GEODESIGN INCORPORATED
Geotechnical | Construction | Environmental Engineers and Scientists
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 LOG

Project Name: Readsboro BRF 0105(3)
Readsboro, VT

Boring No.: **B-201B**
Page No.: 1 of 3
File No.: 750-09.1
Checked By: JAG/JFW

Boring Company: TransTech Drilling Services
Foreman: John Leonhardt
GeoDesign Rep.: Alan Baribault/Joshua Gilman
Date Started: November 9, 2011 Date Finished: November 17, 2011
N. Coordinate: E. Coordinate:
Ground Surface Elevation (feet): 1191
Station: Offset: ft

	Casing:	Sampler:	Groundwater Observations			
			Date	Depth (ft)	Elev. (ft)	Notes
Type:	Flush	SS				
I.D.:	4.0 in.	1.38 in.				
Hammer Wt.:	140 lbs	140 lbs	▼ 11/17/11, 16:00	-2.0	1193.0	See Note 6.
Hammer Fall:	30 in.	30 in.	▼			
Rig Type:	CME 75 ATV		▼			
Hammer Type:	Automatic		▼			

Depth (ft)	Casing Blows/ft	Sample Info: Number	Type	Penetration (inches)	Recovery (inches)	Depth (ft)	Blows / 6 inch Interval: 0 - 6	6 - 12	12 - 18	18 - 24	Coring Time (min./ft)	Moisture Content (%)	Strata Description (Depth & Elevation(feet))	Symbol	Sample Description (Classification System: Burmister)
	3												Asphalt 1190.6		
	21												Fill (Silty Sand & Gravel) Inferred from B-201A		
	38														
	55														
5	42														
	61														
	50														
	75														
	36														
10	20														
	35														
	65														
	58												13		
	75												Silty Sand 1178.0 & Gravel		
15	68														
		S1	SS	9	4	15	5	50/3"							S1) Refusal, brown fine to coarse SAND and fine to coarse GRAVEL (gray rock fragments in spoon tip), little Silt, wet.
													17		
													Glacial Till 1174.0 (With Boulders / Cobbles)		
20															
		S2	SS	0	0	20	30/0"								S2) Refusal, no recovery.
25															
		S3	SS	24	14	25	35	52	53	26					S3) Very dense, gray fine to coarse SAND and SILT, some fine to coarse Gravel, wet.
30															
		S4	SS	24	18	30	33	47	49	64					S4) Very dense, gray SILT and fine to coarse SAND, some fine to coarse Gravel (gray and white pieces, no reaction to diluted HCl), moist.
35															

Remarks:
1) Borehole located 10 feet West of painted centerline, 13 feet North of existing abutment. Elevation approximately 1191 feet based on Mainline Profile.
2) Sampling began at 15 feet deep. Stratigraphy inferred similar to B-201A between 0.5 and 15 feet deep. Moisture observations of samples are likely elevated due to wash-drive drilling methods.
3) Inferred boulders based on drilling resistance encountered at 16 to 17 feet deep, 20 to 21 feet deep, 36.5 to 38 feet deep (sampled a 10.5" core), 67.5 to 68.7 feet deep (samples a 14" core), and 73 to 74 feet deep.
4) Casing set to 30 feet deep with open-hole drilling methods used below. E-Z Mud drilling fluid added to the wash tub beginning at 31 feet 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=Piston Sampler; SS=Split Barrel (Split Spoon); ST=Shelby Tube; Geo=GeoProbe V=Vane; WOR/H=Weight of Rod/Hammer
4) Proportions Used: Trace = 1-10%; Little = 10-20%; Some = 20-35%; And = 35-50%
5) Stratification lines represent approximate boundary between material types, transitions may be gradual.

Boring No.: **B-201B**

SMALL REMARK FONT STANDARD 750-09.1 READSBORO BRF 105.GPJ GEODESIGN STANDARD .GDT 12/9/11

BOT. OF FTG.
ELEV. 357.0 M
ELEV. 1171.26 FT

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		S5	SS	17	17	35	30	64	85/5"				Glacial Till (With Boulders / Cobbles) *(Continued)*		S5) Refusal, gray fine to coarse SAND and SILT, trace fine to coarse Gravel, very moist.
		C1	C	10	10	37	[REC= 100%; RQD= 100%]				6.5				C1) Excellent quality, hard, medium-grained gray GNEISS (Boulder).
40															
		S6	SS	6	0	40	23	30/0"							S6) Refusal, no recovery. (sloughed soil in spoon sampler consisted of 3" very wet SAND and Silt, one piece of coarse Gravel)
45															
50															
55															
60															
65															
		C2	C	14	14	67.5	[REC= 100%; RQD= 86%]								C2) Good quality, hard, pale white/tan boulder.
											C				
70															

Remarks:

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													Glacial Till (With Boulders / Cobbles) *(Continued)*		
75															
80															
85															
90															
95															
100															
													101		
													Bottom of Exploration at 101.0 ft 1090.0		
105															

Remarks:
5) Borehole terminated at 101 feet deep, no refusal. Driller noted borehole collapsed approximately 10 feet upon termination.
6) Following termination, artesian water level was measured at 2 feet above ground surface in drill casing after stabilizing for 15 minutes (continued to slowly rise).

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Boring No.: **B-201B**

ESTIMATED PILE
TIP EL=332.61 METERS
OR EL=1091.24 FEET

PROJECT NAME:	READSBORO
PROJECT NUMBER:	BRF 0105 (3)
FILE NAME: s89j088bor.dgn	PLOT DATE: 07-MAR-2012
PROJECT LEADER: J. LACROIX	DRAWN BY: M. LONGSTREET
DESIGNED BY: W. PELLETIER	CHECKED BY: S. SCRIBNER
BORING LOG SHEET 9	SHEET 37 OF 90