


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	74.22
Finer Than #200	<i>Silt & Clay</i>	25.78
USCS Symbol <i>SM, TESTED</i> <i>(NON-PLASTIC FINES)</i>		
USCS Classification <i>SILTY SAND</i>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-007

Boring No. R-7-1
 Depth (ft) 256.4-256.9
 Sample No. ST-9
 Soil Color Greenish Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	81.14	81.14
0.05	18.86	<i>Silt</i>	12.41	12.41
0.002	6.44	<i>Clay</i>	6.44	6.44
USDA Classification:		LOAMY SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-007

Boring No. R-7-1
 Depth (ft) 256.4-256.9
 Sample No. ST-9
 Soil Color **Greenish Gray**

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	53	Air Dried - #10 Hydrometer Material (g)	86.64
Wgt. Tare + Wet Soil (g)	31.38	Corrected Dry Wt. of - #10 Material (g)	86.26
Wgt. Tare + Dry Soil (g)	31.28		
Weight of Tare (g)	8.65	Weight of - #200 Material (g)	22.24
Weight of Water (g)	0.10	Weight of - #10 ; + #200 Material (g)	64.02
Weight of Dry Soil (g)	22.63		
Moisture Content (%)	0.4	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	13		
Wgt. Tare + Air Dry Soil (g)	479.01		
Weight of Tare (g)	203.32		
Air Dried Wgt. Total Sample (g)	275.69	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	274.48	Corrected Dry Sample Wt - #10 (g)	274.48

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.00	0.0	0.0	100.0	100.0
#40	0.425	0.07	0.1	0.1	99.9	99.9
#60	0.250	1.22	1.4	1.5	98.5	98.5
#140	0.106	54.83	63.6	65.1	34.9	34.9
#200	0.075	7.90	9.2	74.2	25.8	25.8
Pan	-	22.24	25.8	100.0	-	-

Notes :

Tested By TO Date 11/19/13 Checked By KC Date 11/25/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-007

Boring No. R-7-1
 Depth (ft) 256.4-256.9
 Sample No. ST-9
 Soil Color **Greenish Gray**

Elapsed Time (min)	R Measured	Temp. (°C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	15.5	22.7	4.61	10.9	12.6	0.01325	0.0348	12.6
5	13.0	22.7	4.61	8.4	9.7	0.01325	0.0223	9.7
15	11.5	22.7	4.61	6.9	8.0	0.01325	0.0130	8.0
34	10.5	22.7	4.61	5.9	6.8	0.01325	0.0087	6.8
80	10.5	22.7	4.61	5.9	6.8	0.01325	0.0057	6.8
250	10.5	22.4	4.71	5.8	6.7	0.01330	0.0032	6.7
1530	10.0	22.5	4.68	5.3	6.2	0.01329	0.0013	6.2

Soil Specimen Data		Other Corrections	
Wgt. of Dry Material (g)	86.26	Hygroscopic Moisture Factor	0.996
Weight of Deflocculant (g)	5.0	a - Factor	1.002
		Percent Finer than # 10	100.00
		Specific Gravity	2.64 Measured

Notes:

Tested By TO Date 11/20/13 Checked By KC Date 11/25/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	256.4-256.9
Project No.	2013-465-001	Sample No.	ST-9
Lab ID #	2013-465-001-007		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	G1395	6/4/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	256.4-256.9
Project No.	2013-465-001	Sample No.	ST-9
Lab ID #	2013-465-001-007		

Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G205	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1497	12/13/13
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	12/11/13
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

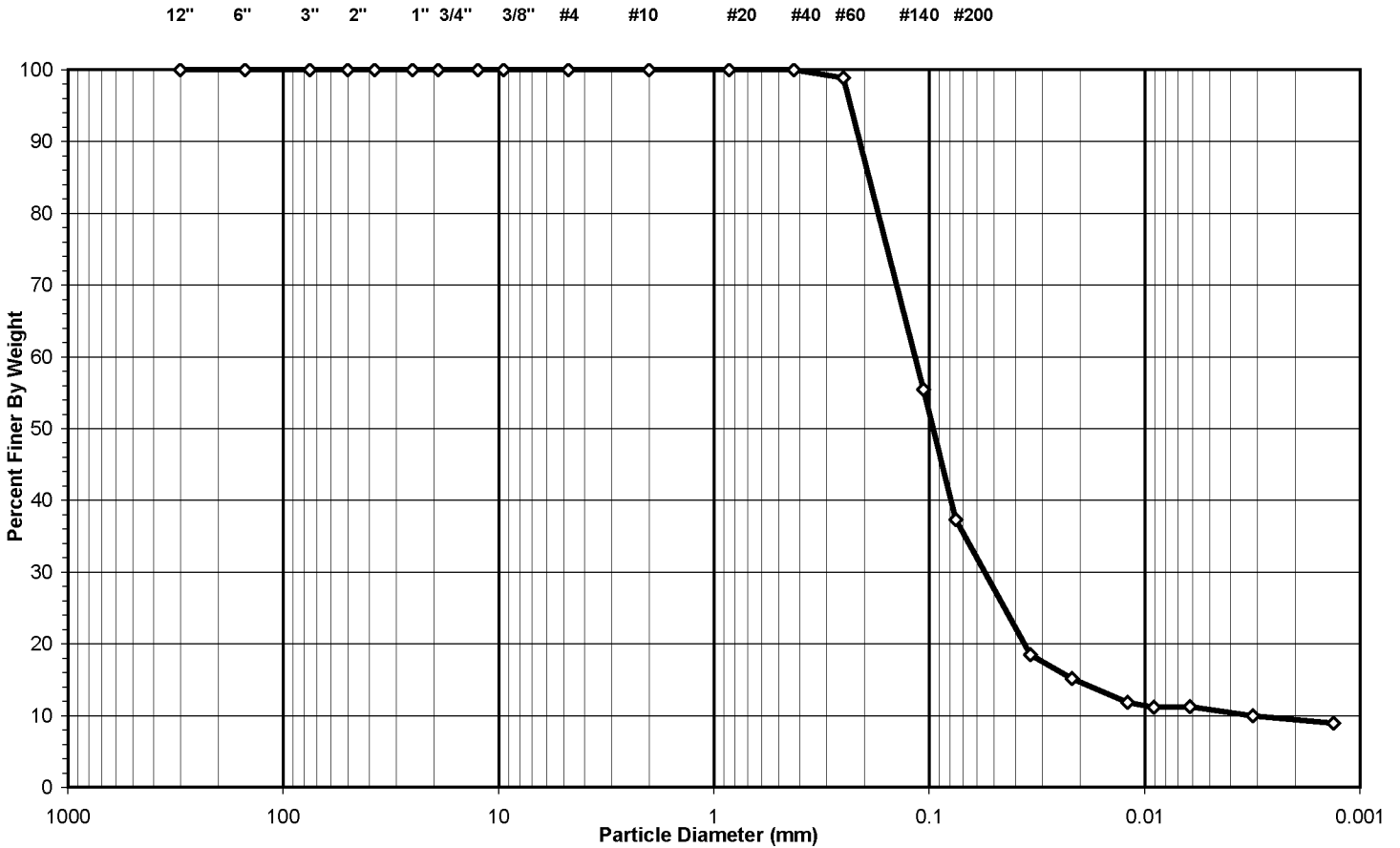


SIEVE AND HYDROMETER ANALYSIS
ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-008

Boring No. R-7-1
 Depth (ft) 267.6-268.1
 Sample No. ST-10
 Soil Color **Greenish Gray**

USCS USDA	SIEVE ANALYSIS				HYDROMETER	
	cobble	gravel	sand		silt and clay fraction	
	cobble	gravel	sand		silt	clay

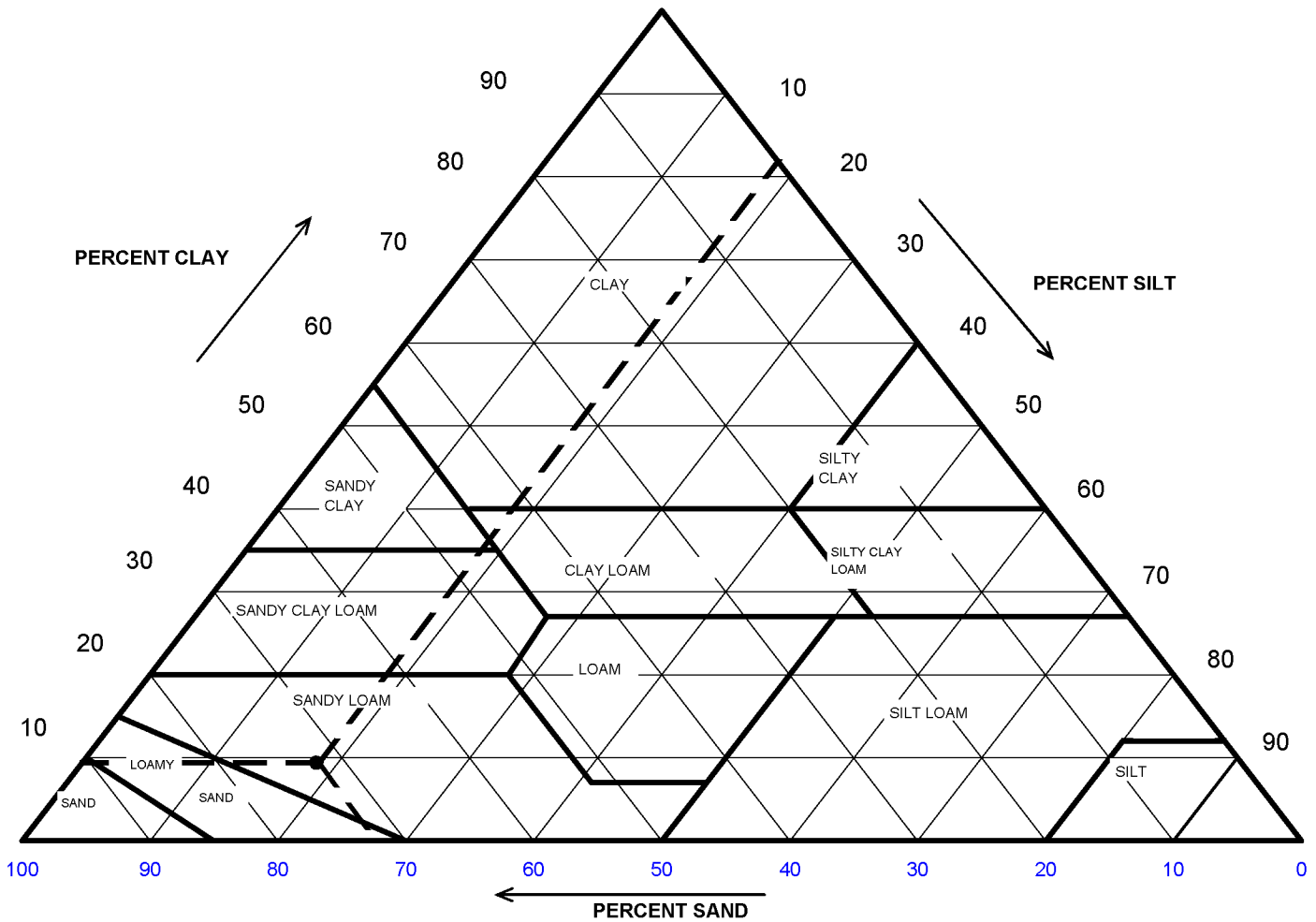


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	Gravel	0.00
#4 To #200	Sand	62.67
Finer Than #200	Silt & Clay	37.33
USCS Symbol	SM, TESTED (NON-PLASTIC FINES)	
USCS Classification	SILTY SAND	

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-008

Boring No. R-7-1
 Depth (ft) 267.6-268.1
 Sample No. ST-10
 Soil Color Greenish Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	72.26	72.26
0.05	27.74	<i>Silt</i>	18.34	18.34
0.002	9.41	<i>Clay</i>	9.41	9.41
		USDA Classification:	SANDY LOAM	

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-008

Boring No. R-7-1
 Depth (ft) 267.6-268.1
 Sample No. ST-10
 Soil Color **Greenish Gray**

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	11	Air Dried - #10 Hydrometer Material (g)	76.73
Wgt. Tare + Wet Soil (g)	28.36	Corrected Dry Wt. of - #10 Material (g)	74.74
Wgt. Tare + Dry Soil (g)	27.84		
Weight of Tare (g)	8.36	Weight of - #200 Material (g)	27.90
Weight of Water (g)	0.52	Weight of - #10 ; + #200 Material (g)	46.84
Weight of Dry Soil (g)	19.48		
Moisture Content (%)	2.7	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	695		
Wgt. Tare + Air Dry Soil (g)	386.24		
Weight of Tare (g)	93.30		
Air Dried Wgt. Total Sample (g)	292.94	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	285.32	Corrected Dry Sample Wt - #10 (g)	285.32

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.00	0.0	0.0	100.0	100.0
#40	0.425	0.02	0.0	0.0	100.0	100.0
#60	0.250	0.81	1.1	1.1	98.9	98.9
#140	0.106	32.44	43.4	44.5	55.5	55.5
#200	0.075	13.57	18.2	62.7	37.3	37.3
Pan	-	27.90	37.3	100.0	-	-

Notes :

Tested By TO Date 11/18/13 Checked By JAM Date 11/21/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-008

Boring No. R-7-1
 Depth (ft) 267.6-268.1
 Sample No. ST-10
 Soil Color **Greenish Gray**

Elapsed Time (min)	R Measured	Temp. (°C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	18.5	22.7	4.61	13.9	18.5	0.01314	0.0338	18.5
5	16.0	22.7	4.61	11.4	15.2	0.01314	0.0217	15.2
17	13.5	22.7	4.61	8.9	11.8	0.01314	0.0120	11.8
30	13.0	22.7	4.61	8.4	11.2	0.01314	0.0090	11.2
64	13.0	22.8	4.58	8.4	11.2	0.01312	0.0062	11.2
250	12.0	22.9	4.55	7.4	9.9	0.01310	0.0031	9.9
1440	11.5	22.1	4.80	6.7	8.9	0.01323	0.0013	8.9

Soil Specimen Data		Other Corrections	
Wgt. of Dry Material (g)	74.74	Hygroscopic Moisture Factor	0.974
Weight of Deflocculant (g)	5.0	a - Factor	0.996
		Percent Finer than # 10	100.00
		Specific Gravity	2.67 Measured

Notes:

Tested By TO Date 11/18/13 Checked By JAM Date 11/21/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	267.6-268.1
Project No.	2013-465-001	Sample No.	ST-10
Lab ID #	2013-465-001-008		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1395	6/4/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	NA	NA
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	267.6-268.1
Project No.	2013-465-001	Sample No.	ST-10
Lab ID #	2013-465-001-008		

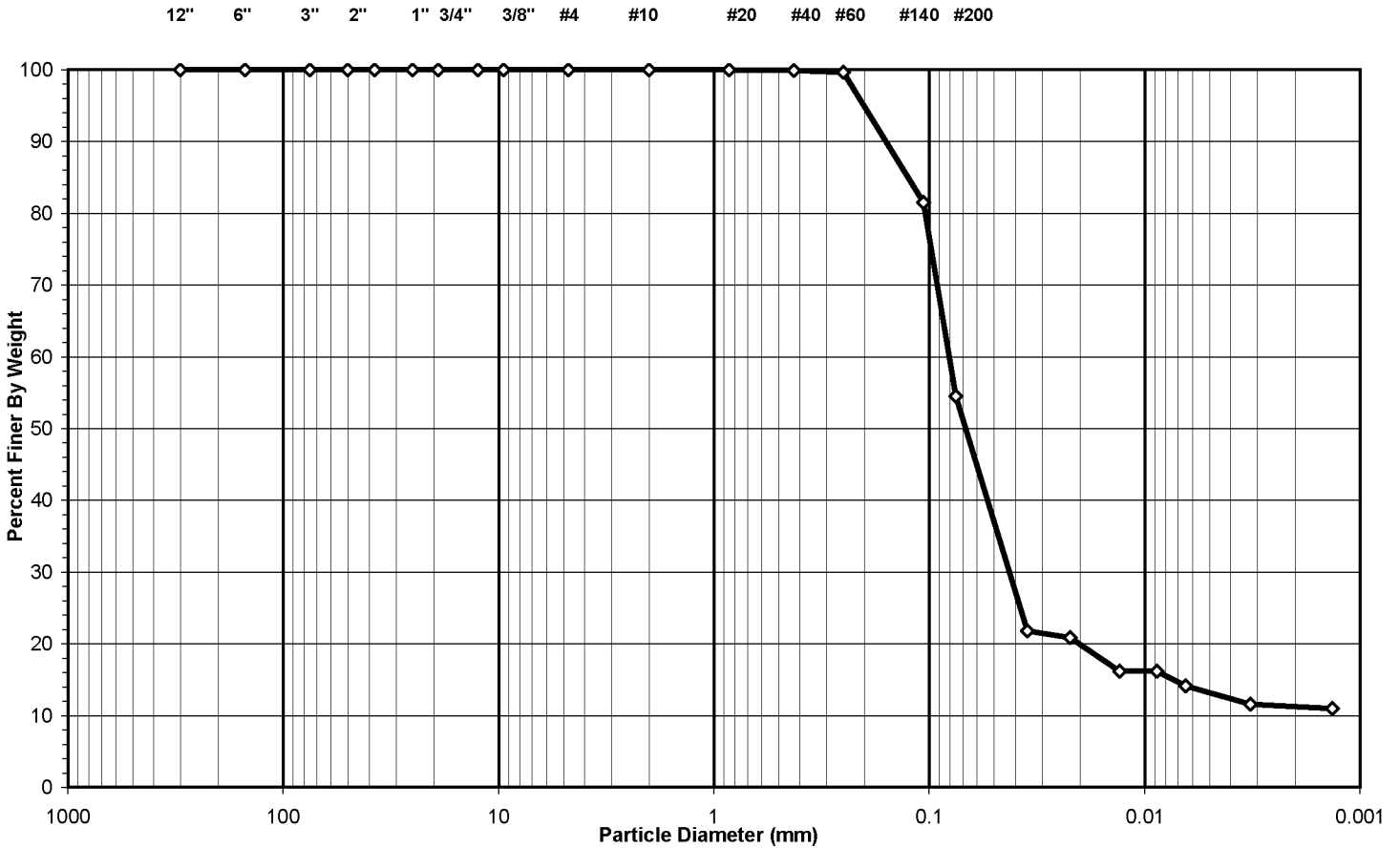
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G199	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1383	8/9/14
#40 Sieve	G1280	1/2/14
#60 Sieve	G1273	1/2/14
#140 Sieve	G1408	12/11/13
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-009

Boring No. R-7-1
 Depth (ft) 278.1-278.6
 Sample No. ST-11
 Soil Color **Greenish Gray**

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel	sand			silt and clay fraction		
	cobble	gravel	sand			silt	clay	

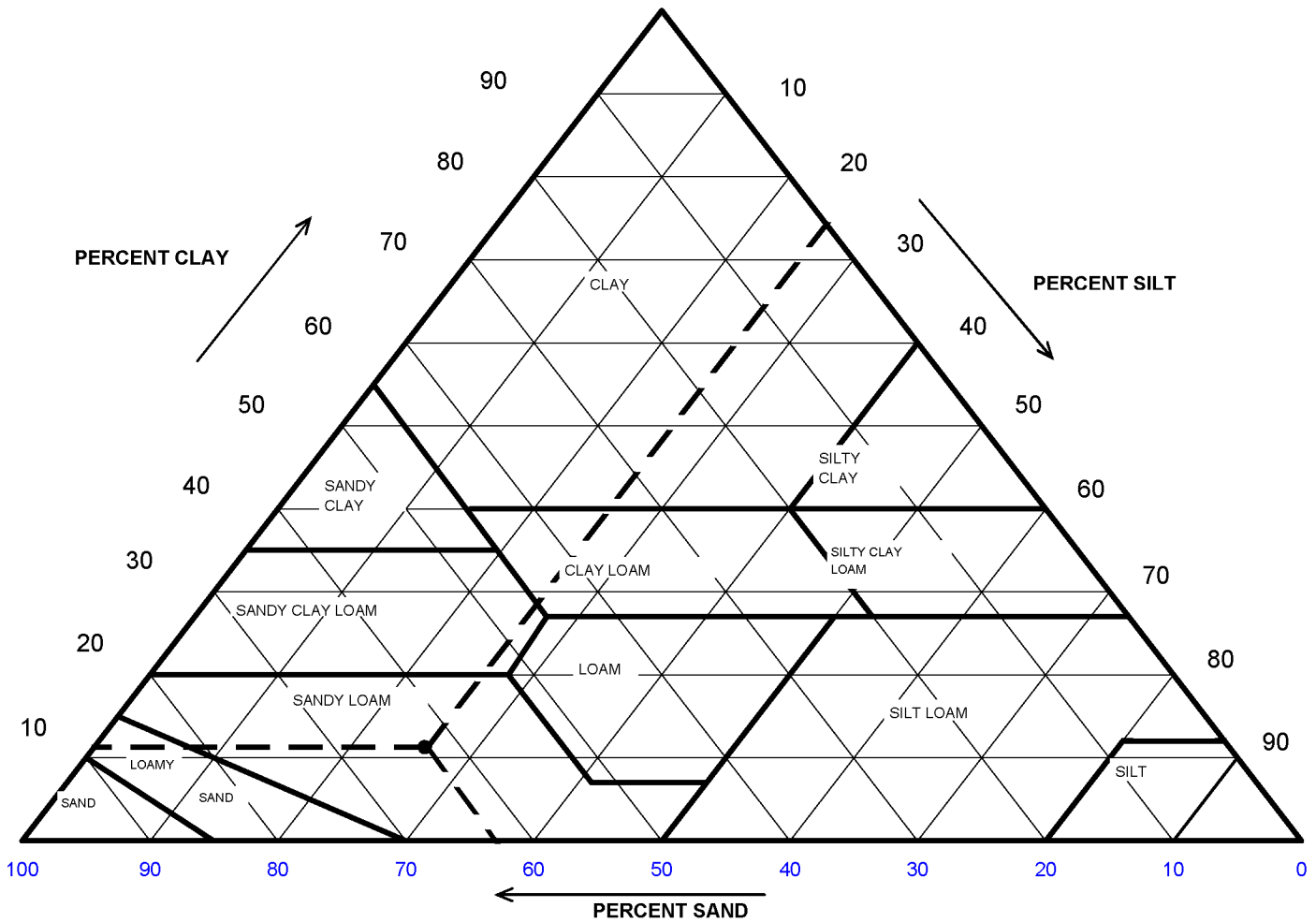


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	45.46
Finer Than #200	<i>Silt & Clay</i>	54.54
USCS Symbol <i>ML, TESTED</i>		
USCS Classification <i>SANDY SILT</i>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-009

Boring No. R-7-1
 Depth (ft) 278.1-278.6
 Sample No. ST-11
 Soil Color Greenish Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	62.87	62.87
0.05	37.13	<i>Silt</i>	25.90	25.90
0.002	11.23	<i>Clay</i>	11.23	11.23
		USDA Classification:	SANDY LOAM	

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-009

Boring No. R-7-1
 Depth (ft) 278.1-278.6
 Sample No. ST-11
 Soil Color **Greenish Gray**

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	53	Air Dried - #10 Hydrometer Material (g)	54.26
Wgt. Tare + Wet Soil (g)	27.07	Corrected Dry Wt. of - #10 Material (g)	53.61
Wgt. Tare + Dry Soil (g)	26.85		
Weight of Tare (g)	8.67	Weight of - #200 Material (g)	29.24
Weight of Water (g)	0.22	Weight of - #10 ; + #200 Material (g)	24.37
Weight of Dry Soil (g)	18.18		
Moisture Content (%)	1.2	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	1419		
Wgt. Tare + Air Dry Soil (g)	345.22		
Weight of Tare (g)	145.59		
Air Dried Wgt. Total Sample (g)	199.63	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	197.24	Corrected Dry Sample Wt - #10 (g)	197.24

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.00	0.0	0.0	100.0	100.0
#40	0.425	0.03	0.1	0.1	99.9	99.9
#60	0.250	0.15	0.3	0.3	99.7	99.7
#140	0.106	9.74	18.2	18.5	81.5	81.5
#200	0.075	14.45	27.0	45.5	54.5	54.5
Pan	-	29.24	54.5	100.0	-	-

Notes :

Tested By TO Date 11/26/13 Checked By KC Date 12/2/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	278.1-278.6
Project No.	2013-465-001	Sample No.	ST-11
Lab ID	2013-465-001-009	Soil Color	Greenish Gray

Elapsed Time (min)	R Measured	Temp. (°C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	16.5	21.9	4.87	11.6	21.8	0.01342	0.0350	21.8
5	16.0	21.9	4.87	11.1	20.9	0.01342	0.0222	20.9
15	13.5	21.9	4.87	8.6	16.2	0.01342	0.0130	16.2
33	13.5	21.9	4.87	8.6	16.2	0.01342	0.0088	16.2
62	12.5	21.7	4.93	7.6	14.2	0.01345	0.0064	14.2
250	11.0	22	4.83	6.2	11.5	0.01341	0.0032	11.5
1440	10.5	22.6	4.64	5.9	11.0	0.01331	0.0013	11.0

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	53.61	Hygroscopic Moisture Factor	0.988
Weight of Deflocculant (g)	5.0	a - Factor	1.004
		Percent Finer than # 10	100.00
		Specific Gravity	2.63 Measured

Notes:

Tested By **TO** Date **11/25/13** Checked By **KC** Date **12/2/13**

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	278.1-278.6
Project No.	2013-465-001	Sample No.	ST-11
Lab ID #	2013-465-001-009		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1395	6/4/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	G1047	3/25/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/4/14
Oven	G1118	11/23/14

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	278.1-278.6
Project No.	2013-465-001	Sample No.	ST-11
Lab ID #	2013-465-001-009		

Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/23/14
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G773	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1394	5/15/14
#10 Sieve	NA	NA
#20 Sieve	G1497	4/22/14
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	11/22/14
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

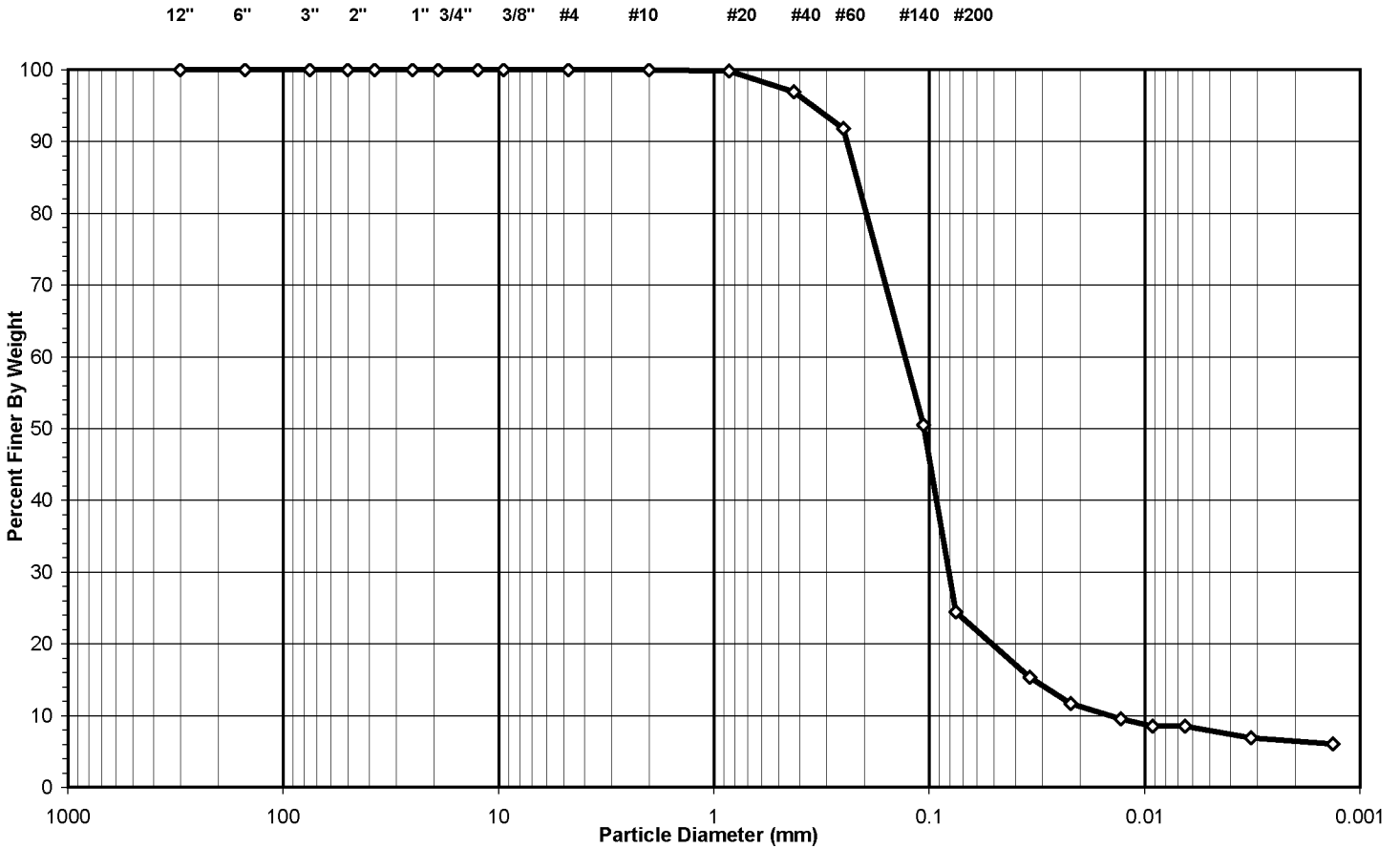


SIEVE AND HYDROMETER ANALYSIS
ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-010

Boring No. R-7-1
 Depth (ft) 288.9-289.1
 Sample No. ST-12
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobbles	gravel	sand			silt and clay fraction		
	cobbles	gravel	sand			silt	clay	

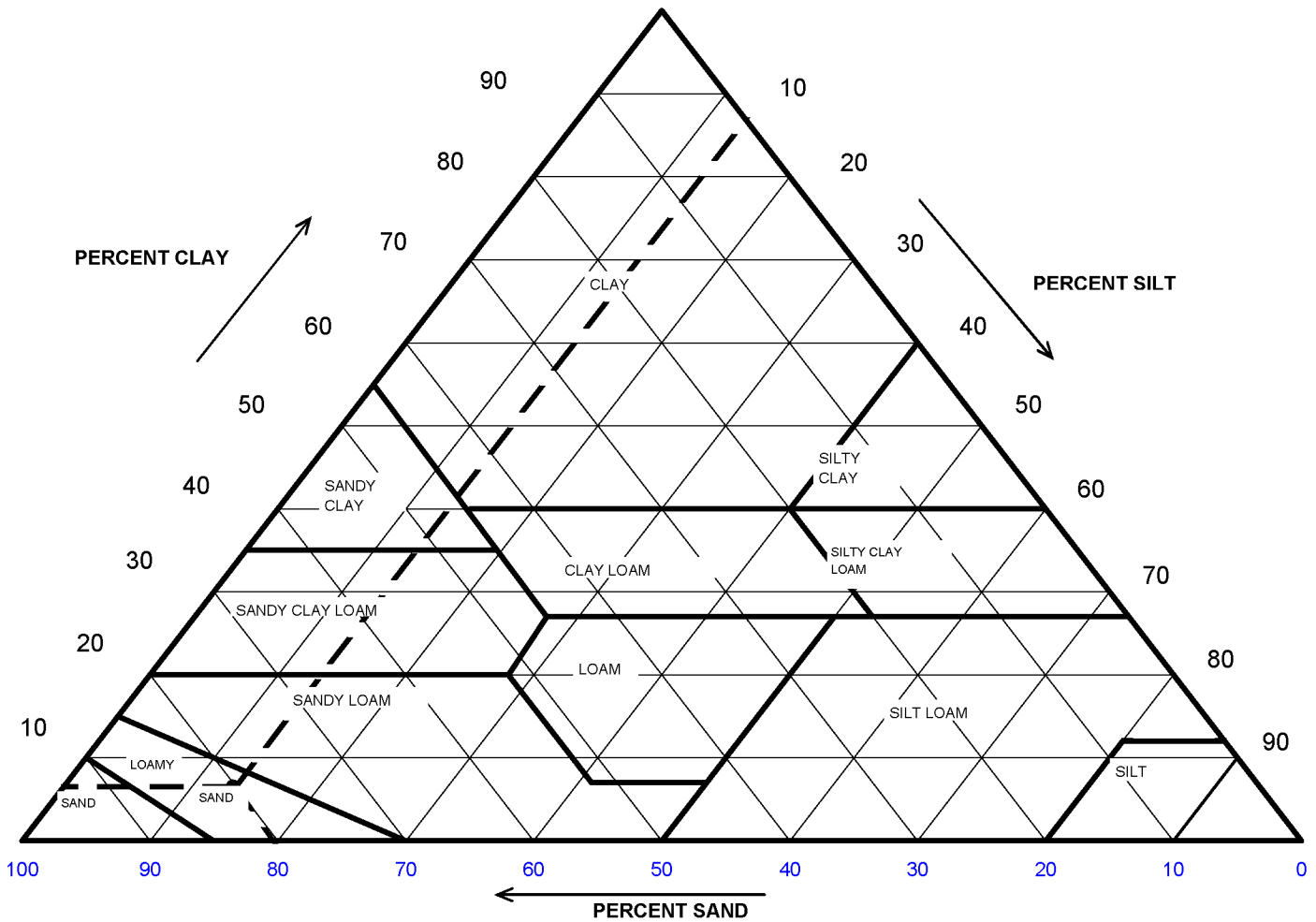


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	Gravel	0.00
#4 To #200	Sand	75.55
Finer Than #200	Silt & Clay	24.45
USCS Symbol	SM, TESTED (NON-PLASTIC FINES)	
USCS Classification	SILTY SAND	

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-010

Boring No. R-7-1
 Depth (ft) 288.9-289.1
 Sample No. ST-12
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	80.25	80.25
0.05	19.75	<i>Silt</i>	13.28	13.28
0.002	6.47	<i>Clay</i>	6.47	6.47
USDA Classification:		LOAMY SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-010

Boring No. R-7-1
 Depth (ft) 288.9-289.1
 Sample No. ST-12
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	2514	Air Dried - #10 Hydrometer Material (g)	115.00
Wgt. Tare + Wet Soil (g)	20.56	Corrected Dry Wt. of - #10 Material (g)	94.95
Wgt. Tare + Dry Soil (g)	18.48		
Weight of Tare (g)	8.63	Weight of - #200 Material (g)	23.22
Weight of Water (g)	2.08	Weight of - #10 ; + #200 Material (g)	71.73
Weight of Dry Soil (g)	9.85		
Moisture Content (%)	21.1	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	14		
Wgt. Tare + Air Dry Soil (g)	537.09		
Weight of Tare (g)	204.01		
Air Dried Wgt. Total Sample (g)	333.08	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	275.01	Corrected Dry Sample Wt - #10 (g)	275.01

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.17	0.2	0.2	99.8	99.8
#40	0.425	2.73	2.9	3.1	96.9	96.9
#60	0.250	4.85	5.1	8.2	91.8	91.8
#140	0.106	39.21	41.3	49.5	50.5	50.5
#200	0.075	24.77	26.1	75.5	24.5	24.5
Pan	-	23.22	24.5	100.0	-	-

Notes :

Tested By TO Date 11/12/13 Checked By KC Date 11/18/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	289.1-289.6
Project No.	2013-465-001	Sample No.	ST-12
Lab ID	2013-465-001-010	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	19.5	21.7	4.93	14.6	15.3	0.01333	0.0341	15.3
5	16.0	21.7	4.93	11.1	11.6	0.01333	0.0220	11.6
15	14.0	21.7	4.93	9.1	9.5	0.01333	0.0129	9.5
30	13.0	21.7	4.93	8.1	8.5	0.01333	0.0092	8.5
60	13.0	21.7	4.93	8.1	8.5	0.01333	0.0065	8.5
250	11.5	21.7	4.93	6.6	6.9	0.01333	0.0032	6.9
1440	10.5	22.4	4.71	5.8	6.1	0.01322	0.0013	6.1

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	94.95	Hygroscopic Moisture Factor	0.826
Weight of Deflocculant (g)	5.0	a - Factor	0.998
		Percent Finer than # 10	100.00
		Specific Gravity	2.66 Measured

Notes:

Tested By **TO** Date **11/12/13** Checked By **KC** Date **11/18/13**

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	288.9-289.1
Project No.	2013-465-001	Sample No.	ST-12
Lab ID #	2013-465-001-010		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1393	5/13/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	NA	NA
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	289.1-289.6
Project No.	2013-465-001	Sample No.	ST-12
Lab ID #	2013-465-001-010		

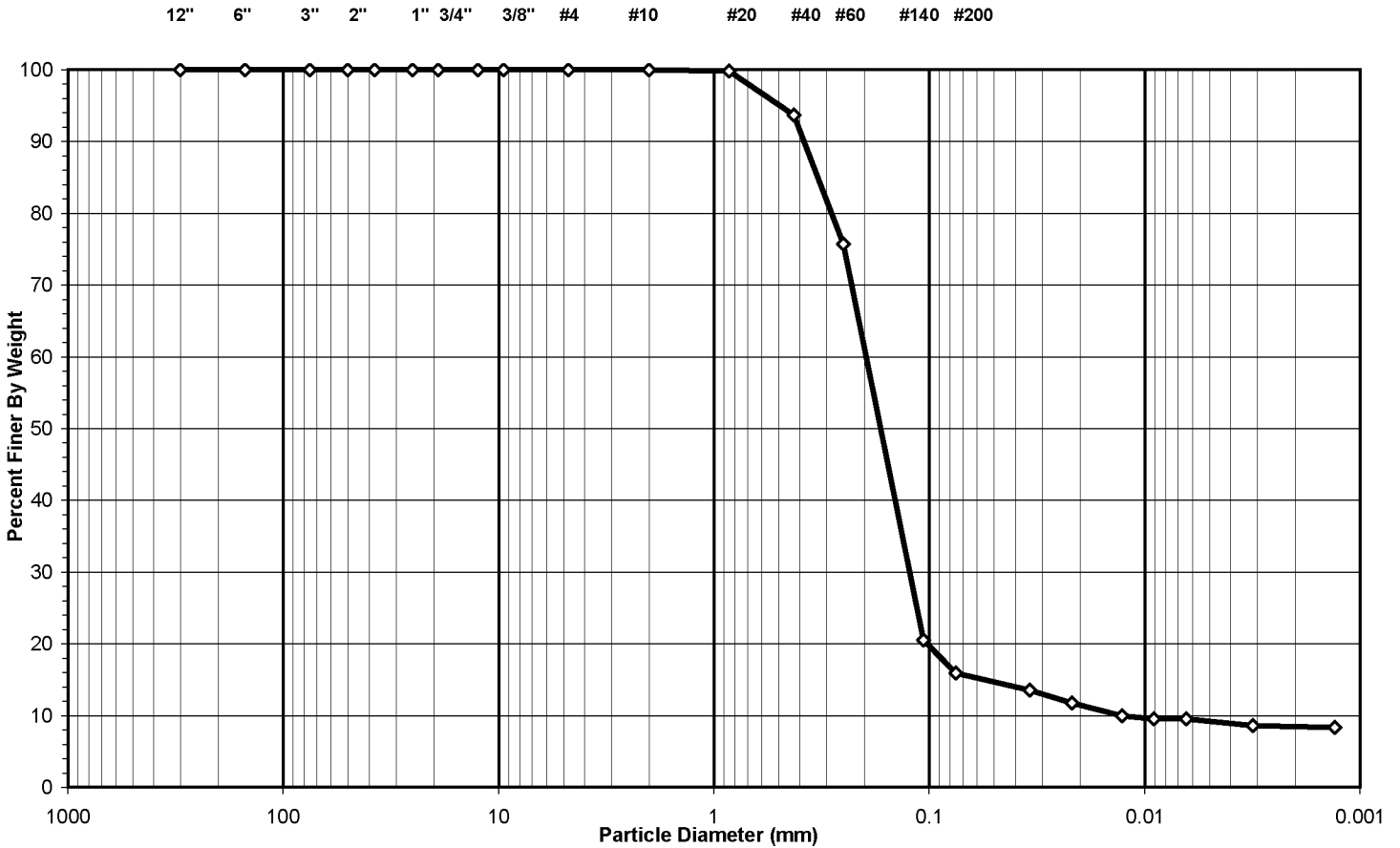
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G362	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1497	12/13/13
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	12/11/13
#200 Sieve	G1386	10/24/14
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-011

Boring No. R-7-1
 Depth (ft) 299.7-300.3
 Sample No. ST-13
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel	sand			silt and clay fraction		
	cobble	gravel	sand			silt	clay	

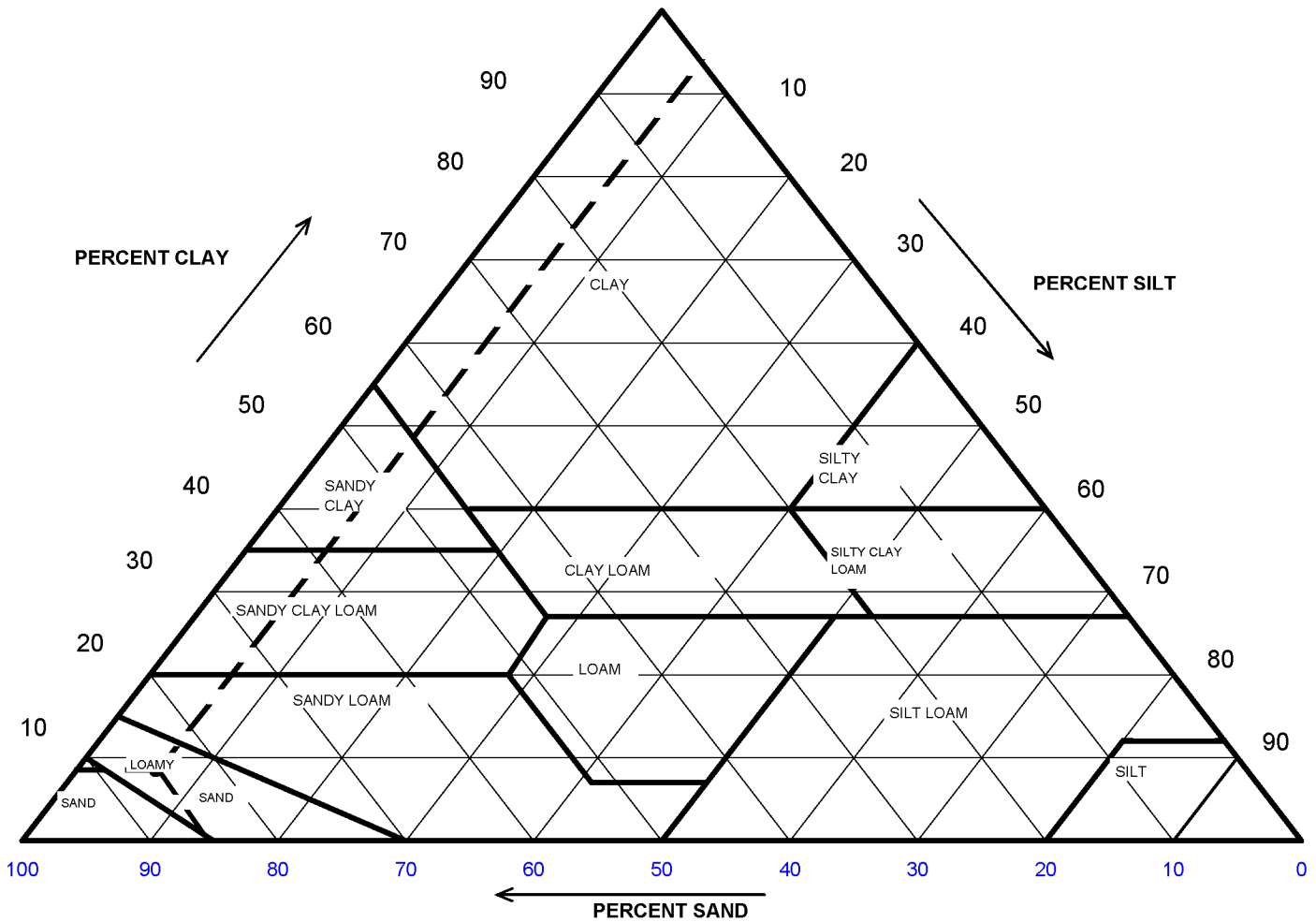


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	84.07
Finer Than #200	<i>Silt & Clay</i>	15.93
<p>USCS Symbol <i>SM, TESTED</i> <i>(NON-PLASTIC FINES)</i></p> <p>USCS Classification <i>SILTY SAND</i></p>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-011

Boring No. R-7-1
 Depth (ft) 299.7-300.3
 Sample No. ST-13
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	85.28	85.28
0.05	14.72	<i>Silt</i>	6.23	6.23
0.002	8.49	<i>Clay</i>	8.49	8.49
USDA Classification:		LOAMY SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-011

Boring No. R-7-1
 Depth (ft) 299.7-300.3
 Sample No. ST-13
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	17	Air Dried - #10 Hydrometer Material (g)	116.88
Wgt. Tare + Wet Soil (g)	46.41	Corrected Dry Wt. of - #10 Material (g)	110.84
Wgt. Tare + Dry Soil (g)	44.45		
Weight of Tare (g)	8.49	Weight of - #200 Material (g)	17.66
Weight of Water (g)	1.96	Weight of - #10 ; + #200 Material (g)	93.18
Weight of Dry Soil (g)	35.96		
Moisture Content (%)	5.5	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	29		
Wgt. Tare + Air Dry Soil (g)	663.06		
Weight of Tare (g)	204.77		
Air Dried Wgt. Total Sample (g)	458.29	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	434.60	Corrected Dry Sample Wt - #10 (g)	434.60

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.20	0.2	0.2	99.8	99.8
#40	0.425	6.81	6.1	6.3	93.7	93.7
#60	0.250	19.92	18.0	24.3	75.7	75.7
#140	0.106	61.12	55.1	79.4	20.6	20.6
#200	0.075	5.13	4.6	84.1	15.9	15.9
Pan	-	17.66	15.9	100.0	-	-

Notes :

Tested By TO Date 11/11/13 Checked By KC Date 11/18/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	299.7-300.3
Project No.	2013-465-001	Sample No.	ST-13
Lab ID	2013-465-001-011	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	20.0	21.7	4.93	15.1	13.6	0.01333	0.0340	13.6
5	18.0	21.7	4.93	13.1	11.8	0.01333	0.0218	11.8
15	16.0	21.7	4.93	11.1	10.0	0.01333	0.0127	10.0
30	15.5	21.7	4.93	10.6	9.5	0.01333	0.0090	9.5
60	15.5	21.7	4.93	10.6	9.5	0.01333	0.0064	9.5
250	14.5	21.7	4.93	9.6	8.6	0.01333	0.0031	8.6
1440	14.0	22.4	4.71	9.3	8.4	0.01322	0.0013	8.4

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	110.84	Hygroscopic Moisture Factor	0.948
Weight of Deflocculant (g)	5.0	a - Factor	0.998
		Percent Finer than # 10	100.00
		Specific Gravity	2.66 Measured

Notes:

Tested By TO Date 11/12/13 Checked By KC Date 11/18/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	299.7-300.3
Project No.	2013-465-001	Sample No.	ST-13
Lab ID #	2013-465-001-011		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1395	6/4/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	NA	NA
3/8" Sieve	NA	NA
#4 Sieve	NA	NA
#10 Sieve	NA	NA
Sieve Shaker	NA	NA
Additional Balance	NA	NA
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	299.7-300.3
Project No.	2013-465-001	Sample No.	ST-13
Lab ID #	2013-465-001-011		

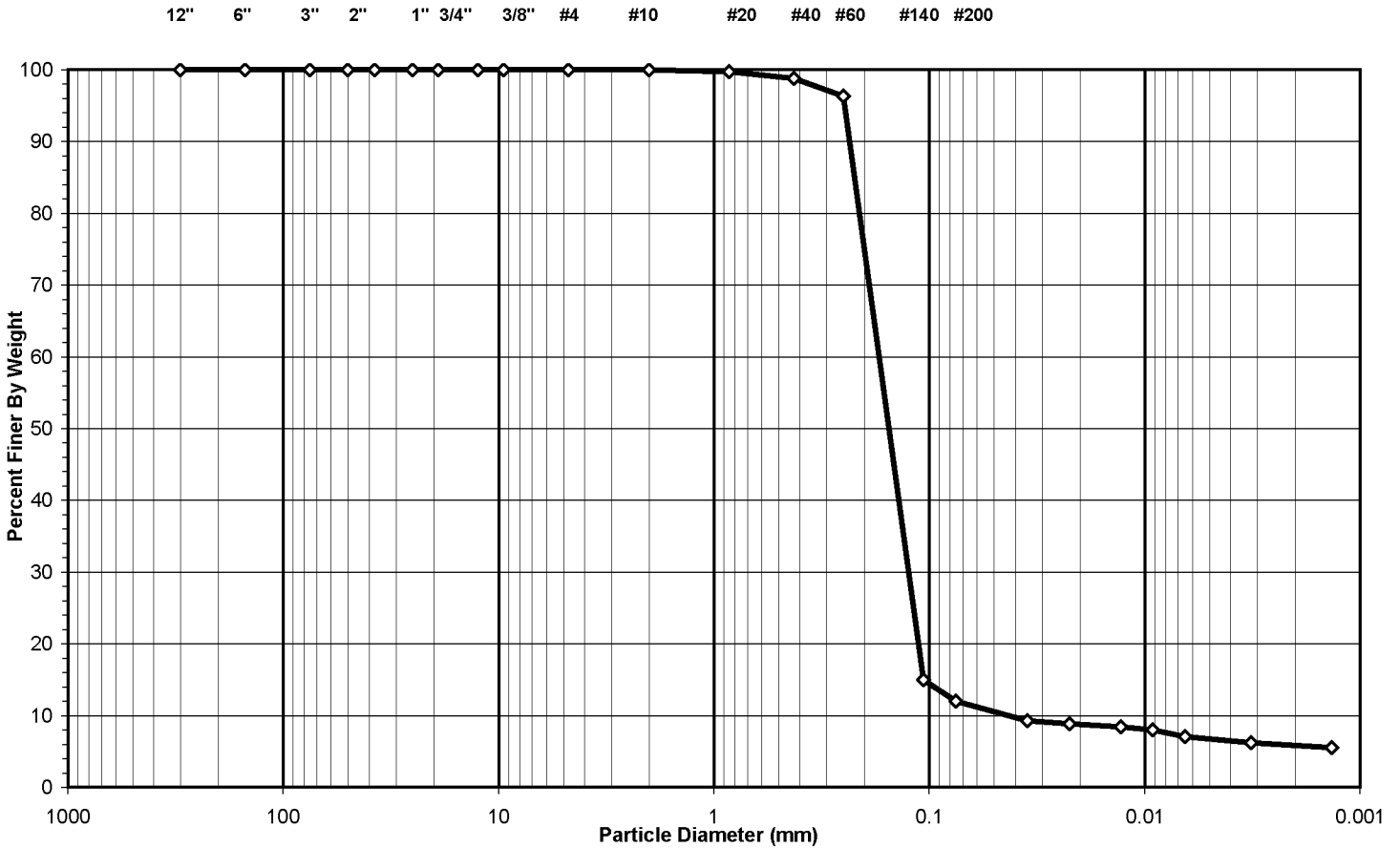
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G364	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1497	12/13/13
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	12/11/13
#200 Sieve	G1386	10/24/14
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-012

Boring No. R-7-1
 Depth (ft) 310.5-311.0
 Sample No. ST-14
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobbles	gravel	sand			silt and clay fraction		
	cobbles	gravel	sand			silt	clay	

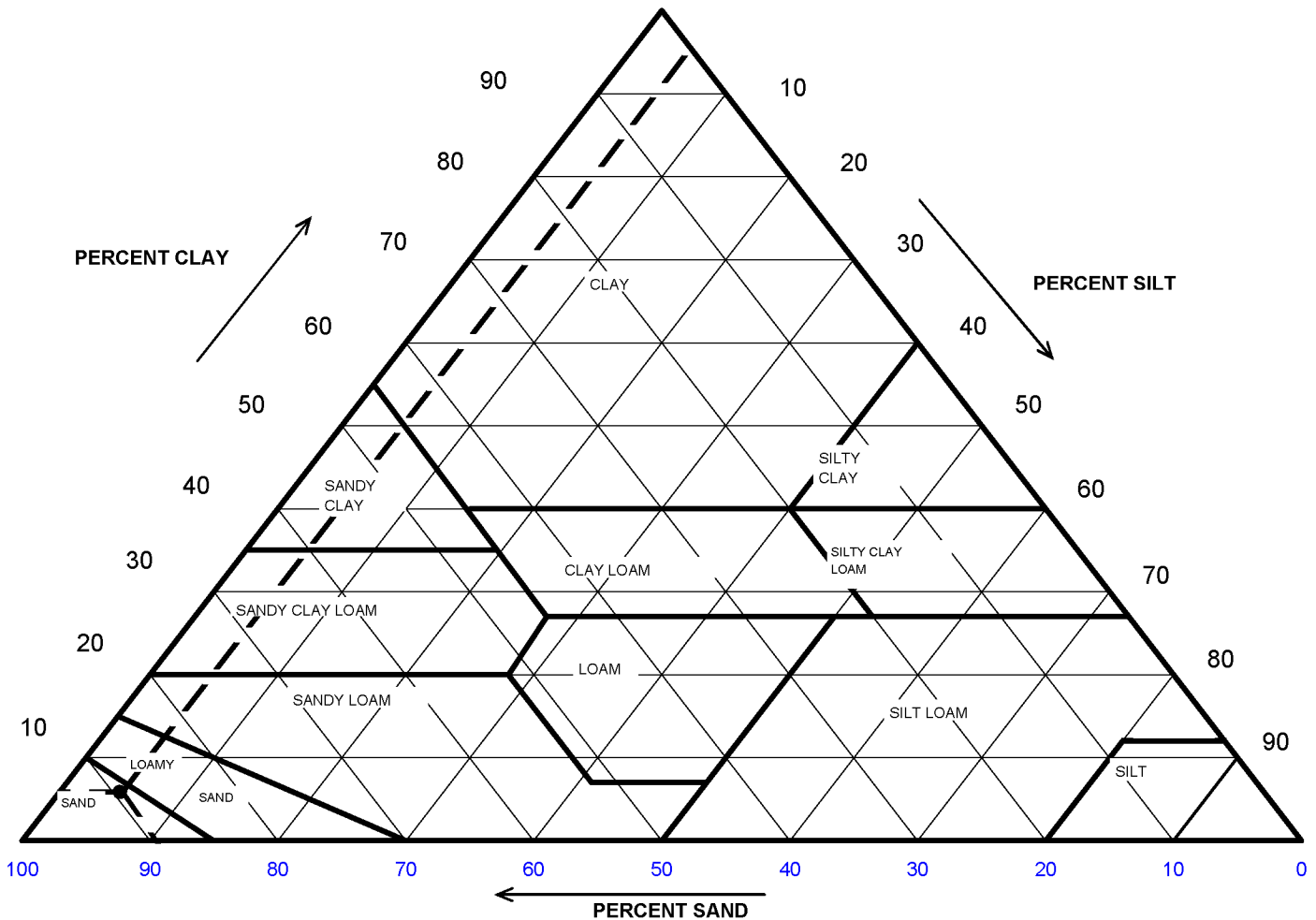


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.02
#4 To #200	<i>Sand</i>	87.94
Finer Than #200	<i>Silt & Clay</i>	12.04
USCS Symbol <i>SM, TESTED</i> <i>(NON-PLASTIC FINES)</i>		
USCS Classification <i>SILTY SAND</i>		

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-012

Boring No. R-7-1
 Depth (ft) 310.5-311.0
 Sample No. ST-14
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.04	0.00
2	99.96	<i>Sand</i>	89.37	89.40
0.05	10.59	<i>Silt</i>	4.72	4.72
0.002	5.87	<i>Clay</i>	5.87	5.88
USDA Classification:		SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-012

Boring No. R-7-1
 Depth (ft) 310.5-311.0
 Sample No. ST-14
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	40	Air Dried - #10 Hydrometer Material (g)	112.35
Wgt. Tare + Wet Soil (g)	34.03	Corrected Dry Wt. of - #10 Material (g)	112.00
Wgt. Tare + Dry Soil (g)	33.95		
Weight of Tare (g)	8.35	Weight of - #200 Material (g)	13.49
Weight of Water (g)	0.08	Weight of - #10 ; + #200 Material (g)	98.51
Weight of Dry Soil (g)	25.60		
Moisture Content (%)	0.3	J-FACTOR (%FINER THAN #10)	0.9996
Soil Specimen Data			
Tare No.	19		
Wgt. Tare + Air Dry Soil (g)	608.10		
Weight of Tare (g)	203.92		
Air Dried Wgt. Total Sample (g)	404.18	Dry Weight of Material Retained on #10 (g)	0.15
Total Dry Sample Weight (g)	402.92	Corrected Dry Sample Wt - #10 (g)	402.77

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.09	0.0	0.0	100.0	100.0
#10	2.00	0.06	0.0	0.0	100.0	100.0
#20	0.85	0.22	0.2	0.2	99.8	99.8
#40	0.425	1.09	1.0	1.2	98.8	98.8
#60	0.250	2.71	2.4	3.6	96.4	96.4
#140	0.106	91.15	81.4	85.0	15.0	15.0
#200	0.075	3.34	3.0	88.0	12.0	12.0
Pan	-	13.49	12.0	100.0	-	-

Notes :

Tested By PC Date 11/13/13 Checked By JAM Date 11/21/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	310.5-311.0
Project No.	2013-465-001	Sample No.	ST-14
Lab ID	2013-465-001-012	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	15.0	22.7	4.61	10.4	9.3	0.01334	0.0351	9.3
5	14.5	22.7	4.61	9.9	8.9	0.01334	0.0223	8.9
15	14.0	22.7	4.61	9.4	8.4	0.01334	0.0129	8.4
30	13.5	22.7	4.61	8.9	8.0	0.01334	0.0091	8.0
60	12.5	22.8	4.58	7.9	7.1	0.01332	0.0065	7.1
250	11.5	22.9	4.55	6.9	6.2	0.01330	0.0032	6.2
1440	11.0	22.1	4.80	6.2	5.6	0.01343	0.0013	5.6

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	112.00	Hygroscopic Moisture Factor	0.997
Weight of Deflocculant (g)	5.0	a - Factor	1.006
		Percent Finer than # 10	99.96
		Specific Gravity	2.62 Measured

Notes:

Tested By TO Date 11/18/13 Checked By JAM Date 11/21/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	310.5-311.0
Project No.	2013-465-001	Sample No.	ST-14
Lab ID #	2013-465-001-012		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	G009	9/13/14
3/8" Sieve	G1251	9/13/14
#4 Sieve	G802	9/16/14
#10 Sieve	G894	8/9/14
Sieve Shaker	G1067	9/20/14
Additional Balance	G1395	6/4/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	310.5-311.0
Project No.	2013-465-001	Sample No.	ST-14
Lab ID #	2013-465-001-012		

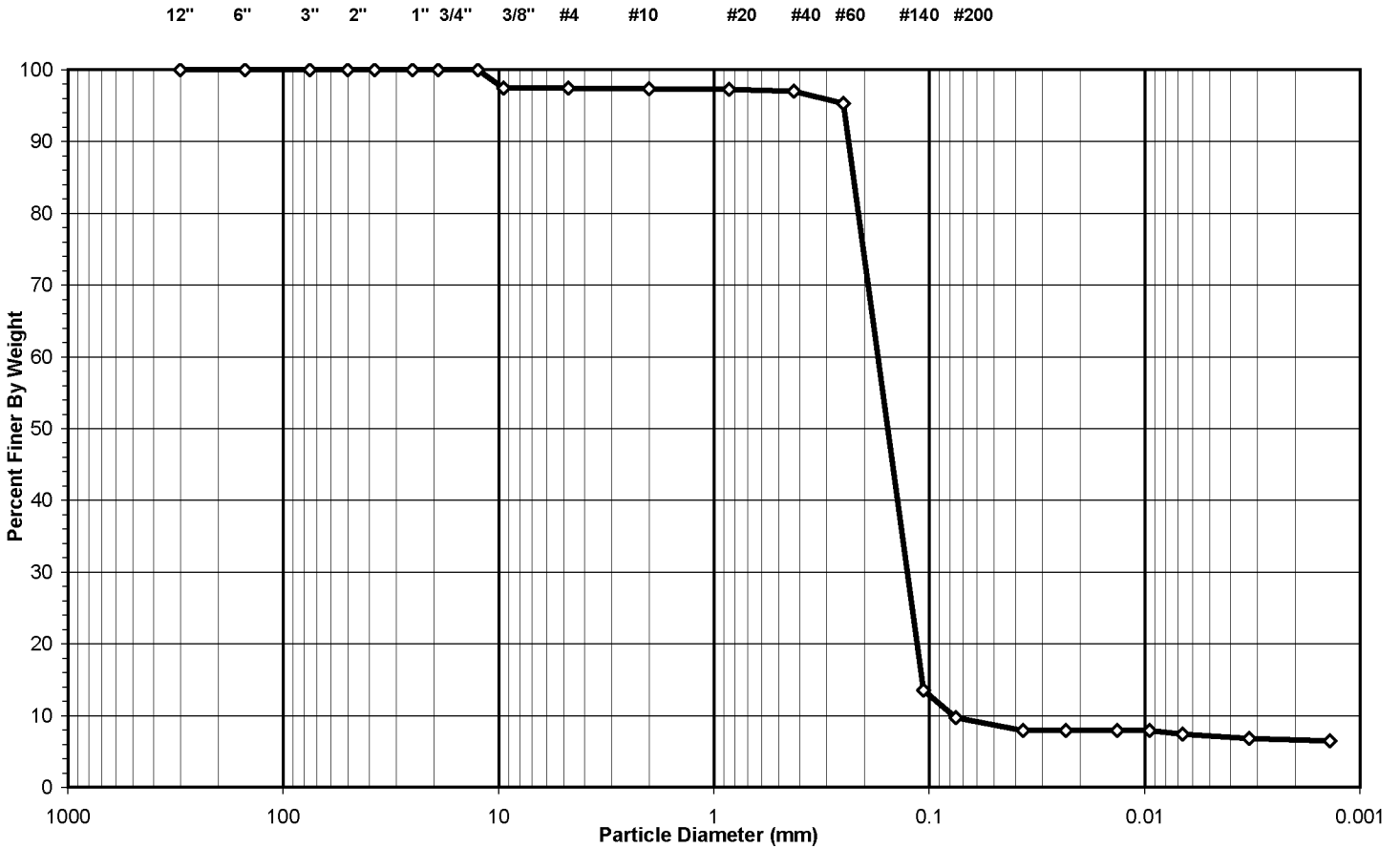
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G772	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1383	8/9/14
#40 Sieve	G1280	1/2/14
#60 Sieve	G1273	1/2/14
#140 Sieve	G1408	12/11/13
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-013

Boring No. R-7-1
 Depth (ft) 320.3-320.5
 Sample No. ST-16
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel		sand		silt and clay fraction		
	cobble	gravel		sand		silt	clay	

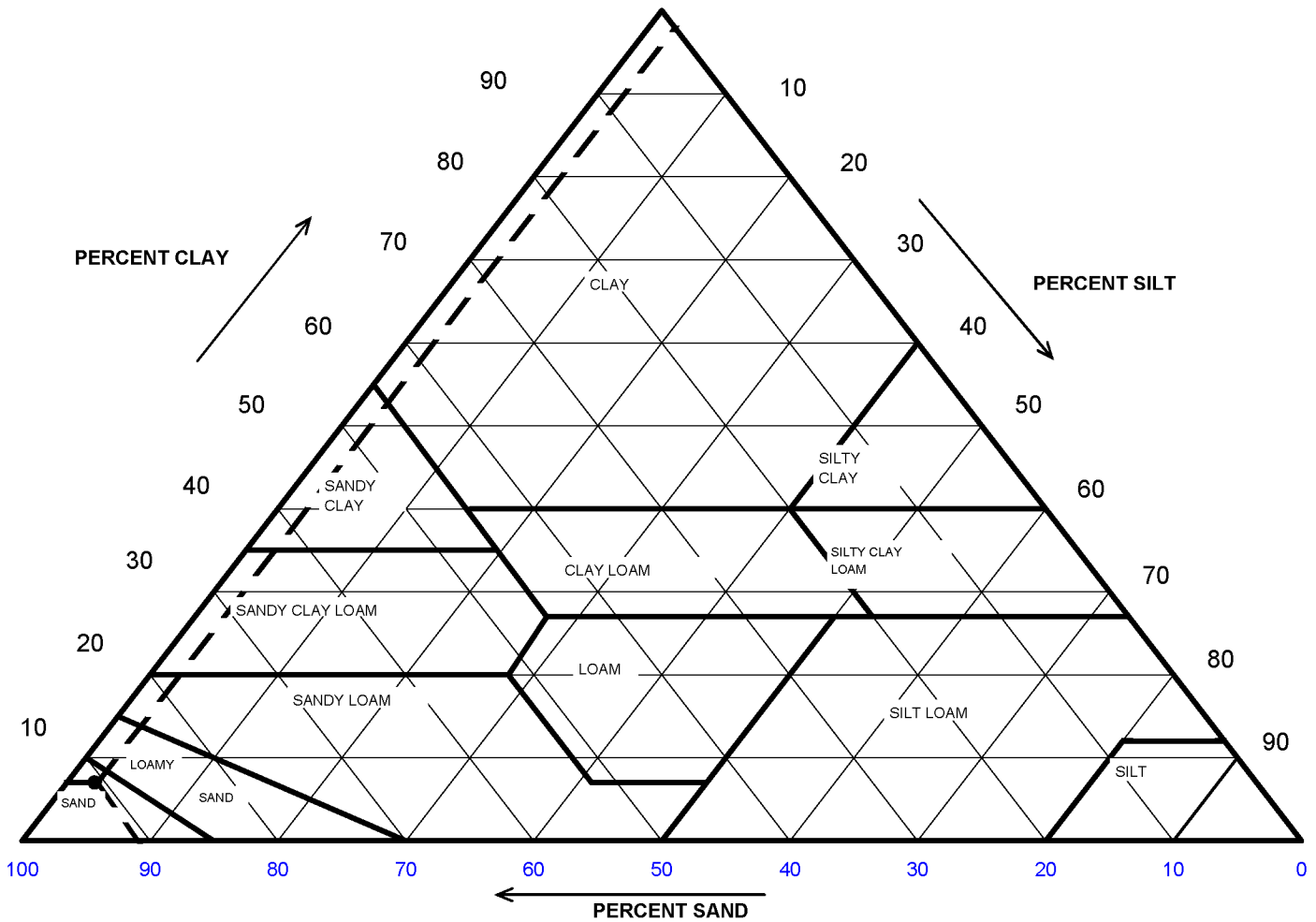


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	2.58
#4 To #200	<i>Sand</i>	87.69
Finer Than #200	<i>Silt & Clay</i>	9.73
		D60 = 0.17
		D30 = 0.12 CC = 1.22
		D10 = 0.08 CU = 2.26
USCS Symbol	<i>SP-SM, TESTED</i>	
	<i>(NON-PLASTIC FINES)</i>	
USCS Classification	<i>POORLY GRADED SAND WITH SILT</i>	

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-013

Boring No. R-7-1
 Depth (ft) 320.3-320.5
 Sample No. ST-16
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	2.67	0.00
2	97.33	<i>Sand</i>	88.40	90.82
0.05	8.93	<i>Silt</i>	2.15	2.21
0.002	6.78	<i>Clay</i>	6.78	6.97
USDA Classification:		SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-013

Boring No. R-7-1
 Depth (ft) 320.3-320.5
 Sample No. ST-16
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	17	Air Dried - #10 Hydrometer Material (g)	68.19
Wgt. Tare + Wet Soil (g)	20.61	Corrected Dry Wt. of - #10 Material (g)	67.79
Wgt. Tare + Dry Soil (g)	20.54		
Weight of Tare (g)	8.56	Weight of - #200 Material (g)	6.77
Weight of Water (g)	0.07	Weight of - #10 ; + #200 Material (g)	61.02
Weight of Dry Soil (g)	11.98		
Moisture Content (%)	0.6	J-FACTOR (%FINER THAN #10)	0.9733
Soil Specimen Data			
Tare No.	920		
Wgt. Tare + Air Dry Soil (g)	189.81		
Weight of Tare (g)	98.60		
Air Dried Wgt. Total Sample (g)	91.21	Dry Weight of Material Retained on #10 (g)	2.42
Total Dry Sample Weight (g)	90.69	Corrected Dry Sample Wt - #10 (g)	88.27

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	2.34	2.6	2.6	97.4	97.4
#4	4.75	0.00	0.0	2.6	97.4	97.4
#10	2.00	0.08	0.1	2.7	97.3	97.3
#20	0.85	0.06	0.1	0.1	99.9	97.2
#40	0.425	0.14	0.2	0.3	99.7	97.0
#60	0.250	1.22	1.8	2.1	97.9	95.3
#140	0.106	56.94	84.0	86.1	13.9	13.5
#200	0.075	2.66	3.9	90.0	10.0	9.7
Pan	-	6.77	10.0	100.0	-	-

Notes :

Tested By BK Date 12/10/13 Checked By KC Date 12/11/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	320.3-320.5
Project No.	2013-465-001	Sample No.	ST-16
Lab ID	2013-465-001-013	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	10.5	21.4	5.02	5.5	8.1	0.01358	0.0367	7.9
5	10.5	21.4	5.02	5.5	8.1	0.01358	0.0232	7.9
15	10.5	21.4	5.02	5.5	8.1	0.01358	0.0134	7.9
30	10.5	21.4	5.02	5.5	8.1	0.01358	0.0095	7.9
60	10.0	21.9	4.87	5.1	7.6	0.01350	0.0067	7.4
250	9.5	22.2	4.77	4.7	7.0	0.01346	0.0033	6.8
1440	9.5	21.3	5.05	4.4	6.6	0.01360	0.0014	6.4

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	67.79	Hygroscopic Moisture Factor	0.994
Weight of Deflocculant (g)	5.0	a - Factor	1.008
		Percent Finer than # 10	97.33
		Specific Gravity	2.61 Measured

Notes:

Tested By TO Date 12/9/13 Checked By KC Date 12/11/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	320.3-320.5
Project No.	2013-465-001	Sample No.	ST-16
Lab ID #	2013-465-001-013		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	G009	9/13/14
3/8" Sieve	G1251	9/13/14
#4 Sieve	G802	9/16/14
#10 Sieve	G894	8/9/14
Sieve Shaker	G1067	9/20/14
Additional Balance	G1394	5/15/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/4/14
Oven	G1118	11/23/14

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	320.3-320.5
Project No.	2013-465-001	Sample No.	ST-16
Lab ID #	2013-465-001-013		

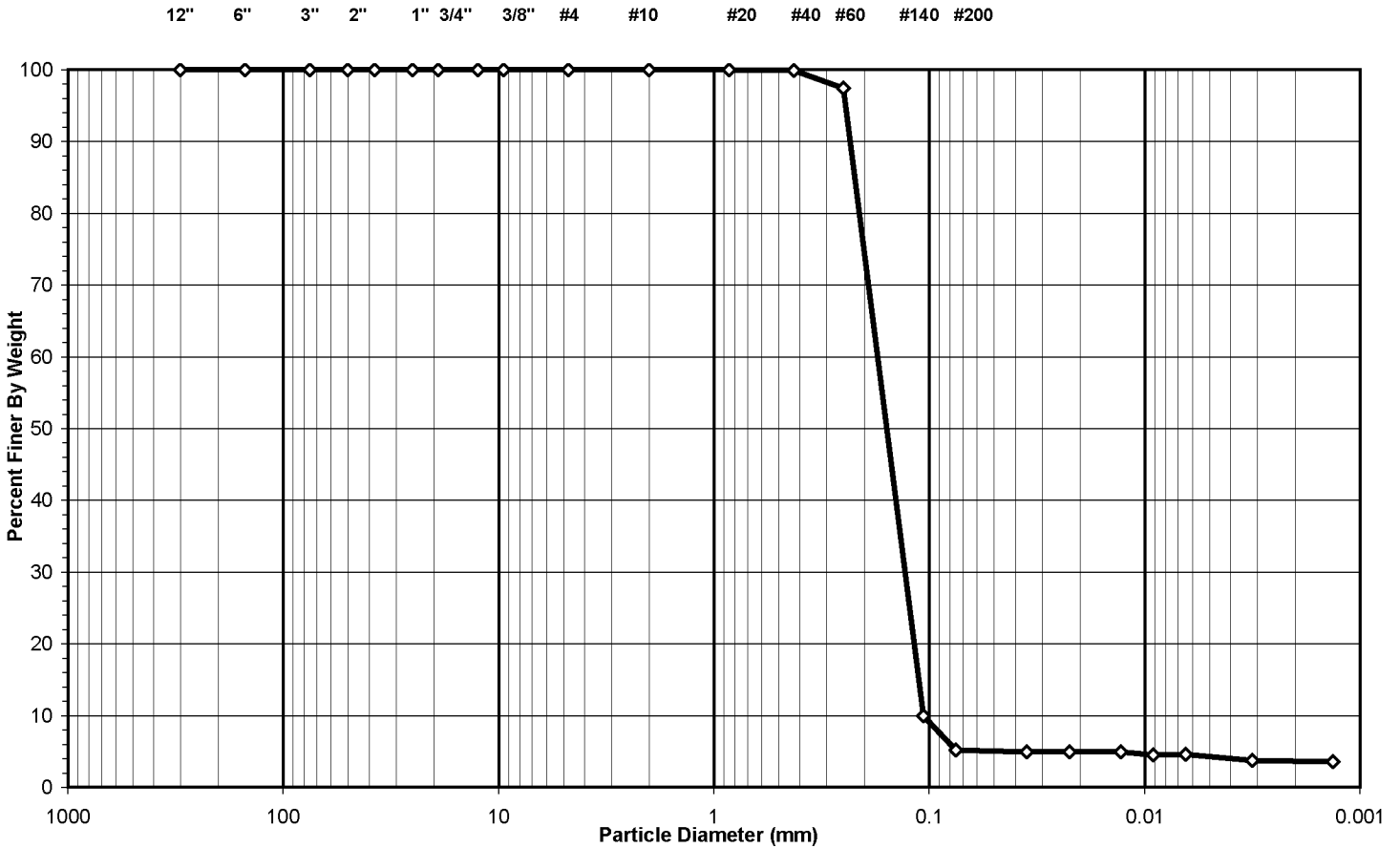
Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/23/14
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G355	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1394	5/15/14
#10 Sieve	NA	NA
#20 Sieve	G1497	4/22/14
#40 Sieve	G1413	12/26/13
#60 Sieve	G1384	9/13/14
#140 Sieve	G1407	11/22/14
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA

SIEVE AND HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-014

Boring No. R-7-1
 Depth (ft) 329.7-330.2
 Sample No. ST-17
 Soil Color Gray

USCS USDA	SIEVE ANALYSIS					HYDROMETER		
	cobble	gravel		sand		silt and clay fraction		
	cobble	gravel		sand		silt	clay	

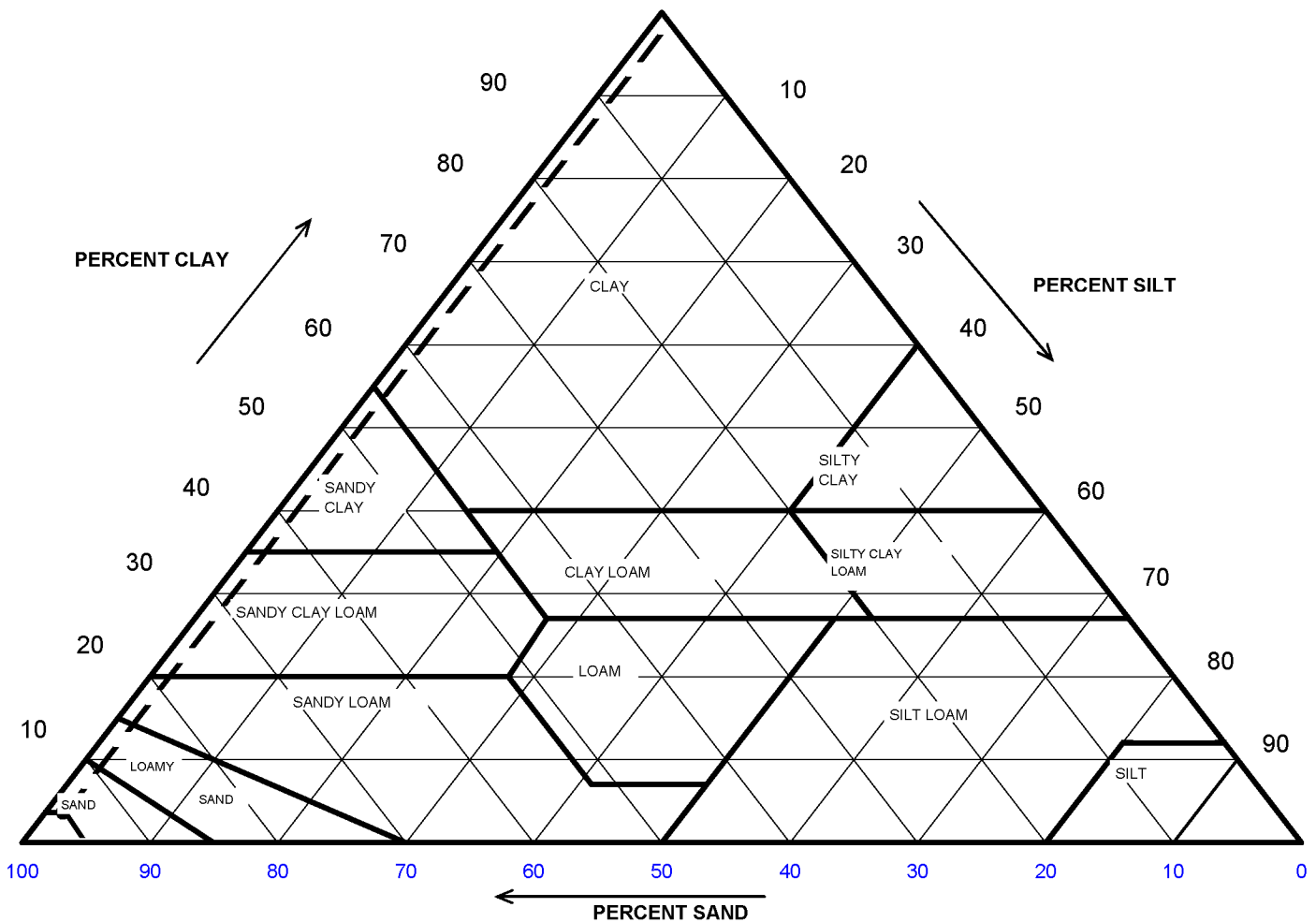


USCS Summary		
Sieve Sizes (mm)		Percentage
Greater Than #4	<i>Gravel</i>	0.00
#4 To #200	<i>Sand</i>	94.81
Finer Than #200	<i>Silt & Clay</i>	5.19
		D60 = 0.17
		D30 = 0.13 CC = 0.91
		D10 = 0.11 CU = 1.63
USCS Symbol	<i>SP-SM, TESTED</i>	
	<i>(NON-PLASTIC FINES)</i>	
USCS Classification	<i>POORLY GRADED SAND WITH SILT</i>	

USDA CLASSIFICATION CHART

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-014

Boring No. R-7-1
 Depth (ft) 329.7-330.2
 Sample No. ST-17
 Soil Color Gray



Particle Size (mm)	Percent Finer	USDA SUMMARY	Actual Percentage	Corrected % of Minus 2.0 mm material for USDA Classificat.
		<i>Gravel</i>	0.00	0.00
2	100.00	<i>Sand</i>	94.93	94.93
0.05	5.07	<i>Silt</i>	1.43	1.43
0.002	3.64	<i>Clay</i>	3.64	3.64
USDA Classification:		SAND		

WASH SIEVE ANALYSIS

ASTM D 422-63 (2007)

Client Paul C. Rizzo & Associates
 Client Reference Turkey Point Units 6 & 7 Site
 Project No. 2013-465-001
 Lab ID 2013-465-001-014

Boring No. R-7-1
 Depth (ft) 329.7-330.2
 Sample No. ST-17
 Soil Color Gray

Minus #10 for Hygroscopic Moisture Content		Hydrometer Specimen Data	
Tare No.	38	Air Dried - #10 Hydrometer Material (g)	117.64
Wgt. Tare + Wet Soil (g)	38.84	Corrected Dry Wt. of - #10 Material (g)	117.33
Wgt. Tare + Dry Soil (g)	38.76		
Weight of Tare (g)	8.49	Weight of - #200 Material (g)	6.09
Weight of Water (g)	0.08	Weight of - #10 ; + #200 Material (g)	111.24
Weight of Dry Soil (g)	30.27		
Moisture Content (%)	0.3	J-FACTOR (%FINER THAN #10)	1.0000
Soil Specimen Data			
Tare No.	53		
Wgt. Tare + Air Dry Soil (g)	841.92		
Weight of Tare (g)	203.23		
Air Dried Wgt. Total Sample (g)	638.69	Dry Weight of Material Retained on #10 (g)	0.00
Total Dry Sample Weight (g)	637.01	Corrected Dry Sample Wt - #10 (g)	637.01

Sieve Size	Sieve Opening (mm)	Wgt. of Soil Retained (gm)	Percent Retained (%)	Accumulated Percent Retained (%)	Percent Finer (%)	Accumulated Percent Finer (%)
12"	300	0.00	0.0	0.0	100.0	100.0
6"	150	0.00	0.0	0.0	100.0	100.0
3"	75	0.00	0.0	0.0	100.0	100.0
2"	50	0.00	0.0	0.0	100.0	100.0
1 1/2"	37.5	0.00	0.0	0.0	100.0	100.0
1"	25.0	0.00	0.0	0.0	100.0	100.0
3/4"	19.0	0.00	0.0	0.0	100.0	100.0
1/2"	12.5	0.00	0.0	0.0	100.0	100.0
3/8"	9.50	0.00	0.0	0.0	100.0	100.0
#4	4.75	0.00	0.0	0.0	100.0	100.0
#10	2.00	0.00	0.0	0.0	100.0	100.0
#20	0.85	0.03	0.0	0.0	100.0	100.0
#40	0.425	0.04	0.0	0.1	99.9	99.9
#60	0.250	2.95	2.5	2.6	97.4	97.4
#140	0.106	102.59	87.4	90.0	10.0	10.0
#200	0.075	5.63	4.8	94.8	5.2	5.2
Pan	-	6.09	5.2	100.0	-	-

Notes :

Tested By PC Date 11/13/13 Checked By JAM Date 11/21/13

HYDROMETER ANALYSIS
 ASTM D 422-63 (2007)

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	329.7-330.2
Project No.	2013-465-001	Sample No.	ST-17
Lab ID	2013-465-001-014	Soil Color	Gray

Elapsed Time (min)	R Measured	Temp. (° C)	Composite Correction	R Corrected	N (%)	K Factor	Diameter (mm)	N' (%)
0	NA	NA	NA	NA	NA	NA	NA	NA
2	10.5	22.7	4.61	5.9	5.0	0.01302	0.0351	5.0
5	10.5	22.7	4.61	5.9	5.0	0.01302	0.0222	5.0
15	10.5	22.7	4.61	5.9	5.0	0.01302	0.0128	5.0
30	10.0	22.7	4.61	5.4	4.5	0.01302	0.0091	4.5
60	10.0	22.9	4.55	5.4	4.6	0.01299	0.0064	4.6
250	9.0	22.9	4.55	4.4	3.8	0.01299	0.0032	3.8
1440	9.0	22.1	4.80	4.2	3.5	0.01311	0.0013	3.5

Soil Specimen Data	Other Corrections		
Wgt. of Dry Material (g)	117.33	Hygroscopic Moisture Factor	0.997
Weight of Deflocculant (g)	5.0	a - Factor	0.99
		Percent Finer than # 10	100.00
		Specific Gravity	2.70 Assumed

Notes:

Tested By TO Date 11/18/13 Checked By JAM Date 11/21/13

SIEVE ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	329.7-330.2
Project No.	2013-465-001	Sample No.	ST-17
Lab ID #	2013-465-001-014		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Platform Scale	NA	NA
3" Sieve	NA	NA
2" Sieve	NA	NA
1 1/2 " Sieve	NA	NA
1" Sieve	NA	NA
3/4" Sieve	NA	NA
1/2" Sieve	G009	9/13/14
3/8" Sieve	G1251	9/13/14
#4 Sieve	G802	9/16/14
#10 Sieve	G894	8/9/14
Sieve Shaker	G1067	9/20/14
Additional Balance	G1395	6/4/14
#10 Sieve	G884	8/20/14
#10 Wash Sieve	G415	11/23/13
Oven	G1118	11/27/13

HYDROMETER ANALYSIS

ASTM D 422-63 (2007)

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	329.7-330.2
Project No.	2013-465-001	Sample No.	ST-17
Lab ID #	2013-465-001-014		

Equipment / Hydrometer	Equipment ID#	Calibration Due Date
Oven	G1118	11/27/13
Balance	G1057	11/4/14
Hydrometer Bulb	G599	7/25/14
Hydrometer Bulb	G1159	1/27/14
Hydrometer Bulb	G1160	1/27/14
Thermometer	G1412	6/12/14
Sedimentation Cylinder	G353	NA
#200 Wash Sieve	G1507	10/22/14
Timing Device	G487	5/13/14
Equipment / -#10 Sieves	Equipment ID#	Calibration Due Date
Balance	G1395	6/4/14
#10 Sieve	NA	NA
#20 Sieve	G1383	8/9/14
#40 Sieve	G1280	1/2/14
#60 Sieve	G1273	1/2/14
#140 Sieve	G1408	12/11/13
#200 Sieve	G1334	12/31/13
Sieve Shaker	G1067	9/20/14
Additional Balance	NA	NA