

BORING LOG													
Project Name													
Readsboro BRF 0105 (3) Readsboro, VT													
Boring No.: GB-6													
Page No.: 1 of 2													
File No.: 750-03.6m													
Checked By: RSA													
P.O. Box 699, Windsor, VT 05089, Tel: (802) 674-2033 1233 Shelburne Road, Suite E-1, South Burlington, VT 05403, Tel: (802) 652-5140													
Boring Company: M & W Soils Engineering Foreman: Jim Ferguson GeoDesign Rep.: Jason Gaudelle Date Started: April 29, 2002 Date Finished: May 2, 2002 N. Coordinate: 338.02 m E. Coordinate: -2.01 m Ground Surface Elevation (meters): 352.50 Station: 1109 Offset: 2.01 m LT													
Casing: H.S.A. SS Sampler: SS Date and Time: 4/29/02 1:30 PM Depth (m): 4.11 Elevation (m): 358.39 Notes: Wet soil I.D./O.D.: 11 cm / 5 cm Hammer Wt.: NA / 63.5 kg Hammer Fall: NA / 76 cm Rig Type: Acker Truck Mounted Other:													
Sample Information													
Depth (m)	Casing Blow(s) 0.3m	Number	Type	Penetration (cm)	Recovery (cm)	Blows / 0.15 m Interval				Coming Time (min./0.3m)	PID Result	Sample Description	Strata Description
						0-0.15	0.15-0.30	0.30-0.45	0.45-0.60				
0.12												ASPHALT GRAVEL FILL (with Boulders)	
1	S1	SS	61	30	0.61	9	8	7	7			(S1) Medium dense, brown, fine to coarse SAND, little fine Gravel, trace Silt, moist. Bottom 5.1 cm: Similar to top except dark brown with asphalt pieces.	
2	S2	SS	61	0	1.22	7	6	4	4			(S2) Loose, no recovery.	
3	S3	SS	61	30	2.44	12	5	4	3			(S3) Loose, Top 15.2 cm: Similar to top S1. Bottom 15.2 cm: light brown to black, fine to medium SAND, some Silt, trace fine Gravel. Moist. (black soil observed to be soft and porous with possible coal pieces.	359.91 2.59 Sandy FILL (with Cobbles and Boulders)
4	S4	SS	61	30	3.05	2	3	6	23			(S4) Loose, Top 15.2 cm: Similar to bottom S3. Bottom 15.2 cm: Red-brown, fine to medium SAND, little fine Gravel, trace Silt.	358.39 4.11 Probable GLACIAL TILL (with Boulders)
5	S5	SS	43	30	3.66	13	30	50/0	13			(S5) Very dense, similar to bottom of S4, except with coarse Gravel. Bottom 5.1 cm: Wet.	
6	S6	SS	46	36	4.27	38	21	50/0	15			(S6) Very dense, similar to S4 (layered) with pulverized cobble in middle of sample.	
7	S7	SS	3	0	5.94	50/0	03					(S7) Very dense, no recovery except with evidence of green-brown, micaceous soil (possible till) at spoon tip.	356.25 6.25 GLACIAL TILL
(0 m) Groundsurface elevation is estimated from VAOT Main Line Profile based on locations taped from existing features and plotted by GeoDesign. Elevations and locations should be considered accurate only to the degree implied by the method used. (0.61-1.52 m) Observed slight resistance during HSA advance through gravel and possible cobbles. (1.83-1.98 m) Difficult HSA advance through probable boulder. (3.35-3.56 m) HSA advance through coarse gravel with probable cobbles and boulders estimated 15.2-45.8 cm diameter.													
Notes: 1) Soil Samples screened in the field using a Thermal Environmental Systems Model 5555 Photoanalyzer Detector. The meter was calibrated relative to a benzene-in-air standard. ND = None Detected, - = Sample Not Screened. 2) Stratification Lines Represent Approximate Boundary Between Material Types, Transitions May Be Gradual. 3) Water Level Readings Have Been Made At Times And Under Conditions That Fluctuations Of Groundwater May Occur Due To Other Factors Than Those Present At The Time Measurements Were Made. AC = After Coring Back. 4) Sample Type Coding: A = Auger, C = Core, PS = Piston Sampler, SS = Split Barrel (Split Spoon), ST = Shelby Tube, V = Vane. 5) Proportions Used: Trace = 1-10%, Lite = 10-20%, Some = 20-35%, And = 35-50%.													
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Boring Company: M & W Soils Engineering Foreman: Jim Ferguson GeoDesign Rep.: Jason Gaudelle Date Started: April 29, 2002 Date Finished: May 2, 2002 N. Coordinate: 338.02 m E. Coordinate: -2.01 m Ground Surface Elevation (meters): 352.50 Station: 1109 Offset: 2.01 m LT													
Casing: H.S.A. SS Sampler: SS Date and Time: 4/29/02 1:30 PM Depth (m): 4.11 Elevation (m): 358.39 Notes: Wet soil I.D./O.D.: 11 cm / 5 cm Hammer Wt.: NA / 63.5 kg Hammer Fall: NA / 76 cm Rig Type: Acker Truck Mounted Other:													
Sample Information													
Depth (m)	Casing Blow(s) 0.3m	Number	Type	Penetration (cm)	Recovery (cm)	Blows / 0.15 m Interval				Coming Time (min./0.3m)	PID Result	Sample Description	Strata Description
						0-0.15	0.15-0.30	0.30-0.45	0.45-0.60				
0.12												ASPHALT GRAVEL FILL (with Boulders)	
8													
9													
10													
11													
12													
13	S8	SS	15	10	12.98	1200	15					(S8) Very dense, green-brown fine to medium SAND, little Silt, trace fine Gravel, moist.	349.36 13.14 Bottom of Borehole at 13.14 m
(4.72 m) Very Hard HSA resistance through possible boulder- refusal at 4.97 m. Attempted to further advance hole using 10.8 cm o.d. SSA. Observed SSA penetration through possible 15.2 cm diameter cobbles at 5.27-5.43 m and 5.64-5.94 m. (5.94 m) SS sample attempted. HSA returned down hole with very slow advance from 5.94-6.25 m. (7.77-12.98 m) Observed green gray wash water during roller bit advance. (10.91-11.43 m) Observed increased resistance during roller bit advance through possible cobbles and small boulders.													
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P.O. Box 699, Windsor, VT 05089, Tel: (802) 674-2033 1233 Shelburne Road, Suite E-1, South Burlington, VT 05403, Tel: (802) 652-5140													
Boring Company: M & W Soils Engineering Foreman: Jim Ferguson GeoDesign Rep.: Andrew Elms Date Started: June 3, 2002 Date Finished: June 4, 2002 N. Coordinate: 337.11 m E. Coordinate: -2.99 m Ground Surface Elevation (meters): 352.71 Station: 1106 Offset: 2.99 m LT													
Casing: F.J. SS Sampler: SS Date and Time: 6/3/02 10:10 AM Depth (m): 4.27 Elevation (m): 358.44 Notes: Moist I.D./O.D.: 10 cm / 5 cm Hammer Wt.: 136.1 kg / 63.5 kg Hammer Fall: 76 cm / 76 cm Rig Type: Acker Truck Mounted Other:													
Sample Information													
Depth (m)	Casing Blow(s) 0.3m	Number	Type	Penetration (cm)	Recovery (cm)	Blows / 0.15 m Interval				Coming Time (min./0.3m)	PID Result	Sample Description	Strata Description
						0-0.15	0.15-0.30	0.30-0.45	0.45-0.60				
1	S-1	SS	61	41	0.61	10	10	8	9			(S1) Medium dense, brown, fine to coarse SAND, little fine Gravel, trace of Silt, dry.	
2	S-2	SS	46	16	1.22	10	8	6	50/0			(S2) Similar to S1, except dark brown with trace of fine to coarse Gravel.	
3	S-3	SS	61	23	1.83	4	6	3	4			(S3) Similar to S1.	
4	S-4	SS	61	33	2.44	5	3	0	0			(S4) Loose, dark brown, fine to coarse SAND, some Silt, 2" piece of rotted wood, organic, moist.	
5	S-5	SS	61	30	3.05	18	23	15	22			(S5) Dense, red-brown, fine to coarse SAND, some fine Gravel, trace Silt, dry.	359.05
6	S-6	SS	13	10	3.66	50/0						(S6) Very dense, brown, fine to coarse SAND, some fine Gravel, trace of Silt, dry.	3.66 GLACIAL TILL
7	S-7	SS	13	10	4.57	50/0						(S7) Similar to S6.	
8	S-8	SS	46	30	6.10	24	37	50/3				(S8) Very dense, red/brown, fine to coarse SAND, little fine Gravel, little Silt, some oxidation, wet.	
9	S-9	SS	8	8	7.62	60/3						(S9) Very dense, gray, fine to coarse SAND, little fine Gravel, little Silt, wet.	
(0 m) Groundsurface elevation is estimated from VAOT Main Line Profile based on locations taped from existing features and plotted by GeoDesign. Elevations and locations should be considered accurate only to the degree implied by the method used. (0.44-5.71 m) Borehole advanced with 10.2 cm dia. SSA to 4.57 m. SSA removed prior to SS sampling and reinserted in borehole after sampling. (4.57-11.58 m) Casing Blows/ft - recorded # of blows required to drive casing into open hole. (4.57 m) SSA removed. Flush joint casing installed and borehole advanced with 7.6 cm dia. roller bit.													
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Boring No.: GB-7													

BOT. OF FTG. ELEV. 357.000

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PROJECT NAME:	READSBORO	PLOT DATE:	07-MAR-2012
PROJECT NUMBER:	BRF 0105 (3)	DRAWN BY:	M.EVANS-MONGEON
FILE NAME:	89J088/STR/s89J088bor.dgn	DESIGNED BY:	W. PELLETIER
PROJECT LEADER:	J. LACROIX	CHECKED BY:	W. PELLETIER
BORING LOG SHEET 5		SHEET	33 OF 90