DRILL HOLE LOG

BORING NO. 08-P4-B1

PROJECT: I-15 UTAH CO. CORRIDOR - P4, I-15 OVER PROVO RIVER

CLIENT: UTAH DEPARTMENT OF TRANSPORTATION

LOCATION: N:258,000 E:587,890

DRILLING METHOD: 96-CME-55 / N.W. CASING TO 40'

DRILLER: L. HILER

DEPTH TO WATER - INITIAL: ▽ 18.0' **AFTER 24 HOURS:** ▼ 15.8'

PROJECT NUMBER: 200801.200

DATE STARTED: 8/21/08

DATE COMPLETED: 8/27/08

GROUND ELEVATION: 4540.9'

LOGGED BY: J.P., M.H., J.B.

Elev. (ft)	Depth (ft)	Lithology	Sample Type	Sample Rec. (in)	Sample See Legend	Sample USCS (AASHTO)	Material Description		Dry Density (pcf)	Moisture Content (%)	Atter. Liquid Limit	Atter. Plast. Index	Gradation Gravel (%)	Gradation Sand (%)	Gradation Silt/Clay (%)	Other Tests
4540			■	15	7,12,17,(61)	SM (*A-1-b*)	brown, dry, very dense	SILTY SAND W/GRAVEL possible cobbles (fill)		1.7		NP	36	51	14	
4535	5		■	10	10,16,19,(73)	SM	brown, very moist, very dense									
4530	10		■	0	8,8,6,(24)	-	no recovery									
			■	0	3,3,4,(11)	-	no recovery									
4525	15 ▼		■	4	16,16,15,(41)	GP-GM/GM	brown, wet, med. dense	GRAVEL W/SILT & SAND TO SILTY GRAVEL W/SAND possible cobbles								
4520	20 ▽		▬	2	30/3",(REF)	GP-GM/GM	brown, wet, very dense									
4515	25		■	17	2,5,5,(12) *0.50*	CL-ML (*A-4(5)*)	brown to gray, very moist, firm to stiff	SILTY CLAY W/SAND		28.8	28	7	4	15	81	14% -0.005 mm
4510	30		■	14	1,3,3,(7) *0.25*	ML (*A-4(2)*)	gray, wet, soft			32.5	27	4	5	20	75	14% -0.005 mm
4505	35		⊠	18	Pushed *0.35*	ML (*A-4(0)*)	gray, wet, firm	SILT W/SAND plastic	98.5	25.8	23	2	0	15	85	CT CU
4500	40		■	10	0/18",(0) *0.25*	ML	gray, wet, soft to firm									
4495	45		⊠	18	Pushed	ML SM (*A-2-4(0)*)	gray, wet gray, wet	SILTY SAND	103.0	18.2		NP	0	74	26	UU
								SANDY SILT sand & clay layers to 1" thick								

DH_LOGV1 08-P4.GPJ US EVAL.GDT 5/28/09

RB&G ENGINEERING, INC.

LEGEND:

DISTURBED SAMPLE ■ 2,3,2,(6) ← Blow Count per 6"; ← $(N_1)_{60}$ Value; *0.45* ← Torvane (tsf)

UNDISTURBED SAMPLE ⊠ PUSHED *0.45* ← Torvane (tsf)

OTHER TESTS
UC = Unconfined Compression
CT = Consolidation
DS = Direct Shear
UU = Unconsolidated, Undrained
CU = Consolidated, Undrained
HYD = Hydrometer
SS = Soluble Salt
DC = Dispersive Clay

DRILL HOLE LOG

BORING NO. 08-P4-B1

PROJECT: I-15 UTAH CO. CORRIDOR - P4, I-15 OVER PROVO RIVER
CLIENT: UTAH DEPARTMENT OF TRANSPORTATION
LOCATION: N:258,000 E:587,890
DRILLING METHOD: 96-CME-55 / N.W. CASING TO 40'
DRILLER: L. HILER
DEPTH TO WATER - INITIAL: ▽ 18.0' **AFTER 24 HOURS:** ▼ 15.8'

PROJECT NUMBER: 200801.200
DATE STARTED: 8/21/08
DATE COMPLETED: 8/27/08
GROUND ELEVATION: 4540.9'
LOGGED BY: J.P., M.H., J.B.

Elev. (ft)	Depth (ft)	Lithology	Sample Type	Sample Rec. (in)	Sample See Legend	Sample USCS (AASHTO)	Material Description		Dry Density (pcf)	Moisture Content (%)	Atter. Liquid Limit	Atter. Plast. Index	Gradation Gravel (%)	Gradation Sand (%)	Gradation Silt/Clay (%)	Other Tests
4490			■	15	9,6,13,(19)	ML (A-4(0))	gray, wet, med. dense	SANDY SILT sand & clay layers to 1" thick		27.0	20	1	0	38	62	14% -0.005 mm
4485	55		■	16	3,5,7,(11) 0.45	CL-ML	gray, very moist, firm	SILTY CLAY W/SAND silt lenses								
4480	60		⊠	18	Pushed 0.75	CL-ML (A-4(4))	gray, moist, stiff		95.0	24.4	25	6	0	15	85	CT UU
4475	65		■	18	0/12",3,(3) 0.25	CL (A-6(22))	gray, moist, soft to firm	LEAN CLAY silt lenses		38.2	40	21	0	2	98	
4470	70		⊠	5	Pushed	CL SM	gray, moist / gray, wet	SILTY SAND								
4465	75		■	6	18,10,11,(18)	ML	gray, wet, stiff	SANDY SILT low plasticity, clay layers to 2" thick								
4460	80		■	14	10,13,17,(25)	ML (A-4(0))	gray, wet, stiff			23.0	19	2	0	31	69	15% -0.005 mm
4455	85		⊠	18	Pushed 0.60	CL-ML (A-4(6))	gray, moist, stiff	SILTY CLAY	99.6	23.5	27	7	0	2	98	CT UC
4450	90		■	17	0,4,7,(9) 0.52	CL	gray, moist, stiff	LEAN CLAY angled silt lenses								
4445	95		⊠	18	Pushed 0.62	CL (A-6(13))	gray, moist, stiff		96.2	25.1	32	14	0	6	94	CT UU

DH_LOGV1 08-P4.GPJ US EVAL.GDT 5/28/09

RB&G ENGINEERING, INC.

LEGEND:

DISTURBED SAMPLE ■ 2,3,2,(6) ← Blow Count per 6"; ← $(N_1)_{60}$ Value; 0.45 ← Torvane (tsf)

UNDISTURBED SAMPLE ⊠ PUSHED 0.45 ← Torvane (tsf)

OTHER TESTS
UC = Unconfined Compression
CT = Consolidation
DS = Direct Shear
UU = Unconsolidated, Undrained
CU = Consolidated, Undrained
HYD = Hydrometer
SS = Soluble Salt
DC = Dispersive Clay

DRILL HOLE LOG

BORING NO. 08-P4-B1

PROJECT: I-15 UTAH CO. CORRIDOR - P4, I-15 OVER PROVO RIVER

CLIENT: UTAH DEPARTMENT OF TRANSPORTATION

LOCATION: N:258,000 E:587,890

DRILLING METHOD: 96-CME-55 / N.W. CASING TO 40'

DRILLER: L. HILER

DEPTH TO WATER - INITIAL: ▽ 18.0' **AFTER 24 HOURS:** ▼ 15.8'

PROJECT NUMBER: 200801.200

DATE STARTED: 8/21/08

DATE COMPLETED: 8/27/08

GROUND ELEVATION: 4540.9'

LOGGED BY: J.P., M.H., J.B.

Elev. (ft)	Depth (ft)	Lithology	Sample Type	Sample Rec. (in)	Sample See Legend	USCS (AASHTO)	Material Description	Dry Density (pcf)	Moisture Content (%)	Atter. Liquid Limit	Atter. Plast. Index	Gradation Gravel (%)	Gradation Sand (%)	Gradation Silt/Clay (%)	Other Tests
4440			■	16	4,8,9,(13) *0.58*	CL	gray, moist, stiff								
							LEAN CLAY angled silt lenses								
4435	105														
4430	110						POSSIBLE GRAVELS (driller's observation) artesian w/15' head								
4425	115		■	18	8,14,14,(20) *0.50*	CL (*A-6(8)*)	gray, moist, firm to stiff — LEAN CLAY W/SAND sand layers to 3" thick		27.2	28	12	0	16	84	
4420	120		⊠	0	Pushed	-	no recovery								
4415	125		⊠	12	Pushed	ML (*A-4(0)*)	brown, wet — SILT W/SAND angled sand lenses	98.0	18.5		NP	0	18	82	CT
4410	130						SANDY LEAN CLAY sand lenses								
4405	135		⊠	13	Pushed	CL (*A-6(3)*)		95.7	23.5	27	11	0	49	51	UU
						SM/ML	gray, wet — SILTY SAND TO SANDY SILT								
4400	140														
4395	145														

DH_LOGV1 08-P4.GPJ US EVAL.GDT 5/28/09

RB&G ENGINEERING, INC.

LEGEND:

DISTURBED SAMPLE ■ 2,3,2,(6) ← Blow Count per 6"; ← $(N_1)_{60}$ Value; *0.45* ← Torvane (tsf)

UNDISTURBED SAMPLE ⊠ PUSHED; *0.45* ← Torvane (tsf)

OTHER TESTS
UC = Unconfined Compression
CT = Consolidation
DS = Direct Shear
UU = Unconsolidated, Undrained
CU = Consolidated, Undrained
HYD = Hydrometer
SS = Soluble Salt
DC = Dispersive Clay

DRILL HOLE LOG

BORING NO. 08-P4-B2

PROJECT: I-15 UTAH CO. CORRIDOR - P4, I-15 OVER PROVO RIVER
CLIENT: UTAH DEPARTMENT OF TRANSPORTATION
LOCATION: N:258,114 E:587,796
DRILLING METHOD: CME-75 / N.W. CASING TO 29.5'
DRILLER: D. BEDKE
DEPTH TO WATER - INITIAL: ▽ 17.0' **AFTER 24 HOURS:** ▼ N.M.

PROJECT NUMBER: 200801.200
DATE STARTED: 8/25/08
DATE COMPLETED: 8/26/08
GROUND ELEVATION: 4539.5'
LOGGED BY: G.P., M.H., J.B.

Elev. (ft)	Depth (ft)	Lithology	Sample Type	Sample Rec. (in)	Sample See Legend	Sample USCS (AASHTO)	Material Description		Dry Density (pcf)	Moisture Content (%)	Atter. Liquid Limit	Atter. Plast. Index	Gradation Gravel (%)	Gradation Sand (%)	Gradation Silt/Clay (%)	Other Tests
			■	12	1,2,3,(12)	SM (*A-2-4(0)*)	black to lt. brown, moist, med. dense	SILTY SAND (fill)		13.1		NP	10	69	22	
4535	5		■	0	7,6,5,(26)	-	no recovery									
4530	10		■	6	6,8,7,(27)	GM	brown, very moist, med. dense									
4525	15		■	8	24,24,30,(79)	GM (*A-1-a*)	brown, wet, dense	SILTY GRAVEL W/SAND possible cobbles		7.4		NP	49	39	12	
4520	20		■	2	9,10,11,(28)	GM	brown, wet, med. dense									
4515	25		■	0	11,13,6,(24)	-	no recovery									
4510	30		■	14	2,3,5,(10)	CL-ML (*A-4(2)*)	dk. gray, wet, firm	SILTY CLAY W/SAND		30.9	25	4	0	21	79	14% -0.005 mm
4505	35		⊠	18	Pushed *0.27*	ML (*A-4(1)*)	dk. gray, moist, firm	SILT W/SAND plastic	94.4	27.0	27	3	0	22	78	CU
4500	40		■	18	0/12",1,(1) *0.22*	CL	gray, moist, soft	LEAN CLAY W/SAND								
4495	45		⊠	15	Pushed	CL (*A-6(8)*)	gray, moist		88.8	27.0	31	12	0	20	80	CT UU
			■	13	5,15,19,(35)	SM SM	gray, wet gray, wet, dense	SILTY SAND								
4490																

DH_LOGV1 08-P4.GPJ US EVAL.GDT 5/28/09

LEGEND:

DISTURBED SAMPLE ■ 2,3,2,(6) ← Blow Count per 6"; ← $(N_1)_{60}$ Value; *0.45* ← Torvane (tsf)

UNDISTURBED SAMPLE ⊠ PUSHED *0.45* ← Torvane (tsf)

OTHER TESTS
UC = Unconfined Compression
CT = Consolidation
DS = Direct Shear
UU = Unconsolidated, Undrained
CU = Consolidated, Undrained
HYD = Hydrometer
SS = Soluble Salt
DC = Dispersive Clay

RB&G ENGINEERING, INC.

DRILL HOLE LOG

BORING NO. 08-P4-B2

PROJECT: I-15 UTAH CO. CORRIDOR - P4, I-15 OVER PROVO RIVER
CLIENT: UTAH DEPARTMENT OF TRANSPORTATION
LOCATION: N:258,114 E:587,796
DRILLING METHOD: CME-75 / N.W. CASING TO 29.5'
DRILLER: D. BEDKE
DEPTH TO WATER - INITIAL: ▽ 17.0' **AFTER 24 HOURS:** ▼ N.M.

PROJECT NUMBER: 200801.200
DATE STARTED: 8/25/08
DATE COMPLETED: 8/26/08
GROUND ELEVATION: 4539.5'
LOGGED BY: G.P., M.H., J.B.

Elev. (ft)	Depth (ft)	Lithology	Sample Type	Sample Rec. (in)	Sample See Legend	USCS (AASHTO)	Material Description	Dry Density (pcf)	Moisture Content (%)	Atter. Liquid Limit	Atter. Plast. Index	Gradation Gravel (%)	Gradation Sand (%)	Gradation Silt/Clay (%)	Other Tests
			■	17	3,4,4,(8) *0.19*	CL (*A-4(6)*)	gray, very moist, soft — LEAN CLAY silt lenses		29.8	28	7	0	3	97	23% -0.005 mm
4485	55		☒	12	Pushed	ML (*A-4(0)*)	SANDY SILT — gray, wet		19.7		NP	0	34	66	
			■	6	5,7,6,(13)	SM (*A-4(0)*)	gray, wet — gray, wet, med. dense — SILTY SAND		20.6		NP	0	62	38	
4480	60		■	18	0,3,4,(7) *0.36*	CL-ML	gray, moist, firm — SILTY CLAY W/SAND sand lenses & layers to 1" thick								
4475	65		☒	12	Pushed	CL-ML (*A-4(1)*)	gray, moist, firm	100.3	22.5	23	4	0	27	73	CT
4470	70		■	15	23,32,37,(62)	SM	gray, wet, very dense — SILTY SAND								
4465	75		■	18	21,28,37,(56)	SM (*A-2-4(0)*)	gray, wet, very dense		21.7		NP	0	78	22	
4460	80		■	14	2,6,6,(10) *0.47*	CL	gray, moist, firm — LEAN CLAY occasional sand lenses & layers to 1" thick								
4455	85		☒	12	Pushed *0.87*	CL (*A-6(16)*)	gray, moist, stiff	93.8	26.6	33	16	0	1	99	CT UU
4450	90		■	18	3,5,7,(10) *0.35*	CL	gray, moist, firm — LEAN CLAY angled silt lenses & layers to 0.25" thick								
4445	95		☒	18	Pushed *0.40*	CL (*A-4(8)*)	gray, moist, firm	94.7	27.6	28	9	0	5	95	UC
4440															

DH_LOGV1 08-P4.GPJ US EVAL.GDT 5/28/09

RB&G ENGINEERING, INC.

LEGEND:

DISTURBED SAMPLE ■ 2,3,2,(6) — Blow Count per 6"; $(N_1)_{60}$ Value
0.45 — Torvane (tsf)

UNDISTURBED SAMPLE ☒ PUSHED *0.45* — Torvane (tsf)

OTHER TESTS
UC = Unconfined Compression
CT = Consolidation
DS = Direct Shear
UU = Unconsolidated, Undrained
CU = Consolidated, Undrained
HYD = Hydrometer
SS = Soluble Salt
DC = Dispersive Clay

DRILL HOLE LOG

BORING NO. 08-P4-B2

PROJECT: I-15 UTAH CO. CORRIDOR - P4, I-15 OVER PROVO RIVER
CLIENT: UTAH DEPARTMENT OF TRANSPORTATION
LOCATION: N:258,114 E:587,796
DRILLING METHOD: CME-75 / N.W. CASING TO 29.5'
DRILLER: D. BEDKE
DEPTH TO WATER - INITIAL: ▽ 17.0' **AFTER 24 HOURS:** ▼ N.M.

PROJECT NUMBER: 200801.200
DATE STARTED: 8/25/08
DATE COMPLETED: 8/26/08
GROUND ELEVATION: 4539.5'
LOGGED BY: G.P., M.H., J.B.

Elev. (ft)	Depth (ft)	Lithology	Sample Type	Sample Rec. (in)	Sample See Legend	Sample USCS (AASHTO)	Material Description		Dry Density (pcf)	Moisture Content (%)	Atter. Liquid Limit	Atter. Plast. Index	Gradation Gravel (%)	Gradation Sand (%)	Gradation Silt/Clay (%)	Other Tests
			■	18	5,9,11,(15) *0.40*	CL	gray, moist, firm									
4435	105							LEAN CLAY angled silt lenses & layers to 0.25" thick								
4430	110		⊠	18	Pushed *0.72*	CL (*A-4(8)*)	gray, moist, stiff		90.3	30.3	27	10	0	4	96	CT UU
4425	115		■	18	13,15,18,(24) *0.10*	CL-ML	gray, very moist/wet, soft/med. dense									
4420	120		⊠	15	Pushed *0.46*	CL-ML (*A-4(3)*)	gray, very moist/wet, firm	SILTY CLAY interbedded w/silty sand, lean clay & sandy silt layers 0.5" to 2" thick		24.4	22	5	0	4	96	
4415	125		■	18	0/12",9,(6) *0.32*	CL	dk. gray, moist, firm	LEAN CLAY								
4410	130		⊠	14	Pushed *0.40*	ML (*A-4(2)*)	dk. gray, very moist, firm	SILT plastic	91.6	27.1	26	3	0	2	98	CT UC
4405	135															
4400	140		⊠	13	Pushed *0.28*	ML (*A-4(0)*)	dk. gray, very moist, firm	SANDY SILT plastic	98.6	22.4	21	2	0	37	63	UU
4395	145															
4390								LEAN CLAY								

DH_LOGV1 08-P4.GPJ US EVAL.GDT 5/28/09

RB&G ENGINEERING, INC.

LEGEND:

DISTURBED SAMPLE ■ 2,3,2,(6) ← Blow Count per 6" / ← $(N_1)_{60}$ Value; *0.45* ← Torvane (tsf)

UNDISTURBED SAMPLE ⊠ PUSHED *0.45* ← Torvane (tsf)

OTHER TESTS
UC = Unconfined Compression
CT = Consolidation
DS = Direct Shear
UU = Unconsolidated, Undrained
CU = Consolidated, Undrained
HYD = Hydrometer
SS = Soluble Salt
DC = Dispersive Clay

DRILL HOLE LOG

BORING NO. 08-P4-B2

PROJECT: I-15 UTAH CO. CORRIDOR - P4, I-15 OVER PROVO RIVER
CLIENT: UTAH DEPARTMENT OF TRANSPORTATION
LOCATION: N:258,114 E:587,796
DRILLING METHOD: CME-75 / N.W. CASING TO 29.5'
DRILLER: D. BEDKE
DEPTH TO WATER - INITIAL: ▽ 17.0' **AFTER 24 HOURS:** ▼ N.M.

PROJECT NUMBER: 200801.200
DATE STARTED: 8/25/08
DATE COMPLETED: 8/26/08
GROUND ELEVATION: 4539.5'
LOGGED BY: G.P., M.H., J.B.

Elev. (ft)	Depth (ft)	Lithology	Sample Type	Sample Rec. (in)	Sample See Legend	Sample USCS (AASHTO)	Material Description	Dry Density (pcf)	Moisture Content (%)	Atter. Liquid Limit	Atter. Plast. Index	Gradation Gravel (%)	Gradation Sand (%)	Gradation Silt/Clay (%)	Other Tests
			■	18	4,5,7,(8)	CL (A-4(9))	dk. gray, moist, firm LEAN CLAY		30.0	31	9	0	3	97	
4385	155														
4380	160		■	8	56,56/4"	GP-GM	gray-brown, wet, dense GRAVEL W/SILT & SAND possible cobbles, drilled like gravel to 167'								
4375	165														
4370	170														
4365	175														
4360	180														
4355	185														
4350	190														
4345	195														
4340															

DH_LOGV1 08-P4.GPJ US EVAL.GDT 5/28/09

RB&G ENGINEERING, INC.

LEGEND:

DISTURBED SAMPLE ■ 2,3,2,(6) ← Blow Count per 6"; $(N_1)_{60}$ Value
0.45 ← Torvane (tsf)

UNDISTURBED SAMPLE ▨ PUSHED
0.45 ← Torvane (tsf)

OTHER TESTS
UC = Unconfined Compression
CT = Consolidation
DS = Direct Shear
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CU = Consolidated, Undrained
HYD = Hydrometer
SS = Soluble Salt
DC = Dispersive Clay

DRILL HOLE LOG

BORING NO. 08-P4-C1

SHEET 1 OF 1

PROJECT: I-15 UTAH CO. CORRIDOR - P4, I-15 OVER PROVO RIVER

CLIENT: UTAH DEPARTMENT OF TRANSPORTATION

LOCATION: N:258,018 E:588,077

DRILLING METHOD: 08-CME-55 / N.W. CASING TO 25'

DRILLER: D. SAMPSON

DEPTH TO WATER - INITIAL: N.M. **AFTER 24 HOURS:** N.M.

PROJECT NUMBER: 200801.200

DATE STARTED: 11/21/08

DATE COMPLETED: 11/21/08

GROUND ELEVATION: 4529.7'

LOGGED BY: C. SANBORN, J. BOONE

Elev. (ft)	Depth (ft)	Lithology	Sample Type	Sample Rec. (in)	Sample See Legend	Sample USCS (AASHTO)	Material Description	Dry Density (pcf)	Moisture Content (%)	Atter. Liquid Limit	Atter. Plast. Index	Gradation Gravel (%)	Gradation Sand (%)	Gradation Silt/Clay (%)	Other Tests
4525	5			4	11,16,11,(61)	GP-GM	brown, moist, dense GRAVEL W/SILT & SAND possible cobbles								
4520	10														
4515	15			14	6,6,6,(20) *0.33*	GP-GM CL-ML ML (*A-4(0)*)	brown, wet gray, moist, firm SANDY SILTY CLAY gray, wet SANDY SILT		27.8		NP	0	39	61	15% -0.005 mm
4510	20						SANDY SILTY CLAY lean clay layers, silt layers								
4505	25			18	*0.11* *0.38* 0,2,2,(6) *0.10*	CL-ML CL (*A-6(20)*)	gray, moist, very soft to firm gray, moist, very soft LEAN CLAY Note: Predrilled hole to 26.5' for CPT sounding.		39.4	40	19	0	1	99	
4500	30														
4495	35														
4490	40														
4485	45														
4480															

DH_LOGV1 08-P4.GPJ US EVAL.GDT 5/28/09

RB&G ENGINEERING, INC.

LEGEND:

DISTURBED SAMPLE — 2,3,2,(6) — Blow Count per 6"; $(N_1)_{60}$ Value; *0.45* — Torvane (tsf)

UNDISTURBED SAMPLE — PUSHED; *0.45* — Torvane (tsf)

OTHER TESTS

UC = Unconfined Compression
CT = Consolidation
DS = Direct Shear
UU = Unconsolidated, Undrained
CU = Consolidated, Undrained
HYD = Hydrometer
SS = Soluble Salt
DC = Dispersive Clay

DRILL HOLE LOG

BORING NO. 09-P4-B3

SHEET 1 OF 1

PROJECT: I-15 UTAH CO. CORRIDOR - P4, I-15 OVER PROVO RIVER

CLIENT: UTAH DEPARTMENT OF TRANSPORTATION

LOCATION: N:257,939 E:587,589

DRILLING METHOD: 96-CME-55 / N.W. CASING TO 40'

DRILLER: T. KERN

DEPTH TO WATER - INITIAL: ▽ 8.4' **AFTER 24 HOURS:** ▼ N.M.

PROJECT NUMBER: 200801.200

DATE STARTED: 4/16/09

DATE COMPLETED: 4/16/09

GROUND ELEVATION: 4530.5'

LOGGED BY: J.P., G.P., J.B.

Elev. (ft)	Depth (ft)	Lithology	Sample Type	Sample Rec. (in)	Sample See Legend	Sample USCS (AASHTO)	Material Description		Dry Density (pcf)	Moisture Content (%)	Atter. Liquid Limit	Atter. Plast. Index	Gradation Gravel (%)	Gradation Sand (%)	Gradation Silt/Clay (%)	Other Tests
4530								SILTY CLAY								
	5					CL-ML	brown, moist									
4525				8	11,17,13,(67)	GM	brown, moist, dense	SILTY GRAVEL W/SAND possible cobbles								
	10															
4520				0	20,22,21,(74)	-	no recovery									
	15							GRAVEL W/SILT & SAND possible cobbles								
4515				6	11,17,14,(48)	GP-GM	brown, wet, med. dense									
	20															
4510				18	2,2,3,(7) *0.20*	ML (*A-4(2)*)	gray, very moist, soft			28.2	27	3	0	15	85	18% -0.005 mm
				0	2,3,4,(10)	-	no recovery	SILT W/SAND plastic								
	25															
4505				6	3,2,2,(6) *0.18*	ML (*A-4(3)*)	gray, very moist, soft			30.6	28	4	0	15	85	21% -0.005 mm
				10	5,1,2,(4) *0.08*	CL (*A-4(7)*)	gray, very moist, very soft	LEAN CLAY W/SAND sand layers		33.2	31	9	0	17	83	20% -0.005 mm
	30				*0.11*	CL	gray, very moist, soft									
4500				26	0/26",(0) *0.17*	CH	gray, moist, soft									
				24	0/24",(0) *0.18*	CH (*A-7-6(30)*)	gray, moist, soft	FAT CLAY		48.5	50	27	0	1	99	
	35															
4495				15	4,5,3,(10)	ML (*A-4(0)*)	gray-brown, wet, loose	SILT W/SAND		27.8		NP	0	26	74	18% -0.005 mm
	40															
4490				18	1,2,4,(7) *0.37*	ML (*A-4(7)*)	brown, very moist, firm	SILT plastic, sand lenses		31.7	30	7	0	2	98	25% -0.005 mm
	45															
4485																

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LEGEND:

DISTURBED SAMPLE — 2,3,2,(6) — Blow Count per 6"; $(N_1)_{60}$ Value; *0.45* — Torvane (tsf)

UNDISTURBED SAMPLE — PUSHED; *0.45* — Torvane (tsf)

OTHER TESTS

UC = Unconfined Compression
CT = Consolidation
DS = Direct Shear
UU = Unconsolidated, Undrained
CU = Consolidated, Undrained
HYD = Hydrometer
SS = Soluble Salt
DC = Dispersive Clay