



STATE OF VERMONT
AGENCY OF TRANSPORTATION
MATERIALS & RESEARCH SECTION
SUBSURFACE INFORMATION

BORING LOG

RYEGATE
IM CULV(28)
Ryegate, VT

Boring No.: B-105
Page No.: 1 of 2
Pin No.: 11A262
Checked By: K. Adnams

Boring Crew: W. Hoeckele, K. Owens
Date Started: 2/20/13 Date Finished: 2/21/13
VTSPG NAD83: N 618462.76 ft E 1752381.57 ft
Station: _____ Offset: _____
Ground Elevation: 582.0 ft

Casing Sampler
Type: WB SS
I.D.: 4 in 1.38 in
Hammer Wt: 300 lb. 140 lb.
Hammer Fall: N.A. 30 in.
Hammer/Rod Type: Manual/NW
Rig: D50 TRACK CE = 1.0

Groundwater Observations
Date Depth Notes
02/20/13 19.0 During drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
0-4	x x x	Not Sampled, Advanced rollerbit and casing through frost zone to 4'							
4-5	x x x	A-1-a, f.m.c. GRAVEL, Some f.c. Sand, little silt, very compact, gray, Moist, Rec. = 0.3 ft, (FILL) A-4	100/5* (R)						
5-10	x x x	A-4, Clayey SILT, and f.c. GRAVEL, Some f.c. Sand, hard, brn, Moist, Rec. = 0.6 ft, (FILL) Pulverized rock recovered in sample. A-4, Similar Soil, Rec. = 0.1 ft, (FILL) A-1-a	16-25-22-34 (47) 22-36-24-23 (59)	15.0	38.2	24.9	36.9	23	4
10-15	x x x	A-1-a, f.c. SAND, little silt, trace f.c. gravel, medium compact, brn, Moist, Rec. = 0.1 ft, (FILL) A-1-a, Rec. = 0.0 ft	9-8-7-13 (15) 52-30-14-18 (44)						
15-20	x x x	A-1-a, f.m.c. GRAVEL, Some f.c. Sand, little silt, very compact, gry-brn, Moist, Rec. = 1.1 ft A-4	25-80-63-25 (143)	7.5	57.7	30.5	11.8		
20-25	x x x	A-4, SILT, little f. sand, medium compact, gray, Wet, Rec. = 1.2 ft, F. sand bedded in lenses within silt. Very easy drilling 18'-24'. A-4, Rec. = 0.9 ft, grades to little f.c. gravel, becomes very compact.	5-9-11-12 (20) 6-41-29-60 (70)						
25-31	x x x	A-1-b							

Notes:
1. Stratification lines represent approximate boundary between material types. Transition may be gradual.
2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.
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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Groundwater Observations
Date Depth Notes
02/20/13 19.0 During drilling.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
0-3	hatched	A-2-4, f.c. SAND, little silt, little f. gravel, very compact, brn, Moist, Rec. = 0.2 ft, (GLACIAL TILL)	100/3* (R)						
3-31	hatched	Not Sampled, Top of bedrock estimated from drilling conditions. Very difficult drilling and casing refusal at 31'. Extremely difficult rollerbit advancement from 31-34'. Top of Bedrock @ 31.0 ft							
31-34	hatched	Hole stopped @ 34.0 ft							
34-35		Remarks: Project performed under CHA project No. 25047.							

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BORING LOG 25047_RYEGATE_CULV LOGS.RPJ VERMONT AUT.GDT 5/6/13

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