



QS
4708 N Barker RD
Spokane Valley, WA 99027
Telephone: 509-892-9409

BORING NUMBER BH-251

PAGE 1 OF 1

CLIENT PAR Electrical Contractors PROJECT NAME Northern Pass
 PROJECT NUMBER 16004 PROJECT LOCATION Campton, NH
 DATE STARTED 5/23/16 COMPLETED 5/23/16 GROUND ELEVATION NA HOLE SIZE 6 in
 DRILLING CONTRACTOR SW Cole LATITUDE 43.806027 LONGITUDE -71.67195
 DRILLING METHOD Hollow Stem Auger DRILLING EQUIPMENT Diedrich D50 SPT HAMMER 140 lb Auto
 LOGGED BY J. Melton CHECKED BY S. Kearney GROUND WATER LEVEL:
 NOTES drilled at stake location ∇ AT TIME OF DRILLING 3.0ft

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 11:28 - C:\USERS\LGSC\HWINDESKTOP\PROJECTS\NORTHERN PASS\NORTHERN PASS TRENCH COMPLETED LOGS\CAMPTON, NH\NH CAMPTON.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
0 - 2.0	GB 1			SP		FILL: POORLY GRADED SAND WITH GRAVEL (SP), trace organics, dark brown, moist, loose, coarse to very coarse grained gravel, fine grained sand, angular
2.0 - 5.0				SP		STREAM TERRACE DEPOSITS: POORLY GRADED SAND WITH GRAVEL (SP), light brown, moist, medium dense, fine to medium grained, fine grained gravel, subrounded
5.0	SPT 2	50	1-3-22 (25)			
5.0 - 8.5						
8.5 - 10.5				ML		STREAM TERRACE DEPOSITS: SANDY SILT (ML), yellowish brown, wet, hard, very fine grained
10.5	SPT 3	83	22-19-17 (36)			
10.5 - 15.0						STREAM TERRACE DEPOSITS: BOULDERS, grayish white and light brown, highly weathered, massive, extremely weak granite with zones of argillic alteration
15.0	SPT 4	100	50/4"			-becomes completely to highly weathered

Bottom of borehole at 15.0 ft.
Backfilled with auger cuttings



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CLIENT PAR Electrical Contractors
PROJECT NUMBER 16004
DATE STARTED 5/23/16 **COMPLETED** 5/23/16
DRILLING CONTRACTOR SW Cole
DRILLING METHOD Hollow Stem Auger
LOGGED BY J. Melton **CHECKED BY** S. Kearney
NOTES

PROJECT NAME Northern Pass
PROJECT LOCATION Plymouth, NH
GROUND ELEVATION NA **HOLE SIZE** 4 in
LATITUDE 43.803951 **LONGITUDE** -71.673353
DRILLING EQUIPMENT Diedrich D50 **SPT HAMMER** 140 lb Auto
GROUND WATER LEVEL:
 ∇ **AT TIME OF DRILLING** 10.0ft

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NINPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
0 - 4.5	GB 1			SP		FILL: POORLY GRADED SAND WITH GRAVEL (SP), trace organics, brown, wet, very loose, coarse to very coarse grained gravel, fine grained sand, angular, lenses of silt material
4.5 - 10	SPT 2	100	10-42-38 (80)	SP		-becomes loose, moist TILL: grayish white and light brown, highly to moderately weathered, very weak, medium to coarse grained, massive granitic boulder
10 - 14.0	SPT 3	100	12-20-22 (42)			-becomes extremely weak, completely to highly weathered granite, argillic alteration
14.0 - 15.5	SPT 4	100	13-27-42 (69)	SM		TILL: SILTY SAND WITH GRAVEL (SM), reddish brown, wet, very dense, coarse to very coarse grained gravel, fine grained sand, rounded, granitic gravels

Bottom of borehole at 15.5 ft.
 Backfilled with auger cuttings



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BORING NUMBER BH-254

CLIENT PAR Electrical Contractors
PROJECT NUMBER 16004
DATE STARTED 6/21/16 **COMPLETED** 6/21/16
DRILLING CONTRACTOR SW Cole
DRILLING METHOD Hollow Stem Auger
LOGGED BY J. Melton **CHECKED BY** S. Kearney
NOTES drilled at stake location

PROJECT NAME Northern Pass
PROJECT LOCATION Plymouth, NH
GROUND ELEVATION NA **HOLE SIZE** 4 in
LATITUDE 43.796286 **LONGITUDE** -71.673308
DRILLING EQUIPMENT Diedrich D50 **SPT HAMMER** 140 lb Auto
GROUND WATER LEVEL:
 ∇ **AT TIME OF DRILLING** 4.5ft

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/4/16 12:05 - C:\USERS\ILGSCHWIN\DESKTOP\SW-GW.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
				GM		FILL: SANDY GRAVEL WITH SILT (GM), trace organics, dry, loose, medium to coarse grained gravel
				GP		ALLUVIUM: POORLY GRADED GRAVEL WITH SAND (GP), yellowish brown, wet, loose, medium to coarse grained gravel, fine grained sand, subangular
5	SPT 1	44	6-6-6 (12)			∇
				CL		GLACIOLACUSTRINE: SILTY CLAY (CL), light olive gray, wet, medium stiff, low plasticity, fine grained sand
10	SPT 2	39	2-3-4 (7)			
				CL		-zones of oxidation throughout
15	SPT 3	67	3-3-3 (6)			

Bottom of borehole at 15.5 ft.
 Backfilled with auger cuttings



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BORING NUMBER BH-255

PAGE 1 OF 1

CLIENT PAR Electrical Contractors **PROJECT NAME** Northern Pass
PROJECT NUMBER 16004 **PROJECT LOCATION** Plymouth, NH
DATE STARTED 6/20/16 **COMPLETED** 6/20/16 **GROUND ELEVATION** NA **HOLE SIZE** 4 in
DRILLING CONTRACTOR SW Cole **LATITUDE** 43.794794 **LONGITUDE** -71.671809
DRILLING METHOD Hollow Stem Auger **DRILLING EQUIPMENT** Diedrich D50 **SPT HAMMER** 140 lb Auto
LOGGED BY J. Melton **CHECKED BY** S. Kearney **GROUND WATER LEVEL:**
NOTES drilled at stake location

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\ILGSCHWIN\DESKTOP\PROJECTS\NORTHERN PASS\NORTH PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NPPPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
5	SPT 1	50	17-21-29 (50)	GM		FILL: SANDY GRAVEL WITH SILT (GM), trace asphalt, dry, dense, medium to coarse grained gravel, very fine to fine grained sand, subangular
7.0				GM		STREAM TERRACE DEPOSITS: SILTY GRAVEL WITH SAND (GM), trace cobbles, yellowish brown, moist, very dense, fine to coarse grained gravel, fine to medium grained sand, subrounded
10	SPT 2	72	22-27-30 (57)			
15	SPT 3	0	50/1"	GM		-rock flour and angular medium grained gravels

Bottom of borehole at 15.0 ft.
 Backfilled with auger cuttings



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BORING NUMBER BH-256

PAGE 1 OF 1

CLIENT PAR Electrical Contractors **PROJECT NAME** Northern Pass
PROJECT NUMBER 16004 **PROJECT LOCATION** Plymouth, NH
DATE STARTED 6/20/16 **COMPLETED** 6/20/16 **GROUND ELEVATION** NA **HOLE SIZE** 6 in
DRILLING CONTRACTOR SW Cole **LATITUDE** 43.792982 **LONGITUDE** -71.669789
DRILLING METHOD Hollow Stem Auger **DRILLING EQUIPMENT** Diedrich D50 **SPT HAMMER** 140 lb Auto
LOGGED BY J. Melton **CHECKED BY** S. Kearney **GROUND WATER LEVEL:**
NOTES _____ ▽ AT TIME OF DRILLING 9.0ft

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NORTHEN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NINPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
3.3						FILL: SANDY GRAVEL WITH SILT, with silt, trace organics, grayish brown, moist, medium to coarse grained gravel, fine grained sand, angular
5	SPT 1	89	1-2-3 (5)	SP-SM		ALLUVIUM: POORLY GRADED SAND WITH SILT (SP-SM), trace organics, yellowish brown, moist, very loose, fine grained
10	SPT 2	72	2-1-3 (4)	SP-SM		▽ -without organics, wet
13.5						
15.5	SPT 3	59	10-17-50/5"	GM		TILL: SANDY GRAVEL WITH SILT (GM), yellowish brown, wet, very dense, medium to coarse grained gravel, very fine to fine grained sand, subangular

Bottom of borehole at 15.5 ft.
 Backfilled with auger cuttings



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BORING NUMBER BH-257

PAGE 1 OF 1

CLIENT PAR Electrical Contractors
PROJECT NUMBER 16004
DATE STARTED 5/21/16 **COMPLETED** 5/21/16
DRILLING CONTRACTOR SW Cole
DRILLING METHOD Hollow Stem Auger
LOGGED BY J. Melton **CHECKED BY** S. Kearney
NOTES drilled at stake location

PROJECT NAME Northern Pass
PROJECT LOCATION Plymouth, NH
GROUND ELEVATION NA **HOLE SIZE** 6 in
LATITUDE 43.790564 **LONGITUDE** -71.669202
DRILLING EQUIPMENT Diedrich D50 **SPT HAMMER** 140 lb Auto
GROUND WATER LEVEL:

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NINORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NINPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
3.0	GB 1			SP		FILL: POORLY GRADED SAND WITH GRAVEL (SP), trace organics, brown to dark brown, moist, loose, medium grained gravel, fine grained sand, subangular, lensed, silt lenses
5	SPT 2	83	2-2-2 (4)	SM		ALLUVIUM: SILTY SAND (SM), dark yellowish orange, moist, very loose, fine grained
10.3	SPT 3	83	2-1-3 (4)	SM		
10.3				SP		ALLUVIUM: POORLY GRADED SAND (SP), grayish orange, moist, very loose, fine grained
15.3	SPT 4	89	9-11-10 (21)	SP		-becomes loose
15.5				SM		ALLUVIUM: SILTY SAND (SM), yellowish gray, moist, medium dense, fine grained

Bottom of borehole at 15.5 ft.
Backfilled with auger cuttings



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BORING NUMBER BH-259

PAGE 1 OF 1

CLIENT PAR Electrical Contractors
PROJECT NUMBER 16004
DATE STARTED 6/20/16 **COMPLETED** 6/20/16
DRILLING CONTRACTOR SW Cole
DRILLING METHOD Hollow Stem Auger
LOGGED BY J. Melton **CHECKED BY** S. Kearney
NOTES

PROJECT NAME Northern Pass
PROJECT LOCATION Easton, NH
GROUND ELEVATION NA **HOLE SIZE** 6 in
LATITUDE 43.78450368 **LONGITUDE** -71.66879346
DRILLING EQUIPMENT Diedrich D50 **SPT HAMMER** 140 lb Auto
GROUND WATER LEVEL:
▽ **AT TIME OF DRILLING** 13.5ft

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 23:01 - C:\USERS\ILGSCHWIND\DESKTOP\PROJECTS\NORTHERN PASS\NORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NHPPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
	GB 1			SM		FILL: SILTY SAND WITH GRAVEL (SM), trace organics, trace roots, grayish brown, moist, loose, fine to medium grained, coarse grained gravel, subangular
5	SPT 1	83	2-3-4 (7)	SM		
				ML		ALLUVIUM: SANDY SILT (ML), dark yellowish orange, moist, medium stiff, fine grained, micaceous
				SM		ALLUVIUM: SILTY SAND (SM), grayish brown, moist, dense, fine grained, with granitic cobbles
10	SPT 2	100	9-16-39 (55)	SM		
						ALLUVIUM: slight to moderately weathered, very pale orange (10YR 8/2) and light brown (5YR 5/6), medium to coarse grained, medium weak, massive, granitic boulder
15	SPT 3	100	19-50-31 (81)			-becomes completely to highly weathered, extremely to very weak

Bottom of borehole at 15.5 ft.
Backfilled with auger cuttings



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BORING NUMBER BH-260

PAGE 1 OF 1

CLIENT PAR Electrical Contractors PROJECT NAME Northern Pass
 PROJECT NUMBER 16004 PROJECT LOCATION Plymouth, NH
 DATE STARTED 5/21/16 COMPLETED 5/21/16 GROUND ELEVATION NA HOLE SIZE 6 in
 DRILLING CONTRACTOR SW Cole LATITUDE 43.783437 LONGITUDE -71.670993
 DRILLING METHOD Hollow Stem Auger DRILLING EQUIPMENT Diedrich D50 SPT HAMMER 140 lb Auto
 LOGGED BY J. Melton CHECKED BY S. Kearney GROUND WATER LEVEL:
 NOTES drilled at stake location ∇ AT TIME OF DRILLING 8.5ft

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NINPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
0 - 4.5	GB 1			SP		FILL: POORLY GRADED SAND WITH GRAVEL (SP), olive gray, moist, very loose, medium to coarse grained gravel, fine to medium grained sand, subangular, lensed, silt lenses -becomes wet
4.5 - 10	SPT 2	100	2-1-2 (3)	ML		GLACIOLACUSTRINE: SANDY SILT (ML), light olive brown to dark yellow, wet, soft, very fine to fine grained, iron oxide staining
10 - 13.8	SPT 3	100	3-4-6 (10)	ML		∇ -becomes stiff, pale yellowish brown to light greenish brown, increase in oxidation zones
13.8 - 14.8	SPT 4	100	50-50/1"	SM		GLACIOLACUSTRINE: SILTY SAND (SM), gray to grayish brown, wet, very dense, fine grained
14.8 - 15.0						BEDROCK: SCHIST

Bottom of borehole at 15.0 ft.
Backfilled with auger cuttings



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BORING NUMBER BH-261

PAGE 1 OF 1

CLIENT PAR Electrical Contractors	PROJECT NAME Northern Pass
PROJECT NUMBER 16004	PROJECT LOCATION Plymouth, NH
DATE STARTED 5/21/16	COMPLETED 5/21/16
DRILLING CONTRACTOR SW Cole	GROUND ELEVATION NA
DRILLING METHOD Hollow Stem Auger	HOLE SIZE 6 in
LOGGED BY J. Melton	LATITUDE 43.781941
CHECKED BY S. Kearney	LONGITUDE -71.674072
NOTES	DRILLING EQUIPMENT Diedrich D50
	SPT HAMMER 140 lb Auto
	GROUND WATER LEVEL:
	▽ AT TIME OF DRILLING 8.0ft

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NHNORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NHPPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
	GB 1			SM		FILL: SILTY SAND (SM), and asphalt, trace organics, brown, moist, loose, coarse grained gravel, fine to medium grained sand, angular, trace organics
5	SPT 2	100	2-1-1 (2)	SP-SM		ALLUVIUM: POORLY GRADED SAND WITH SILT (SP-SM), trace organics, yellowish brown, moist, very loose, fine to medium grained
10	SPT 3	100	1-1-1 (2)	SP-SM		-becomes dark yellowish brown, higher percentage of organics, wet
15	SPT 4	89	3-4-4 (8)	SP-SM		-lens of coarse sand from 14-14.5 ft
				SM		ALLUVIUM: SILTY SAND (SM), gray to grayish brown, wet, loose, fine grained

Bottom of borehole at 15.5 ft.
Backfilled with auger cuttings



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BORING NUMBER BH-262

CLIENT PAR Electrical Contractors **PROJECT NAME** Northern Pass
PROJECT NUMBER 16004 **PROJECT LOCATION** Plymouth, NH
DATE STARTED 5/21/16 **COMPLETED** 5/21/16 **GROUND ELEVATION** NA **HOLE SIZE** 6 in
DRILLING CONTRACTOR SW Cole **LATITUDE** 43.780394 **LONGITUDE** -71.676954
DRILLING METHOD Hollow Stem Auger **DRILLING EQUIPMENT** Diedrich D50 **SPT HAMMER** 140 lb Auto
LOGGED BY J. Melton **CHECKED BY** S. Kearney **GROUND WATER LEVEL:**
NOTES drilled at stake location ∇ **AT TIME OF DRILLING** 9.0ft

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NORTH PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NINPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
	GB 1			SP		FILL: POORLY GRADED SAND WITH GRAVEL (SP), trace organics, and silt, yellowish brown, moist, loose, coarse grained gravel, medium grained sand, subangular, lensed, lenses of silt
5	SPT 2	100	4-4-5 (9)	SM	3.5	ALLUVIUM: SILTY SAND (SM), grayish brown, moist, loose, fine grained, stratified
10	SPT 3	100	4-4-5 (9)	SM		∇ -increase in silt content, wet
15	SPT 4	100	3-4-6 (10)	SM	15.5	-becomes medium dense

Bottom of borehole at 15.5 ft.
 Backfilled with auger cuttings



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BORING NUMBER BH-264

PAGE 1 OF 1

CLIENT PAR Electrical Contractors PROJECT NAME Northern Pass
 PROJECT NUMBER 16004 PROJECT LOCATION Plymouth, NH
 DATE STARTED 5/20/16 COMPLETED 5/20/16 GROUND ELEVATION NA HOLE SIZE 6 in
 DRILLING CONTRACTOR SW Cole LATITUDE 43.77653 LONGITUDE -71.681884
 DRILLING METHOD Hollow Stem Auger DRILLING EQUIPMENT Diedrich D50 SPT HAMMER 140 lb Auto
 LOGGED BY J. Melton CHECKED BY S. Kearney GROUND WATER LEVEL:
 NOTES drilled at stake location

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NPPPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
	GB 1			SP		FILL: POORLY GRADED SAND WITH GRAVEL (SP), yellowish brown, wet, loose, medium grained gravel, medium to coarse grained sand, subangular
5	SPT 2	83	1-2-5 (7)	SP SM	4.5	ALLUVIUM: SILTY SAND (SM), grayish brown, moist, loose, fine to medium grained
10	SPT 3	100	5-7-8 (15)	SM		-becomes medium dense, fine grained
15	SPT 4	100	5-4-5 (9)	SM	15.5	-becomes loose, micaceous

Bottom of borehole at 15.5 ft.
Backfilled with auger cuttings



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BORING NUMBER BH-265

CLIENT PAR Electrical Contractors PROJECT NAME Northern Pass
 PROJECT NUMBER 16004 PROJECT LOCATION Plymouth, NH
 DATE STARTED 5/20/16 COMPLETED 5/20/16 GROUND ELEVATION NA HOLE SIZE 6 in
 DRILLING CONTRACTOR SW Cole LATITUDE 43.774316 LONGITUDE -71.683764
 DRILLING METHOD Hollow Stem Auger DRILLING EQUIPMENT Diedrich D50 SPT HAMMER 140 lb Auto
 LOGGED BY J. Melton CHECKED BY S. Kearney GROUND WATER LEVEL:
 NOTES drilled at stake location

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\ILGSCHWIND\DESKTOP\PROJECTS\NORTHERN PASS\NORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NPP\PLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
	GB 1			SM		FILL: SILTY SAND (SM), trace gravel, trace organics, brown, moist, loose, fine to medium grained, fine grained gravel
5	SPT 2	83	3-1-2 (3)	SM OL	4.5	ORGANIC DEPOSITS: ORGANIC SILT (OL), dark brown, moist, soft, very fine grained, organic silt
10	SPT 3	89	2-2-2 (4)	SM	9.0	ALLUVIUM: SILTY SAND WITH GRAVEL (SM), dark yellowish orange, moist, loose, medium to coarse grained gravel, fine to medium grained sand, subangular
15	SPT 4	33	5-7-7 (14)	SM	15.5	-becomes medium dense, grayish brown, fine to medium grained sand without gravel

Bottom of borehole at 15.5 ft.
Backfilled with auger cuttings



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BORING NUMBER BH-267

CLIENT PAR Electrical Contractors	PROJECT NAME Northern Pass
PROJECT NUMBER 16004	PROJECT LOCATION Plymouth, NH
DATE STARTED 9/21/16	COMPLETED 9/21/16
DRILLING CONTRACTOR SW Cole	GROUND ELEVATION NA
DRILLING METHOD Solid Stem Auger/Mud Rotary	HOLE SIZE 4 in
LOGGED BY S. Tiger	LATITUDE 43.76251
CHECKED BY S. Kearney	LONGITUDE -71.68719
NOTES	DRILLING EQUIPMENT CME 850
	SPT HAMMER 140 lb Auto
	GROUND WATER LEVEL:

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:30 - C:\USERS\ILGSCHWIN\DESKTOP\PROJECTS\NORTHERN PASS\NORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NPPPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
0.3				SP		FILL: ASPHALT
4.0				SP		FILL: POORLY GRADED SAND WITH GRAVEL AND SILT (SP), moderate brown to light brown, dry, loose, fine to coarse grained gravel, fine to coarse grained sand, subangular to subrounded
5	SPT 1	89	4-5-6 (11)	SP		ALLUVIUM: POORLY GRADED SAND WITH SILT (SP), trace gravel, moderate brown to moderate reddish orange, dry, medium dense, fine to coarse grained gravel, fine to coarse grained sand, subangular to subrounded
10	SPT 2	67	17-24-50/3"	SP		-becomes very dense, increase in silt and gravel content
11.3						BEDROCK: Fresh (I) to slightly weathered (II), grayish black (N2) and very light gray (N8), fine to coarse grained, strong (R4), GNEISS, foliated, with zones of garnet, pyroxene mineralization, and chlorite alteration
15	RC 1	90 (54)				
16.5						

Bottom of borehole at 16.5 ft.
Backfilled with auger cuttings



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BORING NUMBER BH-268

PAGE 1 OF 1

CLIENT PAR Electrical Contractors PROJECT NAME Northern Pass
 PROJECT NUMBER 16004 PROJECT LOCATION Plymouth, NH
 DATE STARTED 9/14/16 COMPLETED 9/14/16 GROUND ELEVATION NA HOLE SIZE 4 in
 DRILLING CONTRACTOR SW Cole LATITUDE 43.75948 LONGITUDE -71.68751
 DRILLING METHOD Solid Stem Auger DRILLING EQUIPMENT Acker SPT HAMMER 140 lb Auto
 LOGGED BY S. Tiger CHECKED BY S. Kearney GROUND WATER LEVEL:
 NOTES _____

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NPP\PLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
0.3						FILL: ASPHALT
4.0				SP		FILL: POORLY GRADED SAND WITH GRAVEL (SP), reddish brown / moderate brown (5YR 4/4), moist, loose, fine grained gravel, fine to medium grained sand, subangular to subrounded
5	SPT 1	58	8-14-13 (27)	SP		ALLUVIUM: POORLY GRADED SAND WITH GRAVEL (SP), dark grayish brown (10YR 4/2), moist, medium dense, fine to coarse grained gravel, fine to medium grained sand, subangular to subrounded, interbedded with medium to coarse grained sand
10	SPT 2	54	10-9-7 (16)	SP		
15	SPT 3	50	11-37-37 (74)	SP		-becomes very dense, increase in silt content, with coarse, angular to subangular gravel
16.5						

Bottom of borehole at 16.5 ft.
Backfilled with auger cuttings



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BORING NUMBER BH-269

CLIENT <u>PAR Electrical Contractors</u>	PROJECT NAME <u>Northern Pass</u>
PROJECT NUMBER <u>16004</u>	PROJECT LOCATION <u>Plymouth, NH</u>
DATE STARTED <u>9/14/16</u> COMPLETED <u>9/14/16</u>	GROUND ELEVATION <u>NA</u> HOLE SIZE <u>4 in</u>
DRILLING CONTRACTOR <u>SW Cole</u>	LATITUDE <u>43.7567</u> LONGITUDE <u>-71.68781</u>
DRILLING METHOD <u>Solid Stem Auger</u>	DRILLING EQUIPMENT <u>Acker</u> SPT HAMMER <u>140 lb Auto</u>
LOGGED BY <u>S. Tiger</u> CHECKED BY <u>S. Kearney</u>	GROUND WATER LEVEL:
NOTES	

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NORTHEN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NPP\PLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
					0.5	FILL: ASPHALT
				SP	3.0	FILL: POORLY GRADED SILTY SAND WITH GRAVEL (SP), reddish brown (5YR 4/4), moist, loose, fine grained gravel, fine to medium grained sand, subangular to subrounded
				ML		GLACIOLACUSTRINE: SILT (ML), gray (5Y 6/1), moist, medium stiff, low plasticity
5	SPT 1	54	3-4-4 (8)			
10	SPT 2	58	6-6-10 (16)	ML		-with fine grained sand, and trace, fine grained gravel, becomes stiff
15	SPT 3	63	3-6-5 (11)	ML		-with clay and mottled oxidation staining
					16.5	

Bottom of borehole at 16.5 ft.
Backfilled with auger cuttings



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BORING NUMBER BH-270

PAGE 1 OF 1

CLIENT PAR Electrical Contractors PROJECT NAME Northern Pass
 PROJECT NUMBER 16004 PROJECT LOCATION Plymouth, NH
 DATE STARTED 9/1/16 COMPLETED 9/1/16 GROUND ELEVATION NA HOLE SIZE 2.25 in
 DRILLING CONTRACTOR SW Cole LATITUDE 43.754132 LONGITUDE -71.687767
 DRILLING METHOD Solid Stem Auger DRILLING EQUIPMENT Acker SPT HAMMER 140 lb Auto
 LOGGED BY T. Vernon CHECKED BY S. Kearney GROUND WATER LEVEL:
 NOTES _____

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\ILGSCHWIND\DESKTOP\PROJECTS\NORTHERN PASS\NORTHEN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NPPPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
					0.5	FILL: ASPHALT
					1.0	FILL: CONCRETE
				SM		FILL: POORLY GRADED SAND WITH SILT (SM), and gravel, grayish red, moist, dense, fine to medium grained, coarse grained gravel, angular
5	SPT 1	67	8-17-14 (31)	SM		
				SC	6.2	GLACIOLACUSTRINE: CLAYEY SAND (SC), moderate olive brown, moist, stiff, low plasticity, fine grained
10	SPT 2	61	4-6-8 (14)			
				CL	12.0	GLACIOLACUSTRINE: LEAN CLAY (CL), moderate olive brown, moist to wet, medium dense, medium plasticity
15	SPT 3	67	3-6-8 (14)		15.5	

Bottom of borehole at 15.5 ft.
Backfilled with auger cuttings



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BORING NUMBER BH-271

CLIENT PAR Electrical Contractors PROJECT NAME Northern Pass
 PROJECT NUMBER 16004 PROJECT LOCATION Plymouth, NH
 DATE STARTED 5/20/16 COMPLETED 5/20/16 GROUND ELEVATION NA HOLE SIZE 6 in
 DRILLING CONTRACTOR SW Cole LATITUDE 43.751546 LONGITUDE -71.687288
 DRILLING METHOD Hollow Stem Auger DRILLING EQUIPMENT Diedrich D50 SPT HAMMER 140 lb Auto
 LOGGED BY J. Melton CHECKED BY S. Kearney GROUND WATER LEVEL:
 NOTES _____

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\ILGSCHWIND\DESKTOP\PROJECTS\NORTHERN PASS\NORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NPPPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
	GB 1			GP		FILL: POORLY GRADED GRAVEL WITH SAND (GP), trace boulders, trace organics, brown, moist, loose, fine grained gravel, fine to medium grained sand, angular
5	SPT 2	33	4-16-5 (21)	GP		-becomes medium dense
10	SPT 3	100	28-18-14 (32)	ML		GLACIOLACUSTRINE: SANDY SILT (ML), pale green and dark yellow, moist, dense, stratified, hydrocarbon odor noted, iron oxide staining
15	SPT 4	100	4-1-2 (3)	ML		-fine grained, hydrocarbon odor noted, 5 inch lens of dry sand, moist

Bottom of borehole at 15.5 ft.
Backfilled with auger cuttings



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BORING NUMBER BH-272

CLIENT PAR Electrical Contractors **PROJECT NAME** Northern Pass
PROJECT NUMBER 16004 **PROJECT LOCATION** Plymouth, NH
DATE STARTED 5/19/16 **COMPLETED** 5/19/16 **GROUND ELEVATION** NA **HOLE SIZE** 6 in
DRILLING CONTRACTOR SW Cole **LATITUDE** 43.74935 **LONGITUDE** -71.68499
DRILLING METHOD HSA/Wireline Coring/NX Size/Series 8 **DRILLING EQUIPMENT** Diedrich D50 **SPT HAMMER** 140 lb Auto
LOGGED BY S. Kearney **CHECKED BY** S. Kearney **GROUND WATER LEVEL:**
NOTES _____

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 21:31 - C:\USERS\ILGSCHWIND\DESKTOP\PROJECTS\NORTHERN PASS\NORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NPPPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0					
			SM		ALLUVIUM: SILTY SAND WITH GRAVEL (SM), light brown, moist, loose, fine to coarse grained gravel, fine to medium grained sand, subrounded
				2.0	
					BEDROCK: Fresh (I), medium dark gray (N4), fine to medium grained, very strong (R5), SCHIST, weak foliation, unfractured
5	RC 1	94 (94)			-5 inch felsic dike
				7.5	
					BEDROCK: Fresh (I), white (N9) and dark greenish gray (5G 4/1), coarse grained, very strong (R5), GRANITE, slightly fractured
10	RC 2	100 (100)			
				11.4	
					-silicified zone from 11 to 11.4 ft
					BEDROCK: Fresh (I), medium dark gray (N4), fine to medium grained, very strong (R5), SCHIST, weak foliation, unfractured
15	RC 3	83 (83)			
				16.0	

Bottom of borehole at 16.0 ft.
 Backfilled with auger cuttings



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BORING NUMBER BH-273

CLIENT PAR Electrical Contractors PROJECT NAME Northern Pass
 PROJECT NUMBER 16004 PROJECT LOCATION Plymouth, NH
 DATE STARTED 5/19/16 COMPLETED 5/19/16 GROUND ELEVATION NA HOLE SIZE 6 in
 DRILLING CONTRACTOR SW Cole LATITUDE 43.747356 LONGITUDE -71.683346
 DRILLING METHOD Hollow Stem Auger DRILLING EQUIPMENT Diedrich D50 SPT HAMMER 140 lb Auto
 LOGGED BY S. Kearney CHECKED BY S. Kearney GROUND WATER LEVEL:
 NOTES ▽ AT TIME OF DRILLING 10.5ft

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NHNORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NHNPP\PLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
	GB 1			SM		FILL: SILTY SAND WITH GRAVEL (SM), trace asphalt, brown, moist, loose, fine to coarse grained gravel, fine to medium grained sand, subrounded
5	SPT 2	44	2-1-1 (2)	ML		GLACIOLACUSTRINE: SANDY SILT (ML), trace organics, brown, moist, very soft, fine grained sand
10	SPT 3	89	4-6-7 (13)	ML		-becomes stiff, gray, stratified, wet, without organics
15	SPT 4	89	5-15-16 (31)	SP		GLACIOLACUSTRINE: POORLY GRADED SAND (SP), trace gravel, orange, moist, dense, fine grained gravel, fine to medium grained sand, iron oxide staining

Bottom of borehole at 15.5 ft.
Backfilled with auger cuttings



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BORING NUMBER BH-274

CLIENT PAR Electrical Contractors
PROJECT NUMBER 16004
DATE STARTED 5/18/16 **COMPLETED** 5/18/16
DRILLING CONTRACTOR SW Cole
DRILLING METHOD Hollow Stem Auger/Wireline Coring / NQ Size/Series
LOGGED BY S. Kearney **CHECKED BY** S. Kearney
NOTES drilled 1' east of pavement edge

PROJECT NAME Northern Pass
PROJECT LOCATION Plymouth, NH
GROUND ELEVATION NA **HOLE SIZE** 6 in
LATITUDE 43.745659 **LONGITUDE** -71.680713
DRILLING EQUIPMENT Diedrich D50 **SPT HAMMER** 140 lb Auto
GROUND WATER LEVEL:
 ∇ **AT TIME OF DRILLING** 5.5ft

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NORTH PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NINPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
5	GB 1			SM		TILL: SILTY SAND (SM), trace gravel, trace cobbles, light brown, moist, loose, fine to medium grained, fine to coarse grained gravel
5	SPT 2	78	6-10-11 (21)	SM		-becomes medium dense, fine grained, with trace gravel, iron oxide staining, wet
10	SPT 3	67	4-6-9 (15)	SM		-fine to medium grained sand, coarse grained angular gravel
15	RC 1	100 (100)				BEDROCK: Fresh (I), white and black, very strong (R5), GRANITE, quartz and biotite rich

Bottom of borehole at 15.4 ft.
 Backfilled with auger cuttings



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BORING NUMBER BH-275

CLIENT PAR Electrical Contractors **PROJECT NAME** Northern Pass
PROJECT NUMBER 16004 **PROJECT LOCATION** Plymouth, NH
DATE STARTED 5/18/16 **COMPLETED** 5/18/16 **GROUND ELEVATION** NA **HOLE SIZE** 6 in
DRILLING CONTRACTOR SW Cole **LATITUDE** 43.743554 **LONGITUDE** -71.679598
DRILLING METHOD Hollow Stem Auger **DRILLING EQUIPMENT** Diedrich D50 **SPT HAMMER** 140 lb Auto
LOGGED BY S. Kearney **CHECKED BY** S. Kearney **GROUND WATER LEVEL:**
NOTES drilled at stake location

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/03/16 17:11 - C:\USERS\ILGSCHWIN\DESKTOP\PROJECTS\NORTHERN PASS\NHNORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NPPPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
5	GB 1			SM		FILL: SILTY SAND (SM), and gravel, trace organics, brown, moist, loose, fine to coarse grained gravel, fine to coarse grained sand, subrounded
	SPT 2	89	2-1-1 (2)	SM		-becomes very loose, grayish brown to orange, mottled, fine grained, silty sand
8.0				SM		ALLUVIUM: SILTY SAND (SM), grayish brown to orange, wet, very loose, fine grained, stratified, iron oxide staining
10	SPT 3	100	1-1-1 (2)	SM		-encountered cobbles at 12 ft
15	SPT 4	89	6-7-7 (14)	SM		-becomes medium dense, with fine to coarse grained subangular gravel

Bottom of borehole at 15.5 ft.
 Backfilled with auger cuttings



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BORING NUMBER BH-276

CLIENT PAR Electrical Contractors PROJECT NAME Northern Pass
 PROJECT NUMBER 16004 PROJECT LOCATION Plymouth, NH
 DATE STARTED 5/18/16 COMPLETED 5/18/16 GROUND ELEVATION NA HOLE SIZE 6 in
 DRILLING CONTRACTOR SW Cole LATITUDE 43.740794 LONGITUDE -71.678323
 DRILLING METHOD Hollow Stem Auger DRILLING EQUIPMENT Diedrich D50 SPT HAMMER 140 lb Auto
 LOGGED BY S. Kearney CHECKED BY S. Kearney GROUND WATER LEVEL:
 NOTES drilled at stake location ∇ AT TIME OF DRILLING 14.3ft

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NINPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
	GB 1			SM		FILL: SILTY SAND WITH GRAVEL (SM), light brown, moist, loose, fine grained gravel, fine to medium grained sand, subrounded
5	SPT 2	89	2-2-2 (4)	ML	4.5	ORGANIC DEPOSITS: SANDY SILT (ML), and sand, trace organics, black, moist, soft, fine grained sand
				SM	6.0	ALLUVIUM: SILTY SAND (SM), brown, moist, very loose, fine grained sand
10	SPT 3	67	2-2-1 (3)	SM		
15	SPT 4	100	1-1-1 (2)	SM	15.5	∇ -becomes grayish brown to orange, stratified, iron oxide staining, silt content increases, wet

Bottom of borehole at 15.5 ft.
Backfilled with auger cuttings



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BORING NUMBER BH-278

PAGE 1 OF 1

CLIENT PAR Electrical Contractors PROJECT NAME Northern Pass
 PROJECT NUMBER 16004 PROJECT LOCATION Plymouth, NH
 DATE STARTED 5/18/16 COMPLETED 5/18/16 GROUND ELEVATION NA HOLE SIZE 6 in
 DRILLING CONTRACTOR SW Cole LATITUDE 43.733344 LONGITUDE -71.675309
 DRILLING METHOD Hollow Stem Auger DRILLING EQUIPMENT Diedrich D50 SPT HAMMER 140 lb Auto
 LOGGED BY S. Kearney CHECKED BY S. Kearney GROUND WATER LEVEL:
 NOTES drilled 4' west of stake location

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 20:28 - C:\USERS\ILGSCHWIND\DESKTOP\PROJECTS\NORTHERN PASS\NINORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NINPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
	GB 1			GP		ALLUVIUM: POORLY GRADED GRAVEL WITH SAND (GP), brown, moist, loose, fine grained gravel, fine to medium grained sand, subrounded
3.0				SM		ALLUVIUM: SILTY SAND (SM), trace organics, orangeish brown, moist, loose, fine to medium grained sand
5	SPT 2	67	6-5-3 (8)			
10	SPT 3	50	2-3-3 (6)	SM		-becomes loose, gravel content decreases, iron oxide staining
15	SPT 4	78	2-1-3 (4)	SM		-organic content increases, fine to coarse grained sand in spoon tip

Bottom of borehole at 15.5 ft.
Backfilled with auger cuttings



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BORING NUMBER BH-279

CLIENT PAR Electrical Contractors PROJECT NAME Northern Pass
 PROJECT NUMBER 16004 PROJECT LOCATION Plymouth, NH
 DATE STARTED 5/16/16 COMPLETED 5/16/16 GROUND ELEVATION NA HOLE SIZE 6 in
 DRILLING CONTRACTOR SW Cole LATITUDE 43.731144 LONGITUDE -71.675103
 DRILLING METHOD Hollow Stem Auger DRILLING EQUIPMENT Diedrich D50 SPT HAMMER 140 lb Auto
 LOGGED BY S. Kearney CHECKED BY S. Kearney GROUND WATER LEVEL:
 NOTES drilled at survey stake

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NHNORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NHNPPPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
	GB 1			SM		FILL: SILTY SAND WITH GRAVEL (SM), dark brown, fine to coarse grained gravel, fine to medium grained sand, 4 inches of gravel base
5	SPT 2	89	3-5-5 (10)	SM		-becomes moist, medium dense, orangeish brown, without gravel, iron oxide staining
10	SPT 3	100	10-19-27 (46)	SM		TILL: SILTY SAND (SM), trace gravel, light gray to orange, moist, very dense, fine grained gravel, fine grained sand, subrounded, iron oxide staining, thinly stratified
15	SPT 4	89	23-50-50 (100)	SM		-becomes dark gray to brown, with gravel and cobbles

Bottom of borehole at 15.5 ft.
Backfilled with auger cuttings



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BORING NUMBER BH-281

PAGE 1 OF 1

CLIENT PAR Electrical Contractors PROJECT NAME Northern Pass
 PROJECT NUMBER 16004 PROJECT LOCATION Plymouth, NH
 DATE STARTED 5/18/16 COMPLETED 5/18/16 GROUND ELEVATION NA HOLE SIZE 6 in
 DRILLING CONTRACTOR SW Cole LATITUDE 43.72375 LONGITUDE -71.676302
 DRILLING METHOD Hollow Stem Auger DRILLING EQUIPMENT Diedrich D50 SPT HAMMER 140 lb Auto
 LOGGED BY S. Kearney CHECKED BY S. Kearney GROUND WATER LEVEL:
 NOTES _____

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NHNORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NPPPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
	GB 1			SM		FILL: SILTY SAND WITH GRAVEL (SM), trace asphalt, brown, moist, loose, fine to coarse grained gravel, fine to medium grained sand, subrounded
5	SPT 2	78	3-5-10 (15)	SP-SM		TILL: POORLY GRADED SAND WITH SILT (SP-SM), orangeish brown, moist, medium dense, fine grained sand
10	SPT 3	72	5-10-11 (21)	ML		TILL: SANDY SILT (ML), trace cobbles, gray to orange, moist, very stiff, fine grained sand, cobbles up to 2 inches
15	SPT 4	78	8-8-9 (17)	SM		TILL: SILTY SAND (SM), gray to orange, wet, medium dense, fine grained sand

Bottom of borehole at 15.5 ft.
Backfilled with auger cuttings



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BORING NUMBER BH-283

CLIENT PAR Electrical Contractors	PROJECT NAME Northern Pass
PROJECT NUMBER 16004	PROJECT LOCATION Plymouth, NH
DATE STARTED 5/17/16	COMPLETED 5/17/16
DRILLING CONTRACTOR SW Cole	GROUND ELEVATION NA
DRILLING METHOD Hollow Stem Auger	HOLE SIZE 6 in
LOGGED BY S. Kearney	LATITUDE 43.721601
CHECKED BY S. Kearney	LONGITUDE -71.670009
NOTES drilled at survey stake	DRILLING EQUIPMENT Diedrich D50
	SPT HAMMER 140 lb Auto
	GROUND WATER LEVEL:

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NHNORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NHNPPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
	GB 1			SM		FILL: SILTY SAND WITH GRAVEL (SM), trace organics, brown, moist, loose, fine grained gravel, fine to medium grained sand
5	SPT 2	89	3-7-7 (14)	SM		GLACIOLACUSTRINE: SILTY SAND (SM), grayish brown and orange, medium dense, fine grained gravel, mottled, thinly stratified
10	SPT 3	78	3-4-5 (9)	SM		-becomes loose, wet, silt content increases
15	SPT 4	89	5-7-6 (13)	ML		GLACIOLACUSTRINE: SANDY SILT (ML), grayish brown, wet, stiff, fine grained sand

Bottom of borehole at 15.5 ft.
Backfilled with auger cuttings



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BORING NUMBER BH-284

CLIENT PAR Electrical Contractors PROJECT NAME Northern Pass
 PROJECT NUMBER 16004 PROJECT LOCATION Plymouth, NH
 DATE STARTED 5/17/16 COMPLETED 5/17/16 GROUND ELEVATION NA HOLE SIZE 6 in
 DRILLING CONTRACTOR SW Cole LATITUDE 43.720253 LONGITUDE -71.666812
 DRILLING METHOD Hollow Stem Auger DRILLING EQUIPMENT Diedrich D50 SPT HAMMER 140 lb Auto
 LOGGED BY S. Kearney CHECKED BY S. Kearney GROUND WATER LEVEL:
 NOTES drilled at stake location

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NORTH PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NPP\PLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
	GB 1			SM		GLACIOLACUSTRINE: SILTY SAND WITH GRAVEL (SM), dark brown, moist, loose, fine to coarse grained gravel, fine to medium grained sand, subangular
5	SPT 2	78	3-4-4 (8)	SM		-becomes light gray to orange, thinly stratified, iron oxide staining, micaceous
10	SPT 3	100	3-4-6 (10)	SM		-becomes medium dense, tan to orange, weak stratification, silt content decreases
15	SPT 4	100	6-7-6 (13)	SM		-becomes gray to orange, stratified, silt content increases

Bottom of borehole at 15.5 ft.
Backfilled with auger cuttings



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CLIENT PAR Electrical Contractors
PROJECT NUMBER 16004
DATE STARTED 5/17/16 **COMPLETED** 5/17/16
DRILLING CONTRACTOR SW Cole
DRILLING METHOD Hollow Stem Auger
LOGGED BY S. Kearney **CHECKED BY** S. Kearney
NOTES drilled at stake location

PROJECT NAME Northern Pass
PROJECT LOCATION Plymouth, NH
GROUND ELEVATION NA **HOLE SIZE** 6 in
LATITUDE 43.718766 **LONGITUDE** -71.663795
DRILLING EQUIPMENT Diedrich D50 **SPT HAMMER** 140 lb Auto
GROUND WATER LEVEL:

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NPPPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
4.0	GB 1			SM		FILL: SILTY SAND WITH GRAVEL (SM), trace asphalt, dark brown, moist, loose, fine to coarse grained
5	SPT 2	78	1-1-1 (2)	ML		ORGANIC DEPOSITS: SILT WITH SAND (ML), trace organics, dark brown, moist, soft, fine to medium grained sand, grades to orange brown in spoon tip
6.5				SM		ALLUVIUM: SILTY SAND (SM), brown to light gray, moist, medium dense, fine grained sand, lensed, 1 inch thick sand medium to coarse grained sand lens
10	SPT 3	100	4-6-5 (11)			
15	SPT 4	100	4-3-5 (8)	SM		-becomes loose, light brown, fine to medium grained
15.5						

Bottom of borehole at 15.5 ft.
 Backfilled with auger cuttings



QS
4708 N Barker RD
Spokane Valley, WA 99027
Telephone: 509-892-9409

BORING NUMBER BH-287

CLIENT PAR Electrical Contractors PROJECT NAME Northern Pass
 PROJECT NUMBER 16004 PROJECT LOCATION Plymouth, NH
 DATE STARTED 5/16/16 COMPLETED 5/16/16 GROUND ELEVATION NA HOLE SIZE 6 in
 DRILLING CONTRACTOR SW Cole LATITUDE 43.714565 LONGITUDE -71.659359
 DRILLING METHOD Hollow Stem Auger DRILLING EQUIPMENT Diedrich D50 SPT HAMMER 140 lb Auto
 LOGGED BY S. Kearney CHECKED BY S. Kearney GROUND WATER LEVEL:
 NOTES drilled at survey stake

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NPP\PLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
	GB 1			SP-SM		FILL: POORLY GRADED SAND WITH SILT (SP-SM), trace gravel, trace organics, brown, moist, loose, fine to medium grained sand
5	SPT 2	94	2-1-1 (2)	ML	4.5	GLACIOLACUSTRINE: SILT (ML), orangeish brown, moist, soft, mottled
				SP-SM	7.5	GLACIOLACUSTRINE: POORLY GRADED SAND WITH SILT (SP-SM), brown, moist, loose, fine to medium grained sand
10	SPT 3	72	4-3-5 (8)			
				SP-SM	15.5	-becomes medium dense, grayish brown, medium to coarse grained sand lenses

Bottom of borehole at 15.5 ft.
Backfilled with auger cuttings



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BORING NUMBER BH-288

PAGE 1 OF 1

CLIENT PAR Electrical Contractors **PROJECT NAME** Northern Pass
PROJECT NUMBER 16004 **PROJECT LOCATION** Plymouth, NH
DATE STARTED 5/16/16 **COMPLETED** 5/16/16 **GROUND ELEVATION** NA **HOLE SIZE** 4 in
DRILLING CONTRACTOR SW Cole **LATITUDE** 43.712138 **LONGITUDE** -71.65781
DRILLING METHOD Hollow Stem Auger **DRILLING EQUIPMENT** Diedrich D50 **SPT HAMMER** 140 lb Auto
LOGGED BY S. Kearney **CHECKED BY** S. Kearney **GROUND WATER LEVEL:**
NOTES drilled at survey stake

GENERAL BH / TP / WELL - GINT STD US LAB.GPJ - 10/3/16 17:11 - C:\USERS\LGSC\HWIN\DESKTOP\PROJECTS\NORTHERN PASS\NHNORTHERN PASS TRENCH COMPLETED LOGS\PLYMOUTH_NH\NPPPLYM.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
	GB 1			SM		ORGANIC DEPOSITS: SILTY SAND (SM), trace organics, black
5	SPT 2	78	2-2-3 (5)	SP-SM		GLACIOLACUSTRINE: POORLY GRADED SAND WITH SILT (SP-SM), brown, loose, medium grained sand, becomes gray in spoon tip
10	SPT 3	28	4-5-6 (11)	SP-SM		-becomes medium dense, medium to coarse grained gravel in spoon tip
15	SPT 4	67	5-6-8 (14)	SP-SM		-becomes grayish brown
					15.5	

Bottom of borehole at 15.5 ft.
 Backfilled with auger cuttings