

APPENDIX J

Results for Kleinfelder Specimen ID K2-13-009

- *Specimen Preparation Notes*
- *RCTS Testing Results*



Specimen K2-13-009

Page 1 of 3

Specimen No.: K2-13-009

Project No : 136473

Page 1 **of** 3

Boring No.: R-6-1b

Date of Preparation..: 12/11/13

Sample No.: ST-7

Depth.: 171.7 – 172.2 feet

Disposition of Sample		
<input checked="" type="checkbox"/> No Apparent Disturbance	<input type="checkbox"/> Apparent Disturbance	<input type="checkbox"/> Compacted Sample
<input type="checkbox"/> Other (Describe)		

Specimen Preparation Notes					
Preparation Method :	Extruded from Shelby Tube with No Trimming	Affixation to Platens :	2.8-inch diameter platens, no adhesive used		
Ave. Length (in.) :	5.7628	Ave. Diameter (in.):	2.833	L/D	2.0
Total Unit Weight (pcf) :	119.9	Moisture Content (%) :	28.9	% Saturation (Assume SG = 2.65):	98.3

Specimen Testing Comments

1) Sample was extruded from the Shelby Tube directly into a latex membrane for testing on 12/10/13. No trimming of the sample was performed except to square the end.

2) Testing commenced on 12/10/13, beginning with 14 psi pressure.

3) The specimen tilted so that the magnets made contact with the electrical coils during the low-amplitude resonant column testing of Pressure Stage 5 (232 psi). The coil-magnet system was readjusted and the testing was resumed after retesting the low-amplitude resonant column series at Pressure Stage 4 (101 psi).

4) The full test sequence was completed on 12/11/13.

See Attached Photographs



Photo J.1

Sample R-6-1b ST-7 after removal from the transport container.



Photo J.2

Specimen being extruded directly into latex testing membrane.

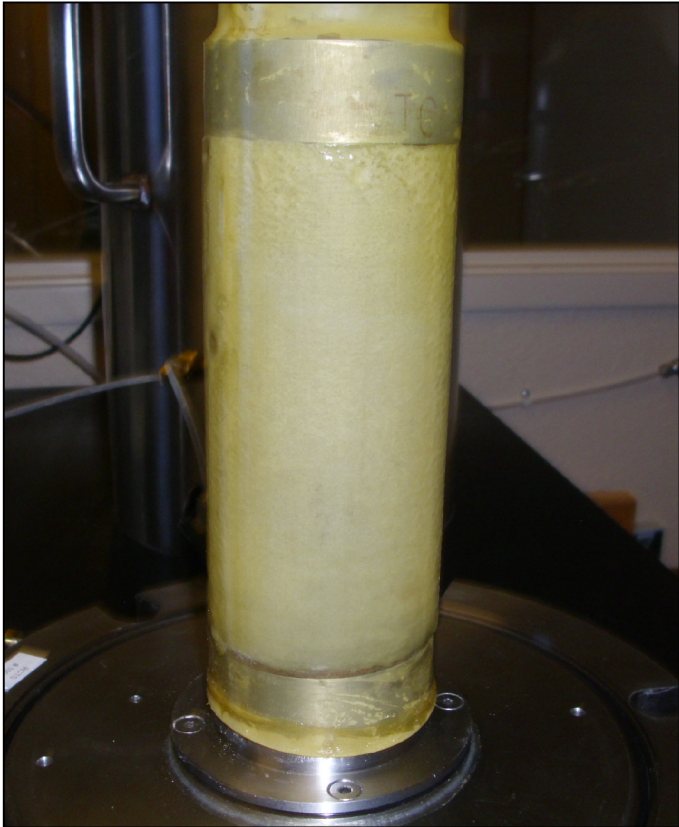


Photo J.3

Specimen after placement on base pedestal and vacuum pressure is applied.

Kleinfelder Specimen ID:

K2-13-009

Boring No: R-6-1b

Sample No: ST-7

Silty Sand (SM)

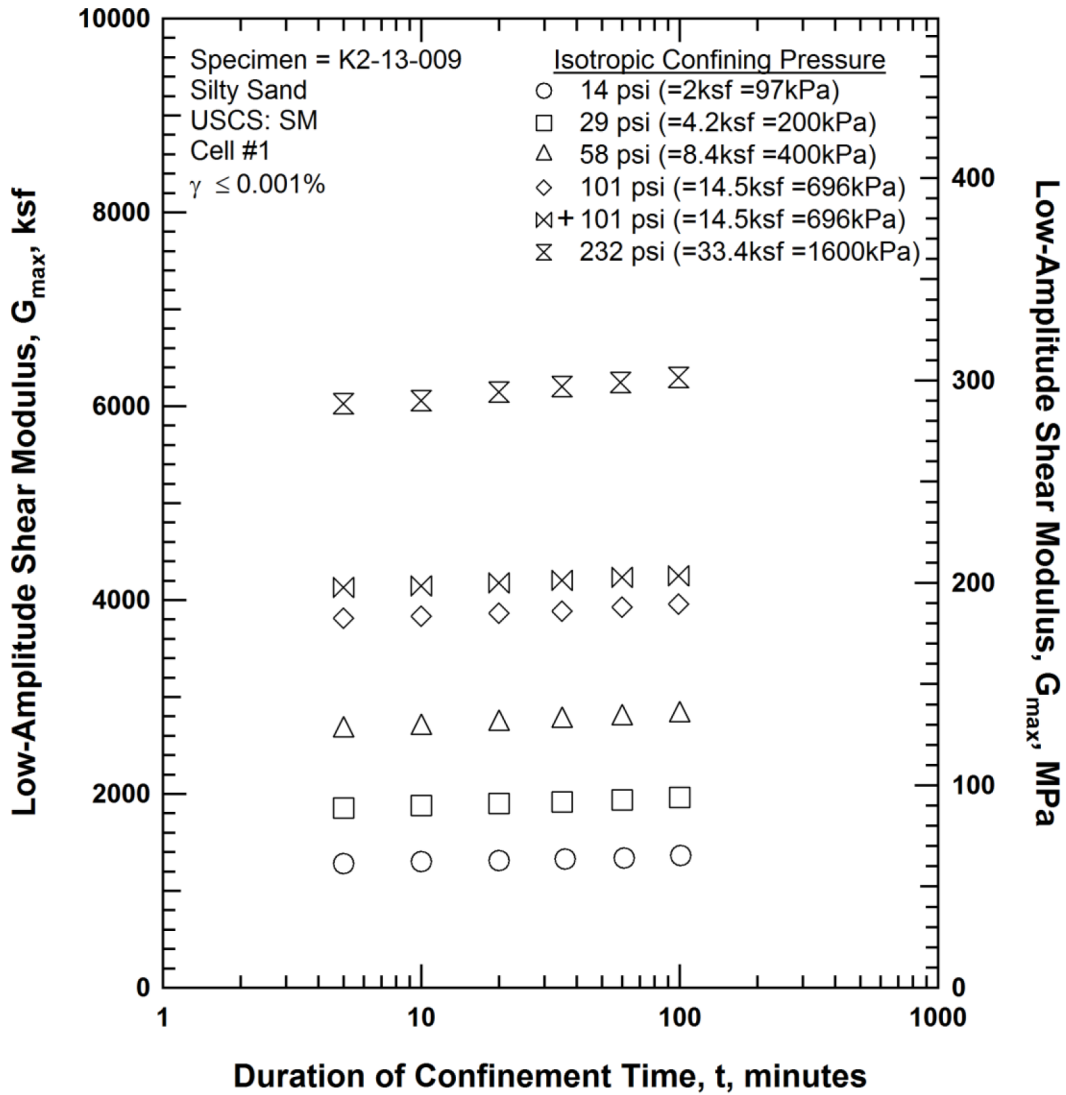
**Depth = 171.7 ft – 172.2 ft (below
existing ground surface)**

Total Unit Weight = 119.9 lb/ft³

Natural Moisture Content = 28.9%

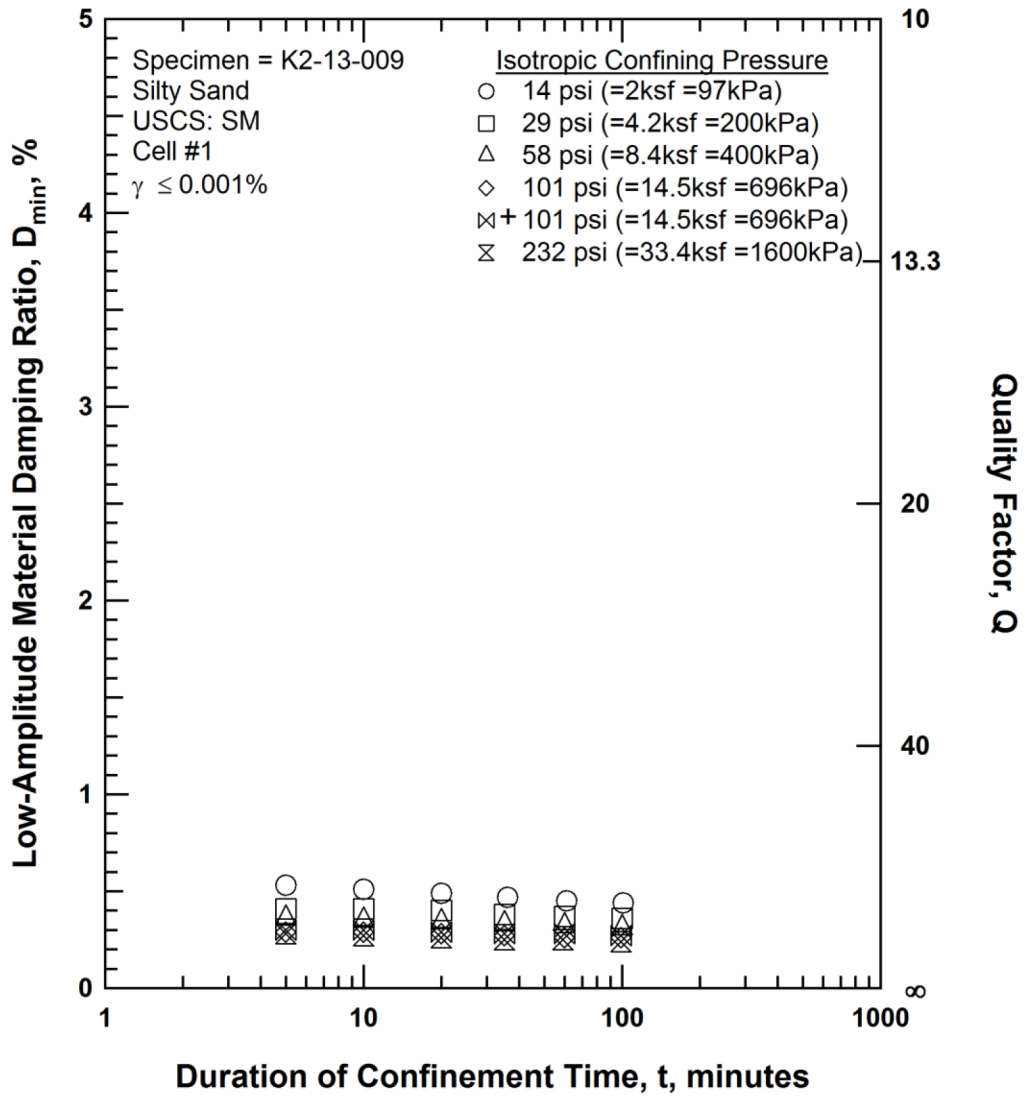
**Estimated In-Situ Mean Effective
Stress = 58 psi**

RCTS TEST RESULTS



Note:
+ Retest of 101 psi confining pressure after adjustment of system to prevent contact of the coil and magnets at the 232 psi confining pressure.

Figure J.1 Variation in Low-Amplitude Shear Modulus with Magnitude and Duration of Isotropic Confining Pressure from Resonant Column Tests of Specimen K2-13-009

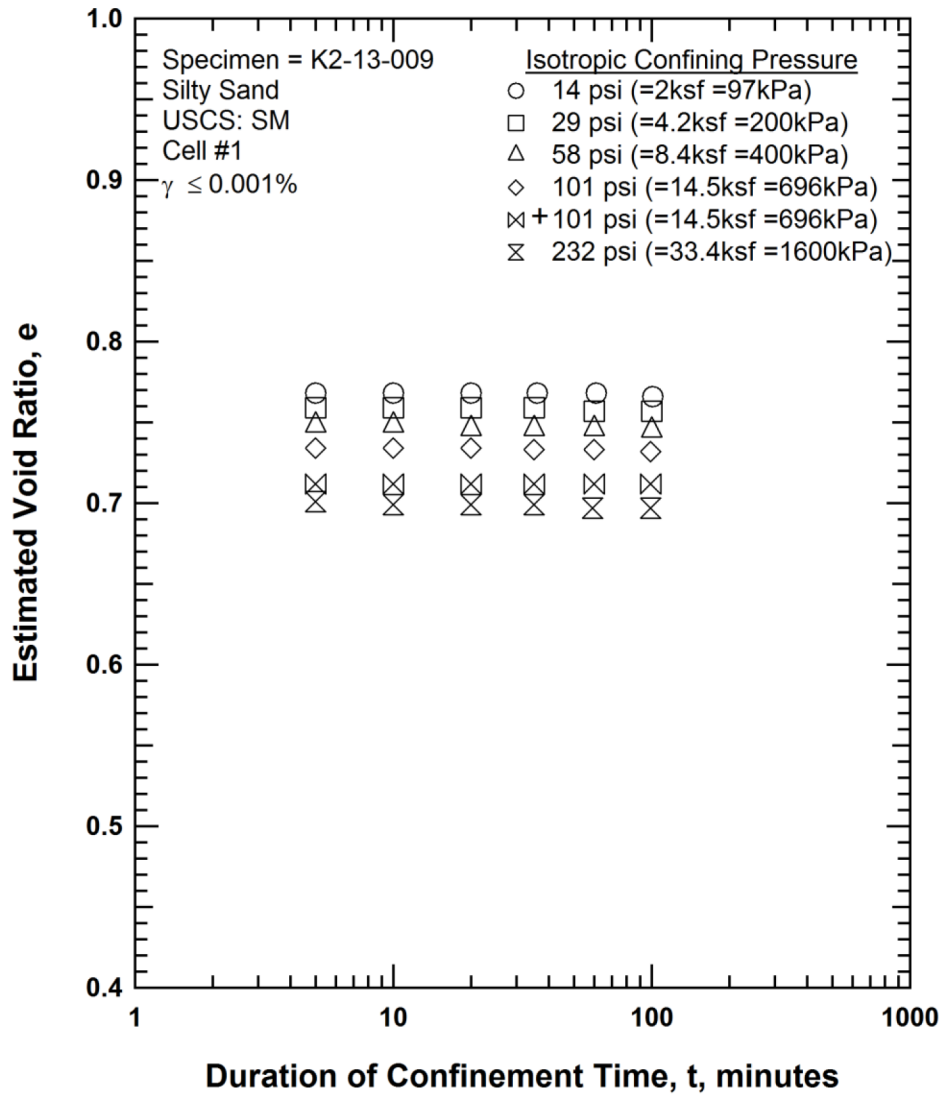


Note:

+ Retest of 101 psi confining pressure after adjustment of system to prevent contact of the coil and magnets at the 232 psi confining pressure.

Figure J.2 Variation in Low-Amplitude Material Damping Ratio with Magnitude and Duration of Isotropic Confining Pressure from Resonant Column Tests of Specimen K2-13-009

RCTS TEST RESULTS

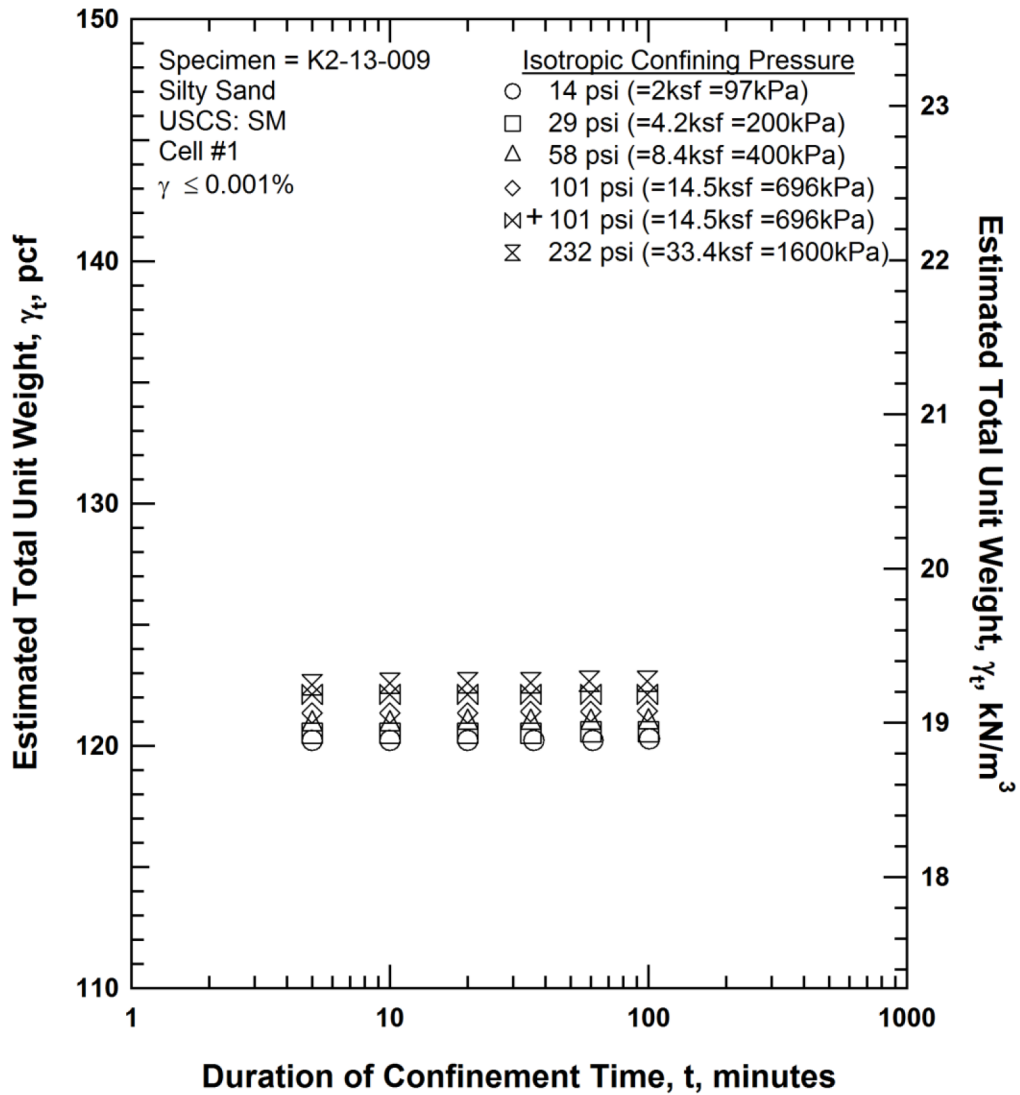


Note:

+ Retest of 101 psi confining pressure after adjustment of system to prevent contact of the coil and magnets at the 232 psi confining pressure.

Figure J.3 Variation in Estimated Void Ratio with Magnitude and Duration of Isotropic Confining Pressure from Resonant Column Test of Specimen K2-13-009

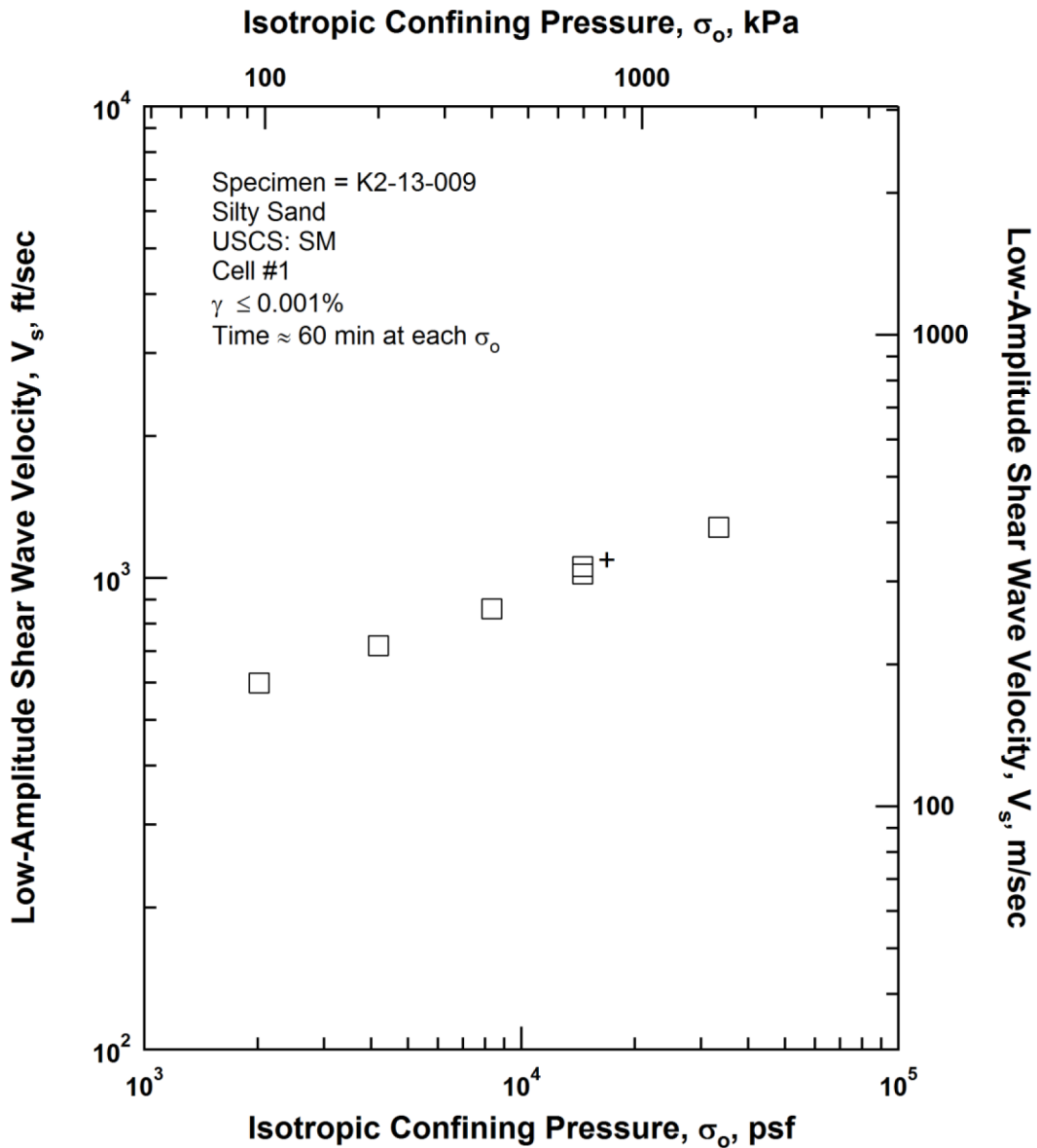
RCTS TEST RESULTS



Note:

+ Retest of 101 psi confining pressure after adjustment of system to prevent contact of the coil and magnets at the 232 psi confining pressure.

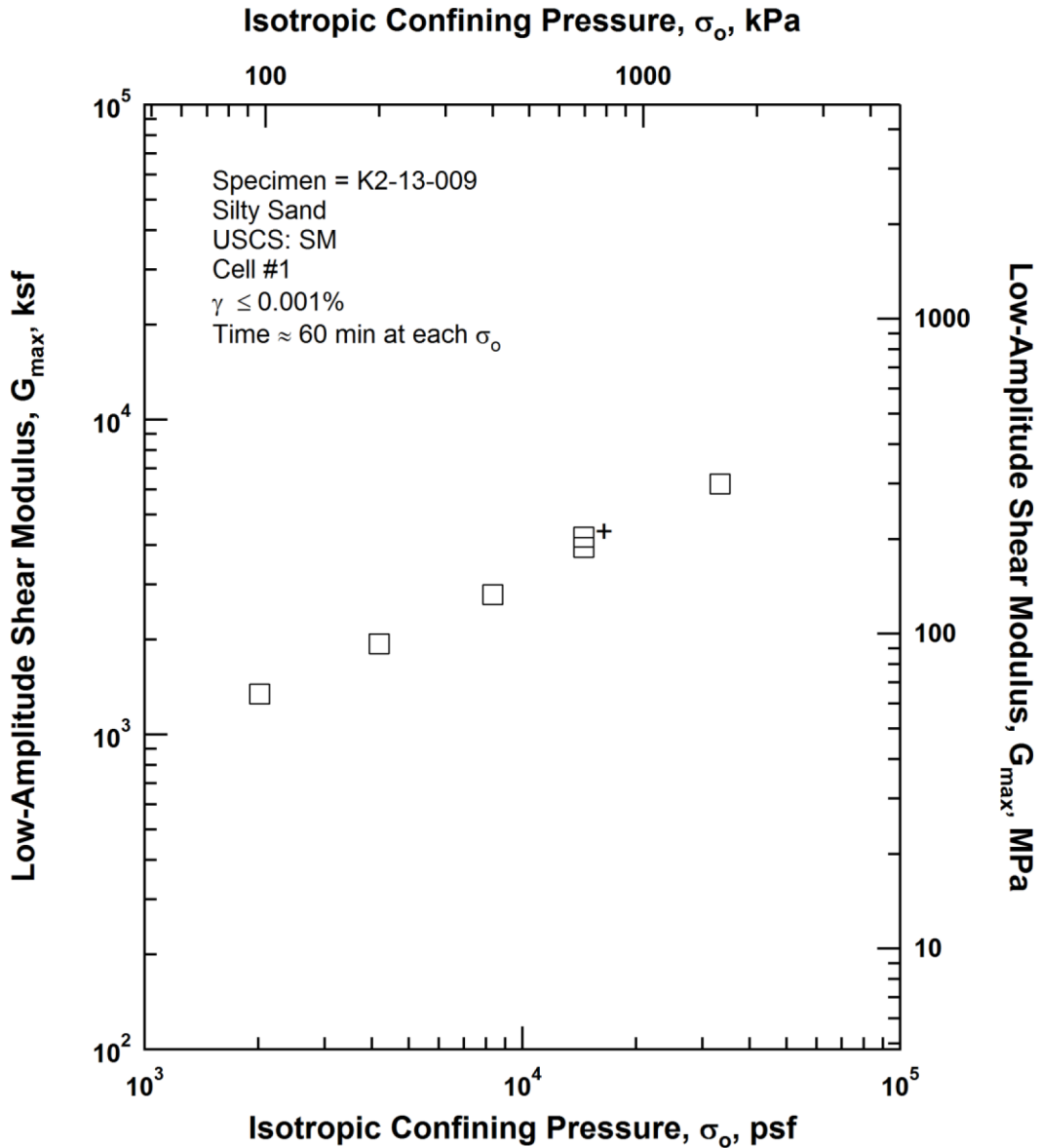
Figure J.4 Variation in Estimated Total Unit Weight with Magnitude and Duration of Isotropic Confining Pressure from Resonant Column Tests of Specimen K2-13-009



Note:

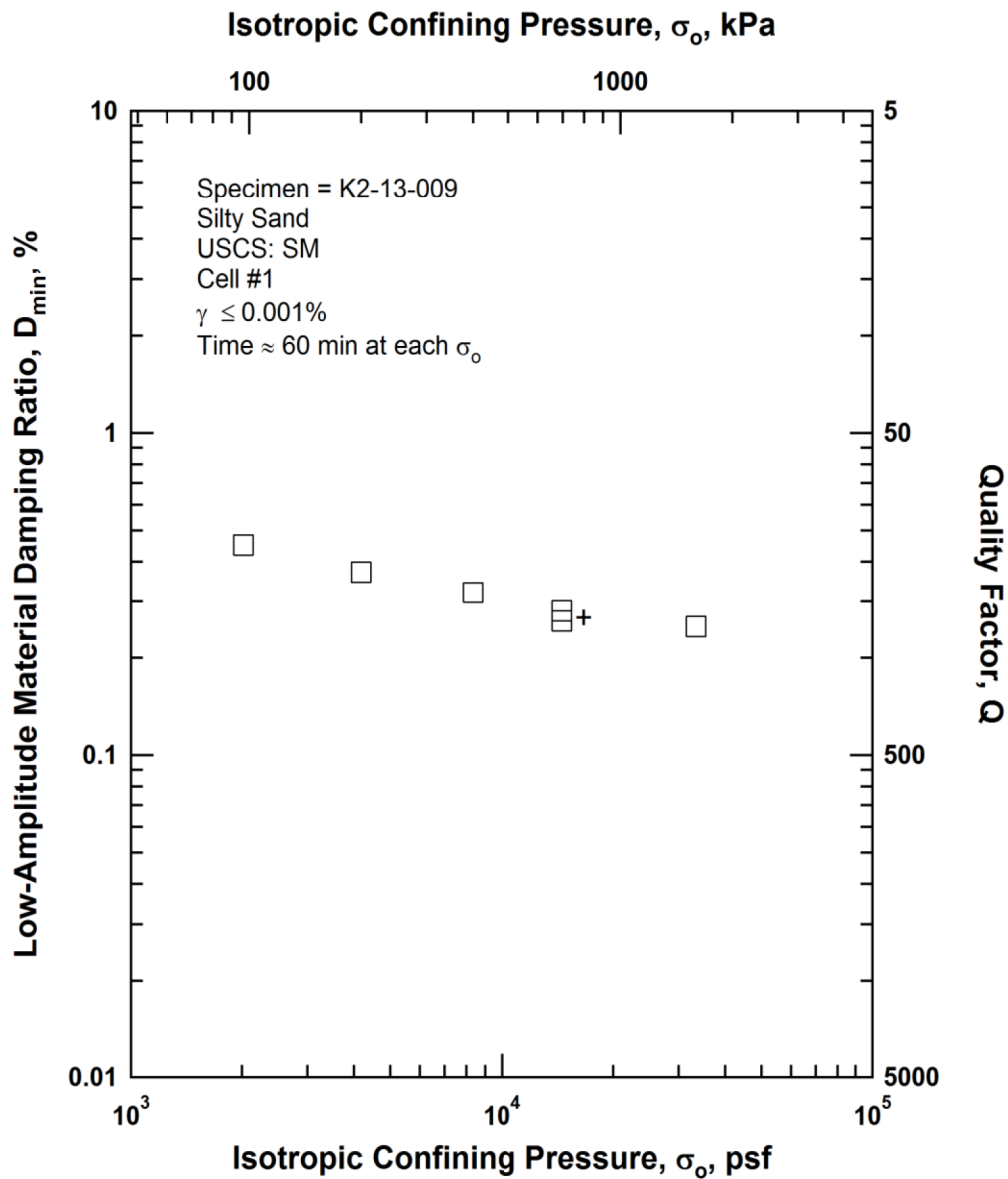
+ Retest of 101 psi confining pressure after adjustment of system to prevent contact of the coil and magnets at the 232 psi confining pressure.

Figure J.5 Variation in Low-Amplitude Shear Wave Velocity with Isotropic Confining Pressure from Resonant Column Tests of Specimen K2-13-009



Note:
+ Retest of 101 psi confining pressure after adjustment of system to prevent contact of the coil and magnets at the 232 psi confining pressure.

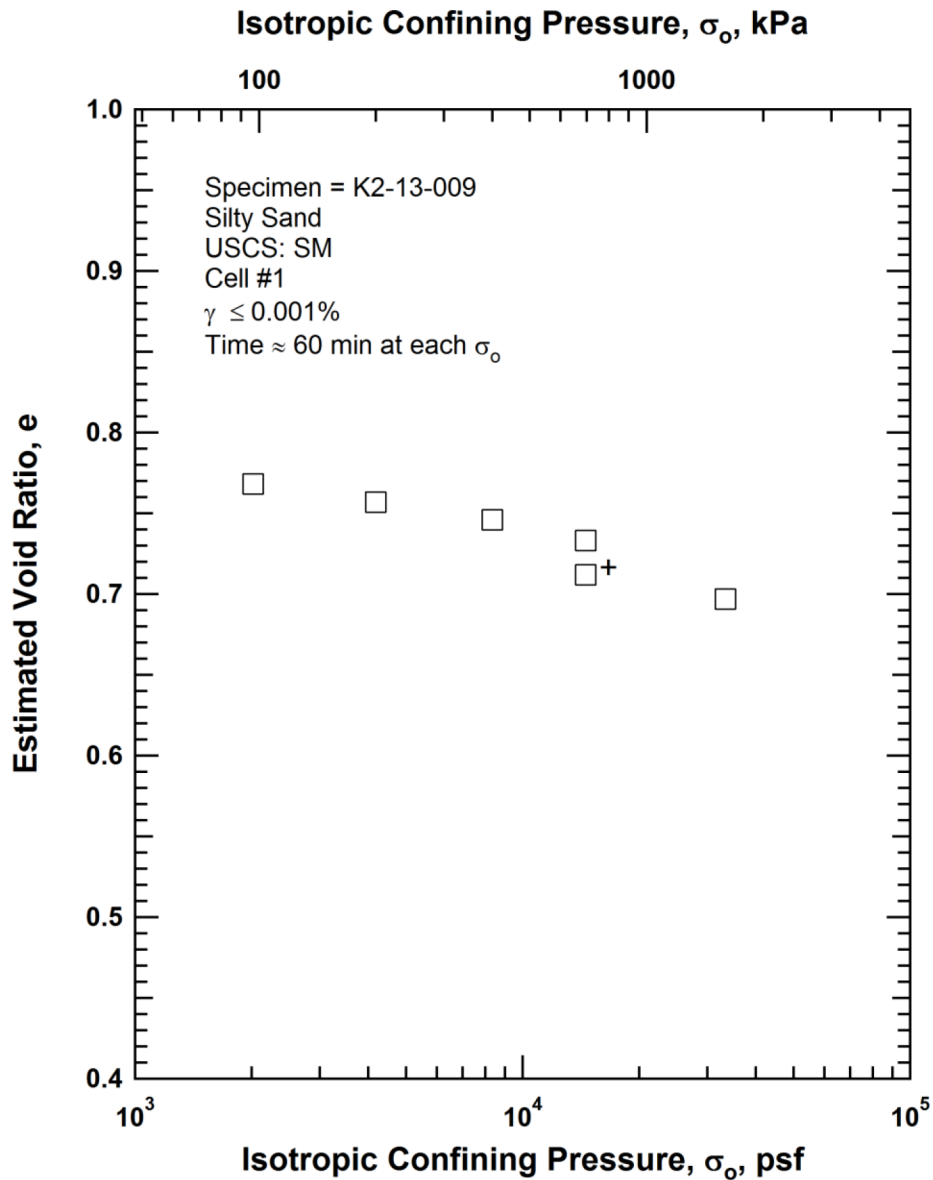
Figure J.6 Variation in Low-Amplitude Shear Modulus with Isotropic Confining Pressure from Resonant Column Test of Specimen K2-13-009



Note:
 + Retest of 101 psi confining pressure after adjustment of system to prevent contact of the coil and magnets at the 232 psi confining pressure.

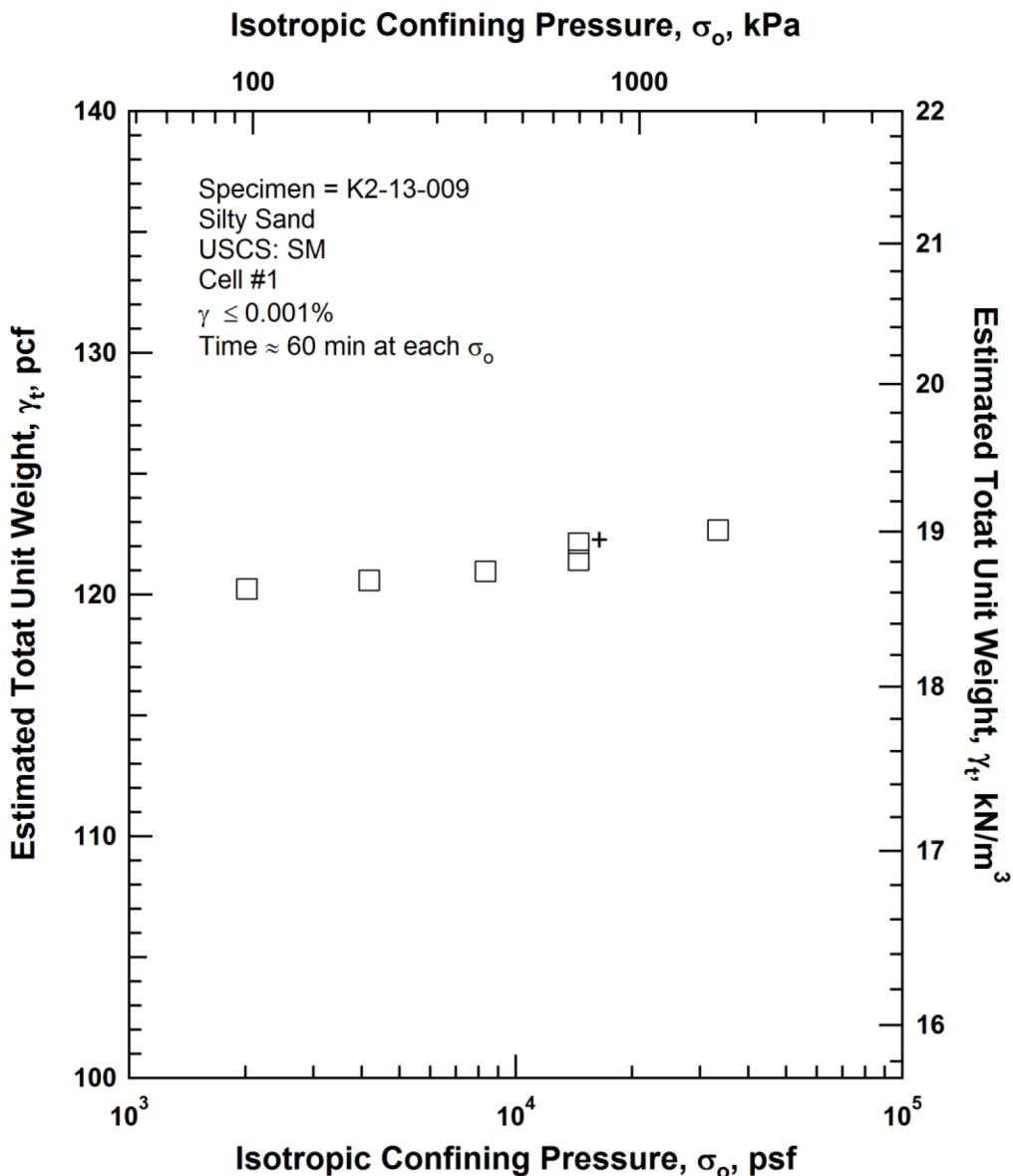
Figure J.7 Variation in Low-Amplitude Material Damping Ratio with Isotropic Confining Pressure from Resonant Column Tests of Specimen K2-13-009

RCTS TEST RESULTS



Note:
 + Retest of 101 psi confining pressure after adjustment of system to prevent contact of the coil and magnets at the 232 psi confining pressure.

Figure J.8 Variation in Estimated Void Ratio with Isotropic Confining Pressure from Resonant Column Tests of Specimen K2-13-009



Note:
+ Retest of 101 psi confining pressure after adjustment of system to prevent contact of the coil and magnets at the 232 psi confining pressure.

Figure J.9 Variation in Estimated Total Unit Weight with Isotropic Confining Pressure from Resonant Column Tests of Specimen K2-13-009

RCTS TEST RESULTS

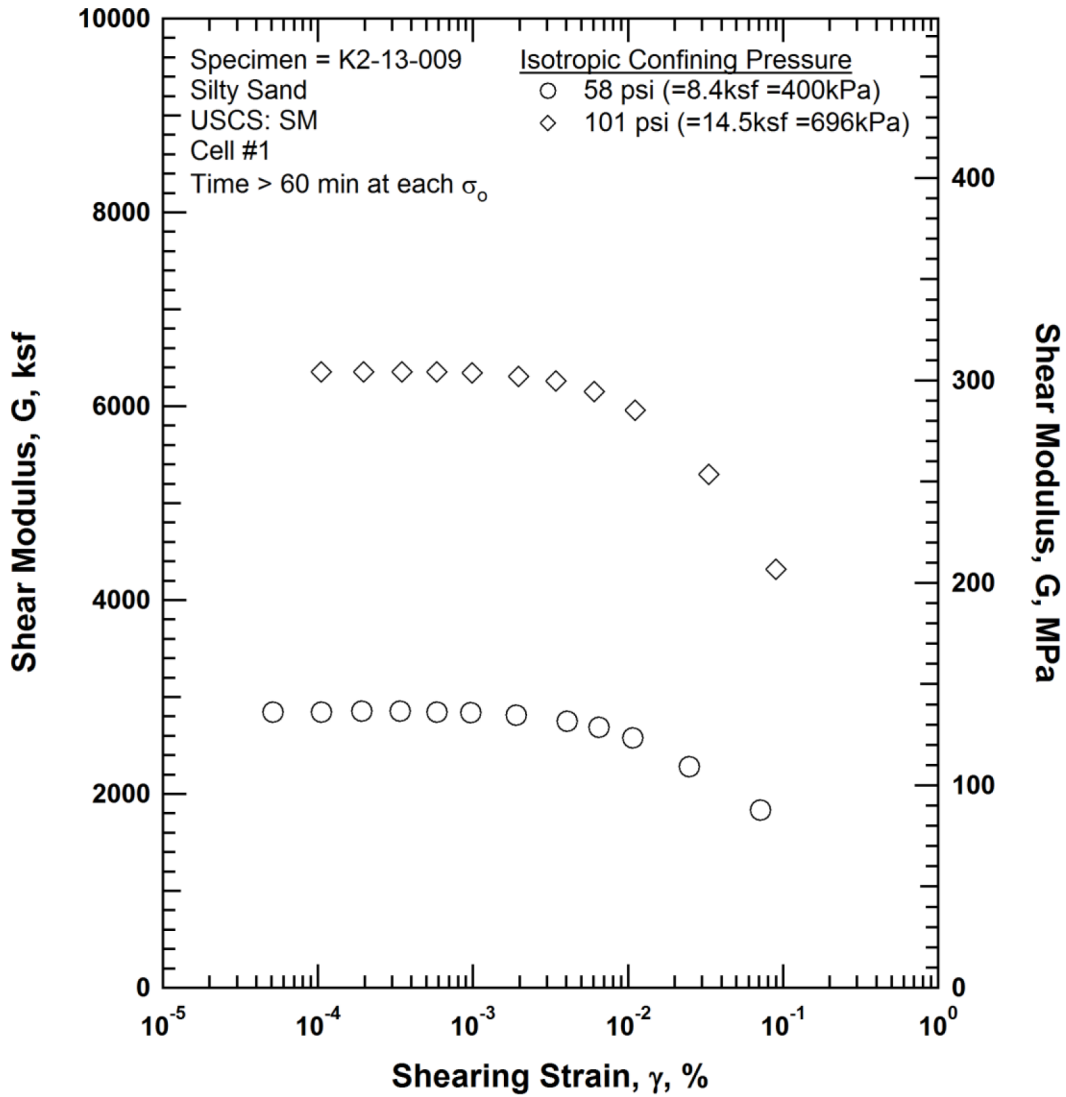


Figure J.10 Comparison of the Variation in Shear Modulus with Shearing Strain and Isotropic Confining Pressure from the Resonant Column Tests of Specimen K2-13-009

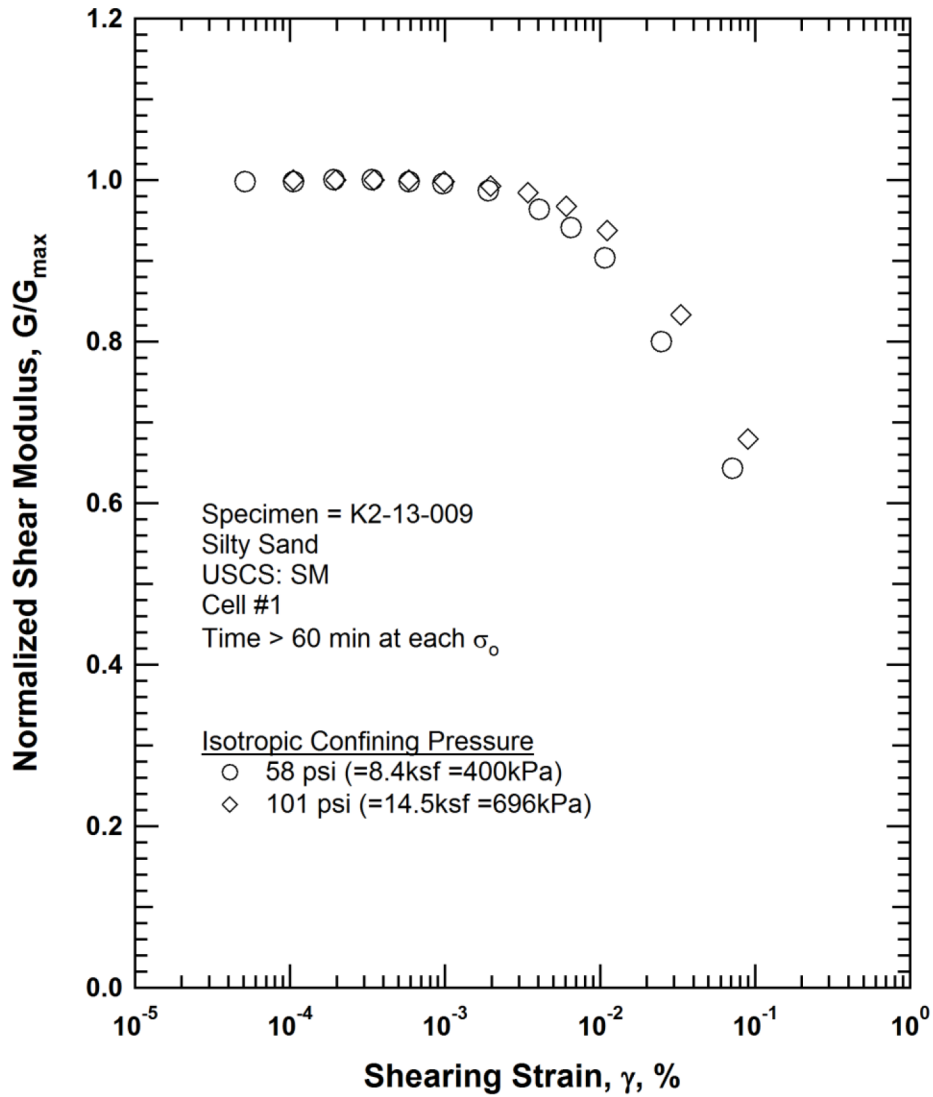


Figure J.11 Comparison of the Variation in Normalized Shear Modulus with Shearing Strain and Isotropic Confining Pressure from the Resonant Column Tests of Specimen K2-13-009

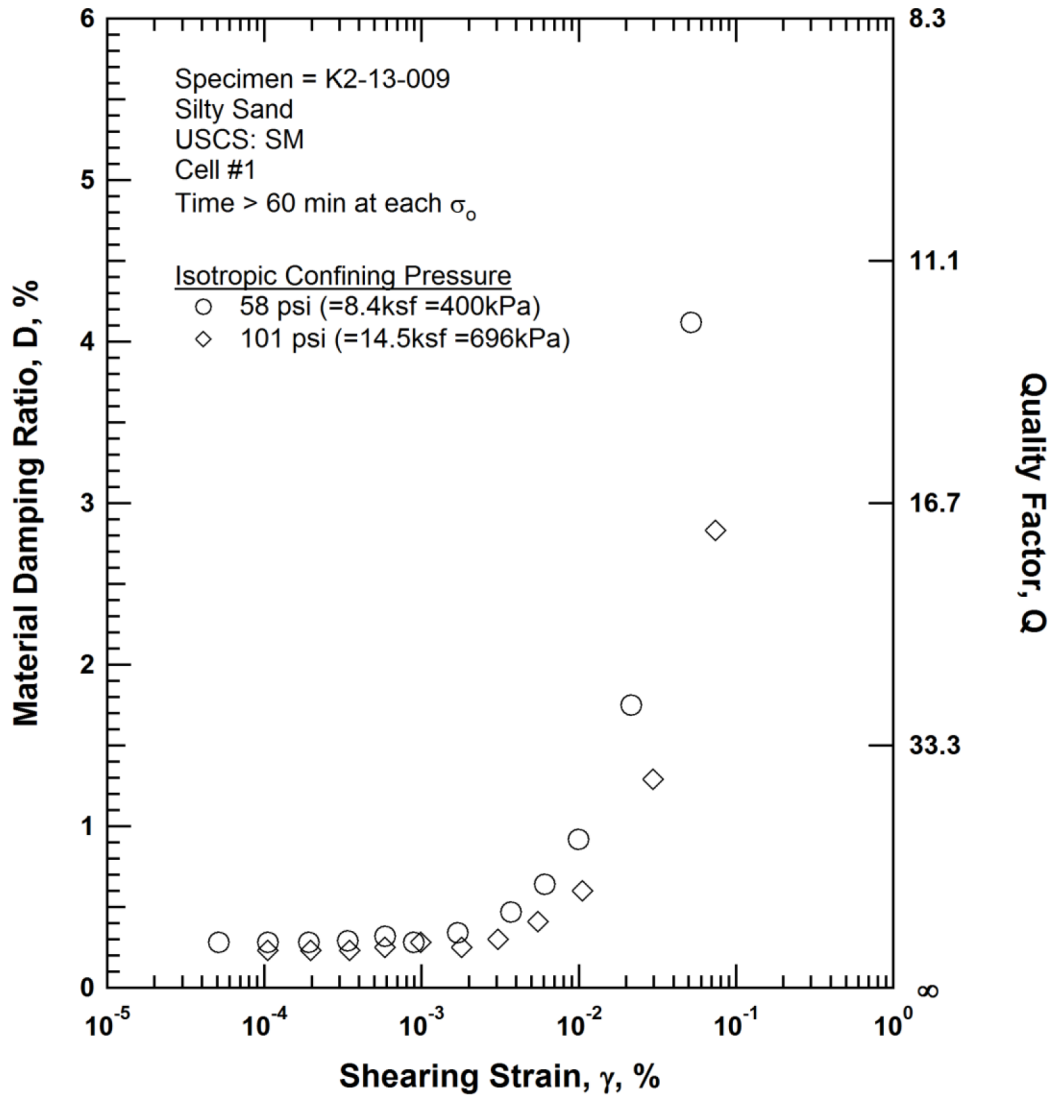


Figure J.12 Comparison of the Variation in Material Damping Ratio with Shearing Strain and Isotropic Confining Pressure from the Resonant Column Tests of Specimen K2-13-009

RCTS TEST RESULTS

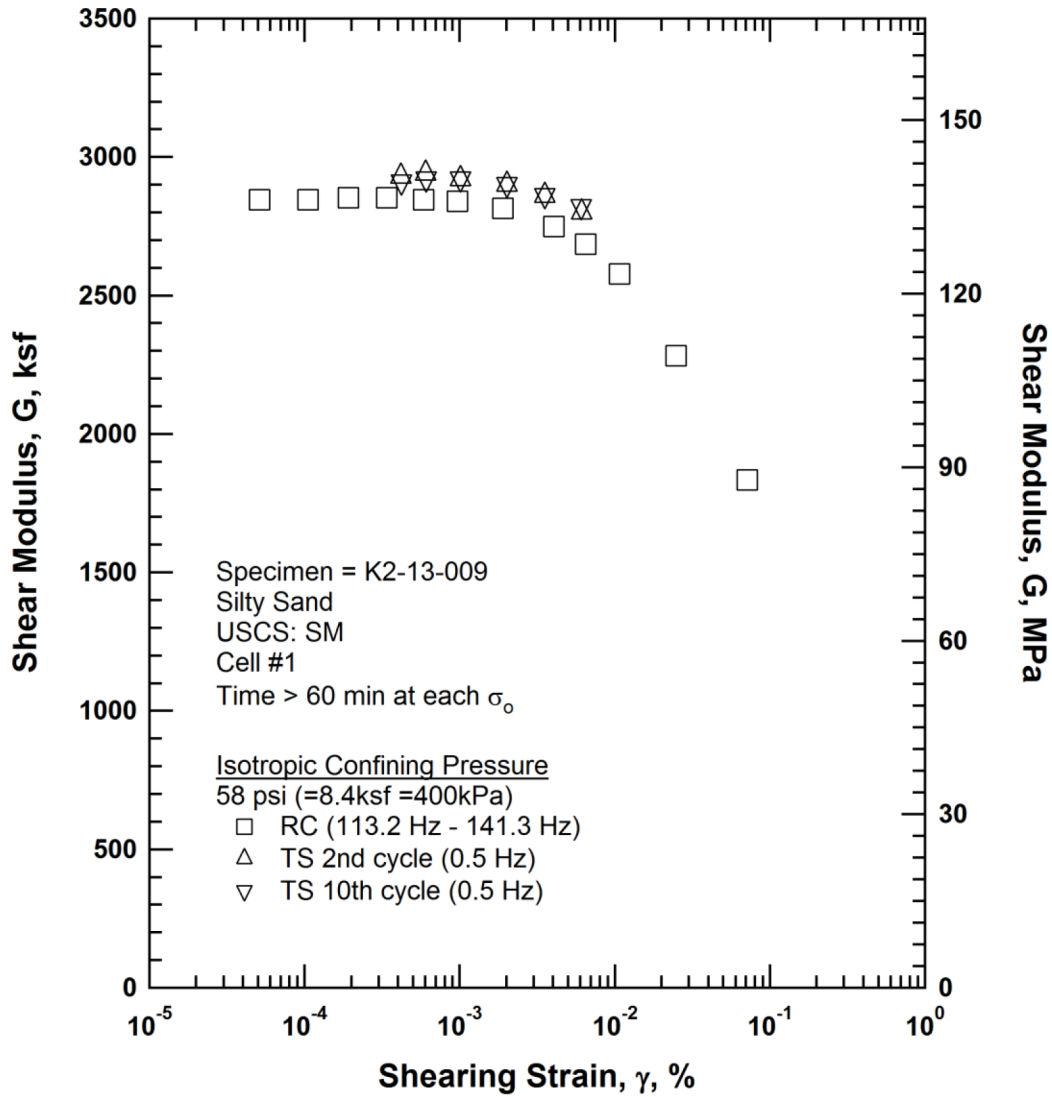


Figure J.13 Comparison of the Variation in Shear Modulus with Shearing Strain at an Isotropic Confining Pressure of 58 psi (=8.4ksf=400kPa) from the Combined RCTS Tests of Specimen K2-13-009

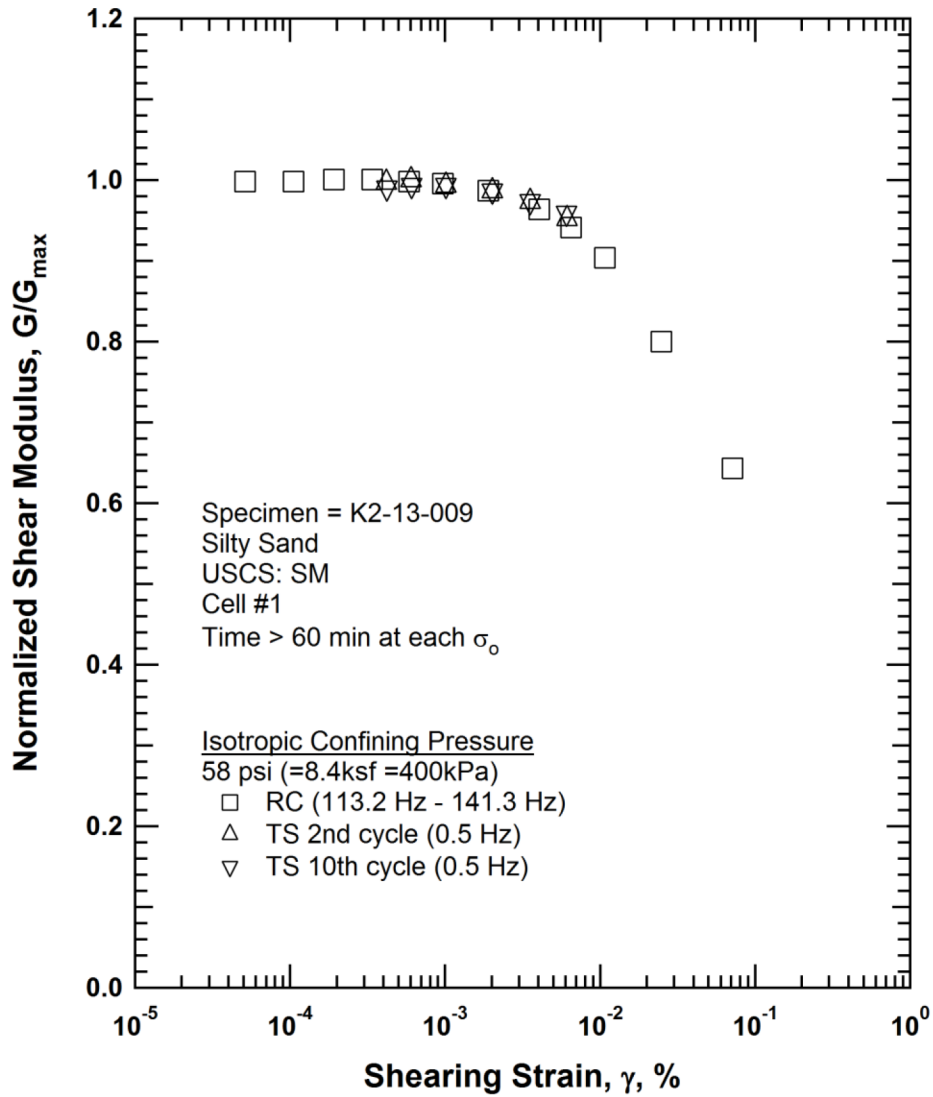
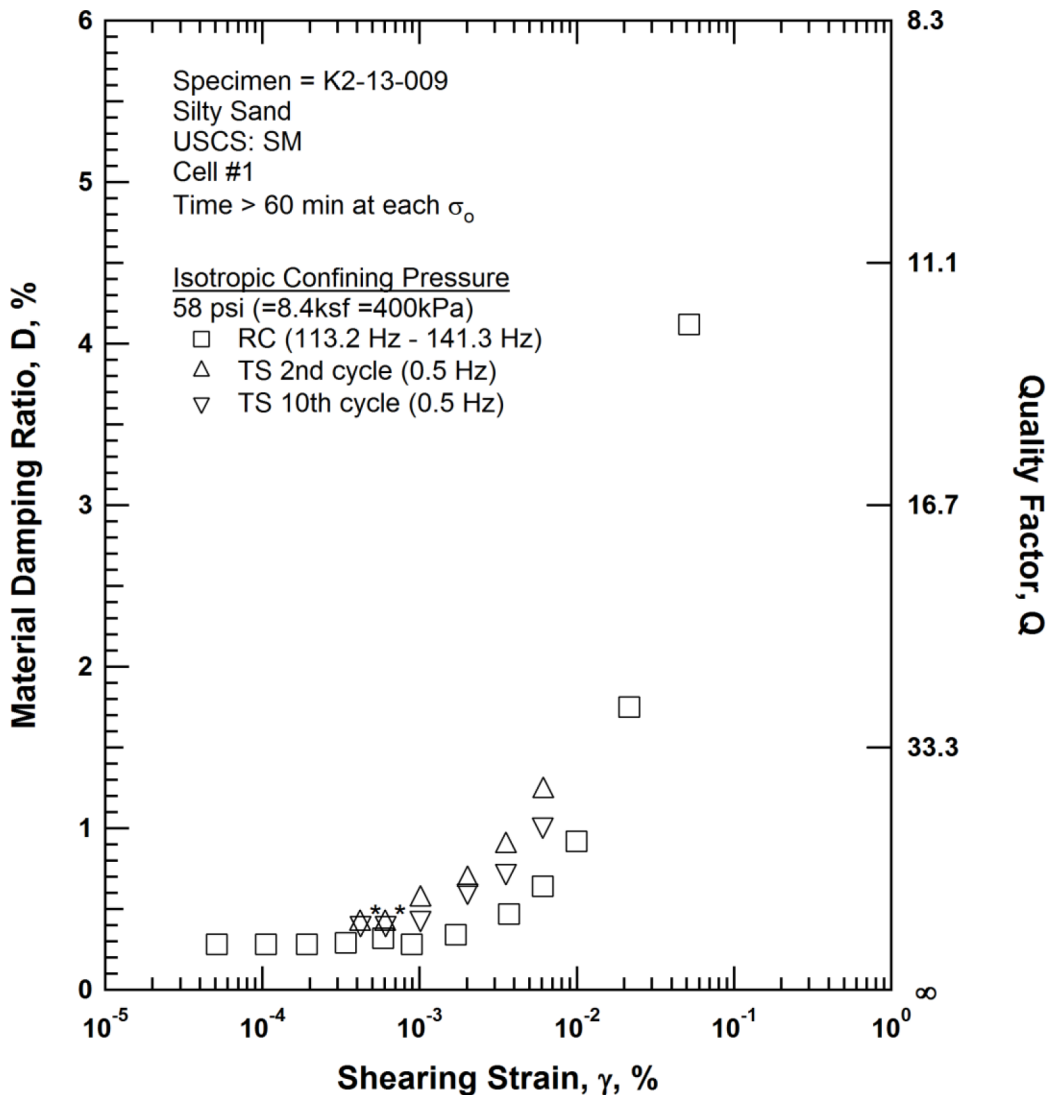


Figure J.14 Comparison of the Variation in Normalized Shear Modulus with Shearing Strain at an Isotropic Confining Pressure of 58 psi (=8.4ksf =400kPa) from the Combined RCTS Tests of Specimen K2-13-009



Note:
* Average result of first ten cycles.

Figure J.15 Comparison of the Variation in Material Damping Ratio with Shearing Strain at an Isotropic Confining Pressure of 58 psi (=8.4ksf =400kPa) from the Combined RCTS Tests of Specimen K2-13-009

RCTS TEST RESULTS

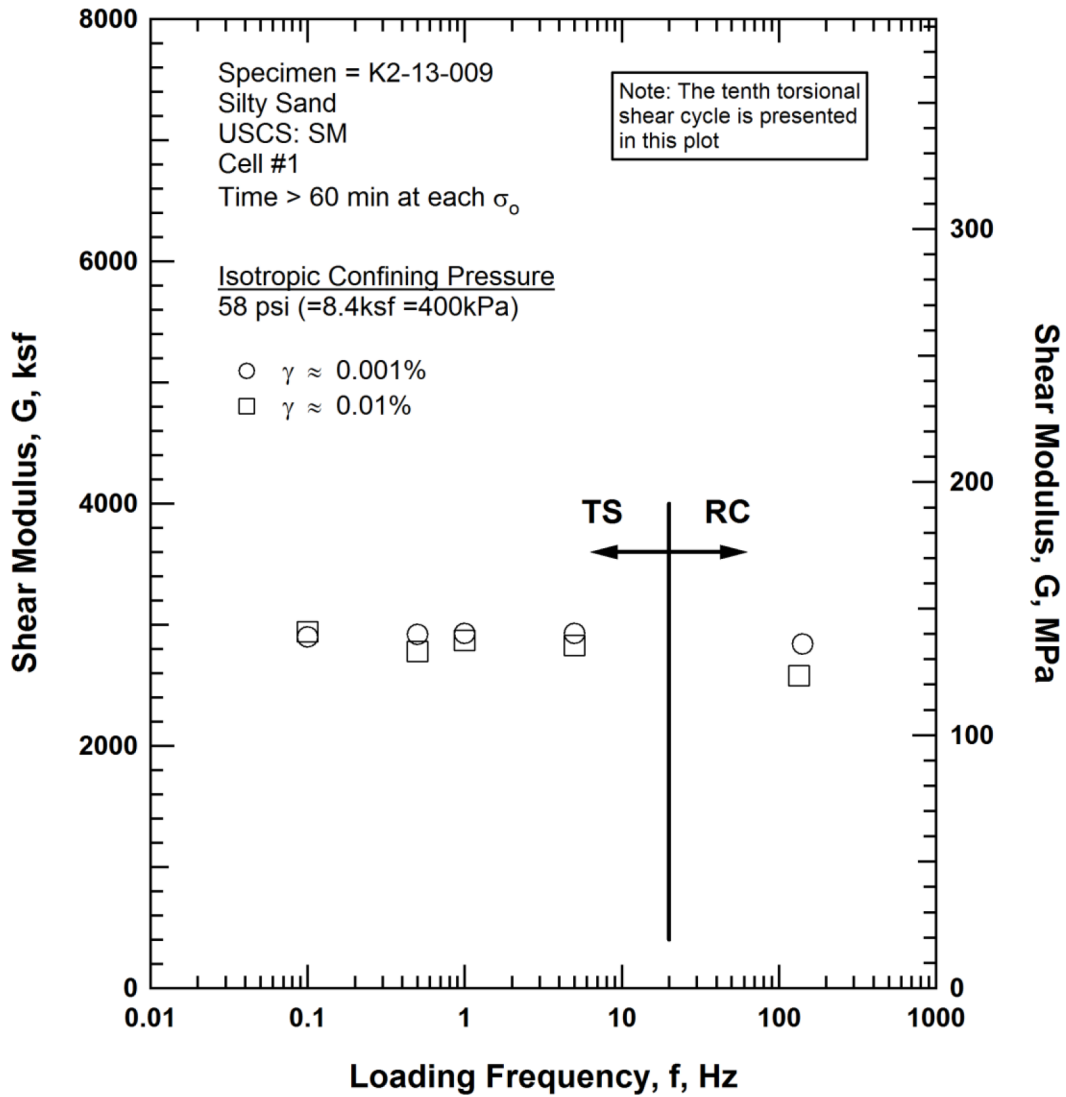


Figure J.16 Comparison of the Variation in Shear Modulus with Loading Frequency at an Isotropic Confining Pressure of 58 psi (=8.4ksf =400kPa) from the Combined RCTS Tests of Specimen K2-13-009

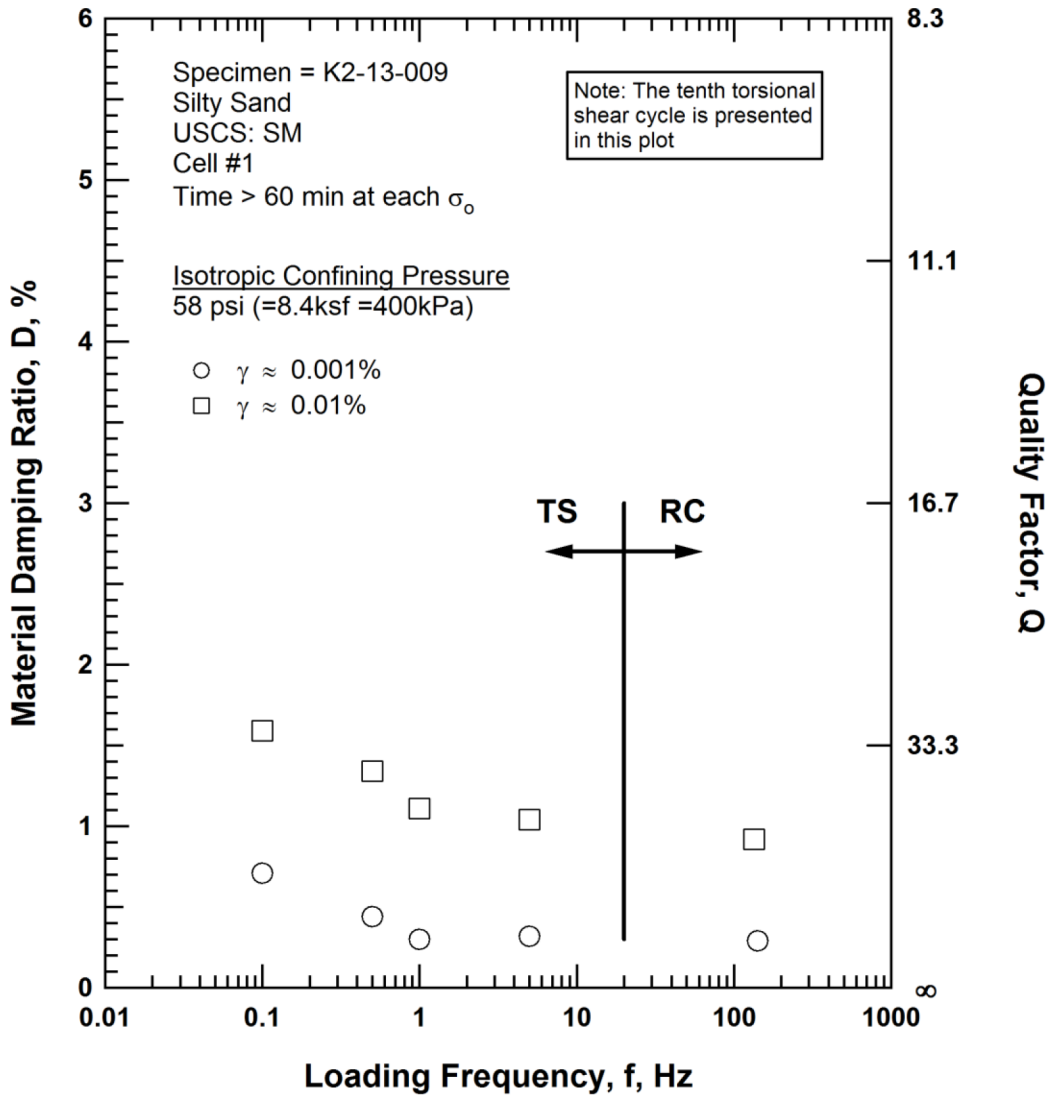


Figure J.17 Comparison of the Variation in Material Damping Ratio with Loading Frequency at an Isotropic Confining Pressure of 58 psi (=8.4ksf =400kPa) from the Combined RCTS Tests of Specimen K2-13-009

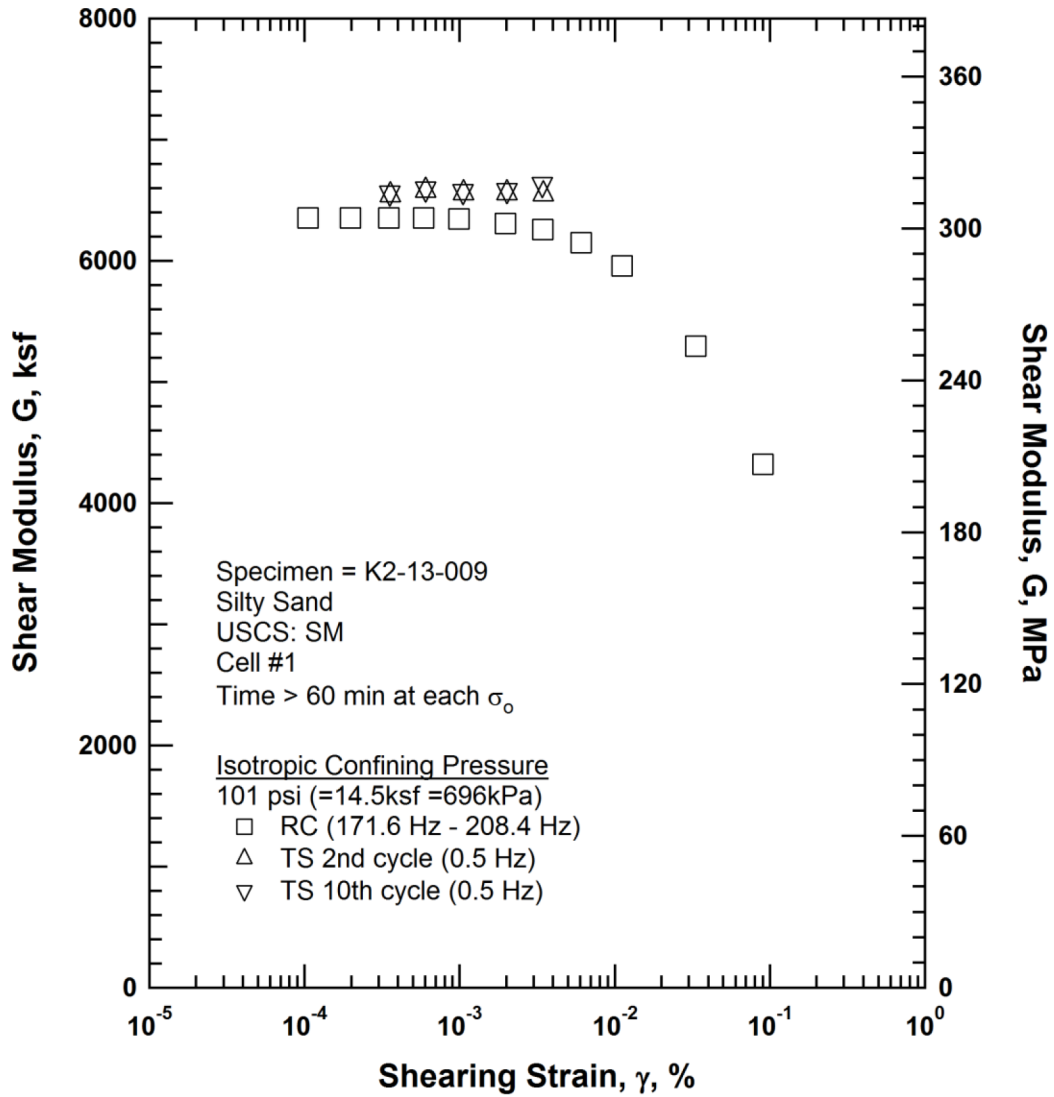


Figure J.18 Comparison of the Variation in Shear Modulus with Shearing Strain at an Isotropic Confining Pressure of 232 psi (=33.4ksf=1600kPa) from the Combined RCTS Tests of Specimen K2-13-009

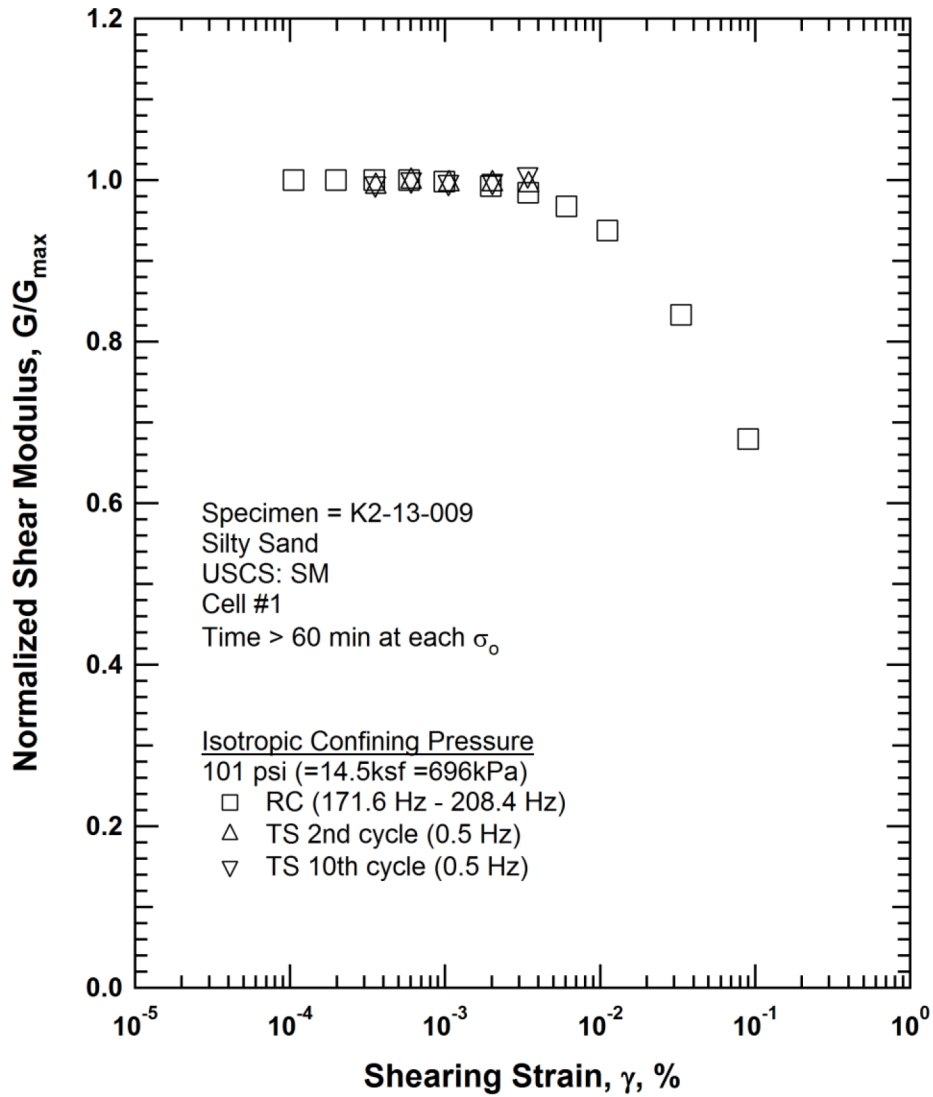


Figure J.19 Comparison of the Variation in Normalized Shear Modulus with Shearing Strain at an Isotropic Confining Pressure of 232 psi (=33.4ksf =1600kPa) from the Combined RCTS Tests of Specimen K2-13-009

RCTS TEST RESULTS

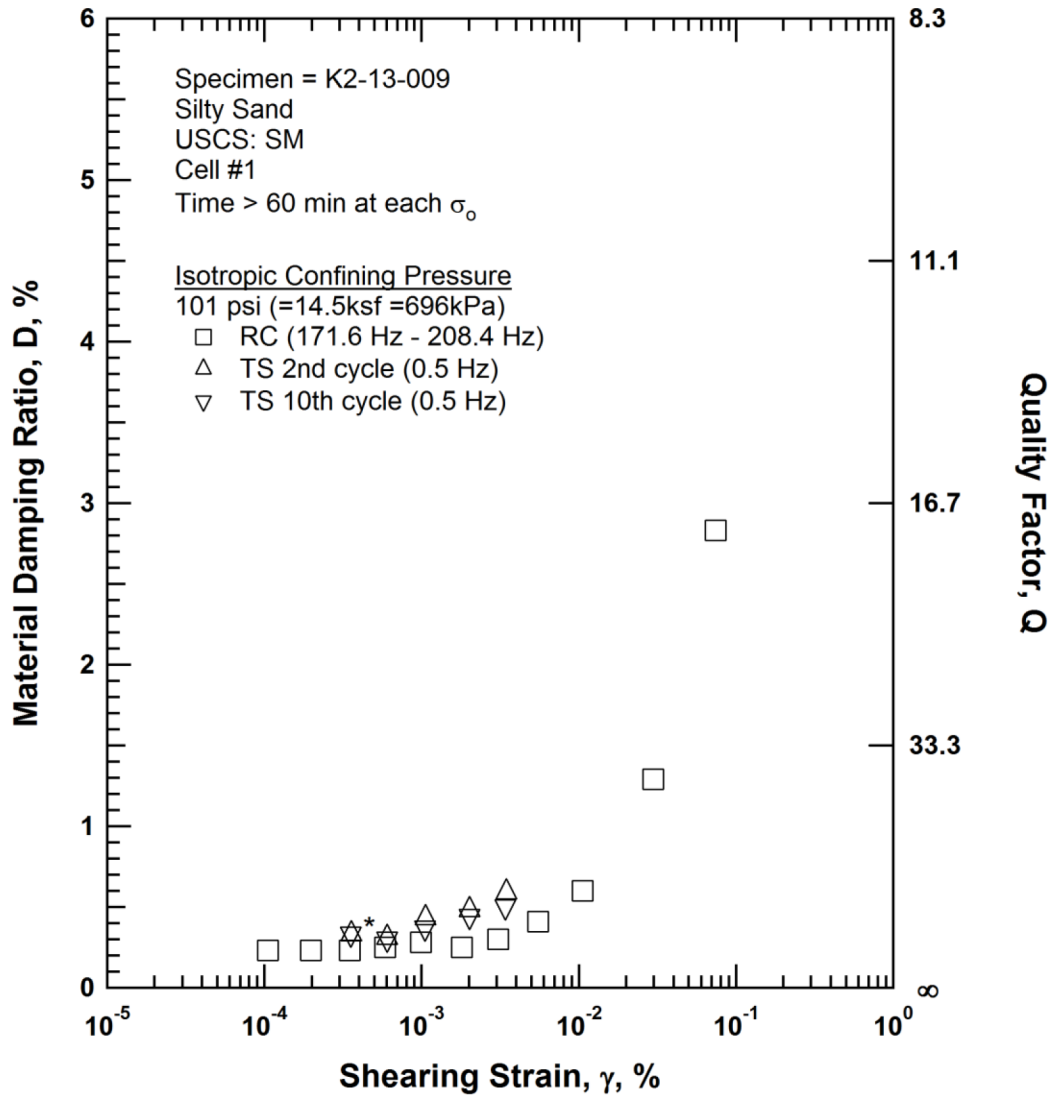


Figure J.20 Comparison of the Variation in Material Damping Ratio with Shearing Strain at an Isotropic Confining Pressure of 232 psi (=33.4ksf =1600kPa) from the Combined RCTS Tests of Specimen K2-13-009

RCTS TEST RESULTS

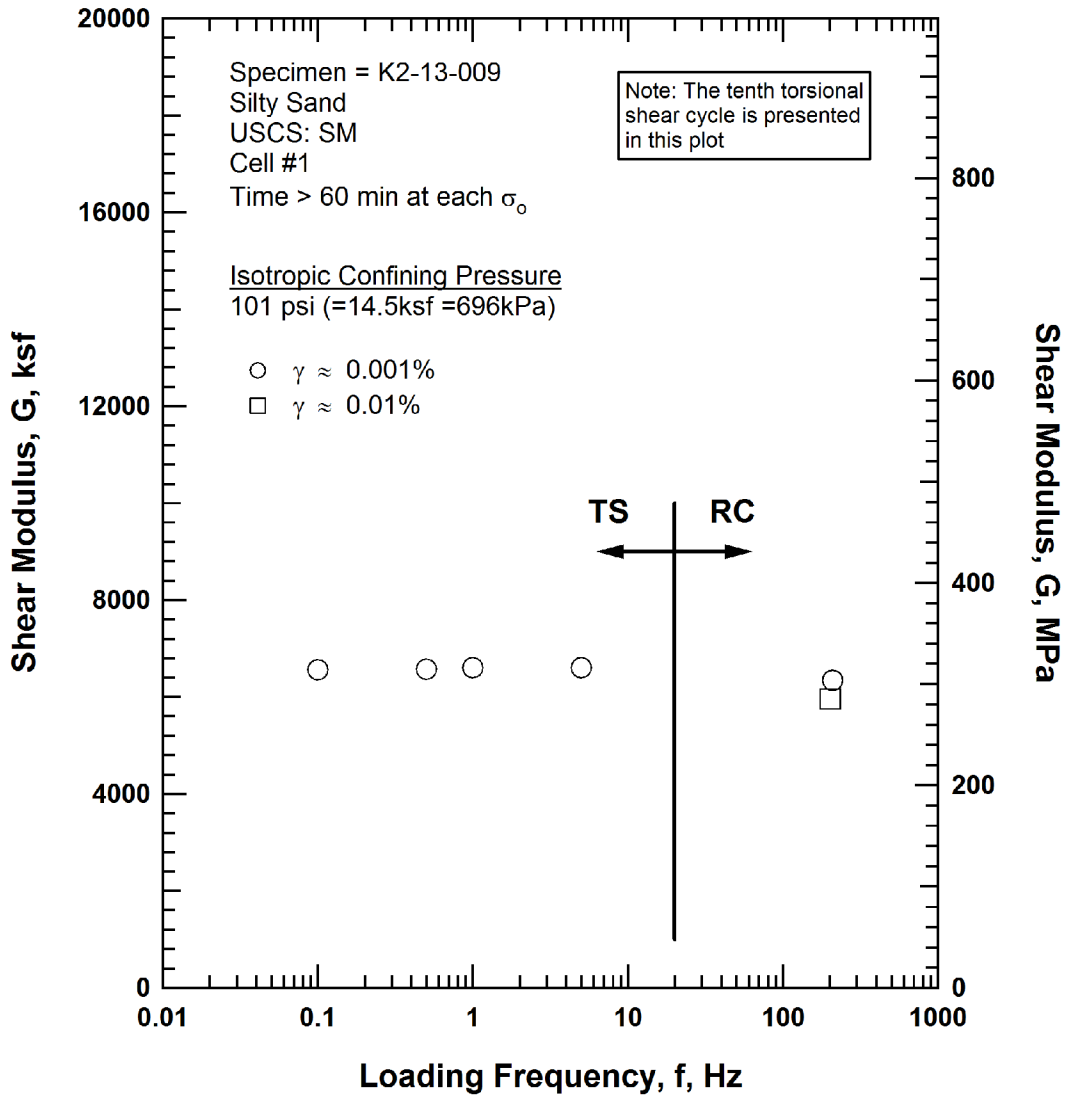


Figure J.21 Comparison of the Variation in Shear Modulus with Loading Frequency at an Isotropic Confining Pressure of 232 psi (=33.4ksf =1600kPa) from the Combined RCTS Tests of Specimen K2-13-009

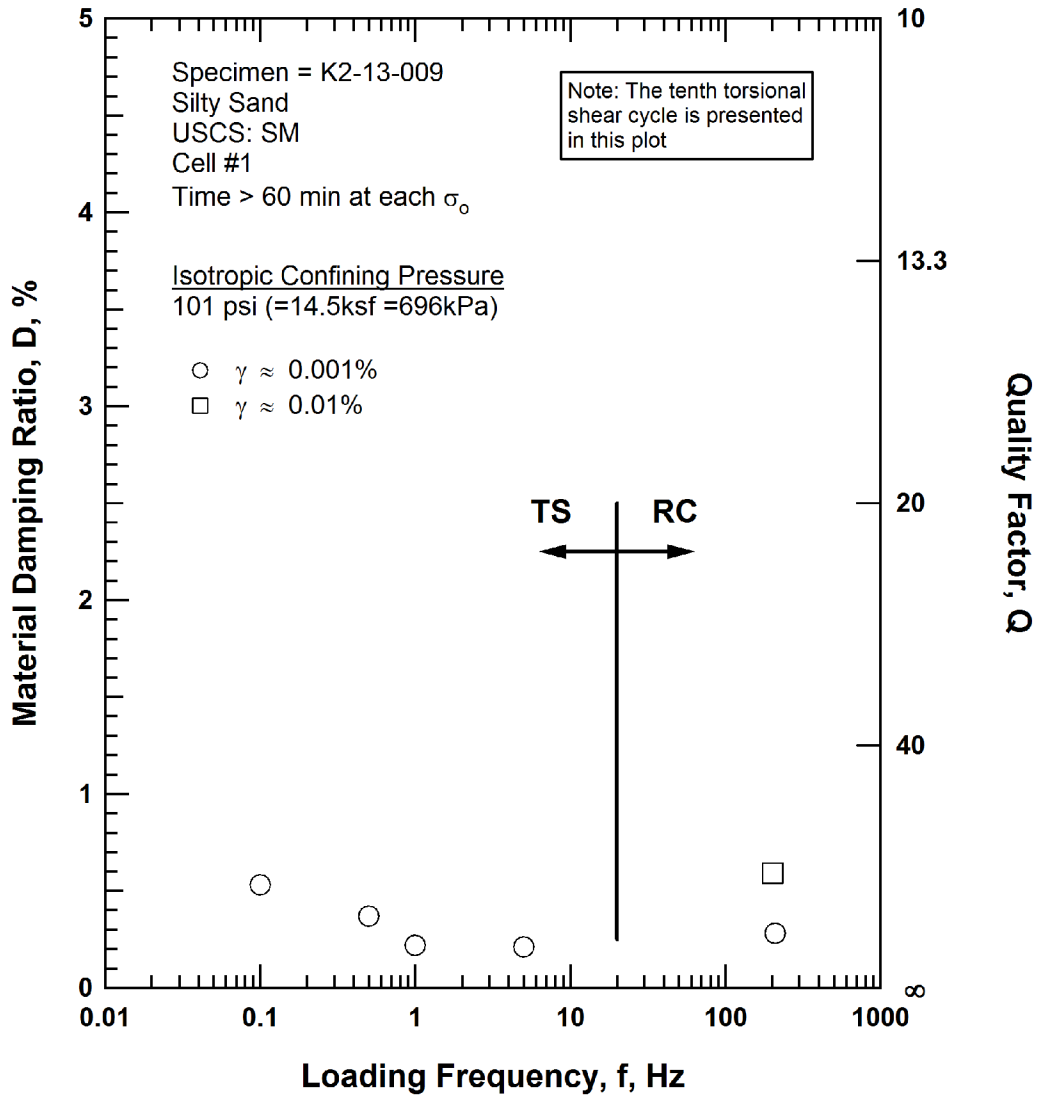


Figure J.22 Comparison of the Variation in Material Damping Ratio with Loading Frequency at an Isotropic Confining Pressure of 232 psi (=33.4ksf =1600kPa) from the Combined RCTS Tests of Specimen K2-13-009

RCTS TEST RESULTS

Table J.1 Variation in Low-Amplitude Shear Wave Velocity, Low-Amplitude Shear Modulus, Low-Amplitude Material Damping Ratio, Estimated Void Ratio, and Estimated Total Unit Weight with Isotropic Confining Pressure from RC Tests of Specimen K2-13-009

Isotropic Confining Pressure, σ_o			Low-Amplitude Shear Modulus, G_{max}		Low-Amplitude Shear Wave Velocity, V_s	Low-Amplitude Material Damping Ratio, D_{min}	Estimated Void Ratio, e	Estimated Total Unit Weight, γ_t
(psi)	(psf)	(kPa)	(ksf)	(MPa)	(fps)	(%)	(Unitless)	(pcf)
14	2016	97	1340	64	600	0.45	0.768	120.2
29	4176	200	1940	93	720	0.37	0.757	120.6
58	8352	400	2780	133	860	0.32	0.746	121.0
101	14544	696	3930	188	1020	0.26	0.733	121.4
101 ⁽¹⁾	14544	696	4230	203	1060	0.28	0.712	122.1
232	33408	1600	6250	299	1280	0.25	0.697	122.7

⁽¹⁾ Retest of 101 psi Confining Pressure after Adjustment of System to Prevent Contact of the Coil and Magnets at the 232 psi Confining Pressure

Table J.2 Variation in Shear Modulus, Normalized Shear Modulus and Material Damping Ratio with Shearing Strain from TS Tests of Specimen K2-13-009; Isotropic Confining Pressure $\sigma_o = 58$ psi (=8.4 ksf = 400 kPa)

Second Cycle				Tenth Cycle			
Peak Shearing Strain, γ , %	Shear Modulus, G , ksf	Normalized Shear Modulus, G/G_{max}	Material Damping Ratio, D , %	Peak Shearing Strain, γ , %	Shear Modulus, G , ksf	Normalized Shear Modulus, G/G_{max}	Material Damping Ratio, D , %
4.17E-04 ⁽¹⁾	2930	1.00	0.41	4.20E-04 ⁽¹⁾	2910	0.99	0.41
6.04E-04 ⁽¹⁾	2940	1.00	0.41	6.07E-04 ⁽¹⁾	2920	0.99	0.41
1.01E-03	2920	0.99	0.56	1.01E-03	2920	0.99	0.44
2.01E-03	2900	0.99	0.68	2.01E-03	2900	0.99	0.61
3.53E-03	2860	0.97	0.89	3.53E-03	2860	0.97	0.73
6.11E-03	2800	0.95	1.23	6.08E-03	2820	0.96	1.02

⁽¹⁾ Damping Results were Averaged for the First Ten Cycles at this Shearing Strain

RCTS TEST RESULTS

Table J.3 Variation in Shear Modulus, Normalized Shear Modulus, and Material Damping with Shearing Strain from RC Tests of Specimen K2-13-009; Isotropic Confining Pressure $\sigma_o = 58$ psi (=8.4 ksf = 400 kPa)

Peak Shearing Strain, γ , %	Shear Modulus, G, ksf	Normalized Shear Modulus, G/G_{max}	Average Shearing Strain, % ⁽¹⁾	Material Damping Ratio, D, % ⁽²⁾
5.11E-05	2850	1.00	5.11E-05	0.28
1.05E-04	2850	1.00	1.05E-04	0.28
1.92E-04	2850	1.00	1.92E-04	0.28
3.39E-04	2850	1.00	3.39E-04	0.29
5.87E-04	2850	1.00	5.87E-04	0.32
9.69E-04	2840	1.00	8.90E-04	0.28
1.90E-03	2810	0.99	1.70E-03	0.34
4.04E-03	2750	0.96	3.69E-03	0.47
6.50E-03	2690	0.94	6.09E-03	0.64
1.07E-02	2580	0.90	9.99E-03	0.92
2.48E-02	2280	0.80	2.15E-02	1.75
7.14E-02	1830	0.64	5.18E-02	4.12

⁽¹⁾ Average Shearing Strain from the First Three Cycle of the Free Vibration Decay Curve or from Half Power Damping for shearing strains less than 0.001%

⁽²⁾ Average Damping Ratio from the First Three Cycle of the Free Vibration Decay Curve or from Half Power Damping for shearing strains less than 0.001%

Table J.4 Variation in Shear Modulus and Material Damping with Frequency from RC/TS Tests of Specimen K2-13-009; Isotropic Confining Pressure $\sigma_o = 58$ psi (=8.4 ksf = 400 kPa)

Approximate Shearing Strain, γ , %	Frequency, Hz	Shear Modulus, G, ksf	Material Damping Ratio, D, %
0.001	0.1	2900	0.71
	0.5	2920	0.44
	1.0	2930	0.30
	5.0	2930	0.32
	141.1	2840	0.29
0.01	0.1	2940	1.59
	0.5	2780	1.34
	1.0	2870	1.11
	5.0	2830	1.04
	129.7	3750	6.34

RCTS TEST RESULTS

Table J.5 Variation in Shear Modulus, Normalized Shear Modulus and Material Damping Ratio with Shearing Strain from TS Tests of Specimen K2-13-009; Isotropic Confining Pressure $\sigma_o = 232$ psi (=33.4 ksf = 1600 kPa)

Second Cycle				Tenth Cycle			
Peak Shearing Strain, γ , %	Shear Modulus, G, ksf	Normalized Shear Modulus, G/G_{max}	Material Damping Ratio, D, %	Peak Shearing Strain, γ , %	Shear Modulus, G, ksf	Normalized Shear Modulus, G/G_{max}	Material Damping Ratio, D, %
3.56E-04 ⁽¹⁾	6540	0.99	0.33	3.55E-04 ⁽¹⁾	6560	1.00	0.33
6.02E-04	6580	1.00	0.31	6.02E-04	6590	1.00	0.30
1.06E-03	6560	1.00	0.43	1.05E-03	6570	1.00	0.37
2.02E-03	6560	1.00	0.48	2.01E-03	6580	1.00	0.44
3.47E-03	6550	0.99	0.59	3.42E-03	6630	1.01	0.50

⁽¹⁾ Damping Results were Averaged for the First Ten Cycles at this Shearing Strain

Table J.6 Variation in Shear Modulus, Normalized Shear Modulus, and Material Damping with Shearing Strain from RC Tests of Specimen K2-13-009; Isotropic Confining Pressure $\sigma_o = 232$ psi (=33.4 ksf = 1600 kPa)

Peak Shearing Strain, γ , %	Shear Modulus, G, ksf	Normalized Shear Modulus, G/G_{max}	Average Shearing Strain, % ⁽¹⁾	Material Damping Ratio, D, % ⁽²⁾
1.05E-04	6360	1.00	1.05E-04	0.23
1.98E-04	6360	1.00	1.98E-04	0.23
3.49E-04	6360	1.00	3.49E-04	0.23
5.85E-04	6360	1.00	5.85E-04	0.25
9.89E-04	6350	1.00	9.89E-04	0.28
1.98E-03	6310	0.99	1.80E-03	0.25
3.43E-03	6260	0.98	3.07E-03	0.30
6.07E-03	6150	0.97	5.51E-03	0.41
1.11E-02	5960	0.94	1.05E-02	0.60
3.32E-02	5300	0.83	2.97E-02	1.29
8.99E-02	4320	0.68	7.40E-02	2.83

⁽¹⁾ Average Shearing Strain from the First Three Cycle of the Free Vibration Decay Curve or from Half Power Damping for shearing strains less than 0.001%

⁽²⁾ Average Damping Ratio from the First Three Cycle of the Free Vibration Decay Curve or from Half Power Damping for shearing strains less than 0.001%

RCTS TEST RESULTS

Table J.7 Variation in Shear Modulus and Material Damping with Frequency from RC/TS Tests of Specimen K2-13-009; Isotropic Confining Pressure $\sigma_o = 232$ psi (=33.4 ksf = 1600 kPa)

Approximate Shearing Strain, γ , %	Frequency, Hz	Shear Modulus, G, ksf	Material Damping Ratio, D, %
0.001	0.1	6560	0.53
	0.5	6570	0.37
	1	6600	0.22
	5	6600	0.21
	208.2	6350	0.28
0.011	0.1	n/a	n/a
	0.5	n/a	n/a
	1	n/a	n/a
	5	n/a	n/a
	201.8	5960	0.59

APPENDIX C

**GEOTECHNICS LABORATORY TESTING
RESULTS**



January 21, 2014

Project No. 2013-465-01,02,03

Mr. Onur Tastan, PhD, P.E.
 Project Director
 Paul C. Rizzo & Associates, Inc.
 Penn Center East
 500 Penn Center Blvd., Suite 100
 Pittsburgh, PA 15235

Transmittal
Laboratory Test Results
Turkey Point Nuclear Power Plant Units 6&7
Project Number #13-5054
Report Revision 2

Please find attached the requested laboratory test results as requested in the Executed Agreement for Laboratory Services dated October 29, 2013 for the Turkey Point Nuclear Power Plant located near Homestead, Florida.

The tests were outlined on the Project Verification Form that was transmitted to your firm prior to the testing. The testing was performed in general accordance with the methods listed on the enclosed data sheets. The test results are believed to be representative of the samples that were submitted for testing and are indicative only of the specimens which were evaluated. We have no direct knowledge of the origin of the samples and imply no position with regard to the nature of the test results, i.e. pass/fail and no claims as to the suitability of the material for its intended use.

The test data and all associated project information provided shall be held in strict confidence and disclosed to other parties only with authorization by our Client. The test data submitted herein is considered integral with this report and is not to be reproduced except in whole and only with the authorization of the Client and Geotechnics. The remaining sample materials for this project will be retained for a minimum of 90 days as directed by the Geotechnics' Quality Program.

We are pleased to provide these testing services. Should you have any questions or if we may be of further assistance, please contact our office.

Respectively submitted,
Geotechnics, Inc.

Randy O'Rourke
 President

David R. Backstrom
 Laboratory Director

***We understand that you have a choice in your laboratory services
 and we thank you for choosing Geotechnics.***

544 Braddock Avenue, East Pittsburgh, PA 15112 412-823-7600

SHELBY TUBE UNIT WEIGHT

ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	147.7-149.8
Project No.:	2013-465-001	Shelby Tube No.:	ST-3
Lab ID:	2013-465-001-021	Recovery (ft):	1.7

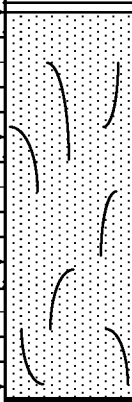
MOISTURE CONTENT

Section Number	1	2	3	4	5
Tare Number	561				
Weight of Tare & Wet Sample (g)	197.20				
Weight of Tare & Dry Sample (g)	171.80				
Weight of Tare (g)	86.47				
Moisture Content (%)	29.77				

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1626.93	1612.13	1583.15
Weight of Tube (g)	442.88	440.48	430.65
Weight of Wet Sample (g)	1184.05	1171.65	1152.50
Length 1 (in)	5.944	5.910	5.803
Length 2 (in)	5.945	5.912	5.813
Length 3 (in)	5.951	5.906	5.826
Top Diameter (in)	2.888	2.881	2.877
Middle Diameter (in)	2.889	2.872	2.875
Bottom Diameter (in)	2.870	2.868	2.878
Sample Volume (cm ³)	635.85	628.06	619.22
Moisture Content (%)	29.77	29.77	29.77
Unit Wet Weight (g/cm ³)	1.86	1.87	1.86
Unit Wet Weight (pcf)	116.20	116.41	116.14
Unit Dry Weight (g/cm ³)	1.44	1.44	1.43
Unit Dry Weight (pcf)	89.5	89.7	89.5

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
147.8				TOP OF MATERIAL	
148.3		4		GREENISH GRAY SILTY SAND	C.U., UNIT WGT GRAIN SIZE, HYDROMETER, LIMITS, SP. GR.
148.8		3			C.U., UNIT WGT.
149.3		2			C.U., UNIT WGT.
149.8		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JCM	Date	11/11/13	Checked By	CLK	Date	12/6/13
-----------	-----	------	----------	------------	-----	------	---------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	147.7-149.8
Project No.	2013-465-001	Sample No.	ST-3
Lab ID #	2013-465-001-021	Recovery (ft)	1.7

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	162.5-165.2
Project No.:	2013-465-001	Shelby Tube No.:	ST-5
Lab ID:	2013-465-001-022	Recovery (ft):	2.4

MOISTURE CONTENT

Section Number	1	2	3	4	5
Tare Number	897				
Weight of Tare & Wet Sample (g)	238.02				
Weight of Tare & Dry Sample (g)	208.58				
Weight of Tare (g)	109.72				
Moisture Content (%)	29.78				

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1633.46	1652.60	1623.36
Weight of Tube (g)	448.59	451.45	441.13
Weight of Wet Sample (g)	1184.87	1201.15	1182.23
Length 1 (in)	5.948	5.997	5.880
Length 2 (in)	5.948	5.991	5.877
Length 3 (in)	5.938	6.000	5.885
Top Diameter (in)	2.881	2.869	2.872
Middle Diameter (in)	2.866	2.861	2.878
Bottom Diameter (in)	2.864	2.860	2.878
Sample Volume (cm ³)	630.35	632.70	626.03
Moisture Content (%)	29.78	29.78	29.78
Unit Wet Weight (g/cm ³)	1.88	1.90	1.89
Unit Wet Weight (pcf)	117.29	118.46	117.84
Unit Dry Weight (g/cm³)	1.45	1.46	1.46
Unit Dry Weight (pcf)	90.4	91.3	90.8

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
163.2					
163.7		4	→		C.U., UNIT WGT.
164.2		3	→	GREENISH GRAY SANDY SILT	C.U., UNIT WGT.
164.7		2	→		C.U., UNIT WGT., GRAIN SIZE, HYDROMETER, LIMITS, SP. GR.
165.2		1	→		W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JCM	Date	10/29/13	Checked By	CLK	Date	12/6/13
-----------	-----	------	----------	------------	-----	------	---------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	162.5-165.2
Project No.	2013-465-001	Sample No.	ST-5
Lab ID #	2013-465-001-022	Recovery (ft)	2.4

Equipment	Equipment ID#	Calibration Due Date
Oven	G256	10/12/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	177.3-180.0
Project No.:	2013-465-001	Shelby Tube No.:	ST-9
Lab ID:	2013-465-001-023	Recovery (ft):	2.6

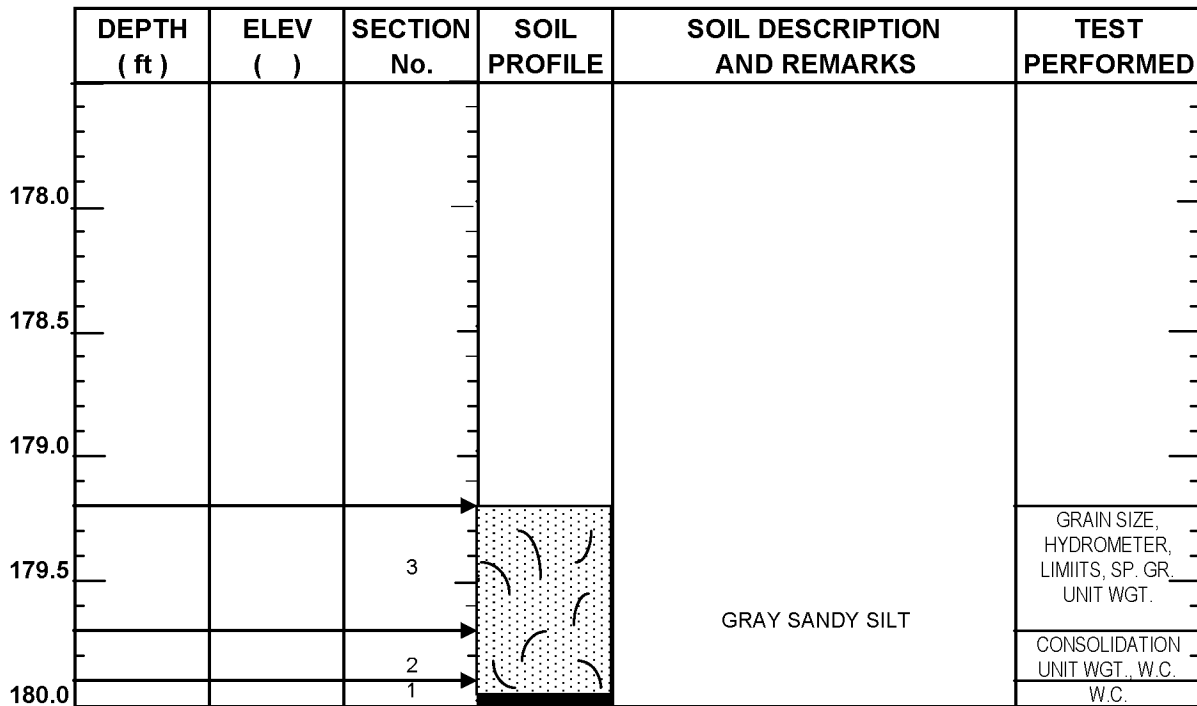
MOISTURE CONTENT

Section Number	1	2	3
Tare Number	2636	2653	
Weight of Tare & Wet Sample (g)	109.14	122.78	
Weight of Tare & Dry Sample (g)	84.23	95.05	
Weight of Tare (g)	6.74	6.64	
Moisture Content (%)	32.15	31.37	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	570.37	1618.94
Weight of Tube (g)	157.49	448.31
Weight of Wet Sample (g)	412.88	1170.63
Length 1 (in)	2.092	5.927
Length 2 (in)	2.109	5.949
Length 3 (in)	2.080	5.937
Top Diameter (in)	2.878	2.888
Middle Diameter (in)	2.869	2.879
Bottom Diameter (in)	2.867	2.887
Sample Volume (cm ³)	222.16	635.91
Moisture Content (%)	31.37	31.37
Unit Wet Weight (g/cm ³)	1.86	1.84
Unit Wet Weight (pcf)	115.97	114.87
Unit Dry Weight (g/cm³)	1.41	1.40
Unit Dry Weight (pcf)	88.3	87.4

SOIL PROFILE AND SAMPLING



*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/7/13	Checked By	CLK	Date	11/25/13
-----------	------------	------	----------------	------------	------------	------	-----------------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	177.3-180.0
Project No.	2013-465-001	Sample No.	ST-9
Lab ID #	2013-465-001-023	Recovery (ft)	2.6

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	184.7-187.4
Project No.:	2013-465-001	Shelby Tube No.:	ST-11
Lab ID:	2013-465-001-024	Recovery (ft):	2.7

MOISTURE CONTENT

Section Number	1	2	3	4	5
Tare Number	1125				1125
Weight of Tare & Wet Sample (g)	262.02				161.41
Weight of Tare & Dry Sample (g)	218.10				141.61
Weight of Tare (g)	83.85				83.82
Moisture Content (%)	32.72				34.26

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1617.76	1624.82	1608.19
Weight of Tube (g)	446.52	446.24	442.73
Weight of Wet Sample (g)	1171.24	1178.58	1165.46
Length 1 (in)	5.954	5.956	5.928
Length 2 (in)	5.957	5.961	5.936
Length 3 (in)	5.958	5.953	5.939
Top Diameter (in)	2.863	2.879	2.863
Middle Diameter (in)	2.870	2.866	2.869
Bottom Diameter (in)	2.869	2.863	2.874
Sample Volume (cm ³)	630.27	631.18	628.53
Moisture Content (%)	32.72	32.72	34.26
Unit Wet Weight (g/cm ³)	1.86	1.87	1.85
Unit Wet Weight (pcf)	115.96	116.52	115.71
Unit Dry Weight (g/cm³)	1.40	1.41	1.38
Unit Dry Weight (pcf)	87.4	87.8	86.2

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
185.4					
185.9		5	→		W.C.
186.4		4	→		C.U., UNIT WGT.
186.9		3	→	GREENISH GRAY SANDY SILT	C.U., UNIT WGT., GRAIN SIZE, HYDROMETER, LIMITS, SP. GR.
187.4		2	→		C.U., UNIT WGT.
187.4		1	→		W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JM	Date	11/1/13	Checked By	CLK	Date	12/3/13
-----------	----	------	---------	------------	-----	------	---------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	184.7-187.4
Project No.	2013-465-001	Sample No.	ST-11
Lab ID #	2013-465-001-024	Recovery (ft)	2.7

Equipment	Equipment ID#	Calibration Due Date
Oven	G256	10/12/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Balance	G1395	6/4/14

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	192.1-194.8
Project No.:	2013-465-001	Shelby Tube No.:	ST-13
Lab ID:	2013-465-001-025	Recovery (ft):	2.7

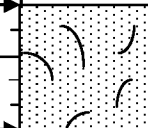

MOISTURE CONTENT

Section Number	1	2
Tare Number	2695	
Weight of Tare & Wet Sample (g)	207.09	
Weight of Tare & Dry Sample (g)	160.95	
Weight of Tare (g)	6.67	
Moisture Content (%)	29.91	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1861.30
Weight of Tube (g)	518.92
Weight of Wet Sample (g)	1342.38
Length 1 (in)	6.732
Length 2 (in)	6.725
Length 3 (in)	6.726
Top Diameter (in)	2.881
Middle Diameter (in)	2.882
Bottom Diameter (in)	2.886
Sample Volume (cm ³)	719.69
Moisture Content (%)	29.91
Unit Wet Weight (g/cm ³)	1.87
Unit Wet Weight (pcf)	116.39
Unit Dry Weight (g/cm³)	1.44
Unit Dry Weight (pcf)	89.6

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
192.8					
193.3					
193.8					
194.3		2		GRAY SANDY SILT	GRAIN SIZE, HYDROMETER, LIMITS, SP. GR., UNIT WGT.
194.8		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/7/13	Checked By	CLK	Date	11/25/13
-----------	------------	------	---------	------------	-----	------	----------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	192.1-194.8
Project No.	2013-465-001	Sample No.	ST-13
Lab ID #	2013-465-001-025	Recovery (ft)	2.7

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	199.5-202.2
Project No.:	2013-465-001	Shelby Tube No.:	ST-15
Lab ID:	2013-465-001-026	Recovery (ft):	2.3

MOISTURE CONTENT

Section Number	1	2	3	4	5
Tare Number	1692				575
Weight of Tare & Wet Sample (g)	215.32				205.12
Weight of Tare & Dry Sample (g)	193.40				174.97
Weight of Tare (g)	82.55				82.49
Moisture Content (%)	19.77				32.60

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1666.61	1663.99	1639.47
Weight of Tube (g)	446.64	450.04	445.95
Weight of Wet Sample (g)	1219.97	1213.95	1193.52
Length 1 (in)	5.955	5.998	5.958
Length 2 (in)	5.958	6.009	5.947
Length 3 (in)	5.964	6.008	5.940
Top Diameter (in)	2.882	2.868	2.872
Middle Diameter (in)	2.874	2.873	2.878
Bottom Diameter (in)	2.878	2.863	2.877
Sample Volume (cm ³)	635.25	635.71	633.09
Moisture Content (%)	19.77	19.77	19.77
Unit Wet Weight (g/cm ³)	1.92	1.91	1.89
Unit Wet Weight (pcf)	119.84	119.16	117.64
Unit Dry Weight (g/cm³)	1.60	1.59	1.57
Unit Dry Weight (pcf)	100.1	99.5	98.2

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
200.2					
200.7		5	→		W.C.
201.2		4	→		C.U., UNIT WGT.
201.7		3	→	GREENISH GRAY SANDY SILT	C.U., UNIT WGT.,
202.2		2	→		C.U., UNIT WGT. GRAIN SIZE, HYDROMETER, LIMITS
202.2		1	→		W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JM	Date	11/1/13	Checked By	CLK	Date	12/3/13
-----------	----	------	---------	------------	-----	------	---------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	199.5-202.2
Project No.	2013-465-001	Sample No.	ST-15
Lab ID #	2013-465-001-026	Recovery (ft)	2.3

Equipment	Equipment ID#	Calibration Due Date
Oven	G256	10/12/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Oven	G1387	8/16/14

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	206.9-209.6
Project No.:	2013-465-001	Shelby Tube No.:	ST-17
Lab ID:	2013-465-001-027	Recovery (ft):	2.7

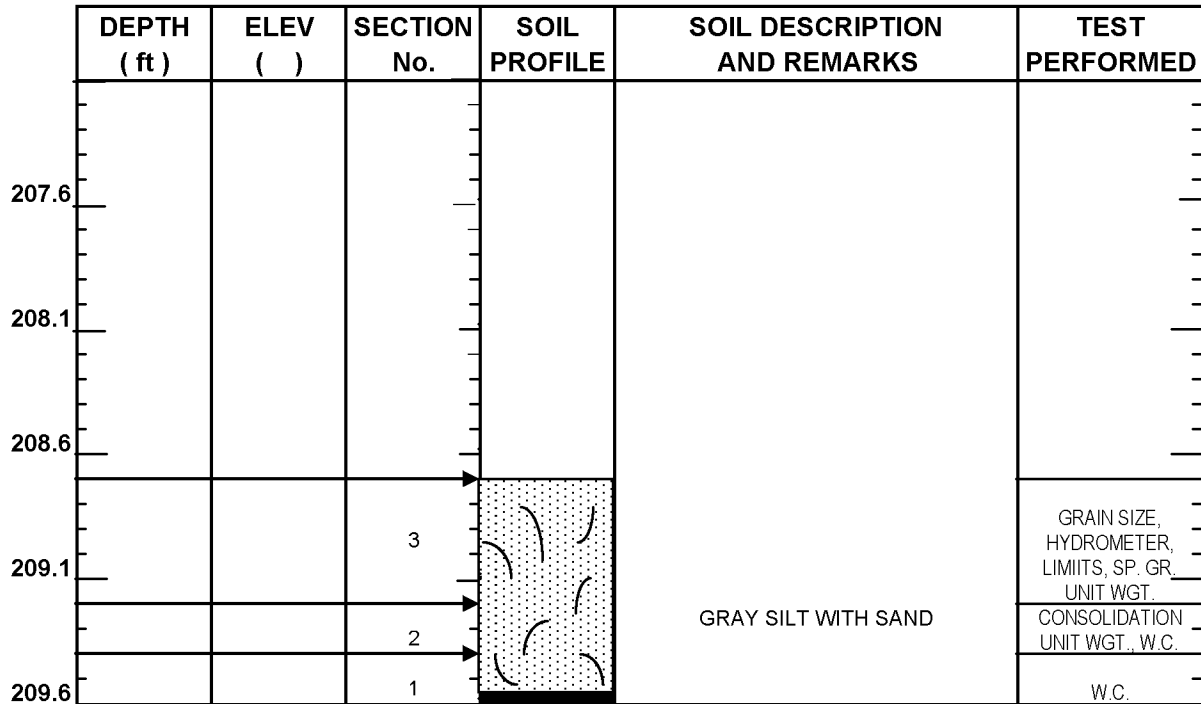
MOISTURE CONTENT

Section Number	1	2	3
Tare Number	2711	2668	
Weight of Tare & Wet Sample (g)	219.20	111.65	
Weight of Tare & Dry Sample (g)	166.83	85.91	
Weight of Tare (g)	6.71	6.92	
Moisture Content (%)	32.71	32.59	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	751.89	1661.79
Weight of Tube (g)	204.69	464.39
Weight of Wet Sample (g)	547.20	1197.40
Length 1 (in)	2.758	6.130
Length 2 (in)	2.751	6.136
Length 3 (in)	2.755	6.140
Top Diameter (in)	2.871	2.873
Middle Diameter (in)	2.873	2.875
Bottom Diameter (in)	2.869	2.870
Sample Volume (cm ³)	292.23	651.63
Moisture Content (%)	32.59	32.59
Unit Wet Weight (g/cm ³)	1.87	1.84
Unit Wet Weight (pcf)	116.84	114.66
Unit Dry Weight (g/cm³)	1.41	1.39
Unit Dry Weight (pcf)	88.1	86.5

SOIL PROFILE AND SAMPLING



*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/7/13	Checked By	CLK	Date	11/25/13
-----------	-----	------	---------	------------	-----	------	----------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	206.9-209.6
Project No.	2013-465-001	Sample No.	ST-17
Lab ID #	2013-465-001-027	Recovery (ft)	2.7

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT

ASTM D7263-09

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	224.2-226.3
Project No.:	2013-465-001	Shelby Tube No.:	ST-22
Lab ID:	2013-465-001-028	Recovery (ft):	1.5

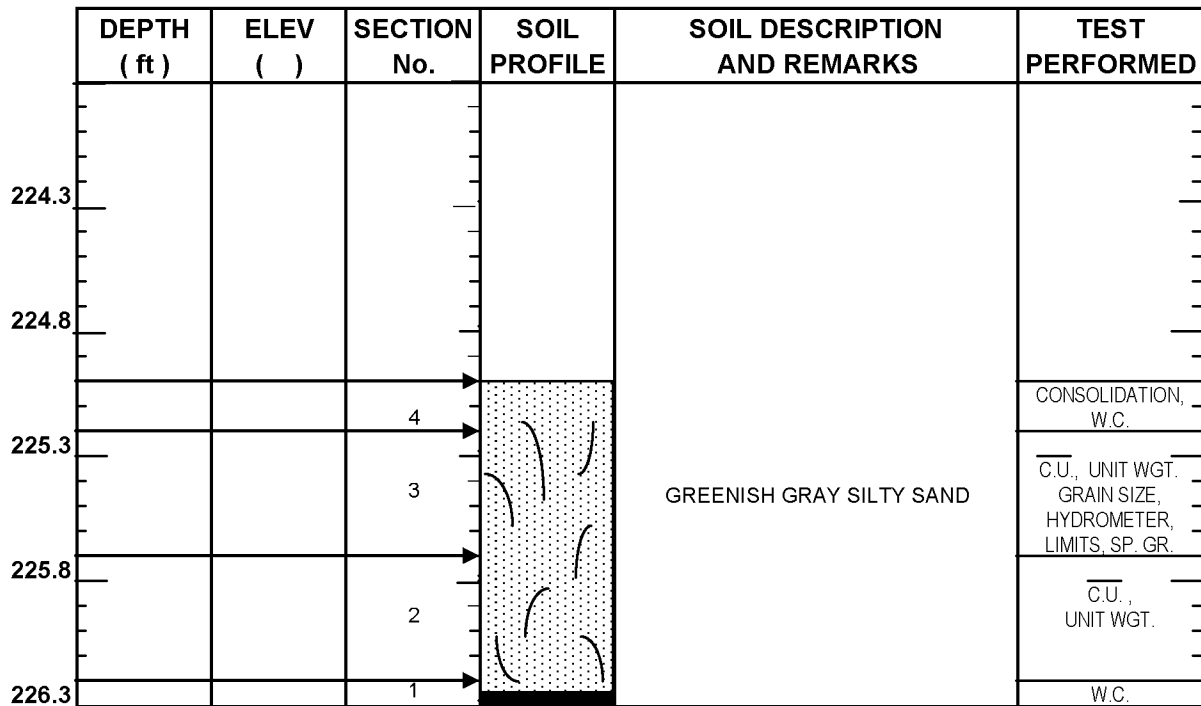
MOISTURE CONTENT

Section Number	1	2	3	4	5
Tare Number	576			2683	
Weight of Tare & Wet Sample (g)	203.80			230.35	
Weight of Tare & Dry Sample (g)	181.94			194.10	
Weight of Tare (g)	84.40			6.56	
Moisture Content (%)	22.41			19.33	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1614.12	1673.79
Weight of Tube (g)	417.72	429.46
Weight of Wet Sample (g)	1196.40	1244.33
Length 1 (in)	5.635	5.785
Length 2 (in)	5.630	5.781
Length 3 (in)	5.622	5.778
Top Diameter (in)	2.866	2.866
Middle Diameter (in)	2.875	2.860
Bottom Diameter (in)	2.876	2.883
Sample Volume (cm ³)	597.71	612.75
Moisture Content (%)	22.41	22.41
Unit Wet Weight (g/cm ³)	2.00	2.03
Unit Wet Weight (pcf)	124.90	126.72
Unit Dry Weight (g/cm³)	1.64	1.66
Unit Dry Weight (pcf)	102.0	103.5

SOIL PROFILE AND SAMPLING



*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JM	Date	11/8/13	Checked By	CLK	Date	12/3/13
-----------	----	------	---------	------------	-----	------	---------

Shelby Tube Unit Weight

ASTM D7263-09

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	224.2-226.3
Project No.	2013-465-001	Sample No.	ST-22
Lab ID #	2013-465-001-028	Recovery (ft)	1.5

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	232.7-235.4
Project No.:	2013-465-001	Shelby Tube No.:	ST-25
Lab ID:	2013-465-001-029	Recovery (ft):	2.4

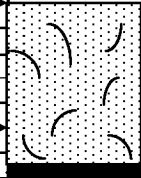

MOISTURE CONTENT

Section Number	1	2
Tare Number	2684	
Weight of Tare & Wet Sample (g)	273.40	
Weight of Tare & Dry Sample (g)	215.13	
Weight of Tare (g)	6.76	
Moisture Content (%)	27.96	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1728.42
Weight of Tube (g)	447.73
Weight of Wet Sample (g)	1280.69
Length 1 (in)	6.288
Length 2 (in)	6.281
Length 3 (in)	6.279
Top Diameter (in)	2.881
Middle Diameter (in)	2.889
Bottom Diameter (in)	2.874
Sample Volume (cm ³)	671.31
Moisture Content (%)	27.96
Unit Wet Weight (g/cm ³)	1.91
Unit Wet Weight (pcf)	119.04
Unit Dry Weight (g/cm³)	1.49
Unit Dry Weight (pcf)	93.0

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
233.4					
233.9					
234.4					
234.9		2		GRAY SILTY SAND	GRAIN SIZE, HYDROMETER, LIMITS, SP. GR., UNIT WGT.
235.4		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/7/13	Checked By	CLK	Date	11/25/13
-----------	------------	------	---------	------------	-----	------	----------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	232.7-235.4
Project No.	2013-465-001	Sample No.	ST-25
Lab ID #	2013-465-001-029	Recovery (ft)	2.4

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT

ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	250.9-253.3
Project No.:	2013-465-001	Shelby Tube No.:	ST-31
Lab ID:	2013-465-001-030	Recovery (ft):	1.6

MOISTURE CONTENT

Section Number	1	2	3	4	5
Tare Number	895				
Weight of Tare & Wet Sample (g)	157.73				
Weight of Tare & Dry Sample (g)	149.60				
Weight of Tare (g)	109.49				
Moisture Content (%)	20.27				

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1646.85	1639.42	1120.10
Weight of Tube (g)	400.60	402.41	0.00
Weight of Wet Sample (g)	1246.25	1237.01	1120.10
Length 1 (in)	5.792	5.833	5.237
Length 2 (in)	5.802	5.828	5.224
Length 3 (in)	5.805	5.835	5.235
Top Diameter (in)	2.878	2.880	2.872
Middle Diameter (in)	2.873	2.883	2.877
Bottom Diameter (in)	2.882	2.888	2.878
Sample Volume (cm ³)	618.12	624.16	556.85
Moisture Content (%)	20.27	20.27	20.27
Unit Wet Weight (g/cm ³)	2.02	1.98	2.01
Unit Wet Weight (pcf)	125.81	123.67	125.52
Unit Dry Weight (g/cm³)	1.68	1.65	1.67
Unit Dry Weight (pcf)	104.6	102.8	104.4

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
251.3				TOP OF MATERIAL	
251.8		4	[Dotted pattern]		C.U., UNIT WGT.
252.3		3	[Wavy lines]	GREENISH GRAY SILTY SAND	C.U., UNIT WGT., GRAIN SIZE, HYDROMETER, LIMITS, SP. GR.
252.8		2	[Wavy lines]		C.U., UNIT WGT.
253.3		1	[Cross-hatching]		W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JCM	Date	11/8/13	Checked By	CLK	Date	12/6/13
-----------	-----	------	---------	------------	-----	------	---------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	250.9-253.3
Project No.	2013-465-001	Sample No.	ST-31
Lab ID #	2013-465-001-030	Recovery (ft)	1.6

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	257.8-260.5
Project No.:	2013-465-003	Shelby Tube No.:	ST-33
Lab ID:	2013-465-003-001	Recovery (ft):	NA

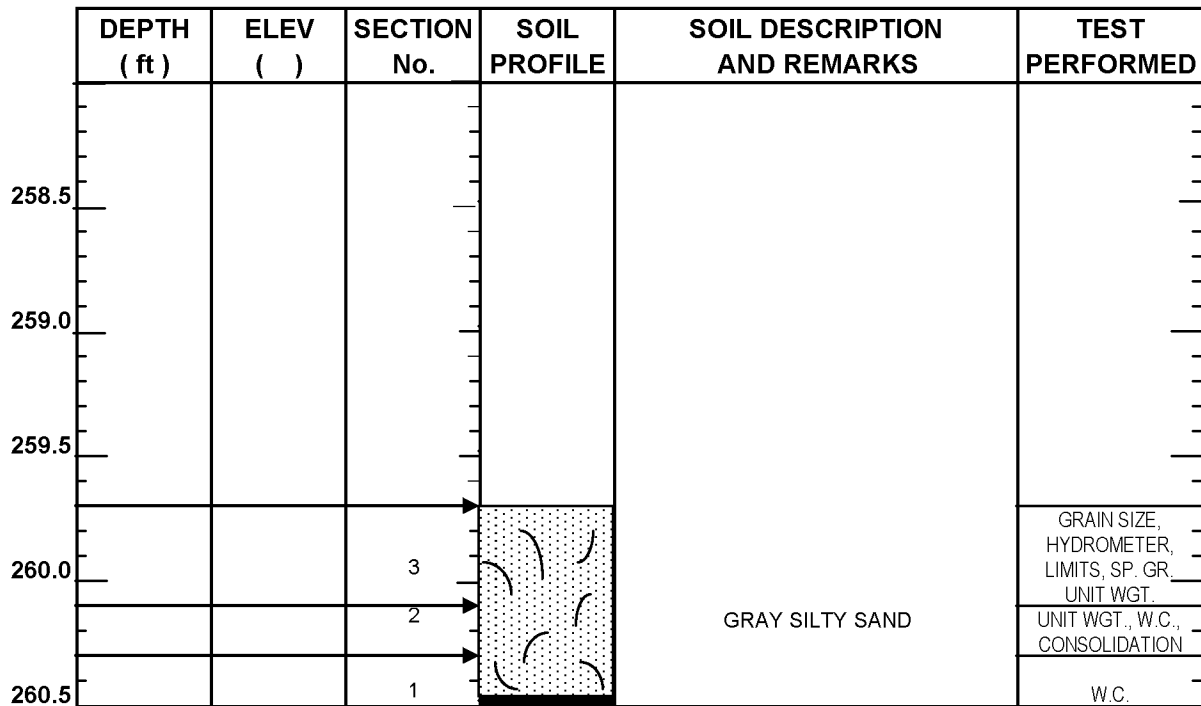
MOISTURE CONTENT

Section Number	1	2	3
Tare Number	2661	2773	
Weight of Tare & Wet Sample (g)	177.24	181.61	
Weight of Tare & Dry Sample (g)	142.41	146.32	
Weight of Tare (g)	6.68	6.93	
Moisture Content (%)	25.66	25.32	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	691.19	1341.01
Weight of Tube (g)	178.16	348.62
Weight of Wet Sample (g)	513.03	992.39
Length 1 (in)	2.499	4.864
Length 2 (in)	2.495	4.834
Length 3 (in)	2.497	4.851
Top Diameter (in)	2.888	2.871
Middle Diameter (in)	2.872	2.877
Bottom Diameter (in)	2.871	2.875
Sample Volume (cm ³)	266.00	515.68
Moisture Content (%)	25.32	25.32
Unit Wet Weight (g/cm ³)	1.93	1.92
Unit Wet Weight (pcf)	120.35	120.09
Unit Dry Weight (g/cm³)	1.54	1.54
Unit Dry Weight (pcf)	96.0	95.8

SOIL PROFILE AND SAMPLING



*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	DB	Date	11/27/13	Checked By	CLK	Date	12/11/13
-----------	----	------	----------	------------	-----	------	----------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	257.8-260.5
Project No.	2013-465-003	Sample No.	ST-33
Lab ID #	2013-465-003-001	Recovery (ft)	NA

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	269.8-272.5
Project No.:	2013-465-001	Shelby Tube No.:	ST-37
Lab ID:	2013-465-001-031	Recovery (ft):	2.1

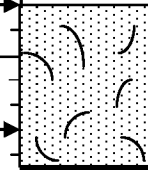

MOISTURE CONTENT

Section Number	1	2
Tare Number	2553	
Weight of Tare & Wet Sample (g)	206.51	
Weight of Tare & Dry Sample (g)	168.75	
Weight of Tare (g)	6.68	
Moisture Content (%)	23.30	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1723.32
Weight of Tube (g)	457.47
Weight of Wet Sample (g)	1265.85
Length 1 (in)	6.173
Length 2 (in)	6.179
Length 3 (in)	6.187
Top Diameter (in)	2.873
Middle Diameter (in)	2.877
Bottom Diameter (in)	2.871
Sample Volume (cm ³)	656.79
Moisture Content (%)	23.30
Unit Wet Weight (g/cm ³)	1.93
Unit Wet Weight (pcf)	120.26
Unit Dry Weight (g/cm³)	1.56
Unit Dry Weight (pcf)	97.5

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
270.5					
271.0					
271.5					
272.0		2		GRAY SILTY SAND	GRAIN SIZE, HYDROMETER, LIMITS, UNIT WGT.
272.5		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/7/13	Checked By	CLK	Date	11/25/13
-----------	------------	------	----------------	------------	------------	------	-----------------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	269.8-272.5
Project No.	2013-465-001	Sample No.	ST-37
Lab ID #	2013-465-001-031	Recovery (ft)	2.1

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	279.8-282.5
Project No.:	2013-465-001	Shelby Tube No.:	ST-40
Lab ID:	2013-465-001-032	Recovery (ft):	2.7

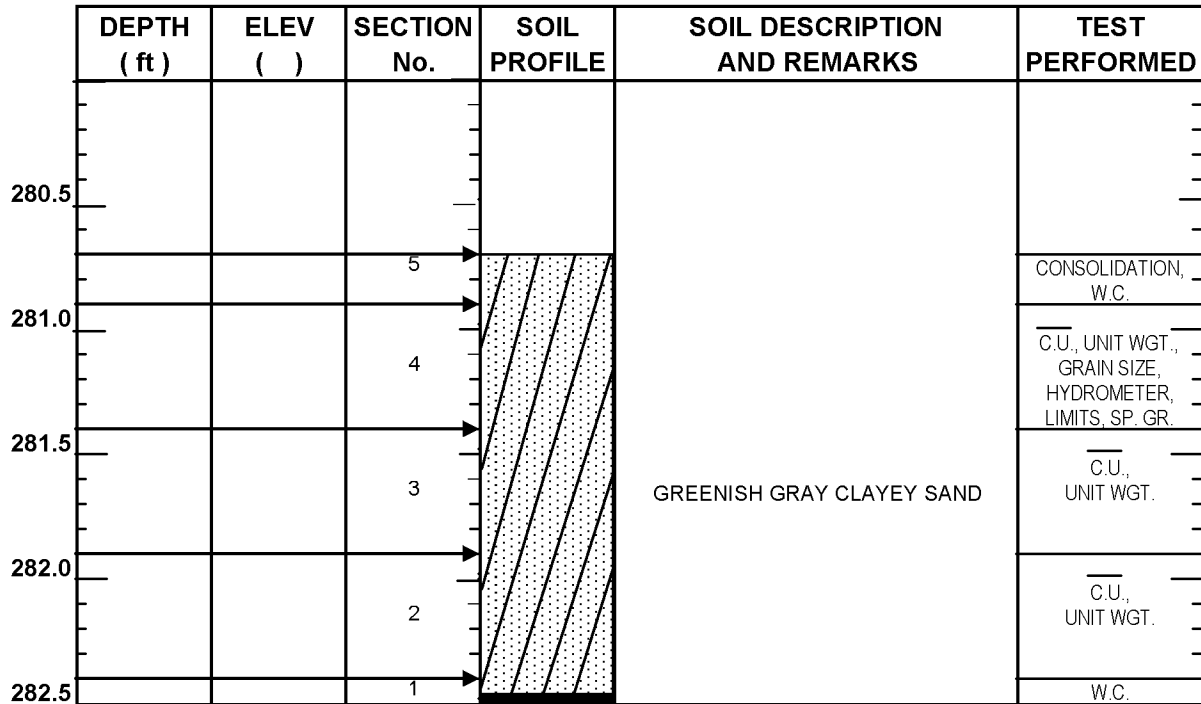
MOISTURE CONTENT

Section Number	1	2	3	4	5
Tare Number	1692				2620
Weight of Tare & Wet Sample (g)	214.91				117.72
Weight of Tare & Dry Sample (g)	184.40				91.57
Weight of Tare (g)	82.55				7.25
Moisture Content (%)	29.96				31.01

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1626.55	1616.50	1631.89
Weight of Tube (g)	419.79	415.46	421.62
Weight of Wet Sample (g)	1206.76	1201.04	1210.27
Length 1 (in)	5.922	5.885	5.941
Length 2 (in)	5.937	5.894	5.973
Length 3 (in)	5.928	5.894	5.952
Top Diameter (in)	2.885	2.882	2.874
Middle Diameter (in)	2.884	2.879	2.888
Bottom Diameter (in)	2.880	2.890	2.883
Sample Volume (cm ³)	634.25	630.48	636.48
Moisture Content (%)	29.96	29.96	29.96
Unit Wet Weight (g/cm ³)	1.90	1.90	1.90
Unit Wet Weight (pcf)	118.73	118.87	118.65
Unit Dry Weight (g/cm³)	1.46	1.47	1.46
Unit Dry Weight (pcf)	91.4	91.5	91.3

SOIL PROFILE AND SAMPLING



*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JCM	Date	11/13/13	Checked By	CLK	Date	12/6/13
-----------	-----	------	----------	------------	-----	------	---------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	279.8-282.5
Project No.	2013-465-001	Sample No.	ST-40
Lab ID #	2013-465-001-032	Recovery (ft)	2.7

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT

ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	299.6-302.3
Project No.:	2013-465-001	Shelby Tube No.:	ST-46
Lab ID:	2013-465-001-033	Recovery (ft):	1.8

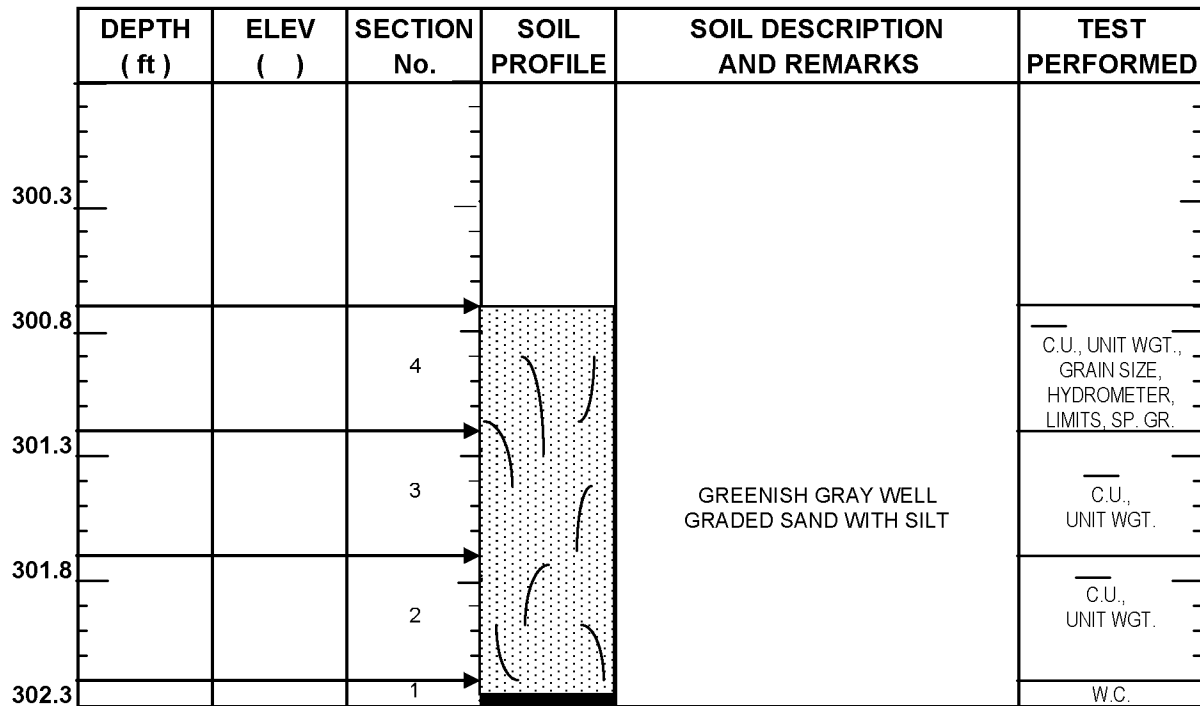
MOISTURE CONTENT

Section Number	1	2	3	4	5
Tare Number	578				
Weight of Tare & Wet Sample (g)	213.54				
Weight of Tare & Dry Sample (g)	195.77				
Weight of Tare (g)	84.28				
Moisture Content (%)	15.94				

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1713.58	1708.79	1700.88
Weight of Tube (g)	421.95	424.65	415.27
Weight of Wet Sample (g)	1291.63	1284.14	1285.61
Length 1 (in)	5.898	5.958	5.890
Length 2 (in)	5.887	5.964	5.891
Length 3 (in)	5.886	5.954	5.888
Top Diameter (in)	2.829	2.883	2.885
Middle Diameter (in)	2.887	2.877	2.884
Bottom Diameter (in)	2.877	2.877	2.880
Sample Volume (cm ³)	621.98	635.66	630.04
Moisture Content (%)	15.94	15.94	15.94
Unit Wet Weight (g/cm ³)	2.08	2.02	2.04
Unit Wet Weight (pcf)	129.58	126.06	127.33
Unit Dry Weight (g/cm³)	1.79	1.74	1.76
Unit Dry Weight (pcf)	111.8	108.7	109.8

SOIL PROFILE AND SAMPLING



*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JCM	Date	11/24/13	Checked By	CLK	Date	12/10/13
-----------	-----	------	----------	------------	-----	------	----------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	299.6-302.3
Project No.	2013-465-001	Sample No.	ST-46
Lab ID #	2013-465-001-033	Recovery (ft)	1.8

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	317.8-319.9
Project No.:	2013-465-001	Shelby Tube No.:	ST-52
Lab ID:	2013-465-001-034	Recovery (ft):	1.7

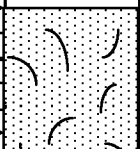

MOISTURE CONTENT

Section Number	1	2	3
Tare Number		2660	
Weight of Tare & Wet Sample (g)		323.78	
Weight of Tare & Dry Sample (g)		260.74	
Weight of Tare (g)		6.63	
Moisture Content (%)		24.81	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1766.15
Weight of Tube (g)	459.08
Weight of Wet Sample (g)	1307.07
Length 1 (in)	6.344
Length 2 (in)	6.398
Length 3 (in)	6.389
Top Diameter (in)	2.889
Middle Diameter (in)	2.891
Bottom Diameter (in)	2.887
Sample Volume (cm ³)	685.02
Moisture Content (%)	24.81
Unit Wet Weight (g/cm ³)	1.91
Unit Wet Weight (pcf)	119.06
Unit Dry Weight (g/cm³)	1.53
Unit Dry Weight (pcf)	95.4

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
317.9					
318.4					
318.9					
319.4		3		GRAY POORLY GRADED SAND WITH SILT	GRAIN SIZE, HYDROMETER, LIMITS, SP. GR., UNIT WGT.
319.9		2			W.C.
319.9		1	EMPTY		

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/8/13	Checked By	CLK	Date	11/25/13
-----------	-----	------	---------	------------	-----	------	----------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	317.8-319.9
Project No.	2013-465-001	Sample No.	ST-52
Lab ID #	2013-465-001-034	Recovery (ft)	1.7

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	325.9-328.0
Project No.:	2013-465-001	Shelby Tube No.:	ST-55
Lab ID:	2013-465-001-035	Recovery (ft):	1.4

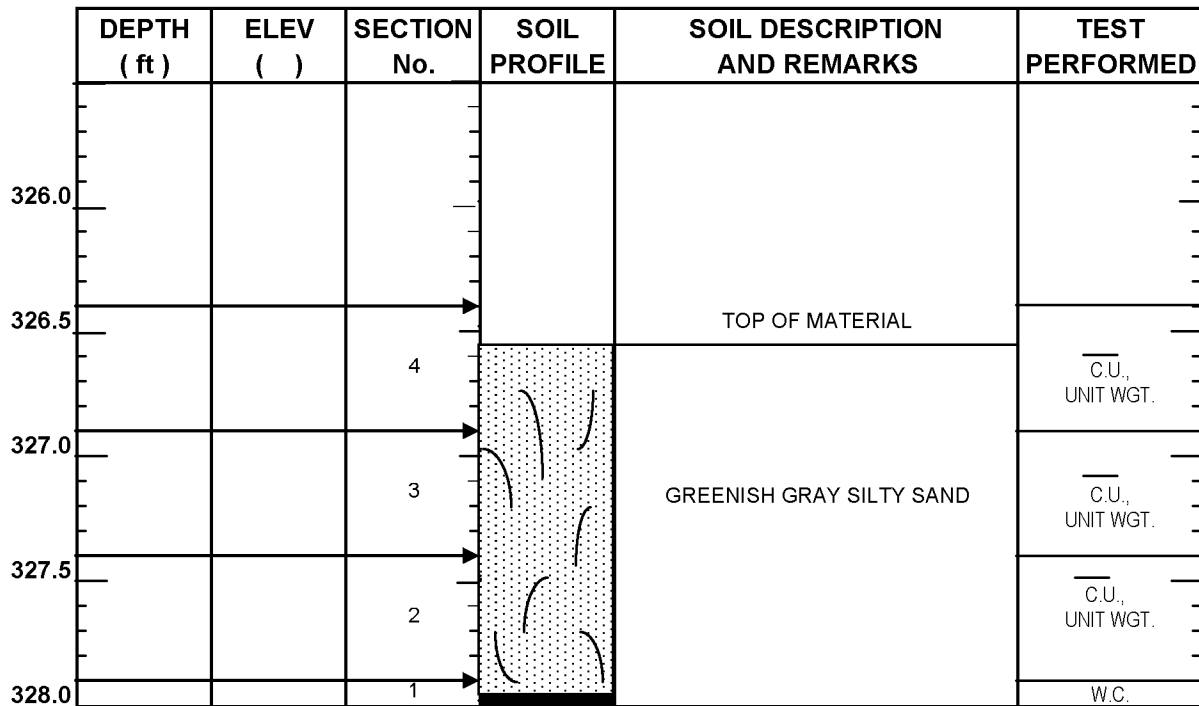
MOISTURE CONTENT

<i>Section Number</i>	1	2	3	4	5
Tare Number	576				
Weight of Tare & Wet Sample (g)	142.54				
Weight of Tare & Dry Sample (g)	131.51				
Weight of Tare (g)	84.46				
Moisture Content (%)	23.44				

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1641.98	1628.53	1201.53
Weight of Tube (g)	415.62	408.97	245.27
Weight of Wet Sample (g)	1226.36	1219.56	956.26
Length 1 (in)	5.829	5.800	4.853
Length 2 (in)	5.833	5.811	4.757
Length 3 (in)	5.834	5.801	4.853
Top Diameter (in)	2.886	2.879	2.880
Middle Diameter (in)	2.885	2.882	2.882
Bottom Diameter (in)	2.882	2.874	2.886
Sample Volume (cm ³)	624.45	618.87	515.60
Moisture Content (%)	23.44	23.44	23.44
Unit Wet Weight (g/cm ³)	1.96	1.97	1.85
Unit Wet Weight (pcf)	122.55	122.97	115.73
Unit Dry Weight (g/cm³)	1.59	1.60	1.50
Unit Dry Weight (pcf)	99.3	99.6	93.8

SOIL PROFILE AND SAMPLING



*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JCM	Date	11/29/13	Checked By	CLK	Date	12/10/13
-----------	-----	------	----------	------------	-----	------	----------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	325.9-328.0
Project No.	2013-465-001	Sample No.	ST-55
Lab ID #	2013-465-001-035	Recovery (ft)	1.4

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	341.5-344.2
Project No.:	2013-465-001	Shelby Tube No.:	ST-61
Lab ID:	2013-465-001-036	Recovery (ft):	1.8

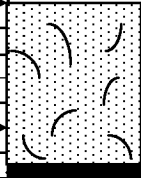

MOISTURE CONTENT

Section Number	1	2
Tare Number	2685	
Weight of Tare & Wet Sample (g)	180.60	
Weight of Tare & Dry Sample (g)	141.30	
Weight of Tare (g)	6.66	
Moisture Content (%)	29.19	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1808.55
Weight of Tube (g)	465.62
Weight of Wet Sample (g)	1342.93
Length 1 (in)	6.452
Length 2 (in)	6.461
Length 3 (in)	6.450
Top Diameter (in)	2.882
Middle Diameter (in)	2.881
Bottom Diameter (in)	2.876
Sample Volume (cm ³)	688.85
Moisture Content (%)	29.19
Unit Wet Weight (g/cm ³)	1.95
Unit Wet Weight (pcf)	121.65
Unit Dry Weight (g/cm³)	1.51
Unit Dry Weight (pcf)	94.2

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
342.2					
342.7					
343.2					
343.7		2		GRAY POORLY GRADED SAND WITH SILT	GRAIN SIZE, HYDROMETER, LIMITS, UNIT WGT.
344.2		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/8/13	Checked By	CLK	Date	11/25/13
-----------	------------	------	----------------	------------	------------	------	-----------------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	341.5-344.2
Project No.	2013-465-001	Sample No.	ST-61
Lab ID #	2013-465-001-036	Recovery (ft)	1.8

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	355.9-358.6
Project No.:	2013-465-001	Shelby Tube No.:	ST-66
Lab ID:	2013-465-001-037	Recovery (ft):	2.7

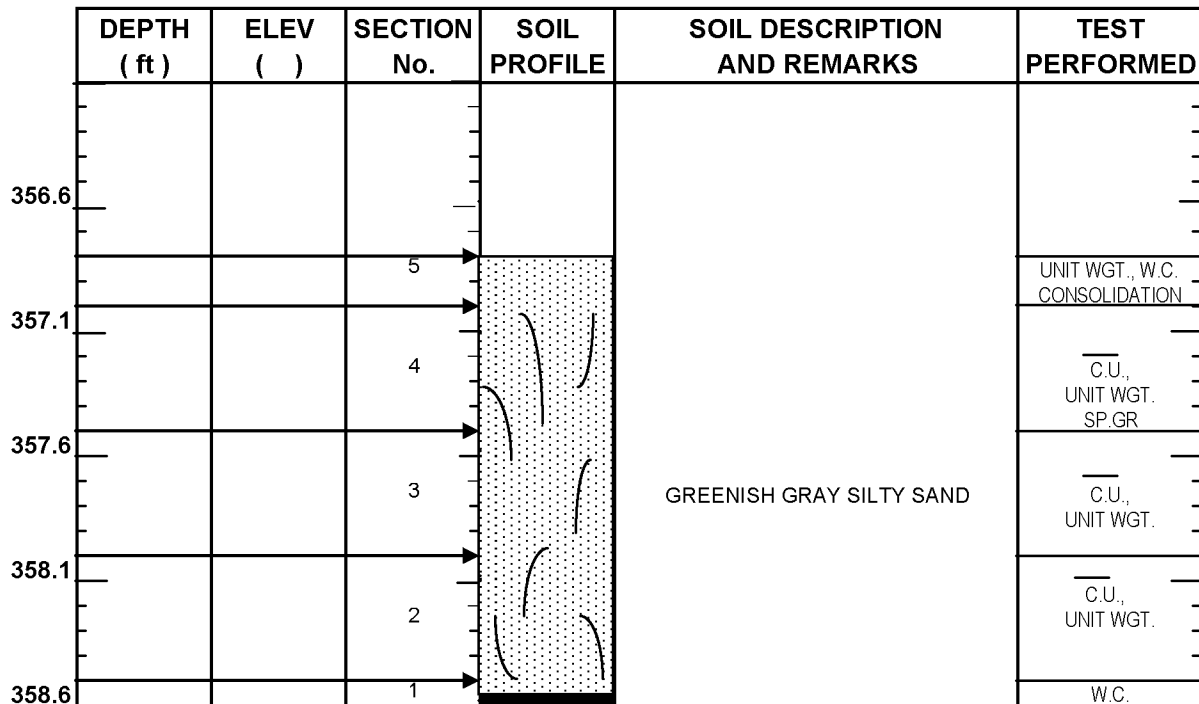
MOISTURE CONTENT

Section Number	1	2	3	4	5
Tare Number	1122				2736
Weight of Tare & Wet Sample (g)	163.46				146.15
Weight of Tare & Dry Sample (g)	146.93				117.21
Weight of Tare (g)	84.17				6.66
Moisture Content (%)	26.34				26.18

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1665.81	1646.82	1637.49	716.94
Weight of Tube (g)	422.56	417.51	420.90	188.16
Weight of Wet Sample (g)	1243.25	1229.31	1216.59	528.78
Length 1 (in)	5.983	5.900	5.949	2.623
Length 2 (in)	5.984	5.910	5.943	2.603
Length 3 (in)	5.983	5.909	5.957	2.608
Top Diameter (in)	2.888	2.888	2.882	2.878
Middle Diameter (in)	2.887	2.887	2.881	2.886
Bottom Diameter (in)	2.876	2.881	2.885	2.871
Sample Volume (cm ³)	640.36	632.85	636.32	278.44
Moisture Content (%)	26.34	26.34	26.34	26.18
Unit Wet Weight (g/cm ³)	1.94	1.94	1.91	1.90
Unit Wet Weight (pcf)	121.15	121.21	119.30	118.50
Unit Dry Weight (g/cm³)	1.54	1.54	1.51	1.51
Unit Dry Weight (pcf)	95.9	95.9	94.4	93.9

SOIL PROFILE AND SAMPLING



*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JCM	Date	10/21/13	Checked By	CLK	Date	12/10/13
-----------	-----	------	----------	------------	-----	------	----------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	355.9-358.6
Project No.	2013-465-001	Sample No.	ST-66
Lab ID #	2013-465-001-037	Recovery (ft)	2.7

Equipment	Equipment ID#	Calibration Due Date
Oven	G256	10/12/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G134	1/9/14
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	358.6-361.3
Project No.:	2013-465-001	Shelby Tube No.:	ST-67
Lab ID:	2013-465-001-038	Recovery (ft):	1.6

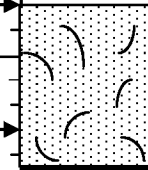

MOISTURE CONTENT

Section Number	1	2
Tare Number	2518	
Weight of Tare & Wet Sample (g)	206.75	
Weight of Tare & Dry Sample (g)	165.49	
Weight of Tare (g)	8.28	
Moisture Content (%)	26.25	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1728.48
Weight of Tube (g)	446.30
Weight of Wet Sample (g)	1282.18
Length 1 (in)	6.253
Length 2 (in)	6.271
Length 3 (in)	6.273
Top Diameter (in)	2.880
Middle Diameter (in)	2.879
Bottom Diameter (in)	2.870
Sample Volume (cm ³)	667.17
Moisture Content (%)	26.25
Unit Wet Weight (g/cm ³)	1.92
Unit Wet Weight (pcf)	119.92
Unit Dry Weight (g/cm³)	1.52
Unit Dry Weight (pcf)	95.0

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
359.3					
359.8					
360.3					
360.8		2		GRAY POORLY GRADED SAND WITH SILT	GRAIN SIZE, HYDROMETER, LIMITS, SP. GR., UNIT WGT.
361.3		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/8/13	Checked By	CLK	Date	11/25/13
-----------	------------	------	----------------	------------	------------	------	-----------------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	358.6-361.3
Project No.	2013-465-001	Sample No.	ST-67
Lab ID #	2013-465-001-038	Recovery (ft)	1.6

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	381.4-384.1
Project No.:	2013-465-001	Shelby Tube No.:	ST-75
Lab ID:	2013-465-001-039	Recovery (ft):	2.2

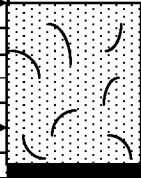

MOISTURE CONTENT

Section Number	1	2
Tare Number	2579	
Weight of Tare & Wet Sample (g)	156.81	
Weight of Tare & Dry Sample (g)	119.45	
Weight of Tare (g)	6.78	
Moisture Content (%)	33.16	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1737.18
Weight of Tube (g)	460.10
Weight of Wet Sample (g)	1277.08
Length 1 (in)	6.372
Length 2 (in)	6.375
Length 3 (in)	6.382
Top Diameter (in)	2.885
Middle Diameter (in)	2.884
Bottom Diameter (in)	2.873
Sample Volume (cm ³)	681.00
Moisture Content (%)	33.16
Unit Wet Weight (g/cm ³)	1.88
Unit Wet Weight (pcf)	117.02
Unit Dry Weight (g/cm³)	1.41
Unit Dry Weight (pcf)	87.9

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
382.1					
382.6					
383.1					
383.6		2		GRAY POORLY GRADED SAND WITH SILT	GRAIN SIZE, HYDROMETER, LIMITS, SP. GR., UNIT WGT.
384.1		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/11/13	Checked By	CLK	Date	11/25/13
-----------	------------	------	----------	------------	-----	------	----------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	381.4-384.1
Project No.	2013-465-001	Sample No.	ST-75
Lab ID #	2013-465-001-039	Recovery (ft)	2.2

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	401.9-404.6
Project No.:	2013-465-001	Shelby Tube No.:	ST-82
Lab ID:	2013-465-001-040	Recovery (ft):	1.9

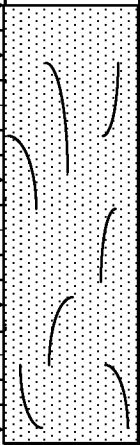
MOISTURE CONTENT

Section Number	1	2	3	4	5
Tare Number	914				2702
Weight of Tare & Wet Sample (g)	238.70				135.40
Weight of Tare & Dry Sample (g)	210.46				113.52
Weight of Tare (g)	110.32				6.61
Moisture Content (%)	28.20				20.47

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1611.78	1657.58	1590.60	653.23
Weight of Tube (g)	419.97	420.09	417.28	188.07
Weight of Wet Sample (g)	1191.81	1237.49	1173.32	465.16
Length 1 (in)	5.929	5.947	5.914	2.671
Length 2 (in)	5.904	5.948	5.915	2.663
Length 3 (in)	5.928	5.933	5.912	2.672
Top Diameter (in)	2.872	2.880	2.883	2.884
Middle Diameter (in)	2.881	2.892	2.888	2.871
Bottom Diameter (in)	2.886	2.882	2.886	2.873
Sample Volume (cm ³)	631.86	636.45	633.78	284.09
Moisture Content (%)	28.20	28.20	28.20	20.47
Unit Wet Weight (g/cm ³)	1.89	1.94	1.85	1.64
Unit Wet Weight (pcf)	117.70	121.33	115.52	102.17
Unit Dry Weight (g/cm³)	1.47	1.52	1.44	1.36
Unit Dry Weight (pcf)	91.8	94.6	90.1	84.8

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
402.6					
		5			W.C., UNIT WGT., CONSOLIDATION
403.1		4		GREENISH GRAY SILTY SAND	C.U., UNIT WGT., GRAIN SIZE, HYDROMETER, LIMITS, SP. GR.
403.6		3			C.U., UNIT WGT.
404.1		2			C.U., UNIT WGT.
404.6		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JCM	Date	11/26/13	Checked By	CLK	Date	12/10/13
-----------	-----	------	----------	------------	-----	------	----------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	401.9-404.6
Project No.	2013-465-001	Sample No.	ST-82
Lab ID #	2013-465-001-040	Recovery (ft)	1.9

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	419.5-422.2
Project No.:	2013-465-001	Shelby Tube No.:	ST-88
Lab ID:	2013-465-001-041	Recovery (ft):	2.5

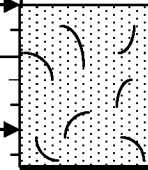

MOISTURE CONTENT

Section Number	1	2
Tare Number	2685	
Weight of Tare & Wet Sample (g)	291.17	
Weight of Tare & Dry Sample (g)	233.03	
Weight of Tare (g)	6.71	
Moisture Content (%)	25.69	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1715.88
Weight of Tube (g)	438.06
Weight of Wet Sample (g)	1277.82
Length 1 (in)	6.156
Length 2 (in)	6.168
Length 3 (in)	6.157
Top Diameter (in)	2.881
Middle Diameter (in)	2.876
Bottom Diameter (in)	2.883
Sample Volume (cm ³)	657.63
Moisture Content (%)	25.69
Unit Wet Weight (g/cm ³)	1.94
Unit Wet Weight (pcf)	121.25
Unit Dry Weight (g/cm³)	1.55
Unit Dry Weight (pcf)	96.5

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
420.2					
420.7					
421.2					
421.7		2		GRAY POORLY GRADED SAND WITH SILT	GRAIN SIZE, HYDROMETER, LIMITS, UNIT WGT.
422.2		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/8/13	Checked By	CLK	Date	11/25/13
-----------	------------	------	----------------	------------	------------	------	-----------------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	419.5-422.2
Project No.	2013-465-001	Sample No.	ST-88
Lab ID #	2013-465-001-041	Recovery (ft)	2.5

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	445.9-448.6
Project No.:	2013-465-001	Shelby Tube No.:	ST-97
Lab ID:	2013-465-001-042	Recovery (ft):	2.1

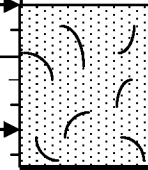

MOISTURE CONTENT

Section Number	1	2
Tare Number	2518	
Weight of Tare & Wet Sample (g)	229.74	
Weight of Tare & Dry Sample (g)	182.56	
Weight of Tare (g)	8.44	
Moisture Content (%)	27.10	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1744.64
Weight of Tube (g)	466.55
Weight of Wet Sample (g)	1278.09
Length 1 (in)	6.373
Length 2 (in)	6.371
Length 3 (in)	6.377
Top Diameter (in)	2.881
Middle Diameter (in)	2.869
Bottom Diameter (in)	2.873
Sample Volume (cm ³)	677.73
Moisture Content (%)	27.10
Unit Wet Weight (g/cm ³)	1.89
Unit Wet Weight (pcf)	117.68
Unit Dry Weight (g/cm³)	1.48
Unit Dry Weight (pcf)	92.6

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
446.6					
447.1					
447.6					
448.1		2		GRAY SILTY SAND	GRAIN SIZE, HYDROMETER, LIMITS, SP. GR., UNIT WGT.
448.6		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/11/13	Checked By	CLK	Date	11/25/13
-----------	------------	------	-----------------	------------	------------	------	-----------------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	445.9-448.6
Project No.	2013-465-001	Sample No.	ST-97
Lab ID #	2013-465-001-042	Recovery (ft)	2.1

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	136.0-138.7
Project No.:	2013-465-001	Shelby Tube No.:	ST-1
Lab ID:	2013-465-001-001	Recovery (ft):	1.5

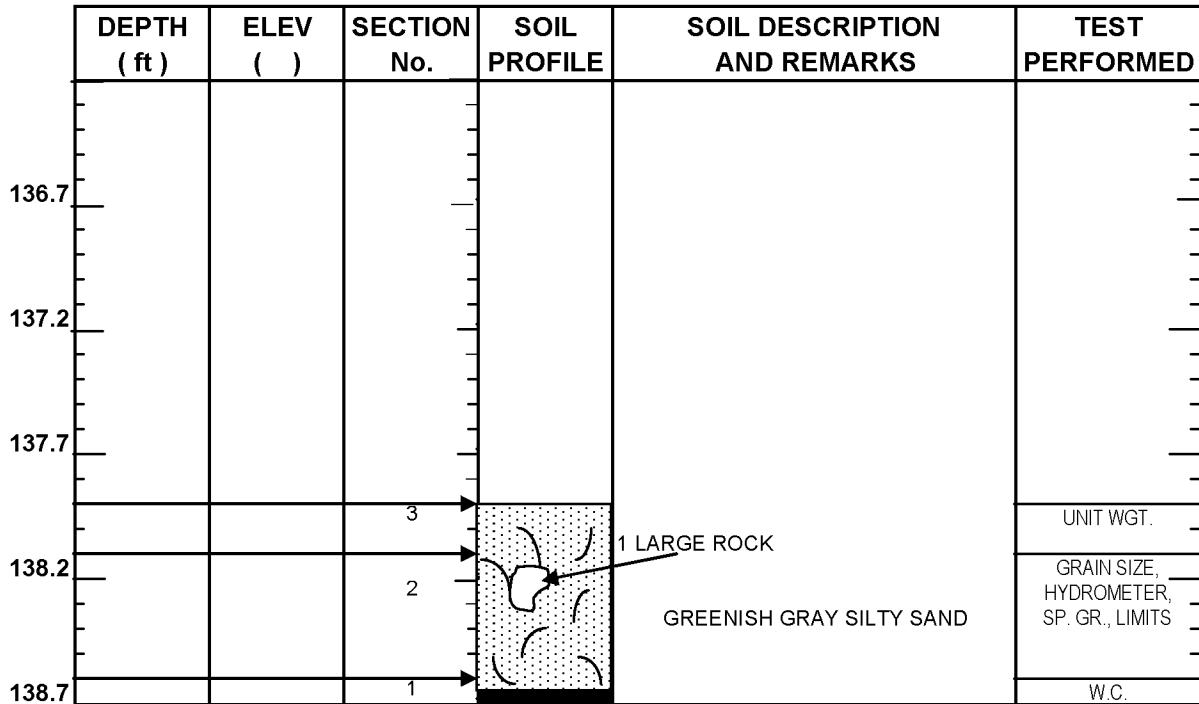
MOISTURE CONTENT

Section Number	1	2
Tare Number	2605	
Weight of Tare & Wet Sample (g)	135.81	
Weight of Tare & Dry Sample (g)	113.87	
Weight of Tare (g)	6.81	
Moisture Content (%)	20.49	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	667.91
Weight of Tube (g)	172.57
Weight of Wet Sample (g)	495.34
Length 1 (in)	2.261
Length 2 (in)	2.257
Length 3 (in)	2.263
Top Diameter (in)	2.881
Middle Diameter (in)	2.883
Bottom Diameter (in)	2.876
Sample Volume (cm ³)	241.30
Moisture Content (%)	20.49
Unit Wet Weight (g/cm ³)	2.05
Unit Wet Weight (pcf)	128.10
Unit Dry Weight (g/cm³)	1.70
Unit Dry Weight (pcf)	106.3

SOIL PROFILE AND SAMPLING



*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	12/5/13	Checked By	CLK	Date	12/11/13
-----------	-----	------	---------	------------	-----	------	----------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	136.0-138.7
Project No.	2013-465-001	Sample No.	ST-1
Lab ID #	2013-465-001-001	Recovery (ft)	1.5

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1485	11/11/14
Calipers	G1122	12/2/14
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	158.0-160.7
Project No.:	2013-465-001	Shelby Tube No.:	ST-2
Lab ID:	2013-465-001-002	Recovery (ft):	2.5

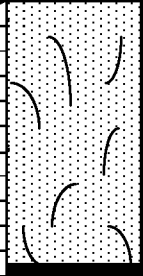
MOISTURE CONTENT

<i>Section Number</i>	1	2	
Tare Number	2564		
Weight of Tare & Wet Sample (g)	352.42		
Weight of Tare & Dry Sample (g)	266.14		
Weight of Tare (g)	6.69		
Moisture Content (%)	33.25		

UNIT WEIGHT

Weight of Tube & Wet Sample (g)
 Weight of Tube (g)
 Weight of Wet Sample (g)
 Length 1 (in)
 Length 2 (in)
 Length 3 (in)
 Top Diameter (in)
 Middle Diameter (in)
 Bottom Diameter (in)
 Sample Volume (cm³)
 Moisture Content (%)
 Unit Wet Weight (g/cm³)
 Unit Wet Weight (pcf)
Unit Dry Weight (g/cm³)
Unit Dry Weight (pcf)

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
158.7					
159.2					
159.7		1		GRAY SANDY SILT (SHELBY TUBE WAS RECEIVED IN AN OVAL SHAPE, SO THERE IS NO UNIT WGT. FOR THIS SAMPLE)	GRAIN SIZE, HYDROMETER, LIMITS, SP. GR., W.C.
160.2					
160.7					

*Note: When full recovery is not achieved, the elevation can not be accurately defined
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By JAM	Date 11/2/13	Checked By CLK	Date 11/20/13
----------------------	---------------------	-----------------------	----------------------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	158.0-160.7
Project No.	2013-465-001	Sample No.	ST-2
Lab ID #	2013-465-001-002	Recovery (ft)	2.5

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	188.0-190.7
Project No.:	2013-465-001	Shelby Tube No.:	ST-4
Lab ID:	2013-465-001-003	Recovery (ft):	2.7

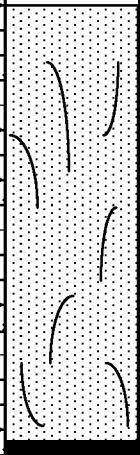
MOISTURE CONTENT

Section Number	1	2	3	4	5
Tare Number	560			2535	
Weight of Tare & Wet Sample (g)	161.29			134.43	
Weight of Tare & Dry Sample (g)	142.44			102.29	
Weight of Tare (g)	82.61			6.71	
Moisture Content (%)	31.51			33.63	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1596.45	1583.70	659.26	1580.70
Weight of Tube (g)	412.68	414.30	175.27	418.13
Weight of Wet Sample (g)	1183.77	1169.40	483.99	1162.57
Length 1 (in)	5.923	5.946	2.476	5.921
Length 2 (in)	5.923	5.948	2.486	5.903
Length 3 (in)	5.919	5.944	2.479	5.923
Top Diameter (in)	2.872	2.878	2.871	2.882
Middle Diameter (in)	2.884	2.875	2.876	2.879
Bottom Diameter (in)	2.880	2.875	2.875	2.879
Sample Volume (cm ³)	631.56	632.99	263.68	631.51
Moisture Content (%)	31.51	31.51	33.63	33.63
Unit Wet Weight (g/cm ³)	1.87	1.85	1.84	1.84
Unit Wet Weight (pcf)	116.96	115.28	114.54	114.87
Unit Dry Weight (g/cm³)	1.43	1.40	1.37	1.38
Unit Dry Weight (pcf)	88.9	87.7	85.7	86.0

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
188.7					
189.2		5			C.U., UNIT WGT.
		4			CONSOLIDATION UNIT WGT., W.C.
189.7		3		GREENISH GRAY SANDY SILT	C.U., UNIT WGT., GRAIN SIZE, HYDROMETER, LIMITS, SP. GR.
190.2		2			C.U., UNIT WGT.
190.7		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JM	Date	10/28/13	Checked By	CLK	Date	12/3/13
-----------	----	------	----------	------------	-----	------	---------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	188.0-190.7
Project No.	2013-465-001	Sample No.	ST-4
Lab ID #	2013-465-001-003	Recovery (ft)	2.7

Equipment	Equipment ID#	Calibration Due Date
Oven	G256	10/12/14
Balance	G1395	6/4/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Balance	G1047	3/25/14

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	221.0-223.7
Project No.:	2013-465-001	Shelby Tube No.:	ST-6
Lab ID:	2013-465-001-004	Recovery (ft):	2.5

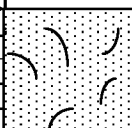

MOISTURE CONTENT

Section Number	1	2
Tare Number	2678	
Weight of Tare & Wet Sample (g)	168.82	
Weight of Tare & Dry Sample (g)	141.88	
Weight of Tare (g)	6.64	
Moisture Content (%)	19.92	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1590.51
Weight of Tube (g)	417.31
Weight of Wet Sample (g)	1173.20
Length 1 (in)	5.528
Length 2 (in)	5.558
Length 3 (in)	5.551
Top Diameter (in)	2.883
Middle Diameter (in)	2.881
Bottom Diameter (in)	2.890
Sample Volume (cm ³)	593.93
Moisture Content (%)	19.92
Unit Wet Weight (g/cm ³)	1.98
Unit Wet Weight (pcf)	123.26
Unit Dry Weight (g/cm³)	1.65
Unit Dry Weight (pcf)	102.8

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
221.7					
222.2					
222.7					
223.2		2		GRAY SILTY SAND	GRAIN SIZE, HYDROMETER, LIMITS, SP. GR., UNIT WGT.
223.7		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/6/13	Checked By	CLK	Date	11/20/13
-----------	------------	------	----------------	------------	------------	------	-----------------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	221.0-223.7
Project No.	2013-465-001	Sample No.	ST-6
Lab ID #	2013-465-001-004	Recovery (ft)	2.5

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	232.0-234.7
Project No.:	2013-465-001	Shelby Tube No.:	ST-7
Lab ID:	2013-465-001-005	Recovery (ft):	1.7

MOISTURE CONTENT

Section Number	1	2	3	4	5
Tare Number	538				573
Weight of Tare & Wet Sample (g)	205.89				275.38
Weight of Tare & Dry Sample (g)	185.49				230.12
Weight of Tare (g)	81.93				82.38
Moisture Content (%)	19.70				30.63

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1658.93	1628.58	1591.73
Weight of Tube (g)	419.73	410.19	402.45
Weight of Wet Sample (g)	1239.20	1218.39	1189.28
Length 1 (in)	5.967	5.887	5.803
Length 2 (in)	5.964	5.889	5.795
Length 3 (in)	5.969	5.884	5.800
Top Diameter (in)	2.876	2.881	2.871
Middle Diameter (in)	2.870	2.868	2.883
Bottom Diameter (in)	2.876	2.877	2.882
Sample Volume (cm ³)	634.30	626.38	618.52
Moisture Content (%)	19.70	19.70	19.70
Unit Wet Weight (g/cm ³)	1.95	1.95	1.92
Unit Wet Weight (pcf)	121.91	121.38	119.98
Unit Dry Weight (g/cm³)	1.63	1.63	1.61
Unit Dry Weight (pcf)	101.8	101.4	100.2

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
232.7					
233.2		5	→		W.C.
233.7		4	→		C.U., UNIT WGT.
234.2		3	→	GREENISH GRAY SILTY SAND	C.U., UNIT WGT., GRAIN SIZE, HYDROMETER, LIMITS, SP. GR.
234.7		2	→		C.U., UNIT WGT.
234.7		1	→		W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JM	Date	10/29/13	Checked By	CLK	Date	12/3/13
-----------	----	------	----------	------------	-----	------	---------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	232.0-234.7
Project No.	2013-465-001	Sample No.	ST-7
Lab ID #	2013-465-001-005	Recovery (ft)	1.7

Equipment	Equipment ID#	Calibration Due Date
Oven	G256	10/12/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Balance	G1395	6/4/14

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	244.5 - 246.5
Project No.:	2013-465-001	Shelby Tube No.:	ST-8
Lab ID:	2013-465-001-006	Recovery (ft):	1.6

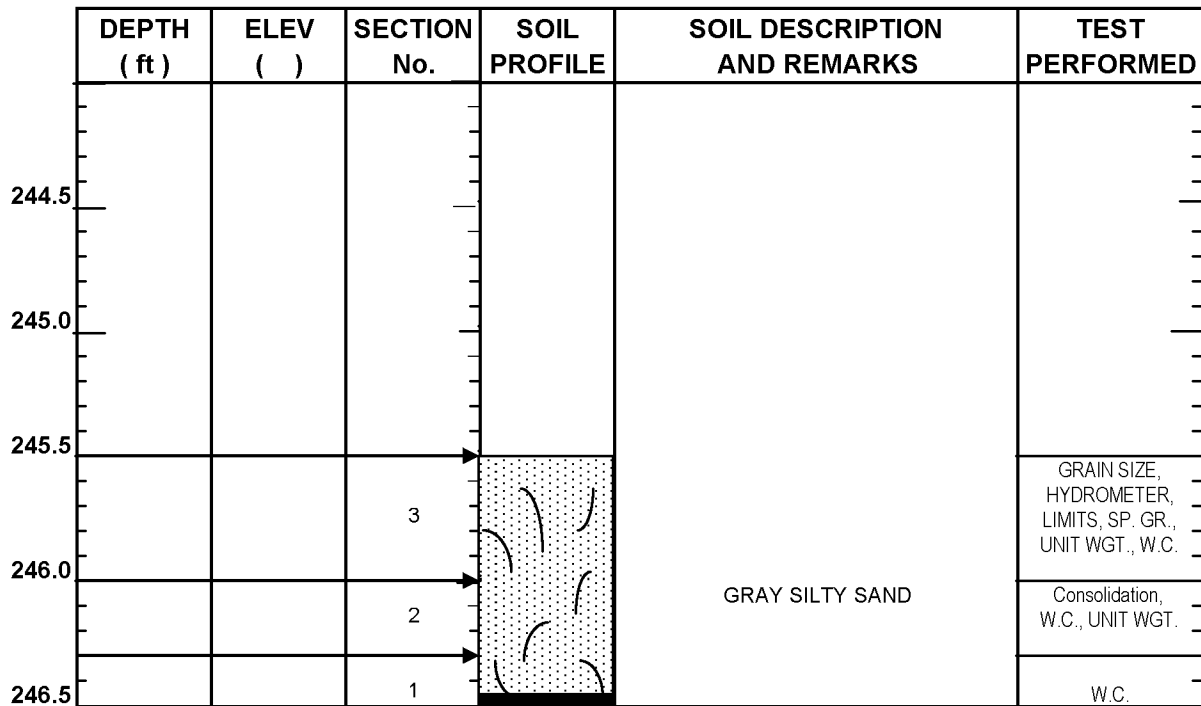
MOISTURE CONTENT

Section Number	1	2	3
Tare Number	2733	2513	2641
Weight of Tare & Wet Sample (g)	292.48	186.21	41.08
Weight of Tare & Dry Sample (g)	239.83	153.33	34.67
Weight of Tare (g)	6.75	8.45	6.67
Moisture Content (%)	22.59	22.69	22.89

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	788.31	1815.76
Weight of Tube (g)	200.43	458.49
Weight of Wet Sample (g)	587.88	1357.27
Length 1 (in)	2.773	6.419
Length 2 (in)	2.832	6.432
Length 3 (in)	2.802	6.431
Top Diameter (in)	2.868	2.869
Middle Diameter (in)	2.880	2.873
Bottom Diameter (in)	2.886	2.868
Sample Volume (cm ³)	298.74	681.37
Moisture Content (%)	22.69	22.89
Unit Wet Weight (g/cm ³)	1.97	1.99
Unit Wet Weight (pcf)	122.80	124.30
Unit Dry Weight (g/cm³)	1.60	1.62
Unit Dry Weight (pcf)	100.1	101.1

SOIL PROFILE AND SAMPLING



*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	CLK	Date	10/25/13	Checked By	KC	Date	11/25/13
-----------	-----	------	----------	------------	----	------	----------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	244.5-246.5
Project No.	2013-465-001	Sample No.	ST-8
Lab ID #	2013-465-001-006	Recovery (ft)	1.6

Equipment	Equipment ID#	Calibration Due Date
Oven	G624	11/9/13
Balance	G1393	5/13/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	255.0-257.5
Project No.:	2013-465-001	Shelby Tube No.:	ST-9
Lab ID:	2013-465-001-007	Recovery (ft):	2.2

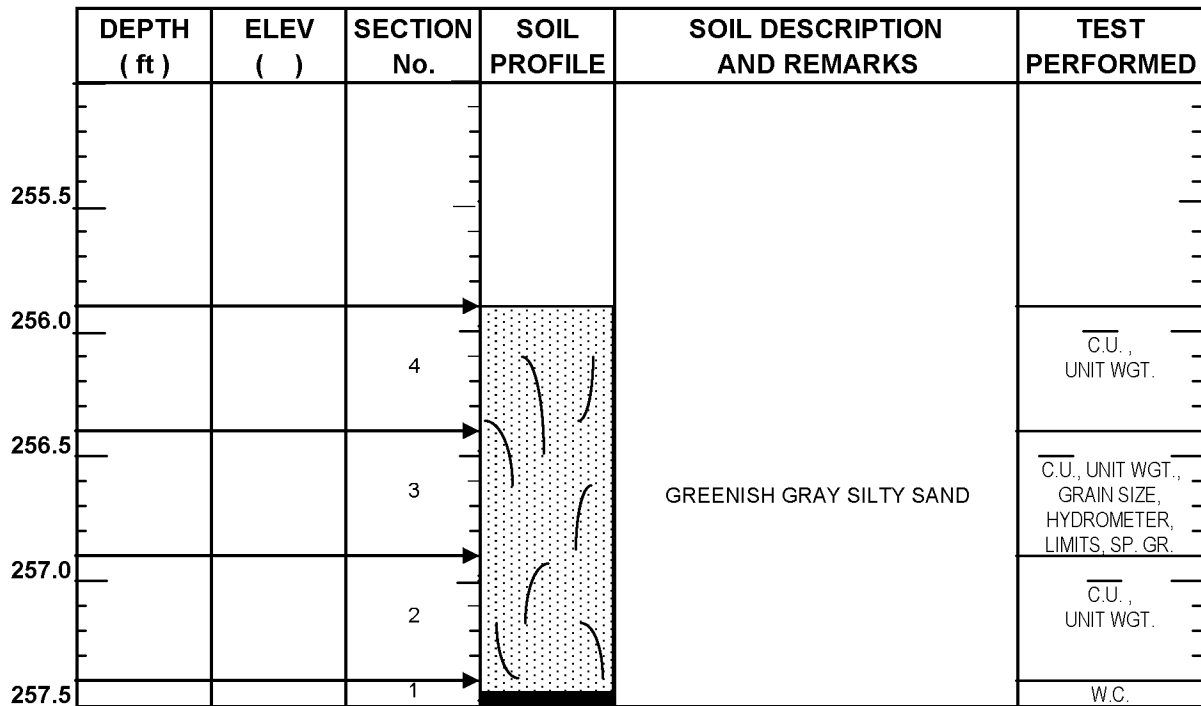
MOISTURE CONTENT

Section Number	1	2	3	4	5
Tare Number	615				
Weight of Tare & Wet Sample (g)	165.03				
Weight of Tare & Dry Sample (g)	148.69				
Weight of Tare (g)	84.20				
Moisture Content (%)	25.34				

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1639.75	1652.83	1640.71
Weight of Tube (g)	418.42	414.25	418.04
Weight of Wet Sample (g)	1221.33	1238.58	1222.67
Length 1 (in)	5.952	5.926	5.940
Length 2 (in)	5.945	5.927	5.940
Length 3 (in)	5.943	5.928	5.944
Top Diameter (in)	2.876	2.881	2.879
Middle Diameter (in)	2.878	2.878	2.873
Bottom Diameter (in)	2.880	2.883	2.875
Sample Volume (cm ³)	633.94	633.01	632.34
Moisture Content (%)	25.34	25.34	25.34
Unit Wet Weight (g/cm ³)	1.93	1.96	1.93
Unit Wet Weight (pcf)	120.22	122.09	120.65
Unit Dry Weight (g/cm³)	1.54	1.56	1.54
Unit Dry Weight (pcf)	95.9	97.4	96.3

SOIL PROFILE AND SAMPLING



*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JCM	Date	11/10/13	Checked By	CLK	Date	12/6/13
-----------	-----	------	----------	------------	-----	------	---------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	255.0-257.5
Project No.	2013-465-001	Sample No.	ST-9
Lab ID #	2013-465-001-007	Recovery (ft)	2.2

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	266.0-268.7
Project No.:	2013-465-001	Shelby Tube No.:	ST-10
Lab ID:	2013-465-001-008	Recovery (ft):	2.4

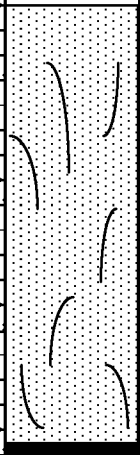
MOISTURE CONTENT

Section Number	1	2	3	4	5
Tare Number	785				2569
Weight of Tare & Wet Sample (g)	241.37				82.33
Weight of Tare & Dry Sample (g)	207.74				65.80
Weight of Tare (g)	85.30				6.67
Moisture Content (%)	27.47				27.96

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1641.62	1585.58	1617.22
Weight of Tube (g)	421.96	417.45	414.83
Weight of Wet Sample (g)	1219.66	1168.13	1202.39
Length 1 (in)	5.961	5.964	5.875
Length 2 (in)	5.953	5.949	5.868
Length 3 (in)	5.954	5.952	5.861
Top Diameter (in)	2.877	2.879	2.883
Middle Diameter (in)	2.872	2.874	2.880
Bottom Diameter (in)	2.881	2.871	2.882
Sample Volume (cm ³)	634.34	633.36	627.15
Moisture Content (%)	27.47	27.47	27.47
Unit Wet Weight (g/cm ³)	1.92	1.84	1.92
Unit Wet Weight (pcf)	119.98	115.09	119.64
Unit Dry Weight (g/cm³)	1.51	1.45	1.50
Unit Dry Weight (pcf)	94.1	90.3	93.9

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
266.7					
		5			CONSOLIDATION, W.C.
267.2		4		C.U., UNIT WGT.	
267.7		3		GRAIN SIZE, HYDROMETER, LIMITS, SP. GR., UNIT WGT., C.U.	
268.2		2		GREENISH GRAY SILTY SAND C.U., UNIT WGT.	
268.7		1		W.C.	

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JCM	Date	11/10/13	Checked By	CLK	Date	12/9/13
-----------	-----	------	----------	------------	-----	------	---------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	266.0-268.7
Project No.	2013-465-001	Sample No.	ST-10
Lab ID #	2013-465-001-008	Recovery (ft)	2.4

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	277.0-279.7
Project No.:	2013-465-001	Shelby Tube No.:	ST-11
Lab ID:	2013-465-001-009	Recovery (ft):	2.7

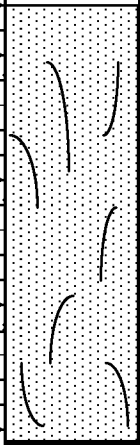
MOISTURE CONTENT

Section Number	1	2	3	4	5
Tare Number	1125				2659
Weight of Tare & Wet Sample (g)	238.65				118.05
Weight of Tare & Dry Sample (g)	202.50				92.50
Weight of Tare (g)	84.10				6.59
Moisture Content (%)	30.53				29.74

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1603.83	1621.62	1624.20
Weight of Tube (g)	410.61	416.45	415.96
Weight of Wet Sample (g)	1193.22	1205.17	1208.24
Length 1 (in)	5.871	5.967	5.935
Length 2 (in)	5.895	5.956	5.952
Length 3 (in)	5.875	5.920	5.957
Top Diameter (in)	2.877	2.879	2.880
Middle Diameter (in)	2.884	2.887	2.884
Bottom Diameter (in)	2.871	2.872	2.883
Sample Volume (cm ³)	626.58	634.63	635.99
Moisture Content (%)	30.53	30.53	30.53
Unit Wet Weight (g/cm ³)	1.90	1.90	1.90
Unit Wet Weight (pcf)	118.83	118.50	118.55
Unit Dry Weight (g/cm³)	1.46	1.45	1.46
Unit Dry Weight (pcf)	91.0	90.8	90.8

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
277.7					
		5			CONSOLIDATION W.C.
278.2		4		GREENISH GRAY SANDY SILT	C.U., UNIT WGT., GRAIN SIZE, HYDROMETER, LIMITS, SP. GR.
278.7		3			C.U., UNIT WGT.
279.2		2			C.U., UNIT WGT.
279.7		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JCM	Date	11/17/13	Checked By	CLK	Date	12/6/13
-----------	-----	------	----------	------------	-----	------	---------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	277.0-279.7
Project No.	2013-465-001	Sample No.	ST-11
Lab ID #	2013-465-001-009	Recovery (ft)	2.7

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	288.0-290.2
Project No.:	2013-465-001	Shelby Tube No.:	ST-12
Lab ID:	2013-465-001-010	Recovery (ft):	1.85

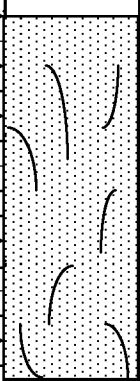
MOISTURE CONTENT

Section Number	1	2
Tare Number	2652	2668
Weight of Tare & Wet Sample (g)	295.43	135.34
Weight of Tare & Dry Sample (g)	237.03	110.46
Weight of Tare (g)	6.68	6.79
Moisture Content (%)	25.35	24.00

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	599.31
Weight of Tube (g)	157.34
Weight of Wet Sample (g)	441.97
Length 1 (in)	2.176
Length 2 (in)	2.174
Length 3 (in)	2.192
Top Diameter (in)	2.872
Middle Diameter (in)	2.865
Bottom Diameter (in)	2.873
Sample Volume (cm ³)	231.18
Moisture Content (%)	24.00
Unit Wet Weight (g/cm ³)	1.91
Unit Wet Weight (pcf)	119.30
Unit Dry Weight (g/cm³)	1.54
Unit Dry Weight (pcf)	96.2

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
288.2					
288.7		5			SP. GR.
		4			GRAIN SIZE (ADDITIONAL MATERIAL)
289.2		3			GRAIN SIZE, HYDROMETER, LIMITS
289.7		2			CONSOLIDATION, UNIT WGT., W.C.
290.2		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	DB	Date	10/25/13	Checked By	CLK	Date	11/25/13
-----------	----	------	----------	------------	-----	------	----------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	288.0-290.2
Project No.	2013-465-001	Sample No.	ST-12
Lab ID #	2013-465-001-010	Recovery (ft)	1.85

Equipment	Equipment ID#	Calibration Due Date
Oven	G624	11/9/13
Balance	G1393	5/13/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	298.0-300.7
Project No.:	2013-465-001	Shelby Tube No.:	ST-13
Lab ID:	2013-465-001-011	Recovery (ft):	2.7

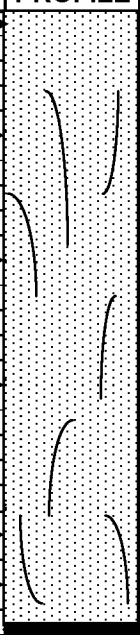
MOISTURE CONTENT

Section Number	1	2	3	4	5
Tare Number	2717	2541			
Weight of Tare & Wet Sample (g)	214.96	130.28			
Weight of Tare & Dry Sample (g)	171.83	105.74			
Weight of Tare (g)	6.79	6.88			
Moisture Content (%)	26.13	24.82			

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	656.00	1948.67	1672.08	1682.14
Weight of Tube (g)	164.03	501.67	413.23	411.76
Weight of Wet Sample (g)	491.97	1447.00	1258.85	1270.38
Length 1 (in)	2.389	6.965	5.914	5.972
Length 2 (in)	2.384	6.957	5.918	5.945
Length 3 (in)	2.375	6.956	5.918	5.963
Top Diameter (in)	2.888	2.887	2.877	2.877
Middle Diameter (in)	2.875	2.881	2.881	2.868
Bottom Diameter (in)	2.871	2.879	2.870	2.867
Sample Volume (cm ³)	254.00	744.13	629.86	632.12
Moisture Content (%)	24.82	24.82	26.95	26.95
Unit Wet Weight (g/cm ³)	1.94	1.94	2.00	2.01
Unit Wet Weight (pcf)	120.86	121.34	124.71	125.41
Unit Dry Weight (g/cm³)	1.55	1.56	1.57	1.58
Unit Dry Weight (pcf)	96.8	97.2	98.2	98.8

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
					W.C.
298.7		6			C.U., UNIT WGT.
299.2		5		C.U., UNIT WGT.	
299.7		4		C.U., UNIT WGT.	
300.2		3		GRAY SILTY SAND	UNIT WGT., GRAIN SIZE, HYDROMETER, LIMITS, SP. GR.
		2		CONSOLIDATION, UNIT WGT., W.C.	
300.7		1		W.C.	

*Note: When full recovery is not achieved, the elevation can not be accurately defined
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By DB/JCM	Date 10/28/13	Checked By CLK	Date 12/10/13
-------------------------	----------------------	-----------------------	----------------------

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	298.0-300.7
Project No.:	2013-465-001	Shelby Tube No.:	ST-13
Lab ID:	2013-465-001-011	Recovery (ft):	2.7

MOISTURE CONTENT

Section Number	6	7	8	9	10
Tare Number		785			
Weight of Tare & Wet Sample (g)		279.70			
Weight of Tare & Dry Sample (g)		238.44			
Weight of Tare (g)		85.34			
Moisture Content (%)		26.95			

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1635.67
Weight of Tube (g)	407.77
Weight of Wet Sample (g)	1227.90
Length 1 (in)	5.873
Length 2 (in)	5.885
Length 3 (in)	5.881
Top Diameter (in)	2.881
Middle Diameter (in)	2.872
Bottom Diameter (in)	2.884
Sample Volume (cm ³)	627.23
Moisture Content (%)	26.95
Unit Wet Weight (g/cm ³)	1.96
Unit Wet Weight (pcf)	122.16
Unit Dry Weight (g/cm³)	1.54
Unit Dry Weight (pcf)	96.2

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
		7			W.C.
298.7		6			C.U., UNIT WGT.
299.2		5			C.U., UNIT WGT.
299.7		4			C.U., UNIT WGT.
300.2		3		GRAY SILTY SAND	UNIT WGT., GRAIN SIZE, HYDROMETER, LIMITS, SP. GR.
		2			CONSOLIDATION, UNIT WGT.
300.7		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By DB/JCM	Date 10/28/13	Checked By CLK	Date 12/10/13
-------------------------	----------------------	-----------------------	----------------------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	298.0-300.7
Project No.	2013-465-001	Sample No.	ST-13
Lab ID #	2013-465-001-011	Recovery (ft)	2.7

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	309.0-311.2
Project No.:	2013-465-001	Shelby Tube No.:	ST-14
Lab ID:	2013-465-001-012	Recovery (ft):	2.2

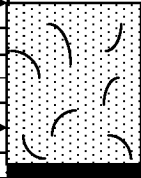

MOISTURE CONTENT

Section Number	1	2
Tare Number	2636	
Weight of Tare & Wet Sample (g)	177.86	
Weight of Tare & Dry Sample (g)	141.24	
Weight of Tare (g)	6.71	
Moisture Content (%)	27.22	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1777.22
Weight of Tube (g)	472.60
Weight of Wet Sample (g)	1304.62
Length 1 (in)	6.526
Length 2 (in)	6.546
Length 3 (in)	6.529
Top Diameter (in)	2.886
Middle Diameter (in)	2.881
Bottom Diameter (in)	2.877
Sample Volume (cm ³)	698.13
Moisture Content (%)	27.22
Unit Wet Weight (g/cm ³)	1.87
Unit Wet Weight (pcf)	116.61
Unit Dry Weight (g/cm³)	1.47
Unit Dry Weight (pcf)	91.7

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
309.2					
309.7					
310.2					
310.7		2		GRAY SILTY SAND	GRAIN SIZE, HYDROMETER, LIMITS, SP. GR., UNIT WGT.
311.2		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/6/13	Checked By	CLK	Date	11/25/13
-----------	------------	------	---------	------------	-----	------	----------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	309.0-311.2
Project No.	2013-465-001	Sample No.	ST-14
Lab ID #	2013-465-001-012	Recovery (ft)	2.2

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT

ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	319.7-322.2
Project No.:	2013-465-001	Shelby Tube No.:	ST-16
Lab ID:	2013-465-001-013	Recovery (ft):	1.9

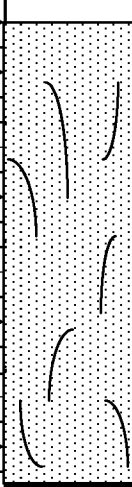
MOISTURE CONTENT

Section Number	1	2
Tare Number	2725	
Weight of Tare & Wet Sample (g)	191.98	
Weight of Tare & Dry Sample (g)	155.79	
Weight of Tare (g)	6.73	
Moisture Content (%)	24.28	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1647.09	1614.54	1624.78
Weight of Tube (g)	408.16	405.35	414.61
Weight of Wet Sample (g)	1238.93	1209.19	1210.17
Length 1 (in)	5.808	5.814	5.883
Length 2 (in)	5.882	5.812	5.897
Length 3 (in)	5.817	5.811	5.897
Top Diameter (in)	2.867	2.872	2.879
Middle Diameter (in)	2.884	2.874	2.875
Bottom Diameter (in)	2.871	2.871	2.874
Sample Volume (cm ³)	620.38	617.18	627.27
Moisture Content (%)	24.28	24.28	24.28
Unit Wet Weight (g/cm ³)	2.00	1.96	1.93
Unit Wet Weight (pcf)	124.62	122.26	120.39
Unit Dry Weight (g/cm³)	1.61	1.58	1.55
Unit Dry Weight (pcf)	100.3	98.4	96.9

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
320.2				TOP OF MATERIAL	
		5		GRAY POORLY GRADED SAND WITH SILT	GRAIN SIZE, HYDROMETER
320.7		4		C.U., UNIT WGT.	
321.2		3		C.U., UNIT WGT.	
321.7		2		C.U., UNIT WGT., SP. GR., LIMITS	
322.2		1		W.C.	

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/21/13	Checked By	CLK	Date	12/11/13
-----------	-----	------	----------	------------	-----	------	----------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	319.7-322.2
Project No.	2013-465-001	Sample No.	ST-16
Lab ID #	2013-465-001-013	Recovery (ft)	1.9

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	328.0-330.4
Project No.:	2013-465-001	Shelby Tube No.:	ST-17
Lab ID:	2013-465-001-014	Recovery (ft):	2.2

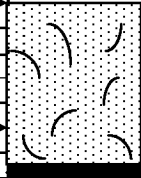

MOISTURE CONTENT

Section Number	1	2
Tare Number	2755	
Weight of Tare & Wet Sample (g)	214.84	
Weight of Tare & Dry Sample (g)	172.33	
Weight of Tare (g)	6.65	
Moisture Content (%)	25.66	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1735.87
Weight of Tube (g)	441.37
Weight of Wet Sample (g)	1294.50
Length 1 (in)	6.226
Length 2 (in)	6.216
Length 3 (in)	6.211
Top Diameter (in)	2.885
Middle Diameter (in)	2.883
Bottom Diameter (in)	2.881
Sample Volume (cm ³)	665.13
Moisture Content (%)	25.66
Unit Wet Weight (g/cm ³)	1.95
Unit Wet Weight (pcf)	121.44
Unit Dry Weight (g/cm³)	1.55
Unit Dry Weight (pcf)	96.6

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
328.4					
328.9					
329.4					
329.9		2		GRAY POORLY GRADED SAND WITH SILT	GRAIN SIZE, HYDROMETER, LIMITS, UNIT WGT.
330.4		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/7/13	Checked By	CLK	Date	11/25/13
-----------	------------	------	----------------	------------	------------	------	-----------------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	328.0-330.4
Project No.	2013-465-001	Sample No.	ST-17
Lab ID #	2013-465-001-014	Recovery (ft)	2.2

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	337.0-339.0
Project No.:	2013-465-001	Shelby Tube No.:	ST-18
Lab ID:	2013-465-001-015	Recovery (ft):	1.7

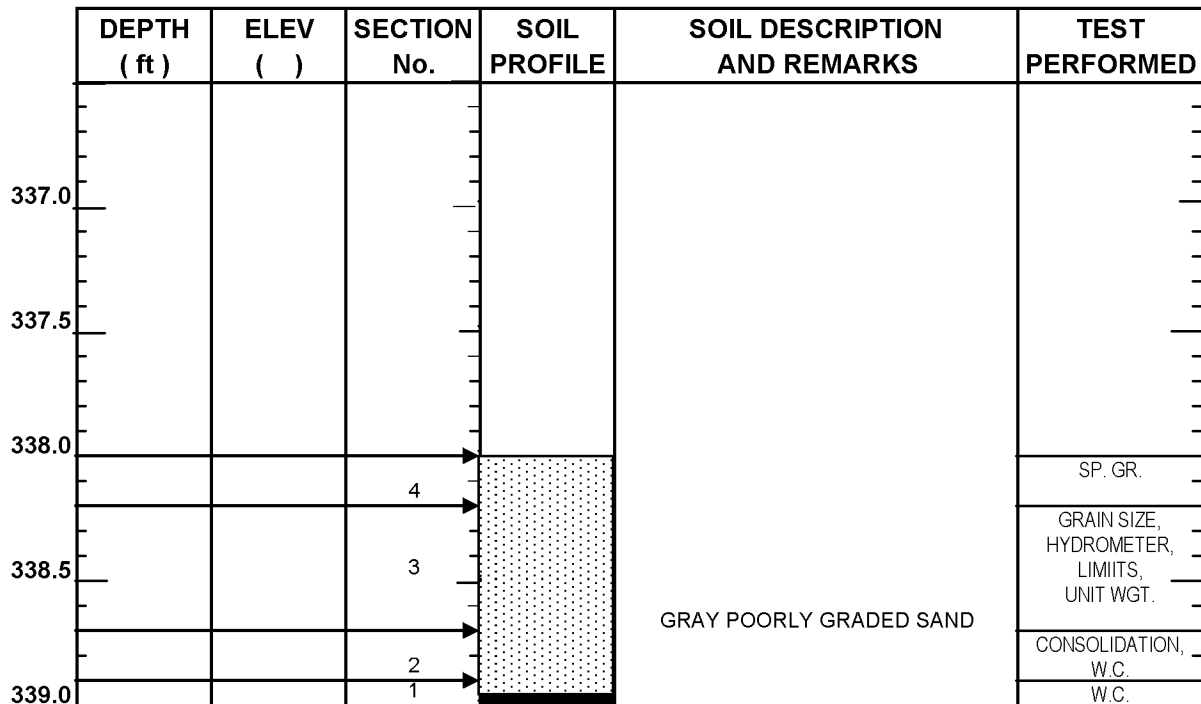
MOISTURE CONTENT

Section Number	1	2	3
Tare Number	2759	2726	
Weight of Tare & Wet Sample (g)	34.57	157.09	
Weight of Tare & Dry Sample (g)	28.97	128.02	
Weight of Tare (g)	6.62	6.72	
Moisture Content (%)	25.06	23.97	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1134.51
Weight of Tube (g)	0.00
Weight of Wet Sample (g)	1134.51
Length 1 (in)	5.713
Length 2 (in)	5.702
Length 3 (in)	5.711
Top Diameter (in)	2.887
Middle Diameter (in)	2.890
Bottom Diameter (in)	2.881
Sample Volume (cm ³)	611.95
Moisture Content (%)	23.97
Unit Wet Weight (g/cm ³)	1.85
Unit Wet Weight (pcf)	115.68
Unit Dry Weight (g/cm³)	1.50
Unit Dry Weight (pcf)	93.3

SOIL PROFILE AND SAMPLING



*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/5/13	Checked By	CLK	Date	11/25/13
-----------	-----	------	---------	------------	-----	------	----------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	337.0-339.0
Project No.	2013-465-001	Sample No.	ST-18
Lab ID #	2013-465-001-015	Recovery (ft)	1.7

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	345.0-347.0
Project No.:	2013-465-001	Shelby Tube No.:	ST-19
Lab ID:	2013-465-001-016	Recovery (ft):	1.5

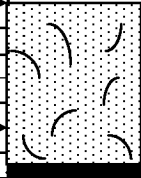

MOISTURE CONTENT

Section Number	1
Tare Number	2543
Weight of Tare & Wet Sample (g)	243.75
Weight of Tare & Dry Sample (g)	195.27
Weight of Tare (g)	6.82
Moisture Content (%)	25.73

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1756.71
Weight of Tube (g)	456.15
Weight of Wet Sample (g)	1300.56
Length 1 (in)	6.394
Length 2 (in)	6.343
Length 3 (in)	6.351
Top Diameter (in)	2.880
Middle Diameter (in)	2.884
Bottom Diameter (in)	2.879
Sample Volume (cm ³)	679.70
Moisture Content (%)	25.73
Unit Wet Weight (g/cm ³)	1.91
Unit Wet Weight (pcf)	119.40
Unit Dry Weight (g/cm³)	1.52
Unit Dry Weight (pcf)	95.0

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
345.0					
345.5					
346.0					
346.5		2		GRAY POORLY GRADED SAND WITH SILT	GRAIN SIZE, HYDROMETER, LIMITS, UNIT WGT.
347.0		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/7/13	Checked By	CLK	Date	11/25/13
-----------	------------	------	----------------	------------	------------	------	-----------------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	345.0-347.0
Project No.	2013-465-001	Sample No.	ST-19
Lab ID #	2013-465-001-016	Recovery (ft)	1.5

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	354.0-356.0
Project No.:	2013-465-001	Shelby Tube No.:	ST-20
Lab ID:	2013-465-001-017	Recovery (ft):	1.5

MOISTURE CONTENT

<i>Section Number</i>	1	2	3	4	5
Tare Number	1706				
Weight of Tare & Wet Sample (g)	132.62				
Weight of Tare & Dry Sample (g)	122.68				
Weight of Tare (g)	82.80				
Moisture Content (%)	24.92				

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1613.08	1612.50	1419.54
Weight of Tube (g)	404.83	405.08	294.66
Weight of Wet Sample (g)	1208.25	1207.42	1124.88
Length 1 (in)	5.812	5.808	5.530
Length 2 (in)	5.822	5.812	5.538
Length 3 (in)	5.827	5.807	5.515
Top Diameter (in)	2.877	2.876	2.873
Middle Diameter (in)	2.883	2.881	2.875
Bottom Diameter (in)	2.876	2.877	2.877
Sample Volume (cm ³)	620.76	619.26	588.04
Moisture Content (%)	0.00	0.00	0.00
Unit Wet Weight (g/cm ³)	1.95	1.95	1.91
Unit Wet Weight (pcf)	121.46	121.67	119.37
Unit Dry Weight (g/cm³)	1.95	1.95	1.91
Unit Dry Weight (pcf)	121.5	121.7	119.4

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
354.0				TOP OF MATERIAL	
354.5		4			C.U., UNIT WGT.
355.0		3			GRAIN SIZE, HYDROMETER, SP. GR., LIMITS, UNIT WGT, C.U.
355.5		2		GREENISH GRAY POORLY GRADED SAND WITH SILT	C.U., UNIT WGT.
356.0		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By JCM	Date 11/23/13	Checked By CLK	Date 12/10/13
----------------------	----------------------	-----------------------	----------------------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	354.0-356.0
Project No.	2013-465-001	Sample No.	ST-20
Lab ID #	2013-465-001-017	Recovery (ft)	1.5

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	372.0-374.5
Project No.:	2013-465-001	Shelby Tube No.:	ST-22
Lab ID:	2013-465-001-018	Recovery (ft):	1.7

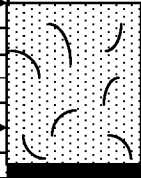

MOISTURE CONTENT

Section Number	1
Tare Number	2748
Weight of Tare & Wet Sample (g)	165.88
Weight of Tare & Dry Sample (g)	132.99
Weight of Tare (g)	6.60
Moisture Content (%)	26.02

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1810.47
Weight of Tube (g)	472.70
Weight of Wet Sample (g)	1337.77
Length 1 (in)	6.579
Length 2 (in)	6.581
Length 3 (in)	6.577
Top Diameter (in)	2.884
Middle Diameter (in)	2.881
Bottom Diameter (in)	2.888
Sample Volume (cm ³)	704.44
Moisture Content (%)	26.02
Unit Wet Weight (g/cm ³)	1.90
Unit Wet Weight (pcf)	118.50
Unit Dry Weight (g/cm³)	1.51
Unit Dry Weight (pcf)	94.0

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
372.5					
373.0					
373.5					
374.0		2		GRAY POORLY GRADED SAND WITH SILT	GRAIN SIZE, HYDROMETER, LIMITS, UNIT WGT.
374.5		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/7/13	Checked By	CLK	Date	11/25/13
-----------	------------	------	----------------	------------	------------	------	-----------------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	372.0-374.5
Project No.	2013-465-001	Sample No.	ST-22
Lab ID #	2013-465-001-018	Recovery (ft)	1.7

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	390.0-392.5
Project No.:	2013-465-001	Shelby Tube No.:	ST-23
Lab ID:	2013-465-001-019	Recovery (ft):	2.5

MOISTURE CONTENT

<i>Section Number</i>	1	2	3	4	5
Tare Number	1126				
Weight of Tare & Wet Sample (g)	182.10				
Weight of Tare & Dry Sample (g)	161.54				
Weight of Tare (g)	84.87				
Moisture Content (%)	26.82				

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1557.30	1637.42	1672.34
Weight of Tube (g)	405.21	414.42	417.37
Weight of Wet Sample (g)	1152.09	1223.00	1254.97
Length 1 (in)	5.817	5.927	5.964
Length 2 (in)	5.806	5.923	5.961
Length 3 (in)	5.805	5.925	5.964
Top Diameter (in)	2.883	2.875	2.871
Middle Diameter (in)	2.873	2.877	2.882
Bottom Diameter (in)	2.881	2.881	2.887
Sample Volume (cm ³)	619.73	631.48	636.56
Moisture Content (%)	26.82	26.82	26.82
Unit Wet Weight (g/cm ³)	1.86	1.94	1.97
Unit Wet Weight (pcf)	116.00	120.85	123.02
Unit Dry Weight (g/cm³)	1.47	1.53	1.55
Unit Dry Weight (pcf)	91.5	95.3	97.0

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
390.5					
		5	→		CONSOLIDATION
391.0		4	→		C.U., UNIT WGT.
391.5		3	→	GREENISH GRAY SILTY SAND	C.U., UNIT WGT.
392.0		2	→		C.U., UNIT WGT., GRAIN SIZE, HYDROMETER, LIMITS, SP. GR.
392.5		1	→		W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By JCM	Date 11/18/13	Checked By CLK	Date 12/6/13
----------------------	----------------------	-----------------------	---------------------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	390.0-392.5
Project No.	2013-465-001	Sample No.	ST-23
Lab ID #	2013-465-001-019	Recovery (ft)	2.5

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1047	3/25/14
Calipers	G1123	12/13/13
Pi Tape	G1121	1/14/14
Balance	NA	NA

SHELBY TUBE UNIT WEIGHT
 ASTM D2937-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-7-1
Client Reference:	Turkey Point Units 6 & 7 Site	Depth Pushed (ft):	436.0-437.5
Project No.:	2013-465-001	Shelby Tube No.:	ST-25
Lab ID:	2013-465-001-020	Recovery (ft):	1.1

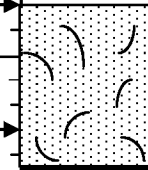

MOISTURE CONTENT

Section Number	1	2
Tare Number	2755	
Weight of Tare & Wet Sample (g)	119.80	
Weight of Tare & Dry Sample (g)	92.66	
Weight of Tare (g)	6.73	
Moisture Content (%)	31.58	

UNIT WEIGHT

Weight of Tube & Wet Sample (g)	1899.83
Weight of Tube (g)	500.40
Weight of Wet Sample (g)	1399.43
Length 1 (in)	6.989
Length 2 (in)	6.978
Length 3 (in)	6.981
Top Diameter (in)	2.882
Middle Diameter (in)	2.879
Bottom Diameter (in)	2.884
Sample Volume (cm ³)	746.28
Moisture Content (%)	31.58
Unit Wet Weight (g/cm ³)	1.88
Unit Wet Weight (pcf)	117.01
Unit Dry Weight (g/cm³)	1.43
Unit Dry Weight (pcf)	88.9

SOIL PROFILE AND SAMPLING

DEPTH (ft)	ELEV ()	SECTION No.	SOIL PROFILE	SOIL DESCRIPTION AND REMARKS	TEST PERFORMED
435.5					
436.0					
436.5					
437.0		2		GRAY POORLY GRADED SAND WITH SILT	GRAIN SIZE, HYDROMETER, LIMITS, SP. GR., UNIT WGT.
437.5		1			W.C.

*Note: When full recovery is not achieved, the elevation can not be accurately defined.
 Indicate each cut of the tube with an arrow
 Indicate dividing line between soil types with a solid line
 Indicate wax by cross-hatching. Indicate soil types by standard symbols*

Tested By	JAM	Date	11/7/13	Checked By	CLK	Date	11/25/13
-----------	------------	------	---------	------------	-----	------	----------

Shelby Tube Unit Weight

ASTM D2937-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-7-1
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	436.0-437.5
Project No.	2013-465-001	Sample No.	ST-25
Lab ID #	2013-465-001-020	Recovery (ft)	1.1

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/16/14
Balance	G1394	5/15/14
Calipers	G1122	12/3/13
Pi Tape	NA	NA
Balance	NA	NA

SPECIFIC GRAVITY

ASTM D 854-10

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	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)		747.5	737.83
Temperature (°C)		26.3	25.8
Weight of Pycnometer + Water (g)		684.94	675.29
Tare Number		692	2333
Weight of Tare + Dry Soil (g)		195.86	198.83
Weight of Tare (g)		94.97	97.81
Weight of Dry Soil (g)		100.89	101.02
Specific Gravity of Soil @ Measured Temperature		2.632	2.625
Specific Gravity of Water @ Measured Temperature		0.99671	0.99684
Conversion Factor for Measured Temperature		0.99850	0.99864
Specific Gravity @ 20° Celsius		2.636	2.629

Average Specific Gravity @ 20° Celsius 2.63

Tested By TO Date 11/18/13 Checked By KC Date 11/19/13

SPECIFIC GRAVITY

ASTM D 854-10

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	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-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	Visual Description:	Greenish Gray Silt

(Minus No.4 sieve material, oven dried)

Replicate Number	1		2
Pycnometer ID	G 1255		G 1403
Weight of Pycnometer + Soil + Water (g)	735.15		723.9
Temperature (°C)	25.5		24.3
Weight of Pycnometer + Water (g)	685.04		675.49
Tare Number	958		1681
Weight of Tare + Dry Soil (g)	179.57		177.39
Weight of Tare (g)	99.05		99.76
Weight of Dry Soil (g)	80.52		77.63
Specific Gravity of Soil @ Measured Temperature	2.648		2.657
Specific Gravity of Water @ Measured Temperature	0.99692		0.99723
Conversion Factor for Measured Temperature	0.99871		0.99902
Specific Gravity @ 20° Celsius	2.651		2.660

Average Specific Gravity @ 20° Celsius	2.66
--	------

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-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	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

SPECIFIC GRAVITY

ASTM D 854-10

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	Visual Description:	Gray Silt

(Minus No.4 sieve material, oven dried)

Replicate Number	1	2
Pycnometer ID	G 1255	G 1403
Weight of Pycnometer + Soil + Water (g)	747.14	738.32
Temperature (°C)	26.1	25.0
Weight of Pycnometer + Water (g)	684.96	675.40
Tare Number	656	679
Weight of Tare + Dry Soil (g)	195.33	198.11
Weight of Tare (g)	95.42	96.73
Weight of Dry Soil (g)	99.91	101.38
Specific Gravity of Soil @ Measured Temperature	2.648	2.636
Specific Gravity of Water @ Measured Temperature	0.99677	0.99705
Conversion Factor for Measured Temperature	0.99856	0.99884
Specific Gravity @ 20° Celsius	2.652	2.639

Average Specific Gravity @ 20° Celsius	2.65
---	-------------

Tested By TO Date 11/14/13 Checked By KC Date 11/15/13

SPECIFIC GRAVITY

ASTM D 854-10

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	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-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	Visual Description:	Greenish Gray Silt (Minus No.4 sieve material, oven dried)

Replicate Number	1	2
Pycnometer ID	G 1255	G 1403
Weight of Pycnometer + Soil + Water (g)	731.98	723.39
Temperature (°C)	25.1	24.8
Weight of Pycnometer + Water (g)	685.09	675.42
Tare Number	924	649
Weight of Tare + Dry Soil (g)	176.77	174.24
Weight of Tare (g)	100.82	96.83
Weight of Dry Soil (g)	75.95	77.41
Specific Gravity of Soil @ Measured Temperature	2.613	2.629
Specific Gravity of Water @ Measured Temperature	0.99703	0.99710
Conversion Factor for Measured Temperature	0.99882	0.99889
Specific Gravity @ 20° Celsius	2.616	2.632

Average Specific Gravity @ 20° Celsius	2.62
--	------

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-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	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

SPECIFIC GRAVITY

ASTM D 854-10

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	Visual Description:	Gray Silt

(Minus No.4 sieve material, oven dried)

Replicate Number	1	2
Pycnometer ID	G 1255	G 1403
Weight of Pycnometer + Soil + Water (g)	747.75	739.05
Temperature (°C)	25.8	25.1
Weight of Pycnometer + Water (g)	685.00	675.39
Tare Number	928	2327
Weight of Tare + Dry Soil (g)	203.85	199.62
Weight of Tare (g)	102.66	97.09
Weight of Dry Soil (g)	101.19	102.53
Specific Gravity of Soil @ Measured Temperature	2.632	2.638
Specific Gravity of Water @ Measured Temperature	0.99684	0.99703
Conversion Factor for Measured Temperature	0.99864	0.99882
Specific Gravity @ 20° Celsius	2.636	2.641

Average Specific Gravity @ 20° Celsius	2.64
---	-------------

Tested By TO Date 11/14/13 Checked By KC Date 11/15/13

SPECIFIC GRAVITY

ASTM D 854-10

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	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-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	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)		748.19	737.79
Temperature (°C)		26.0	25.1
Weight of Pycnometer + Water (g)		684.98	675.39
Tare Number		960	1465
Weight of Tare + Dry Soil (g)		200.86	199.37
Weight of Tare (g)		99.17	98.71
Weight of Dry Soil (g)		101.69	100.66
Specific Gravity of Soil @ Measured Temperature		2.643	2.631
Specific Gravity of Water @ Measured Temperature		0.99679	0.99703
Conversion Factor for Measured Temperature		0.99858	0.99882
Specific Gravity @ 20° Celsius		2.647	2.634

Average Specific Gravity @ 20° Celsius	2.64
--	------

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-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	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

SPECIFIC GRAVITY

ASTM D 854-10

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	Visual Description:	Greenish Gray Silt

(Minus No.4 sieve material, oven dried)

Replicate Number	1	2
Pycnometer ID	G 1255	G 1403
Weight of Pycnometer + Soil + Water (g)	748.27	738.81
Temperature (°C)	24.0	23.5
Weight of Pycnometer + Water (g)	685.23	675.58
Tare Number	924	649
Weight of Tare + Dry Soil (g)	202.57	198.74
Weight of Tare (g)	100.87	96.94
Weight of Dry Soil (g)	101.70	101.80
Specific Gravity of Soil @ Measured Temperature	2.630	2.639
Specific Gravity of Water @ Measured Temperature	0.99730	0.99742
Conversion Factor for Measured Temperature	0.99909	0.99922
Specific Gravity @ 20° Celsius	2.633	2.641

Average Specific Gravity @ 20° Celsius	2.64
--	------

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-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	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-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	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)	748.78	738.83
Temperature (°C)	25.6	25.6
Weight of Pycnometer + Water (g)	685.03	675.32
Tare Number	889	675
Weight of Tare + Dry Soil (g)	204.51	199.24
Weight of Tare (g)	102.28	97.6
Weight of Dry Soil (g)	102.23	101.64
Specific Gravity of Soil @ Measured Temperature	2.657	2.666
Specific Gravity of Water @ Measured Temperature	0.99690	0.99690
Conversion Factor for Measured Temperature	0.99869	0.99869
Specific Gravity @ 20° Celsius	2.660	2.669

Average Specific Gravity @ 20° Celsius	2.66
--	------

Tested By TO Date 11/14/13 Checked By KC Date 11/15/13

SPECIFIC GRAVITY

ASTM D 854-10

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	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-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	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)	747.56		738.17
Temperature (°C)	24.7		24.5
Weight of Pycnometer + Water (g)	685.15		675.46
Tare Number	1681		1678
Weight of Tare + Dry Soil (g)	200.14		189.9
Weight of Tare (g)	99.72		89.01
Weight of Dry Soil (g)	100.42		100.89
Specific Gravity of Soil @ Measured Temperature	2.642		2.642
Specific Gravity of Water @ Measured Temperature	0.99713		0.99718
Conversion Factor for Measured Temperature	0.99892		0.99897
Specific Gravity @ 20° Celsius	2.645		2.645

Average Specific Gravity @ 20° Celsius 2.65

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-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	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-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	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)		747.16		737.1
Temperature (°C)		24.9		24.7
Weight of Pycnometer + Water (g)		685.12		675.44
Tare Number		633		679
Weight of Tare + Dry Soil (g)		196.97		196.14
Weight of Tare (g)		96.99		96.77
Weight of Dry Soil (g)		99.98		99.37
Specific Gravity of Soil @ Measured Temperature		2.635		2.635
Specific Gravity of Water @ Measured Temperature		0.99708		0.99713
Conversion Factor for Measured Temperature		0.99887		0.99892
Specific Gravity @ 20° Celsius		2.638		2.638

Average Specific Gravity @ 20° Celsius	2.64
--	------

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-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	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-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	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)	747.75	737.33
Temperature (°C)	23.9	23.6
Weight of Pycnometer + Water (g)	685.24	675.57
Tare Number	973	694
Weight of Tare + Dry Soil (g)	202.21	194.35
Weight of Tare (g)	102.03	94.98
Weight of Dry Soil (g)	100.18	99.37
Specific Gravity of Soil @ Measured Temperature	2.659	2.642
Specific Gravity of Water @ Measured Temperature	0.99733	0.99740
Conversion Factor for Measured Temperature	0.99912	0.99919
Specific Gravity @ 20° Celsius	2.661	2.644

Average Specific Gravity @ 20° Celsius 2.65

Tested By TO Date 11/21/13 Checked By KC Date 11/22/13

SPECIFIC GRAVITY

ASTM D 854-10

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	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-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	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)		747.59	737.28
Temperature (°C)		25.9	25.4
Weight of Pycnometer + Water (g)		684.99	675.35
Tare Number		947	2324
Weight of Tare + Dry Soil (g)		202.04	199.24
Weight of Tare (g)		100.72	98.7
Weight of Dry Soil (g)		101.32	100.54
Specific Gravity of Soil @ Measured Temperature		2.617	2.604
Specific Gravity of Water @ Measured Temperature		0.99682	0.99695
Conversion Factor for Measured Temperature		0.99861	0.99874
Specific Gravity @ 20° Celsius		2.620	2.607

Average Specific Gravity @ 20° Celsius 2.61

Tested By TO Date 12/4/13 Checked By KC Date 12/5/13

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-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	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-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	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)	747.15	738.72
Temperature (°C)	27.2	26.4
Weight of Pycnometer + Water (g)	684.81	675.21
Tare Number	1614	672
Weight of Tare + Dry Soil (g)	195.7	200.14
Weight of Tare (g)	94.99	97.36
Weight of Dry Soil (g)	100.71	102.78
Specific Gravity of Soil @ Measured Temperature	2.624	2.617
Specific Gravity of Water @ Measured Temperature	0.99647	0.99669
Conversion Factor for Measured Temperature	0.99826	0.99848
Specific Gravity @ 20° Celsius	2.629	2.621

Average Specific Gravity @ 20° Celsius	2.62
--	------

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-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	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

SPECIFIC GRAVITY

ASTM D 854-10

Client:	Paul C. Rizzo & Associates	Boring No.:	R-6-1b
Client Reference:	Turkey Point Units 6 & 7 Site	Depth (ft):	357.0-357.5
Project No.:	2013-465-001	Sample No.:	ST-66
Lab ID:	2013-465-001-037	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)	747.23	737.54
Temperature (°C)	25.8	25.4
Weight of Pycnometer + Water (g)	685.00	675.35
Tare Number	952	516
Weight of Tare + Dry Soil (g)	203.36	193.02
Weight of Tare (g)	102.72	92.44
Weight of Dry Soil (g)	100.64	100.58
Specific Gravity of Soil @ Measured Temperature	2.620	2.620
Specific Gravity of Water @ Measured Temperature	0.99684	0.99695
Conversion Factor for Measured Temperature	0.99864	0.99874
Specific Gravity @ 20° Celsius	2.623	2.623

Average Specific Gravity @ 20° Celsius 2.62

Tested By TO Date 11/18/13 Checked By KC Date 11/19/13

SPECIFIC GRAVITY

ASTM D 854-10

EQUIPMENT LIST

Client	Paul C. Rizzo & Associates	Boring No.	R-6-1b
Client Reference	Turkey Point Units 6 & 7 Site	Depth (ft)	357.0-357.5
Project No.	2013-465-001	Sample No.	ST-66
Lab ID #	2013-465-001-037		

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-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	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)	747.7	738.46
Temperature (°C)	25.3	25.0
Weight of Pycnometer + Water (g)	685.07	675.40
Tare Number	633	1321
Weight of Tare + Dry Soil (g)	198.13	199.78
Weight of Tare (g)	96.89	97.66
Weight of Dry Soil (g)	101.24	102.12
Specific Gravity of Soil @ Measured Temperature	2.622	2.615
Specific Gravity of Water @ Measured Temperature	0.99698	0.99705
Conversion Factor for Measured Temperature	0.99877	0.99884
Specific Gravity @ 20° Celsius	2.625	2.618

Average Specific Gravity @ 20° Celsius	2.62
--	------

Tested By TO Date 11/14/13 Checked By KC Date 11/15/13

SPECIFIC GRAVITY

ASTM D 854-10

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	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-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	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)	747.47		737.33
Temperature (°C)	26.1		25.5
Weight of Pycnometer + Water (g)	684.96		675.33
Tare Number	694		973
Weight of Tare + Dry Soil (g)	196.24		202.52
Weight of Tare (g)	94.96		102.03
Weight of Dry Soil (g)	101.28		100.49
Specific Gravity of Soil @ Measured Temperature	2.612		2.611
Specific Gravity of Water @ Measured Temperature	0.99677		0.99692
Conversion Factor for Measured Temperature	0.99856		0.99871
Specific Gravity @ 20° Celsius	2.616		2.614

Average Specific Gravity @ 20° Celsius 2.61
--

Tested By TO Date 11/18/13 Checked By KC Date 11/19/13

SPECIFIC GRAVITY

ASTM D 854-10

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	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-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	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)		742.43	733.84
Temperature (°C)		24.3	24.0
Weight of Pycnometer + Water (g)		685.20	675.52
Tare Number		697	976
Weight of Tare + Dry Soil (g)		191.84	196.12
Weight of Tare (g)		98.79	101.32
Weight of Dry Soil (g)		93.05	94.80
Specific Gravity of Soil @ Measured Temperature		2.598	2.598
Specific Gravity of Water @ Measured Temperature		0.99723	0.99730
Conversion Factor for Measured Temperature		0.99902	0.99909
Specific Gravity @ 20° Celsius		2.601	2.601

Average Specific Gravity @ 20° Celsius 2.60

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-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	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-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	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)		746.47	735.45
Temperature (°C)		26.0	25.4
Weight of Pycnometer + Water (g)		684.98	675.35
Tare Number		1092	697
Weight of Tare + Dry Soil (g)		199.73	196.27
Weight of Tare (g)		100.14	98.84
Weight of Dry Soil (g)		99.59	97.43
Specific Gravity of Soil @ Measured Temperature		2.614	2.610
Specific Gravity of Water @ Measured Temperature		0.99679	0.99695
Conversion Factor for Measured Temperature		0.99858	0.99874
Specific Gravity @ 20° Celsius		2.618	2.613

Average Specific Gravity @ 20° Celsius	2.62
--	------

Tested By TO Date 11/18/13 Checked By KC Date 11/19/13

SPECIFIC GRAVITY

ASTM D 854-10

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	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):	138.1-138.6
Project No.:	2013-465-001	Sample No.:	ST-1
Lab ID:	2013-465-001-001	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)	748.76	738.63
Temperature (°C)	23.5	23.4
Weight of Pycnometer + Water (g)	685.29	675.60
Tare Number	973	1681
Weight of Tare + Dry Soil (g)	204.5	200.82
Weight of Tare (g)	102.09	99.56
Weight of Dry Soil (g)	102.41	101.26
Specific Gravity of Soil @ Measured Temperature	2.630	2.649
Specific Gravity of Water @ Measured Temperature	0.99742	0.99745
Conversion Factor for Measured Temperature	0.99922	0.99924
Specific Gravity @ 20° Celsius	2.632	2.651

Average Specific Gravity @ 20° Celsius	2.64
--	------

Tested By TO Date 12/9/13 Checked By KC Date 12/10/13

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)	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	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):	159.6-160.7
Project No.:	2013-465-001	Sample No.:	ST-2
Lab ID:	2013-465-001-002	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)	745.25	735.32
Temperature (°C)	25.6	25.0
Weight of Pycnometer + Water (g)	685.03	675.40
Tare Number	672	950
Weight of Tare + Dry Soil (g)	194.26	196.77
Weight of Tare (g)	97.34	100.34
Weight of Dry Soil (g)	96.92	96.43
Specific Gravity of Soil @ Measured Temperature	2.641	2.641
Specific Gravity of Water @ Measured Temperature	0.99690	0.99705
Conversion Factor for Measured Temperature	0.99869	0.99884
Specific Gravity @ 20° Celsius	2.644	2.644

Average Specific Gravity @ 20° Celsius 2.64

Tested By TO Date 11/19/13 Checked By KC Date 11/20/13

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)	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	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):	189.6-190.1
Project No.:	2013-465-001	Sample No.:	ST-4
Lab ID:	2013-465-001-003	Visual Description:	Greenish Gray Silt

(Minus No.4 sieve material, oven dried)

Replicate Number	1	2
Pycnometer ID	G 1255	G 1403
Weight of Pycnometer + Soil + Water (g)	735.12	724.23
Temperature (°C)	24.4	23.8
Weight of Pycnometer + Water (g)	685.18	675.55
Tare Number	633	2324
Weight of Tare + Dry Soil (g)	177.57	177.95
Weight of Tare (g)	97.16	98.98
Weight of Dry Soil (g)	80.41	78.97
Specific Gravity of Soil @ Measured Temperature	2.639	2.607
Specific Gravity of Water @ Measured Temperature	0.99720	0.99735
Conversion Factor for Measured Temperature	0.99900	0.99914
Specific Gravity @ 20° Celsius	2.641	2.610

Average Specific Gravity @ 20° Celsius	2.63
--	------

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

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)	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	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):	223.1-223.6
Project No.:	2013-465-001	Sample No.:	ST-6
Lab ID:	2013-465-001-004	Visual Description:	Gray Silt

(Minus No.4 sieve material, oven dried)

Replicate Number		1	2
Pycnometer ID	G	1406	G 1503
Weight of Pycnometer + Soil + Water (g)		732.9	725.5
Temperature (°C)		24.2	24.1
Weight of Pycnometer + Water (g)		675.22	663.96
Tare Number		1436	1443
Weight of Tare + Dry Soil (g)		235.82	243.01
Weight of Tare (g)		144.4	145.13
Weight of Dry Soil (g)		91.42	97.88
Specific Gravity of Soil @ Measured Temperature		2.710	2.693
Specific Gravity of Water @ Measured Temperature		0.99725	0.99728
Conversion Factor for Measured Temperature		0.99905	0.99907
Specific Gravity @ 20° Celsius		2.712	2.696

Average Specific Gravity @ 20° Celsius	2.70
--	------

Tested By DB Date 11/8/13 Checked By KC Date 11/11/13

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)	221.0-223.7
Project No.	2013-465-001	Sample No.	ST-6
Lab ID #	2013-465-001-004		

Equipment	Equipment ID#	Calibration Due Date
Oven	G1387	8/6/14
Balance	G550	7/19/14
#4 Sieve	G025	8/20/14
Pycnometer	G1406	Initial Only
Pycnometer	G1503	Initial Only
Thermometer	G1082	11/23/13
Vacuum Pump	G1502	9/18/14

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):	233.6-234.1
Project No.:	2013-465-001	Sample No.:	ST-7
Lab ID:	2013-465-001-005	Visual Description:	Greenish Gray Silt

(Minus No.4 sieve material, oven dried)

Replicate Number	1	2
Pycnometer ID	G 1255	G 1403
Weight of Pycnometer + Soil + Water (g)	748.38	738.35
Temperature (°C)	26.4	25.8
Weight of Pycnometer + Water (g)	684.92	675.29
Tare Number	685	1614
Weight of Tare + Dry Soil (g)	199.45	196.38
Weight of Tare (g)	97.41	94.98
Weight of Dry Soil (g)	102.04	101.40
Specific Gravity of Soil @ Measured Temperature	2.645	2.644
Specific Gravity of Water @ Measured Temperature	0.99669	0.99684
Conversion Factor for Measured Temperature	0.99848	0.99864
Specific Gravity @ 20° Celsius	2.649	2.648

Average Specific Gravity @ 20° Celsius	2.65
--	------

Tested By TO Date 11/6/13 Checked By KC Date 11/11/13

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)	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	G1396	12/13/13
Balance	G1057	11/5/14
#4 Sieve	G082	9/13/14
Pycnometer	G1255	Initial Only
Pycnometer	G1403	Initial Only
Thermometer	G1505	10/22/14
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):	245.5-246.0
Project No.:	2013-465-001	Sample No.:	ST-8
Lab ID:	2013-465-001-006	Visual Description:	Light 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)		747.76	738.45
Temperature (°C)		25.9	25.8
Weight of Pycnometer + Water (g)		684.99	675.29
Tare Number		969	1920
Weight of Tare + Dry Soil (g)		202.92	200.28
Weight of Tare (g)		101.42	98.48
Weight of Dry Soil (g)		101.50	101.80
Specific Gravity of Soil @ Measured Temperature		2.621	2.634
Specific Gravity of Water @ Measured Temperature		0.99682	0.99684
Conversion Factor for Measured Temperature		0.99861	0.99864
Specific Gravity @ 20° Celsius		2.624	2.638

Average Specific Gravity @ 20° Celsius	2.63
--	------

Tested By TO Date 11/6/13 Checked By KC Date 11/11/13

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)	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	G1118	11/27/13
Balance	G1057	11/5/14
#4 Sieve	G082	9/13/14
Pycnometer	G1255	Initial Only
Pycnometer	G1403	Initial Only
Thermometer	G1505	10/22/14
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):	256.4-256.9
Project No.:	2013-465-001	Sample No.:	ST-9
Lab ID:	2013-465-001-007	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)	747.53	737.72
Temperature (°C)	26.3	26.0
Weight of Pycnometer + Water (g)	684.94	675.27
Tare Number	520	949
Weight of Tare + Dry Soil (g)	194.87	199.47
Weight of Tare (g)	94.03	98.81
Weight of Dry Soil (g)	100.84	100.66
Specific Gravity of Soil @ Measured Temperature	2.637	2.635
Specific Gravity of Water @ Measured Temperature	0.99671	0.99679
Conversion Factor for Measured Temperature	0.99850	0.99858
Specific Gravity @ 20° Celsius	2.640	2.638

Average Specific Gravity @ 20° Celsius	2.64
--	------

Tested By TO Date 11/18/13 Checked By KC Date 11/19/13

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)	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	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):	267.6-268.1
Project No.:	2013-465-001	Sample No.:	ST-10
Lab ID:	2013-465-001-008	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)	745.39	735.72
Temperature (°C)	25.3	25.0
Weight of Pycnometer + Water (g)	685.07	675.40
Tare Number	1465	1920
Weight of Tare + Dry Soil (g)	195.17	194.99
Weight of Tare (g)	98.7	98.22
Weight of Dry Soil (g)	96.47	96.77
Specific Gravity of Soil @ Measured Temperature	2.669	2.655
Specific Gravity of Water @ Measured Temperature	0.99698	0.99705
Conversion Factor for Measured Temperature	0.99877	0.99884
Specific Gravity @ 20° Celsius	2.672	2.658

Average Specific Gravity @ 20° Celsius	2.67
--	------

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

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)	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	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):	278.1-278.6
Project No.:	2013-465-001	Sample No.:	ST-11
Lab ID:	2013-465-001-009	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)		747.99	737.48
Temperature (°C)		23.2	23.0
Weight of Pycnometer + Water (g)		685.33	675.64
Tare Number		2327	964
Weight of Tare + Dry Soil (g)		197.25	201.46
Weight of Tare (g)		96.27	101.54
Weight of Dry Soil (g)		100.98	99.92
Specific Gravity of Soil @ Measured Temperature		2.635	2.624
Specific Gravity of Water @ Measured Temperature		0.99750	0.99754
Conversion Factor for Measured Temperature		0.99929	0.99934
Specific Gravity @ 20° Celsius		2.637	2.625

Average Specific Gravity @ 20° Celsius 2.63

Tested By TO Date 11/26/13 Checked By KC Date 11/27/13

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)	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	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):	288.7-288.9
Project No.:	2013-465-001	Sample No.:	ST-12
Lab ID:	2013-465-001-010	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)		748.14	738.06
Temperature (°C)		22.8	22.7
Weight of Pycnometer + Water (g)		685.38	675.68
Tare Number		672	1614
Weight of Tare + Dry Soil (g)		197.99	195.01
Weight of Tare (g)		97.33	94.99
Weight of Dry Soil (g)		100.66	100.02
Specific Gravity of Soil @ Measured Temperature		2.656	2.657
Specific Gravity of Water @ Measured Temperature		0.99759	0.99761
Conversion Factor for Measured Temperature		0.99938	0.99941
Specific Gravity @ 20° Celsius		2.658	2.659

Average Specific Gravity @ 20° Celsius	2.66
--	------

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)	288.7-288.9
Project No.	2013-465-001	Sample No.	ST-12
Lab ID #	2013-465-001-010		

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):	299.7-300.3
Project No.:	2013-465-001	Sample No.:	ST-13
Lab ID:	2013-465-001-011	Visual Description:	Gray Silty Sand

(Minus No.4 sieve material, oven dried)

Replicate Number	1	2
Pycnometer ID	G 1406	G 1503
Weight of Pycnometer + Soil + Water (g)	756.3	749
Temperature (°C)	25.6	25.5
Weight of Pycnometer + Water (g)	675.04	663.78
Tare Number	1423	1429
Weight of Tare + Dry Soil (g)	274.06	282.05
Weight of Tare (g)	143.99	144.88
Weight of Dry Soil (g)	130.07	137.17
Specific Gravity of Soil @ Measured Temperature	2.665	2.640
Specific Gravity of Water @ Measured Temperature	0.99690	0.99692
Conversion Factor for Measured Temperature	0.99869	0.99871
Specific Gravity @ 20° Celsius	2.668	2.644

Average Specific Gravity @ 20° Celsius	2.66
--	------

Tested By DB Date 11/8/13 Checked By KC Date 11/11/13

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)	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	8/6/14
Balance	G550	7/19/14
#4 Sieve	G025	8/20/14
Pycnometer	G1406	Initial Only
Pycnometer	G1503	Initial Only
Thermometer	G1082	11/23/13
Vacuum Pump	G1502	9/18/14

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):	310.5-311.0
Project No.:	2013-465-001	Sample No.:	ST-14
Lab ID:	2013-465-001-012	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)	747.83	737.86
Temperature (°C)	25.8	25.3
Weight of Pycnometer + Water (g)	685.00	675.36
Tare Number	708	694
Weight of Tare + Dry Soil (g)	199.69	196.28
Weight of Tare (g)	98.09	94.99
Weight of Dry Soil (g)	101.60	101.29
Specific Gravity of Soil @ Measured Temperature	2.620	2.611
Specific Gravity of Water @ Measured Temperature	0.99684	0.99698
Conversion Factor for Measured Temperature	0.99864	0.99877
Specific Gravity @ 20° Celsius	2.624	2.614

Average Specific Gravity @ 20° Celsius	2.62
--	------

Tested By TO Date 11/14/13 Checked By KC Date 11/15/13

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)	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	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