

BORING LOG										Boring No.: <b>B-4</b>			
Project Name										Page No.: <b>1 of 2</b>			
VTR Bridge #79										File No.: <b>837-27</b>			
East Dorset, Vermont										Checked By: <b>JAG</b>			
<b>GEODESIGN INCORPORATED</b> Geotechnical Engineers and Environmental Consultants 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: 802-652-5140			
Boring Company: <b>TransTech Drilling Services</b> Foreman: <b>John Leonhardt</b> GeoDesign Rep.: <b>Jacob Wimet</b> Date Started: <b>January 14, 2009</b> Date Finished: <b>January 14, 2009</b> N. Coordinate: <b>267967</b> E. Coordinate: <b>1504360</b> Ground Surface Elevation (feet): <b>777</b> Station: <b>Offset: ft</b>										Casing: <b>Flush</b> Sampler: <b>SS</b> I.D.: <b>3.0 in.</b> <b>1.38 in.</b> Hammer Wt.: <b>300 lbs</b> <b>140 lbs</b> <b>1/12/09</b> Hammer Fall: <b>24 in.</b> <b>30 in.</b> Rig Type: <b>CME 75</b> Hammer Type: <b>Automatic</b>		Groundwater Observations Date: <b>1/12/09</b> Depth (ft): <b>None Observed</b> Elev. (ft):	
Depth (ft)	Sample Information								Strata Description	Symbol	Sample Description		
	Casing Blowoff Number	Type	Penetration (inches)	Recovery (inches)	Depth (ft)	Blows / 6 inch Interval						Moisture Content (%)	
	S1	SS	24	2	0	13	3	3	4		Fill	S1) Loose, black fine to coarse SAND and SILT, little Coal ash, frozen/moist.	
	S2	SS	24	12	2	5	7	8	8			S2) Medium dense, orange brown fine to coarse SAND and fine to coarse GRAVEL, trace Root fibers, moist.	
5	S3	SS	6	1	4	12	25.0*				4.5 Boulder 772.5 (inferred)	S3) Refusal, fractured Boulder pieces.	
	S4	SS	24	0	6.5	5	3	2	2		6 Silty Sand & 771.0 Gravel (with Wood Pieces)	S4) Loose, no recovery.	
10	S5	SS	24	14	9	3	2	3	4		10 Silty Sand & 767.0 Gravel	S5) Loose, brown fine to coarse SAND and fine to coarse GRAVEL, little Wood, (Bottom 2" of sample entirely non-decomposed wood), trace Silt, wet.	
	S6	SS	24	5	11	5	7	8	4			S6) Medium dense, whitish brown fine to coarse SAND and fine GRAVEL, trace Wood fibers, trace Silt, wet.	
15	S7	SS	24	0	14	3	2	5	8			S7) Loose, no recovery.	
20	S8	SS	24	7	19	3	1	2	10			S8) Very loose, brown fine to medium SAND, little fine Gravel, little Silt, wet.	
25	S9	SS	9	5	24	7	100.0*				23.7 Weathered 753.3 Rock	S9) Very dense/Refusal, orange brown SILT and fine to coarse SAND and white pulverized	
Remarks: 1) Ground surface elevation estimated by GeoDesign personnel in the field from a site plan with elevation points provided by VHB. 2) Wash rotary drilling methods used. 3) Split spoon refusal at S3 at 4.5' deep on an inferred boulder. 4) Changed from wash-drive to wash rotary methods to advance the borehole through a boulder from 4.5' to 6' deep. Continued with wash-rotary drilling methods for the remainder of the borehole. 5) Increased drilling resistance noted while advancing the borehole at 23.7' deep.													
Notes: 1) Stratification 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. A.C. = After coring, N.R. = Not Recorded. 3) Sample Type Coding: A=Auger, C=Core, D=Driven, G=Grab, PS=Push Sampler, SS=Split Barrel (Split Spoon), ST=Shelby Tube, Geo = GeoProbe, V=Vane, WOR/H=Weight of Solids/Water 4) Proportions Used: Trace = 1-10%, Little = 10-20%, Some = 20-35%, And = 35-50%													
										Boring No.: <b>B-4</b>			

ABUTMENT NO. 2  
BOTTOM OF FOOTING  
EL. = 772.89 FT

ESTIMATED PILE TIP  
EL. = 753 FT +/-

BORING LOG										Boring No.: <b>B-4</b>			
Project Name										Page No.: <b>2 of 2</b>			
VTR Bridge #79										File No.: <b>837-27</b>			
East Dorset, Vermont										Checked By: <b>JAG</b>			
<b>GEODESIGN INCORPORATED</b> Geotechnical Engineers and Environmental Consultants 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: 802-652-5140			
Boring Company: <b>TransTech Drilling Services</b> Foreman: <b>John Leonhardt</b> GeoDesign Rep.: <b>Jacob Wimet</b> Date Started: <b>January 14, 2009</b> Date Finished: <b>January 14, 2009</b> N. Coordinate: <b>267967</b> E. Coordinate: <b>1504360</b> Ground Surface Elevation (feet): <b>777</b> Station: <b>Offset: ft</b>										Casing: <b>Flush</b> Sampler: <b>SS</b> I.D.: <b>3.0 in.</b> <b>1.38 in.</b> Hammer Wt.: <b>300 lbs</b> <b>140 lbs</b> <b>1/12/09</b> Hammer Fall: <b>24 in.</b> <b>30 in.</b> Rig Type: <b>CME 75</b> Hammer Type: <b>Automatic</b>		Groundwater Observations Date: <b>1/12/09</b> Depth (ft): <b>None Observed</b> Elev. (ft):	
Depth (ft)	Sample Information								Strata Description	Symbol	Sample Description		
	Casing Blowoff Number	Type	Penetration (inches)	Recovery (inches)	Depth (ft)	Blows / 6 inch Interval						Moisture Content (%)	
	C1	C	60	60	25						47	752.0 Bedrock	and fractured Weathered Rock. C1) White, hard, slightly to moderately weathered fractures, closely to moderately jointed, poor quality siliceous DOLOMITE (RQD=47%). No reaction to diluted HCl.
30	C2	C	42	42	30						38		C2) White to light gray, moderately hard to hard, fresh to moderately weathered, fractured to closely jointed, poor quality siliceous DOLOMITE (RQD=38%). Very weak reaction to diluted HCl.
35												33.5 Bottom of Exploration at 33.5 ft	
40													
45													
50													
Remarks: 6) Slough caved into borehole after removing C1 limiting C2 run to only 42". (Core run from 28.5' to 33.5' but top 18" consisted of angular fine gravel inferred to be rollerbit cuttings that fell into the borehole between core runs.) 7) No water return during coring from 25' to 33'. Water return noted from 33' to end of borehole. (Unable to approximate volume of water loss as reverse circulation was not used and water was pumped directly from the river.)													
Notes: 1) Stratification 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. A.C. = After coring, N.R. = Not Recorded. 3) Sample Type Coding: A=Auger, C=Core, D=Driven, G=Grab, PS=Push Sampler, SS=Split Barrel (Split Spoon), ST=Shelby Tube, Geo = GeoProbe, V=Vane, WOR/H=Weight of Solids/Water 4) Proportions Used: Trace = 1-10%, Little = 10-20%, Some = 20-35%, And = 35-50%													
										Boring No.: <b>B-4</b>			

PROJECT NAME: **DORSET**  
PROJECT NUMBER: **WCRS(8)**

FILE NAME: **z08q224bor\_log3.dgn**  
PROJECT LEADER: **A.P. GUYETTE**  
DESIGNED BY: **M.A. COLGAN**  
BORING LOGS (3 OF 3)

PLOT DATE: **4/10/2014**  
DRAWN BY: **GEODESIGN**  
CHECKED BY: **S.E. BURBANK**  
SHEET **15** OF **33**

