
 STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-6B					
		Cavendish ER BR 0146(13)		Page No.: 1 of 1					
Boring Crew: B. DeLude (SJB), J. Gaudette (GeoDesign) Date Started: 3/08/12 Date Finished: 3/08/12 VTSPG NAD83: N 325264.58 ft E 1615399.94 ft Station: Not Available Offset: Not Available Ground Elevation: 769.87 ft		Casing Sampler Type: AUGER SS I.D.: 4.25 in 1.38 in Hammer Wt: N.A. 140 lb. Hammer Fall: N.A. 30 in. Hammer/Rod Type: Auto/NWJ Rig: Diedrich D-50 C _e = 1.5		Groundwater Observations ⁹ Date: 03/08/12 Depth (ft): 14.5 Notes: Wet Sample					
Depth (ft)	Strata #	CLASSIFICATION OF MATERIALS (Description)	Blews/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PL %
0-9.5		Inferred Fill. (Inferred from B-5).							
9.5-11.5		S1 (9.5'-11.5'): Very dense, light beige with brown to gray brown fine to coarse GRAVEL and fine to coarse SAND, trace Silt, damp. Rec. = 1.5 ft (AASHTO M145 Classification: A-1-b.)	36-39-32-50 (7)		49.1	35.5	15.4	NP	NP
11.5-14		S2 (12'-14'): Dense, tan brown to dark brown fine to coarse SAND, some fine to coarse Gravel, little Silt, moist. Rec. = 1.17 ft (AASHTO M145 Classification: A-1-a.)	26-18-21-22 (39)		56.3	32.0	11.6	NP	NP
14-15.5		S3 (14.5'-15.5'): Refusal, dark brown fine to coarse SAND, little fine to coarse Gravel, little Silt, wet. Rec. = 0.5 ft	20-50/6" (R)						
15.5-19.5		S4 (17.5'-19.5'): Very dense, light to dark brown fine to coarse SAND, some fine to coarse Gravel, little Silt, wet. Rec. = 0.5 ft	16-18-32-38 (50)						
19.5-20.3		S5 (19.5'-20.3'): Refusal. Top 2': Dark brown similar description to S4. Bottom 4': Gray, possible cobble or boulder fragments. Rec. = 0.5 ft	55-50/3" (5)						
Hole stopped @ 20.3 ft Hollow stem auger refusal on inferred boulder.									
Remarks: 1) Ground surface elevation and exploration location surveyed by Vermont Survey and Engineering, Inc. B-6B performed 5' south of B-6A to resume advance after shallow refusal. 2) Small cobbles less than 6" diameter inferred between 3' and 7' deep and 8' to 9.5' deep. Similar drilling resistance through inferred cobbles to 12' deep. Attempted split spoon sample at 12' deep (S2). Slightly less grinding resistance encountered through 15' deep, with difficult grinding encountered at 17' to 19' deep. 3) Hollow stem auger refusal at 19.5' deep on possible boulder. Split spoon sample attempted at 19.5' deep (S5). Boring terminated. 4) Hammer efficiency is assumed. 5) Soil descriptions are per the Burmister Classification System based on visual observations. Lab testing gradations reported are per AASHTO M145.									
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _e 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.									

BOTTOM OF
 ABUT. NO. 2
 EL. 761.25

ESTIMATED BOTTOM
 OF PILE AT
 ABUT. NO. 2
 EL. 681.25

PROJECT NAME: CAVENDISH
 PROJECT NUMBER: ER BR 0146(13)


 FILE NAME: zllc318bdrbor7.dgn
 PROJECT LEADER: J. OLUND
 DESIGNED BY: J. OLUND
 BORING LOGS 7

PLOT DATE: 7/19/2013
 DRAWN BY: S. MORGAN
 CHECKED BY: T. POULIN
 SHEET 26 OF 49