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Bottom 8": Light brown, fine to coarse SAND, little Gravel, little Silt, with block, mottled rock fill (slag).	
Depth (ft)	Core No.	Type	Penetration (lb/in)	Friction (lb/in)	Moisture Content (%)	Blow Count (N)	Blow Count (6)	Blow Count (12)	Blow Count (18)	Blow Count (24)																																																																																																																																																																																																																																																																																																																																																																			
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										BEDROCK (Quartzite) 508.1		C1): Very hard, light to dark gray, slightly weathered orange-brown along fracture planes, closely to moderately jointed, fair quality QUARTZITE (ROD=57%). Fractures typically 5 and 70 degrees from the horizontal.																																																																																																																																																																																																																																																																																																																																																																	
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<p>1) Ground surface elevation measured in the field by Goodrich using a hand level.</p> <p>2) Split spoon sampler returned on possible large boulder or bedrock at 8.5' depth.</p> <p>3) Used 4.25" I.D. barrel stem cupper to core boulders to 8.5' depth. Attempted rock core. Water loss observed downhole estimated at 4 gpm, possibly below auger tip.</p> <p>4) Borehole from using bit to 10.5' site core barrel of 11.5' depth.</p>																																																																																																																																																																																																																																																																																																																																																																													
<p>1) Borehole logs represent approximate boundary between soil types, location may be varied.</p> <p>2) Near and Far Depth from Top of Hole at Time and Date Drilled, Penetration of Corehead by Date and Time from Time from Start of the Test Measurement from Hole.</p> <p>3) All other values are as indicated.</p> <p>4) Sample Type (e.g., SS) is as indicated.</p> <p>5) Penetration Rate (lb/in) = (lb/in) / (min) = (lb/in) / (min) = (lb/in) / (min)</p> <p>6) Friction Rate (lb/in) = (lb/in) / (min) = (lb/in) / (min) = (lb/in) / (min)</p> <p>7) Borehole logs represent approximate boundary between soil types, location may be varied.</p>																																																																																																																																																																																																																																																																																																																																																																													

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(24)	0	S1	SS	24	10	0	1	2	WR	WR		1	S2	SS	24	3	3	2	8	4	2		2	S3	SS	24	4	5	1	3	2	7		3	S4	SS	24	3	7	5	3	3	4		4	S5	SS	24	5	9	6	4	5	5		5	S6	SS	24	4	11	6	5	8	13		6	S7	SS	24	0	13	14	8	8	10		7	S8	SS	24	12	16	10	25	23	28		8	S9	SS	24	14	20	28	38	22	35		9	S10	SS	0	0	0	0					10	S11	SS	0	0	0	0					11	S12	SS	0	0	0	0					12	S13	SS	0	0	0	0					13	S14	SS	0	0	0	0					14	S15	SS	0	0	0	0					15	S16	SS	0	0	0	0					16	S17	SS	0	0	0	0					17	S18	SS	0	0	0	0					18	S19	SS	0	0	0	0					19	S20	SS	0	0	0	0					20	S21	SS	0	0	0	0					21	S22	SS	0	0	0	0					22	S23	SS	0	0	0	0					23	S24	SS	0	0	0	0					24	S25	SS	0	0	0	0					25	S26	SS	0	0	0	0					26	S27	SS	0	0	0	0					27	S28	SS	0	0	0	0					28	S29	SS	0	0	0	0					29	S30	SS	0	0	0	0					30	S31	SS	0	0	0	0					SAND and GRAVEL FILL		S1): Loose, gray-brown, fine to coarse SAND, little Silt, trace Gravel with roots, dry.	
Depth (ft)	Core No.	Type	Penetration (lb/in)	Friction (lb/in)	Moisture Content (%)	Blow Count (N)	Blow Count (6)	Blow Count (12)	Blow Count (18)	Blow Count (24)																																																																																																																																																																																																																																																																																																																																																																			
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<p>1) Ground surface elevation collected in the field by Goodrich using a hand level.</p> <p>2) Void noted during split spoon sampling between 1' to 3' depth. (i.e., split spoon sampler dropped).</p> <p>3) Cobble and boulders (estimated up to 6" diameter) observed between 7' to 9' depth during split spoon advance.</p> <p>4) Possible jamming during split spoon sampling between 13' to 14.5' depth.</p> <p>5) Harder drilling resistance observed below 15' depth. Very dense soils observed between 15' to 20' depth including coarse gravel and cobbles up to 6" diameter. Split spoon sample attempted at 20' depth.</p>																																																																																																																																																																																																																																																																																																																																																																													
<p>1) Borehole logs represent approximate boundary between soil types, location may be varied.</p> <p>2) Near and Far Depth from Top of Hole at Time and Date Drilled, Penetration of Corehead by Date and Time from Time from Start of the Test Measurement from Hole.</p> <p>3) All other values are as indicated.</p> <p>4) Sample Type (e.g., SS) is as indicated.</p> <p>5) Penetration Rate (lb/in) = (lb/in) / (min) = (lb/in) / (min) = (lb/in) / (min)</p> <p>6) Friction Rate (lb/in) = (lb/in) / (min) = (lb/in) / (min) = (lb/in) / (min)</p> <p>7) Borehole logs represent approximate boundary between soil types, location may be varied.</p>																																																																																																																																																																																																																																																																																																																																																																													

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Geotechnical Engineers/Environmental Consultants/Construction Engineers P.O. Box 689 Windsor, VT 05090 Phone: 802-474-5923/Fax: 802-474-5943										Route 125 Bridge RS 0174 (8) Middlebury, VT		File No.: 750-04.1																																																																																																																																																																																																																																																																																																																																																																	
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<table border="1"> <thead> <tr> <th>Depth (ft)</th> <th>Core No.</th> <th>Type</th> <th>Penetration (lb/in)</th> <th>Friction (lb/in)</th> <th>Moisture Content (%)</th> <th>Blow Count (N)</th> <th>Blow Count (6)</th> <th>Blow Count (12)</th> <th>Blow Count (18)</th> <th>Blow Count (24)</th> </tr> </thead> <tbody> <tr><td>0</td><td>S1</td><td>SS</td><td>24</td><td>6</td><td>0</td><td>2</td><td>3</td><td>3</td><td>2</td><td></td></tr> <tr><td>1</td><td>S2</td><td>SS</td><td>24</td><td>6</td><td>2</td><td>3</td><td>4</td><td>11</td><td>11</td><td></td></tr> <tr><td>2</td><td>S3</td><td>SS</td><td>24</td><td>10</td><td>4</td><td>6</td><td>3</td><td>8</td><td>11</td><td></td></tr> <tr><td>3</td><td>S4</td><td>SS</td><td>24</td><td>12</td><td>6</td><td>33</td><td>10</td><td>5</td><td>4</td><td></td></tr> <tr><td>4</td><td>S5</td><td>SS</td><td>24</td><td>0</td><td>8</td><td>9</td><td>7</td><td>4</td><td>3</td><td></td></tr> <tr><td>5</td><td>S6</td><td>SS</td><td>24</td><td>16</td><td>10</td><td>9</td><td>10</td><td>14</td><td>16</td><td></td></tr> <tr><td>6</td><td>S7</td><td>SS</td><td>12</td><td>8</td><td>12</td><td>38</td><td>45</td><td></td><td></td><td></td></tr> <tr><td>7</td><td>S8</td><td>SS</td><td>24</td><td>14</td><td>15</td><td>15</td><td>29</td><td>31</td><td>36</td><td></td></tr> <tr><td>8</td><td>S9</td><td>SS</td><td>3</td><td>1</td><td>17</td><td>50/3"</td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td>S10</td><td>SS</td><td>24</td><td>16</td><td>20</td><td>32</td><td>32</td><td>40</td><td>35</td><td></td></tr> <tr><td>10</td><td>S11</td><td>SS</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td><td></td><td></td><td></td></tr> <tr><td>11</td><td>S12</td><td>SS</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td><td></td><td></td><td></td></tr> <tr><td>12</td><td>S13</td><td>SS</td><td>0</td><td>0</td><td>0</td><td>0</td><td></td><td></td><td></td><td></td></tr> 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(24)	0	S1	SS	24	6	0	2	3	3	2		1	S2	SS	24	6	2	3	4	11	11		2	S3	SS	24	10	4	6	3	8	11		3	S4	SS	24	12	6	33	10	5	4		4	S5	SS	24	0	8	9	7	4	3		5	S6	SS	24	16	10	9	10	14	16		6	S7	SS	12	8	12	38	45				7	S8	SS	24	14	15	15	29	31	36		8	S9	SS	3	1	17	50/3"					9	S10	SS	24	16	20	32	32	40	35		10	S11	SS	0	0	0	0					11	S12	SS	0	0	0	0					12	S13	SS	0	0	0	0					13	S14	SS	0	0	0	0					14	S15	SS	0	0	0	0					15	S16	SS	0	0	0	0					16	S17	SS	0	0	0	0					17	S18	SS	0	0	0	0					18	S19	SS	0	0	0	0					19	S20	SS	0	0	0	0					20	S21	SS	0	0	0	0					21	S22	SS	0	0	0	0					22	S23	SS	0	0	0	0					23	S24	SS	0	0	0	0					24	S25	SS	0	0	0	0					25	S26	SS	0	0	0	0					26	S27	SS	0	0	0	0					27	S28	SS	0	0	0	0					28	S29	SS	0	0	0	0					29	S30	SS	0	0	0	0					30	S31	SS	0	0	0	0					SAND and GRAVEL FILL		S1): Loose, dark brown, fine to coarse SAND, some Silt, trace fine Gravel with roots and pine needles.	
Depth (ft)	Core No.	Type	Penetration (lb/in)	Friction (lb/in)	Moisture Content (%)	Blow Count (N)	Blow Count (6)	Blow Count (12)	Blow Count (18)	Blow Count (24)																																																																																																																																																																																																																																																																																																																																																																			
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										SAND and GRAVEL FILL		S3): Loose, light brown to orange, fine to medium SAND, some Silt, little Gravel, moist.																																																																																																																																																																																																																																																																																																																																																																	
										SAND and GRAVEL FILL		S4): Medium dense, similar to S3 except with coarse Sand, little Gravel and tree roots.																																																																																																																																																																																																																																																																																																																																																																	
										SAND and GRAVEL FILL		S5): Medium dense. No recovery.																																																																																																																																																																																																																																																																																																																																																																	
										GLACIAL TILL (with Cobbles) 580.0		S6): Medium dense, light brown, fine to medium SAND, some Silt, little Gravel.																																																																																																																																																																																																																																																																																																																																																																	
										GLACIAL TILL (with Cobbles) 580.0		Bottom 4": gray-brown with pulverized rock fragments.																																																																																																																																																																																																																																																																																																																																																																	
										GLACIAL TILL (with Cobbles) 580.0		S7): Refusal. Similar to S6 except beige-brown with little Silt.																																																																																																																																																																																																																																																																																																																																																																	
										GLACIAL TILL (with Cobbles) 580.0		S8): Very dense, olive-brown, fine to medium SAND, some Silt, little fine to coarse Gravel, wetter than S7.																																																																																																																																																																																																																																																																																																																																																																	
										GLACIAL TILL (with Cobbles) 580.0		S9): Very dense/Refusal. Similar to S8 with green schistose piece of Gravel in spoon tip.																																																																																																																																																																																																																																																																																																																																																																	
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<p>1) Ground surface elevation collected in the field by Goodrich using a hand level.</p> <p>2) Possibly passing live root at 6' depth during split spoon sampling.</p> <p>3) Split spoon refusal on probable boulder at 13' depth. Cobble/coarse Gravel observed from drilling distance between 11' and 15' depth.</p> <p>4) Harder drilling resistance observed below 15' depth through coarse soils. Split spoon auger advanced boulders to 20' depth. Attempted split spoon sample.</p>																																																																																																																																																																																																																																																																																																																																																																													
<p>1) Borehole logs represent approximate boundary between soil types, location may be varied.</p> <p>2) Near and Far Depth from Top of Hole at Time and Date Drilled, Penetration of Corehead by Date and Time from Time from Start of the Test Measurement from Hole.</p> <p>3) All other values are as indicated.</p> <p>4) Sample Type (e.g., SS) is as indicated.</p> <p>5) Penetration Rate (lb/in) = (lb/in) / (min) = (lb/in) / (min) = (lb/in) / (min)</p> <p>6) Friction Rate (lb/in) = (lb/in) / (min) = (lb/in) / (</p>																																																																																																																																																																																																																																																																																																																																																																													