



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

BORING LOG

Brookfield Floating Bridge
 BRFLBR(2)

Boring No.: B-2
 Page No.: 1 of 1
 Pin No.: 12e134
 Checked By: JAG

Boring Crew: H. Garrow, J. Wimett (GeoDesign)
 Date Started: 7/30/12 Date Finished: 7/30/12
 VTSPG NAD83: N 562184.00 ft E 1613057.00 ft
 Station: 14+36 Offset: 5' L
 Ground Elevation: 1278 ft

Casing Sampler
 Type: FJ SS
 I.D.: 4 in 1.38 in
 Hammer Wt: N.A. 140 lb.
 Hammer Fall: N.A. 30 in.
 Hammer/Rod Type: Auto/AWJ
 Rig: CME 45C SKID CE = 1.33

Groundwater Observations

Date	Depth (ft)	Notes
07/30/12	2.0	Wet sample.

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
0-2	X X X	S1 (0'-2'): Very loose, dark brown fine to coarse SAND, some fine Gravel, little Silt, trace Cinders, moist. (FILL) Rec. = 1.5 ft (AASHTO M145 Classification: A-1-b) (AASHTO M145 Classification: Visual Description (Burmister).)	3-2-2-4 (4)	8.2	44.9	42.2	12.9
2-4	X X X	S2 (2'-4'): Loose, dark brown SILT and fine to coarse SAND, little coarse Gravel (stuck in spoon tip), wet. (FILL) Rec. = 0.9 ft (AASHTO M145 Classification: A-2-4) (AASHTO M145 Classification: Visual Description (Burmister).)	2-3-5-25 (See Note 3)	22.1	23.6	46.1	30.3
4-6	X X X	S3 (4'-6'): Very loose, piece of coarse GRAVEL stuck in spoon tip. (FILL) Rec. = 0.1 ft (AASHTO M145 Classification: Visual Description (Burmister).)	5-1-1-1 (See Note 3)				
6-7.6	X X X	S4 (6'-7.6'): Refusal, gray fine to coarse GRAVEL (fractured weathered rock), little Silt, trace fine Sand, wet. (SANDY SILT) (AASHTO M145 Classification: Visual Description (Burmister).) Rec. = 0.3 ft	2-8-25/0.2 (100+)				

Top of Bedrock @ 7.8 ft

Hole stopped @ 7.8 ft
 Roller bit refusal on inferred competent bedrock.

Remarks:

- Borehole located 5' north of B-1.
- No sample from S3 at 4' deep was retained. One piece of coarse gravel in the spoon tip was the entire recovery.
- SPT N-values for samples S2 and S3 are invalid due to driller taking samples without clearing borehole between spoons. Instruct driller to clean borehole between samples going forward.
- Advanced casing through wood from 5' to 6' deep (inferred timber cribbing). Wood was observed in roller bit spoils but was not picked up in split spoon sample S3.
- Advance roller bit to 6.5' to clear hole of woody debris prior to sampling S4.
- Split spoon refusal at 7.7' deep after 15 blows with no movement.
- Roller bit refusal at 7.8' deep on inferred bedrock.
- Lab testing gradations reported are per AASHTO M145.
- Northing, Easting, Ground Surface Elevation, and Stationing shown are approximations based on taped measurements made from existing features in the field by GeoDesign personnel on July 30, 2012 and MicroStation files downloaded from TY Lin's FTP site by GeoDesign personnel on August 22, 2012. Location and elevation approximations for the borehole should be considered accurate only to the degree implied by the method of borehole location used.

Notes:

- Stratification lines represent approximate boundary between material types. Transition may be gradual.
- N Values have not been corrected for hammer energy. CE is the hammer energy correction factor.
- 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.

GEODESIGN BORING LOG 888-04.5 FLOATING BRIDGE VTRANS FORMAT.GPJ VERMONT AOT.GDT 5/7/13