

GEO DESIGN INCORPORATED										BORING LOG				Boring No.: B-2			
GeoDesign, Inc. P.O. Box 699 Windsor, VT 05089 Phone: 802-674-2033; Fax: 802-674-5943										1233 Shelburne Rd., Suite 360 So. Burlington, VT 05403 Phone: 802-652-3140				Project Name Giddings Brook Culvert BR #96 VT Rt 30 Hubbardton, Vermont		Page No.: 1 of 2 File No.: 837-31.7 Checked By: DTH	
Boring Company: TransTech Drilling Services Foreman: John Leachard GeoDesign Rep.: Joshua Gilman Date Started: December 20, 2011 Date Finished: December 20, 2011 N. Coordinate: _____ E. Coordinate: _____ Ground Surface Elevation (feet): 425 Station: _____ Offset: _____										Casing Type: Flush ID: 4.0 in. 1.38 in. Hammer Wt.: 140 lbs. 140 lbs. Hammer Fall: 30 in. 30 in. Rig Type: CME 75 Hammer Type: Automatic		Sampler: SS Date: 12/20/11, 10:00 Notes: See Note 2		Groundwater Observations Date: _____ Depth (ft): _____ Elev. (ft): _____ Notes: _____			
Sample Information										Strata Description		Sample Description					
Depth (ft)	Casing Blow/ft Number	Type	Penetration (inches)	Recovery (inches)	Blows / 6 inch Interval				Coring Time (min.)	Moisture Content (%)	Depth & Elevation (feet)	Symbol	Classification System: <i>Burmister</i>				
					0 - 6	6 - 12	12 - 18	18 - 24									
													Asphalt 424.5 Fill (Silty Sand & Gravel with possible cobbles / boulders)				
5	S1	SS	24	16	4	11	11	14	11				S1) Medium dense, gray/brown fine to coarse GRAVEL, and fine to coarse Sand, little Silt, dry.				
10	S2	SS	24	6	10	9	12	8	4		415.0		S2) Medium dense, gray/brown, fine to coarse GRAVEL, and fine to coarse SAND, little Clay & Silt, wet.				
15	S3	SS	24	0	14	8	5	3	2				S3) No recovery.				
	S4	SS	24	10	16	4	2	3	3				S4) Loose, gray/brown fine to coarse GRAVEL and fine to coarse Sand, little Silt, wet.				
	S5	SS	24	12	18	3	3	2	3				S5) Loose, gray/brown fine to coarse SAND, some Silt, little fine to coarse Gravel, wet.				
	S6	SS	24	7	20	4	3	2	3				S6) Similar to S5.				
	S7	SS	24	10	22	3	3	3	3				S7) Loose, gray/brown fine to coarse SAND, some Silt, trace fine Gravel, wet.				
	S8	SS	24	8	24	3	3	2	4				S8) Similar to S7.				
	S9	SS	24	16	26	3	3	2	2				S9) Similar to S7, except little Silt.				
													S10) Similar to S7, except little Silt.				
													Bottom of Exploration at 32.0 ft				

APPROX. EL 410.10
BOTTOM OF FOOTING

1) Ground surface elevation estimated in the field by GeoDesign using site plan dated 9/26/2011 provided by VHB.
 2) Driller switched to wash and drive 4-inch I.D. flush-joint casing method due to slow advance with augers (inferred very dense soil). Relative moisture observations are effected by drilling water.
 3) Depth of fill estimated.
 4) Sample S4 by semi-continuous method after no recovery at Sample S3. SPT N-value not valid per ASTM D1586.
 5) Boring terminated at 32 feet deep with no refusal.

Notes:
 1) Identification Lines Represent Approximate Boundary Between Material Types. Transitions May Be Gradual.
 2) 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.
 3) Sample Type Coding: A=Auger; C=Cone; D=Drive; G=Gravel; P=Plastic Sampler; SS=Split Barrel (Split Spoon); ST=Shallow Tube; Geo=Geoprobe; W=Wire.
 4) Properties Used: T=1-10%; L=10-20%; S=20-35%; A=35-50%.
 5) Identification lines represent approximate boundary between material types, transitions may be gradual.

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					0 - 6	6 - 12	12 - 18	18 - 24									
	S10	SS	24	8	30	3	2	3	4				Silty Sand & Gravel (Continued)				
													Bottom of Exploration at 32.0 ft				

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PROJECT NAME: HUBBARDTON
 PROJECT NUMBER: ER STP 0161(26)

FILE NAME: zllc288borlogs.dgn
 PROJECT LEADER: M.A. COLGAN
 DESIGNED BY: VTRANS
BORING LOGS (2 OF 2)

PLOT DATE: 7/16/2012
 DRAWN BY: E.A. FIALA
 CHECKED BY: S.G. FARNSWORTH
 SHEET 26 OF 70

