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

BORING LOG

Brookfield Floating Bridge
BRF FLBR(2)

Boring No.: B-5
Page No.: 1 of 1
Pin No.: 12e134
Checked By: DTH

Boring Crew: J. Leonhardt (TransTech), J.Wimett (GeoDesign)
Date Started: 2/25/13 Date Finished: 2/25/13
VTSPG NAD83: N 562208.00 ft E 1613012.00 ft
Station: 13+89 Offset: 12'L
Ground Elevation: 1275 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:	Safety/AWJ	
Rig:	CME 45C SKID	CE = 1

Groundwater Observations

Date	Depth (ft)	Notes

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	LL %	PI %
		Water Column.										
		Inferred Lake Bottom Sediments(Organic Silts and Organic Matter).										
		S1 (24.5' - 25'): Refusal, gray fine to medium SAND, some (+) Silt, some fine Gravel (fractured), wet. Rec. = 0.5 ft (AASHTO M145 Classification: A-2-4.)				6-12/0" (R)	14.3	26.2	44.8	29.0	NP	NP
		C1) Excellent quality, moderately hard, fresh, moderate to widely jointed, gray with white banding LIMESTONE. Moderate to strong reaction to diluted HCl. Jointing between 0 and 35 degrees from horizontal.	C1	100 (98)	9 7 7 7 8							

Top of Bedrock @ 25.0 ft

Hole stopped @ 30.0 ft

Remarks:
1) Ground surface elevation, northing, easting, and stationing are estimated from concept plans provided by TY Lin dated December 17, 2012. Borehole performed ~10' west of proposed hinge point due to accessibility.
2) Hammer correction factor is assumed to be 1.0 (rope and cathead safety hammer).
3) Performed borehole through lake ice. Lake bottom sediments noted to begin at 13' below ice level.
4) While placing casing through ice to lake bottom, casing stopped on sediments at 13' deep. Driller added additional section of casing and casing sunk through sediments prior to obtaining a sample at 13' deep. Casing continued to advance under its own self weight until 22' deep. Driller drove casing to 24.5' deep prior to sampling S1 (due to excessive casing stickup at 22').
5) Stop sample S1 after 12 blows with no movement and spoon bouncing. Note casing to have sunk 6 inches while sampling S1.
6) Visual soil descriptions are per the Burmister system. 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. 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.

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

PROJECT NAME: BROOKFIELD
PROJECT NUMBER: BRF FLBR(2)

T·Y·LIN INTERNATIONAL

FILE NAME: z12e134bdr_bor_log.dgn
PROJECT LEADER: J. OLUND
DESIGNED BY: J. OLUND
BORING LOGS 7

PLOT DATE: 12/3/2013
DRAWN BY: S. MORGAN
CHECKED BY: J. OLUND
SHEET 29 OF 70