

BORING LOG INFORMATION

SB-3

SB-3 (CONT.)

SB-4

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: SB-3						
Windsor IM 091-1 (64) I-91 Bridges 33N & 33S		Type: WB SS		Page No.: 1 of 2						
Boring Crew: D. Palmer, NHB, D. Melcher, JEG		Casing I.D.: 4 in 1.38 in		Pin No.: TT						
Date Started: 1/15/13 Date Finished: 1/17/13		Sampler I.D.: 4 in 1.38 in		Checked By: TT						
VTSPG NAD83: N 347388.60 ft E 1665167.40 ft		Hammer Wt: 300 lb 140 lb		Groundwater Observations						
Station: 2922+45.36 Offset: RT, 5.60' I-91 NB		Hammer Fall: 30 in 30 in		Date Depth Notes						
Ground Elevation: 404.4 ft		Hammer/Rod Type: Safety		01/17/13 10.6						
		Rig: Diedrich D50 C _u = 1.0								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (lb-log)	Core Rec. % (RCD %)	Drill Rate (min/ft)	Blowlog* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
4-14		S-1: POORLY GRADED SAND with GRAVEL; fine sand, little medium to coarse sand, some fine to coarse rounded to angular gravel, trace silt, medium dense, Rec. = 2.0 ft, 0.0 ft - 2.0 ft	4-14	11-11 (25)						
5		Boulders & Cobbles (via roller bit), 3.0 ft - 7.0 ft								
10		S-2: WELL GRADED GRAVEL with SAND; fine to coarse angular gravel, some fine to coarse sand, trace silt, dry, very dense, gray, Rec. = 1.0 ft, 7.0 ft - 8.48 ft	45-23-100	123						
10		S-3: WELL GRADED GRAVEL with SAND and SILT; fine to coarse rounded to angular gravel, some fine to coarse sand, little silt, wet, very dense, brown, Rec. = 1.0 ft, 10.0 ft - 12.0 ft	48-30-30-35	60						
15		S-4: POORLY GRADED SAND; fine to medium sand, trace coarse sand, wet, medium dense, brown, Rec. = 0.83 ft, 14.0 ft - 15.0 ft	22-8-6	16						
20		S-5: POORLY GRADED SAND; fine, some medium sand, trace coarse sand, wet, medium dense, brown, Rec. = 1.0 ft, 19.0 ft - 21.0 ft	7-6-6-6	11						
25		S-6: POORLY GRADED SAND; fine sand, some medium sand, trace coarse sand, trace fine rounded gravel, wet, medium dense, brown, Rec. = 1.25 ft, 24.0 ft - 26.0 ft	6-6-8-6	14						
30		S-7: POORLY GRADED SAND; fine sand, little medium sand, wet, medium dense, brown, Rec. = 0.92 ft, 29.0 ft - 31.0 ft	9-6-9-13	18						
35		S-8: POORLY GRADED SAND; fine sand, little medium sand, trace coarse sand, wet, medium dense, brown, Rec. = 1.0 ft, 34.0 ft - 36.0 ft	14-11-11-10	22						
40		S-9: POORLY GRADED SAND with GRAVEL; fine sand, little medium to coarse sand, little fine to coarse rounded to subangular gravel, trace silt, wet, medium dense, brown, Rec. = 1.0 ft, 39.0 ft - 41.0 ft	31-15-14-11	29						
45		S-10: POORLY GRADED SAND with GRAVEL; fine sand, some medium to coarse sand, little fine rounded gravel, trace coarse rounded gravel, trace silt, wet, medium dense, brown, Rec. = 1.5 ft, 44.0 ft - 46.0 ft	12-9-10-11	19						
		S-11: POORLY GRADED SAND with GRAVEL; fine sand, some	10-10-							

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
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3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

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Boring Crew: D. Palmer, NHB, D. Melcher, JEG		Casing I.D.: 4 in 1.38 in		Pin No.: TT						
Date Started: 1/15/13 Date Finished: 1/17/13		Sampler I.D.: 4 in 1.38 in		Checked By: TT						
VTSPG NAD83: N 347388.60 ft E 1665167.40 ft		Hammer Wt: 300 lb 140 lb		Groundwater Observations						
Station: 2922+45.36 Offset: RT, 5.80' I-91 NB		Hammer Fall: 30 in 30 in		Date Depth Notes						
Ground Elevation: 404.4 ft		Hammer/Rod Type: Safety		01/17/13 10.6						
		Rig: Diedrich D50 C _u = 1.0								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (lb-log)	Core Rec. % (RCD %)	Drill Rate (min/ft)	Blowlog* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
55		medium to coarse sand, little fine rounded gravel, trace silt, wet, medium dense, brown, Rec. = 1.33 ft, 49.0 ft - 51.0 ft				11-11 (21)				
55		S-12: POORLY GRADED SAND; fine, little medium, trace coarse, wet, medium dense, brown, Rec. = 1.5 ft, 54.0 ft - 56.0 ft				8-9-9-10 (18)				
60		S-13: POORLY GRADED SAND; fine sand, little medium sand, wet, dense, brown, Rec. = 1.58 ft, 59.0 ft - 61.0 ft				18-14-18-21 (32)				
60		Coarse material (cobbles & boulders) via roller bit, 61.0 ft - 64.0 ft								
65		S-14: POORLY GRADED SAND; fine sand, little medium sand, trace silt, wet, dense, brown, Rec. = 1.67 ft, 64.0 ft - 66.0 ft				16-14-17-26 (31)				
70		Top Bedrock (via rollerbit), 68.5 ft - 70.0 ft								
70		70.0 ft - 75.0 ft, C-1: SCHIST; hard, slightly weathered to fresh, slightly fractured, gray, fine grained, close, moderately dipping joints, pyrite inclusions. NXDC	C-1	93 (53)	10					
75		75.0 ft - 80.0 ft, C-2: SCHIST; moderately hard to hard, moderately weathered to fresh, slightly to moderately fractured, gray, fine grained, close, moderately dipping joints, iron staining at some joints. NXDC	C-2	97 (80)	10					
80		Hole stopped @ 80.0 ft								

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STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: SB-4						
Windsor IM 091-1 (64) I-91 Bridges 33N & 33S		Type: WB SS		Page No.: 1 of 1						
Boring Crew: B. Thompson, NHB, T. Telesco, JEG		Casing I.D.: 4 in 1.38 in		Pin No.: TT						
Date Started: 1/18/13 Date Finished: 1/18/13		Sampler I.D.: 4 in 1.38 in		Checked By: TT						
VTSPG NAD83: N 347893.05 ft E 1665182.80 ft		Hammer Wt: 300 lb 140 lb		Groundwater Observations						
Station: 2925+50.06 Offset: RT, 14.99' I-91 NB		Hammer Fall: 30 in 30 in		Date Depth Notes						
Ground Elevation: 410.6 ft		Hammer/Rod Type: Auto		01/18/13 8.5 Upon completion						
		Rig: CME 550X C _u = 1.2								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (lb-log)	Core Rec. % (RCD %)	Drill Rate (min/ft)	Blowlog* (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		S-1: (0-10") SILTY SAND; fine to coarse sand, little silt, trace fine gravel, moist, loose, TOPSOIL, (10-13") WEATHERED ROCK, gray, Rec. = 1.08 ft, 0.0 ft - 1.83 ft (Roller bit ahead to 4 feet, hard drilling, attempt core), 2.0 ft				2-3-6-534* (9)				
5		4.0 ft - 9.0 ft, C-1: SCHIST; very hard, slightly weathered, slightly to moderately fractured, fine grained, gray, moderately close, moderately dipping fractures. NXDC	C-1	100 (95)	4					
10		9.0 ft - 14.0 ft, C-2: SCHIST; very hard, very slightly weathered, slightly to moderately fractured, fine grained gray, very thin sub-horizontal bedding in top 3"; moderately close, sub-horizontal fractures. NXDC	C-2	95 (75)	4					
15		Hole stopped @ 14.0 ft								

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PROJECT NAME: WINDSOR
PROJECT NUMBER: IM 091-1(64)

FILE NAME: z10o188BOR.dgn
PROJECT LEADER: J. WILSON
DESIGNED BY: C. BAISLY
BORING LOG INFORMATION SHEET #4

PLOT DATE: 7/30/2015
DRAWN BY: S. GUNN
CHECKED BY: D. HA
SHEET 49 OF 156