

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Gagnon Brook Railway Bridge #259.11

Location: Frenchville, Maine

Boring No.: BB-FGB-101

PIN: 21776.00

Driller:	Elevation (ft.):	Auger ID/OD:
Operator:	Datum:	Sampler: Split Spoon
Logged By: B. Woodman	Rig Type: High Rail	Hammer Wt./Fall: 140/30
Date Start/Finish: 8-23-17/8-24-17	Drilling Method: SPT / Drive & Wash	Core Barrel:
Boring Location:	Casing ID/OD: 4"	Water Level*: 24.7'

Hammer Efficiency Factor:	Hammer Type: Automatic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cathead <input checked="" type="checkbox"/>
Definitions: D = Split Spoon Sample MD = Unsuccessful Split Spoon Sample attempt U = Thin Wall Tube Sample MU = Unsuccessful Thin Wall Tube Sample attempt V = Insitu Vane Shear Test MV = Unsuccessful Insitu Vane Shear Test attempt	R = Rock Core Sample SSA = Solid Stem Auger HSA = Hollow Stem Auger RC = Roller Cone WOH = weight of 140lb. hammer WOR = weight of rods WO1P = Weight of one person
	S _u = Insitu Field Vane Shear Strength (psf) T _v = Pocket Torvane Shear Strength (psf) q _p = Unconfined Compressive Strength (ksf) N-uncorrected = Raw field SPT N-value Hammer Efficiency Factor = Annual Calibration Value N ₆₀ = SPT N-uncorrected corrected for hammer efficiency N ₆₀ = (Hammer Efficiency Factor/60%)*N-uncorrected
	S _{u(lab)} = Lab Vane Shear Strength (psf) WC = water content, percent LL = Liquid Limit PL = Plastic Limit PI = Plasticity Index G = Grain Size Analysis C = Consolidation Test

Depth (ft.)	Sample Information								Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/AASHTO and Unified Class.
	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (/6 in.) Shear Strength (psf) or RCQD (%)	N-uncorrected	N ₆₀	Casing Blows					
0									-1.5	0'-1.5': Ballast		
5	1D	24/13	5.0 - 7.0	10-10-12-10	22	0	49			Olive-brown, moist, medium dense, fine to coarse SAND, some Silt, little Gravel. -FILL-		
10	2D	24/8	10.0 - 12.0	18-7-5-3	12	0	15			Brown, moist, medium dense, fine to medium SAND, some Silt, trace Gravel. -FILL-		
15	3D	24/13	15.0 - 17.0	11-10-4-7	14	0	16			Top 11": Gray, moist, medium dense, fine to coarse SAND, some Silt, little Gravel. -FILL- Lower 2": Brown, moist, medium dense, fine to coarse SAND, little Silt, little Gravel. -FILL-		
20	4D	24/15	20.0 - 22.0	3-1-1-7	2	0	11			Olive-brown, moist, very loose, fine to medium SAND, some Silt, wood present. -FILL-		
25							45					

Remarks: These DRAFT logs represent an unreviewed summary of field classifications of soil and rock and are lacking survey of as-drilled locations and elevations.

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Operator:	Datum:	Sampler: Split Spoon
Logged By: B. Woodman	Rig Type: High Rail	Hammer Wt./Fall: 140/30
Date Start/Finish: 8-23-17/8-24-17	Drilling Method: SPT / Drive & Wash	Core Barrel:
Boring Location:	Casing ID/OD: 4"	Water Level*: 24.7'
Hammer Efficiency Factor:	Hammer Type: Automatic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cathead <input checked="" type="checkbox"/>	

Definitions: R = Rock Core Sample
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 V = Insitu Vane Shear Test WOR = weight of rods
 MV = Unsuccessful Insitu Vane Shear Test attempt WO1P = Weight of one person

S_u = Insitu Field Vane Shear Strength (psf) S_{u(lab)} = Lab Vane Shear Strength (psf)
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 N₆₀ = SPT N-uncorrected corrected for hammer efficiency
 N₆₀ = (Hammer Efficiency Factor/60%)*N-uncorrected
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Depth (ft.)	Sample Information								Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/AASHTO and Unified Class.
	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (6 in.) Shear Strength (psf) or RQD (%)	N-uncorrected	N ₆₀	Casing Blows					
25	5D	16/10	25.0 - 26.3	22-34-50/3"	R		R/C				Olive-brown, moist, very dense, fine to coarse SAND, little Silt, little Gravel. -FILL- 26.3'-27.0': Apparent cobble	
30	6D	24/19	30.0 - 32.0	47-70-59-76	129		0				Gray, moist, hard, fine, silty, SAND, little fine Sand, trace Clay. -GLACIAL TILL-	
35	7D	24/18	35.0 - 37.0	16-26-41-68	67		0				Gray, moist, hard, fine, silty, SAND, little fine to medium Sand, little Clay. -GLACIAL TILL-	
40	8D	16/12	40.0 - 41.3	47-71-117/3"							Gray, moist, hard, fine, silty, SAND, little fine to medium Sand, little Clay. -GLACIAL TILL-	
45	9D	24/13	45.0 - 47.0	43-23-19-32	42		0				Gray, moist, hard, fine, silty, SAND, little Clay, trace fine to medium Sand.	
50												

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Operator:	Datum:	Sampler: Split Spoon
Logged By: B. Woodman	Rig Type: High Rail	Hammer Wt./Fall: 140/30
Date Start/Finish: 8-23-17/8-24-17	Drilling Method: SPT / Drive & Wash	Core Barrel:
Boring Location:	Casing ID/OD: 4"	Water Level*: 24.7'
Hammer Efficiency Factor:	Hammer Type: Automatic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cathead <input checked="" type="checkbox"/>	

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 MU = Unsuccessful Thin Wall Tube Sample attempt WOH = weight of 140lb. hammer
 V = Insitu Vane Shear Test WOR = weight of rods
 MV = Unsuccessful Insitu Vane Shear Test attempt WO1P = Weight of one person

S_u = Insitu Field Vane Shear Strength (psf) $S_{u(lab)}$ = Lab Vane Shear Strength (psf)
 T_v = Pocket Torvane Shear Strength (psf) WC = water content, percent
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 LL = Liquid Limit
 PL = Plastic Limit
 Hammer Efficiency Factor = Annual Calibration Value
 N_{60} = SPT N-uncorrected corrected for hammer efficiency
 PI = Plasticity Index
 N_{60} = (Hammer Efficiency Factor/60%)*N-uncorrected
 G = Grain Size Analysis
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Depth (ft.)	Sample Information								Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/AASHTO and Unified Class.
	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (6 in.) Shear Strength (psf) or RQD (%)	N-uncorrected	N ₆₀	Casing Blows					
50	10D	24/20	50.0 - 52.0	15-20-41-50	61	0				Gray, moist, hard, Silty CLAY, trace fine Sand. -GLACIAL TILL-		
55	11D	24/22	55.0 - 57.0	20-37-54-76	91	0				Gray, moist, hard, fine, silty, SAND, some Clay, trace fine Sand. -GLACIAL TILL-		
60	12D	24/21	60.0 - 62.0	20-24-31-42	55	0				Gray, moist, hard, fine, silty, SAND, some Clay, trace fine Sand. -GLACIAL TILL-		
65	13D	24/19	65.0 - 67.0	20-27-35-42	62	0				Gray, moist, hard, fine, silty, SAND, trace medium Sand, trace Clay. -GLACIAL TILL-		
70	14D	20/13	70.0 - 71.7	52-66-98-100	164	0				Gray, moist, very dense, fine to medium SAND, some Weathered Rock, little coarse Sand, trace Gravel. -GLACIAL TILL-		
75												

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Driller:	Elevation (ft.):	Auger ID/OD:
Operator:	Datum:	Sampler: Split Spoon
Logged By: B. Woodman	Rig Type: High Rail	Hammer Wt./Fall: 140/30
Date Start/Finish: 8-23-17/8-24-17	Drilling Method: SPT / Drive & Wash	Core Barrel:
Boring Location:	Casing ID/OD: 4"	Water Level*: 24.7'
Hammer Efficiency Factor:	Hammer Type: Automatic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cathead <input checked="" type="checkbox"/>	

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 MU = Unsuccessful Thin Wall Tube Sample attempt WOH = weight of 140lb. hammer
 V = Insitu Vane Shear Test WOR = weight of rods
 MV = Unsuccessful Insitu Vane Shear Test attempt WO1P = Weight of one person

S_u = Insitu Field Vane Shear Strength (psf) $S_{u(lab)}$ = Lab Vane Shear Strength (psf)
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Depth (ft.)	Sample Information								Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/AASHTO and Unified Class.
	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (6 in.) Shear Strength (psf) or RQD (%)	N-uncorrected	N_{60}	Casing Blows					
75	15D	5/0	75.0 - 75.4	100/4"					-75.0	No recovery. Spoon head deformed upon extraction. Attempted to extract spoon shoe with roller cone. Extracted spoon shoe with core barrel, set up to core at 79.0'. R1: 79.0'-82.7' Rock Mass Quality = Recovery = 82% Rock Core Times (min:ft): 79.0-80.0 (4:05) 80.0-81.0 (4:43) 81.0-82.0 (4:15) 82.0-82.7 (3:13) R2: 82.7'-85.7' Rock Mass Quality = Recovery = 89% Rock Core Times (min:ft): 82.7-83.0 (1:21) 83.0-84.0 (2:02) 84.0-85.0 (2:47) 85.0-85.7 (1:46)		
80	R1	44/36	79.0 - 82.7	RQD = 17%								
85	R2	36/32	82.7 - 85.7	RQD = 17%					-85.7			
85.7										Bottom of Exploration at 85.70 feet below ground surface.		
90												
95												
100												

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Boring No.: BB-FGB-102

PIN: 21776.00

Driller:	Elevation (ft.):	Auger ID/OD:
Operator:	Datum:	Sampler: Split Spoon
Logged By: B. Woodman	Rig Type: High Rail	Hammer Wt./Fall: 140/30
Date Start/Finish: 8-22-17/8-23-17	Drilling Method: Drive & Wash	Core Barrel:
Boring Location:	Casing ID/OD: 4"	Water Level*: N/A

Hammer Efficiency Factor: **Hammer Type:** Automatic Hydraulic Rope & Cathead

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 MU = Unsuccessful Thin Wall Tube Sample attempt WOH = weight of 140lb. hammer Hammer Efficiency Factor = Annual Calibration Value PI = Plasticity Index
 V = Insitu Vane Shear Test WOR = weight of rods N₆₀ = SPT N-uncorrected corrected for hammer efficiency G = Grain Size Analysis
 MV = Unsuccessful Insitu Vane Shear Test attempt WO1P = Weight of one person N₆₀ = (Hammer Efficiency Factor/60%)*N-uncorrected C = Consolidation Test

Depth (ft.)	Sample Information							Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/AASHTO and Unified Class.
	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (/6 in.) Shear Strength (psf) or RQD (%)	N-uncorrected	N ₆₀	Casing Blows				
0									0'-1.5': Ballast		
								-1.5			
						28					
						25					
5	1D	24/9	5.0 - 7.0	14-9-15-15	14	0	8		Brown, moist, medium dense, fine to coarse SAND, little Silt, little Gravel. -FILL-		
						24					
						35					
						32					
10	2D	24/7	10.0 - 12.0	11-6-6-7	12	0	27		Olive-brown, moist, fine to coarse SAND, little Clay, little Gravel. -FILL-		
						18					
						22					
						22					
15	3D	24/10	15.0 - 17.0	6-7-7-11	14	0	23		Olive-brown, moist, fine to coarse SAND, little Silt, little Gravel, trace Clay. -FILL-		
						27					
						40					
						24					
20	4D	24/12	20.0 - 22.0	11-12-10-10	22	0	28		Olive-brown, moist, fine to coarse SAND, some Silt, some Gravel, trace Clay. -FILL-		
						28					
						111					
						66					
						55					
25											

Remarks: These DRAFT logs represent an unreviewed summary of field classifications of soil and rock and are lacking survey of as-drilled locations and elevations.

- Apparent boulder at 11.0'
- Head of spoon detached upon sample collection. 3" casing advanced through 32.0' to remove spoon head.

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Boring No.: BB-FGB-102

PIN: 21776.00

Driller:	Elevation (ft.):	Auger ID/OD:
Operator:	Datum:	Sampler: Split Spoon
Logged By: B. Woodman	Rig Type: High Rail	Hammer Wt./Fall: 140/30
Date Start/Finish: 8-22-17/8-23-17	Drilling Method: Drive & Wash	Core Barrel:
Boring Location:	Casing ID/OD: 4"	Water Level*: N/A
Hammer Efficiency Factor:	Hammer Type: Automatic <input type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cathead <input checked="" type="checkbox"/>	

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	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (6 in.) Shear Strength (psf) or RQD (%)	N-uncorrected	N ₆₀	Casing Blows					
25	5D	24/4	25.0 - 27.0	20-39-31-34	70	0	20			Olive-brown, moist, very dense, fine to coarse SAND, little Clay, little Silt, little Gravel. -FILL-		
							119					
							31					
							68					
30	6D	24/9	30.0 - 32.0	16-15-29-43	44	0	67			Olive-brown, moist, dense, silty SAND, little Clay, little Gravel. -FILL-		
							66					
							103 R/C	33.0				
35	7D	6/3	35.0 - 35.5	150/6"						Olive-brown, moist, fine to coarse SAND, little Clay, little Silt, trace Gravel. Metal from spoon head in sample. -FILL-		
40	8D	24/20	40.0 - 42.0	31-60-83-76	143	0				Gray, moist, very dense, fine SAND, some Silt, little Clay, little Gravel. -GLACIAL TILL-		
45	9D	21/13	45.0 - 46.8	35-42-83-74	125	0				Gray, moist, very dense, fine to coarse SAND, some Silt, little Clay, trace Gravel. -GLACIAL TILL-		
50												

Remarks: These DRAFT logs represent an unreviewed summary of field classifications of soil and rock and are lacking survey of as-drilled locations and elevations.
 1. Apparent boulder at 35.0'
 2. Head of spoon detached upon sample collection. 3' casing advanced through 32.0' to remove spoon head.

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50	10D	24/18	50.0 - 52.0	26-38-52-82	90	0				Gray, moist, hard, Silty CLAY, little Sand.	
55	11D	24/20	55.0 - 57.0	34-44-65-98	109	0				Gray, moist, hard, CLAY, little Silt, trace Sand.	
60	12D	24/19	60.0 - 62.0	29-51-54-89	105	0				Gray, moist, hard, fine, Silty CLAY, trace fine Sand.	
65	13D	24/21	65.0 - 67.0	31-62-60-66	122	0				Gray, moist, hard, fine Silty CLAY, trace fine Sand, uniform.	
70	14D	24/18	70.0 - 72.0	28-39-80-156	119	0				Gray, moist, hard, fine Silty CLAY, trace fine Sand, uniform.	
75											

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1. Apparent boulder at 35.0'
2. Head of spoon detached upon sample collection.
3. casing advanced through 32.0' to remove spoon head.

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	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (6 in.) Shear Strength (psf) or RQD (%)	N-uncorrected	N ₆₀	Casing Blows					
75	15D	4/4	75.0 - 75.3	118/3"					-76.0	Gray, moist, hard, fine, Silty CLAY, little fine Sand, trace Gravel. -GLACIAL TILL- Roller cone grinding/refusal, set up to core at 76.0'. R1: 76.0'-78.9' Rock Mass Quality = Recovery = 100% Rock Core Times (min:ft): 76.0-77.0 (6:05) 77.0-78.0 (6:06) 78.0-78.9 (6:07) R2: 78.9'-83.8' Rock Mass Quality = Recovery = 89% Rock Core Times (min:ft): 78.9-79.0 (0:26) 79.0-80.0 (6:03) 80.0-81.0 (5:57) 81.0-82.0 (5:33) 82.0-83.0 (5:23) 83.0-83.8 (4:19) R3: 83.8'-87.4' Rock Mass Quality = Recovery = 100% Rock Core Times (min:ft): 83.8-84.8 (3:19) 84.8-85.8 (4:43) 85.8-86.8 (4:02) 86.8-87.4 (3:53)		
	R1	35/35	76.0 - 78.9	RQD = 0%								
	R2	59/53	78.9 - 83.8	RQD = 78%								
80												
	R3	44/44	83.8 - 87.5	RQD = 95%								
85												
90									-88.7	Bottom of Exploration at 88.70 feet below ground surface.		
95												
100												

Remarks: These DRAFT logs represent an unreviewed summary of field classifications of soil and rock and are lacking survey of as-drilled locations and elevations.
 1. Apparent boulder at 75.0'.
 2. Head of spoon detached upon sample collection. 3' casing advanced through 32.0' to remove spoon head.

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Boring No.: BB-FGB-103

PIN: 21776.00

Driller:	Elevation (ft.):	Auger ID/OD:
Operator:	Datum:	Sampler: Split Spoon
Logged By: B. Woodman	Rig Type: Track Rig	Hammer Wt./Fall: 140/30
Date Start/Finish: 8-28-17/8-28-17	Drilling Method: Drive & Wash	Core Barrel:
Boring Location:	Casing ID/OD: 4"	Water Level*: 11.0'

Hammer Efficiency Factor:	Hammer Type: Automatic <input checked="" type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cathead <input type="checkbox"/>
Definitions: D = Split Spoon Sample MD = Unsuccessful Split Spoon Sample attempt U = Thin Wall Tube Sample MU = Unsuccessful Thin Wall Tube Sample attempt V = Insitu Vane Shear Test MV = Unsuccessful Insitu Vane Shear Test attempt	R = Rock Core Sample SSA = Solid Stem Auger HSA = Hollow Stem Auger RC = Roller Cone WOH = weight of 140lb. hammer WOR = weight of rods WO1P = Weight of one person
	S _u = Insitu Field Vane Shear Strength (psf) T _v = Pocket Torvane Shear Strength (psf) q _p = Unconfined Compressive Strength (ksf) N-uncorrected = Raw field SPT N-value Hammer Efficiency Factor = Annual Calibration Value N ₆₀ = SPT N-uncorrected corrected for hammer efficiency N ₆₀ = (Hammer Efficiency Factor/60%)*N-uncorrected
	S _{u(lab)} = Lab Vane Shear Strength (psf) WC = water content, percent LL = Liquid Limit PL = Plastic Limit PI = Plasticity Index G = Grain Size Analysis C = Consolidation Test

Depth (ft.)	Sample Information								Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/AASHTO and Unified Class.
	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows ((6 in.) Shear Strength (psf) or RCD (%)	N-uncorrected	N ₆₀	Casing Blows					
0	1D	24/13	0.0 - 2.0	2-12-16-19	28	0	SSA			Brown, dry, medium dense, fine to coarse SAND, some Gravel, little Silt. -FILL-		
5	2D	24/3	4.0 - 6.0	15-4-10-22	14	0				Brown, dry, medium dense, fine to coarse SAND, some Silt, little Gravel. -FILL-		
10	3D	24/10	9.0 - 11.0	4-9-9-19	18	0	17			Brown/olive-brown, moist, medium dense, fine to coarse SAND, little Silt, little Gravel. -FILL-		
							70					
							55					
							104					
							R/C					
15	4D	24/13	14.0 - 16.0	30-30-62-77	92	0				Gray, moist, very dense, fine to coarse SAND, some Silt, little Gravel, trace Clay. -GLACIAL TILL-		
20	5D	18/11	19.0 - 20.5	33-84-124	208	0				Gray, moist, very dense, fine to coarse SAND, some Silt, some Gravel, trace Clay. -GLACIAL TILL-		
25	26	24/17	24.0 - 26.0	22-41-38-60	79	0				Gray, moist, very dense, fine to coarse SAND, little Silt, little Gravel, trace Clay.		

Remarks: These DRAFT logs represent an unreviewed summary of field classifications of soil and rock and are lacking survey of as-drilled locations and elevations.

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Gagnon Brook Railway Bridge #259.11

Location: Frenchville, Maine

Boring No.: BB-FGB-103

PIN: 21776.00

Driller:	Elevation (ft.):	Auger ID/OD:
Operator:	Datum:	Sampler: Split Spoon
Logged By: B. Woodman	Rig Type: Track Rig	Hammer Wt./Fall: 140/30
Date Start/Finish: 8-28-17/8-28-17	Drilling Method: Drive & Wash	Core Barrel:
Boring Location:	Casing ID/OD: 4"	Water Level*: 11.0'

Hammer Efficiency Factor:

Hammer Type: Automatic Hydraulic Rope & Cathead

Definitions:
 R = Rock Core Sample
 SSA = Solid Stem Auger
 HSA = Hollow Stem Auger
 RC = Roller Cone
 WOH = weight of 140lb. hammer
 WOR = weight of rods
 WO1P = Weight of one person
 S_u = Insitu Field Vane Shear Strength (psf)
 T_v = Pocket Torvane Shear Strength (psf)
 q_p = Unconfined Compressive Strength (ksf)
 N-uncorrected = Raw field SPT N-value
 Hammer Efficiency Factor = Annual Calibration Value
 N₆₀ = SPT N-uncorrected corrected for hammer efficiency
 N₆₀ = (Hammer Efficiency Factor/60%)*N-uncorrected
 S_{u(lab)} = Lab Vane Shear Strength (psf)
 WC = water content, percent
 LL = Liquid Limit
 PL = Plastic Limit
 PI = Plasticity Index
 G = Grain Size Analysis
 C = Consolidation Test

Depth (ft.)	Sample Information								Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/AASHTO and Unified Class.
	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (6 in.) Shear Strength (psf) or RQD (%)	N-uncorrected	N ₆₀	Casing Blows					
25											-GLACIAL TILL-	
30	7D	24/24	29.0 - 31.0	70-64-67-87	131	0					Gray, moist, very dense, fine to coarse SAND, some Gravel, little Silt. -GLACIAL TILL-	
40	8D	24/21	39.0 - 41.0	14-31-44-66	75	0					Gray, moist, hard, fine, silty, SAND, little Clay, trace medium Sand. -GLACIAL TILL-	
50	9D	24/20	49.0 - 51.0	31-42-54-73	98	0					Gray, moist, hard, fine, silty, SAND, trace Clay. -GLACIAL TILL-	

Remarks: These DRAFT logs represent an unreviewed summary of field classifications of soil and rock and are lacking survey of as-drilled locations and elevations.

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Gagnon Brook Railway Bridge #259.11

Location: Frenchville, Maine

Boring No.: BB-FGB-103

PIN: 21776.00

Driller:	Elevation (ft.):	Auger ID/OD:
Operator:	Datum:	Sampler: Split Spoon
Logged By: B. Woodman	Rig Type: Track Rig	Hammer Wt./Fall: 140/30
Date Start/Finish: 8-28-17/8-28-17	Drilling Method: Drive & Wash	Core Barrel:
Boring Location:	Casing ID/OD: 4"	Water Level*: 11.0'

Hammer Efficiency Factor: _____ **Hammer Type:** Automatic Hydraulic Rope & Cathead

Definitions: R = Rock Core Sample S_u = Insitu Field Vane Shear Strength (psf) S_{u(lab)} = Lab Vane Shear Strength (psf)
 D = Split Spoon Sample SSA = Solid Stem Auger T_v = Pocket Torvane Shear Strength (psf) WC = water content, percent
 MD = Unsuccessful Split Spoon Sample attempt HSA = Hollow Stem Auger q_p = Unconfined Compressive Strength (ksf) LL = Liquid Limit
 U = Thin Wall Tube Sample RC = Roller Cone N-uncorrected = Raw field SPT N-value PL = Plastic Limit
 MU = Unsuccessful Thin Wall Tube Sample attempt WOH = weight of 140lb. hammer Hammer Efficiency Factor = Annual Calibration Value PI = Plasticity Index
 V = Insitu Vane Shear Test WOR = weight of rods N₆₀ = SPT N-uncorrected corrected for hammer efficiency G = Grain Size Analysis
 MV = Unsuccessful Insitu Vane Shear Test attempt WO1P = Weight of one person N₆₀ = (Hammer Efficiency Factor/60%)*N-uncorrected C = Consolidation Test

Depth (ft.)	Sample Information								Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/AASHTO and Unified Class.
	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (6 in.) Shear Strength (psf) or RQD (%)	N-uncorrected	N ₆₀	Casing Blows					
50												
55												
60	R1	60/48	59.0 - 64.0	RQD = 15%								
65	R2	40/39	64.0 - 67.3	RQD = 18%								
70												
75												

Remarks: These DRAFT logs represent an unreviewed summary of field classifications of soil and rock and are lacking survey of as-drilled locations and elevations.