

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: BB-LC-104 SHEET 1 of 1 DATE STARTED: 9/28/12 DATE COMPLETED: 9/28/12			
PROJECT NAME: CLD Lunenburg Culvert SITE NAME: STATION: 429+60 OFFSET: 8 LT VTSPG: N 724799.12 ft E 1868011.78 ft		PROJECT NUMBER: 123-87438 SITE NUMBER: BR 126 GROUND ELEVATION: 855.0 ft GROUNDWATER DEPTH: 11.9 ft 9/28/12 PROJECT PIN NUMBER: Lunenburg NH Culv (27)		BORING CREW: DRILLER: D. Thompson LOGGER: M. Henrick BORING RIG: Diedrich D-50 Track			
BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL HAMMER TYPE: CHECKED BY: JRS							
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 6 IN (N VALUE)	M.C. (%)	AASHTO GRAVEL (%)	AASHTO SAND (%)	AASHTO FINES (%)
		0.0 ft - 1.5 ft, Field note: Approximately 1.5 ft. of Asphalt.					
2.5		2.0 ft - 4.0 ft, SiSaGr, Dark gray, Moist, Roadway subbase, Rec. = 0.8 ft	22-19-15-11 (34)				
5.0		4.0 ft - 4.7 ft, SiSaGr, brown, Moist, Roadway subbase, Rec. = 1.0 ft	16-11-7-7 (18)				
		4.7 ft - 5.0 ft, SaSi, brown-gray, Moist					
10.0		9.0 ft - 11.0 ft, SaSi, brown, Moist, Rec. = 0.3 ft	2-3-10-6 (13)				
15.0		14.0 ft - 16.0 ft, SaSiGr, brown, Wet, Rec. = 0.4 ft	15-29-17-9 (46)				
20.0		19.0 ft - 19.9 ft, SaSi Some organics (wood), brown, Wet, Field note: Drilling obstruction encountered at 19.9 ft, could not advance button bit., Rec. = 0.5 ft	5-50 (Refusal)				
		Hole stopped @ 19.9 ft					
		Notes: - Boring location estimated from swing ties. Location not surveyed.					

B.O.F. WWI
EL. 827.95

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: BB-LC-105 SHEET 1 of 2 DATE STARTED: 9/24/12 DATE COMPLETED: 9/25/12			
PROJECT NAME: CLD Lunenburg Culvert SITE NAME: STATION: 429+45 OFFSET: 60 LT VTSPG: N 724853.50 ft E 1868010.59 ft		PROJECT NUMBER: 123-87438 SITE NUMBER: BR 126 GROUND ELEVATION: 843.0 ft GROUNDWATER DEPTH: 4.2 ft 9/25/12 PROJECT PIN NUMBER: Lunenburg NH Culv (27)		BORING CREW: DRILLER: D. Thompson LOGGER: M. Henrick BORING RIG: Diedrich D-50 Track			
BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL HAMMER TYPE: CHECKED BY: JRS							
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER 6 IN (N VALUE)	M.C. (%)	AASHTO GRAVEL (%)	AASHTO SAND (%)	AASHTO FINES (%)
		0.0 ft - 2.0 ft, GrSaSi, brown, Moist, Rec. = 0.7 ft	9-14-19-11 (33)				
2.5		2.0 ft - 4.0 ft, SaSiGr, medium gray, Moist, Rec. = 0.8 ft	5-40-43-55 (83)		41.0	31.0	28.0
5.0		4.0 ft - 6.0 ft, SaSiGr, medium gray, Wet, Rec. = 0.7 ft	31-30-58-19 (88)				
		6.0 ft - 8.0 ft, SaSiGr, medium gray, Wet, Rec. = 1.0 ft	27-19-15-17 (34)				
10.0		10.0 ft - 12.0 ft, SaSiGr, medium gray, Wet, Rec. = 0.5 ft	5-20-24-16 (44)				
12.5		12.0 ft - 13.8 ft, SaSiGr, medium gray, Wet, Rec. = 1.6 ft	19-31-38-50 (69)		46.0	33.0	21.0
16.0		14.0 ft - 14.7 ft, SaSiGr, medium brown, Wet, Boulder 14.7-15.8 ft, Rec. = 0.6 ft	58-50 (Refusal)				
		16.0 ft - 16.8 ft, SaSiGr, medium gray, Wet, Rec. = 0.2 ft	12-50 (Refusal)				
17.5		RR1: 17.0 ft - 17.7 ft, NQ, Rec. = 0.0 ft, No recovery, boulder based on drill behavior	RR1	0	0	1.2	
20.0		19.0 ft - 19.7 ft, SaSiGr, medium gray, Wet, Rec. = 9.0 ft	33-50 (Refusal)				
		19.7 ft - 30.5 ft, Cobbles based on drill behavior.					

VTTrans		STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING NUMBER: BB-LC-105 SHEET 2 of 2 DATE STARTED: 9/24/12 DATE COMPLETED: 9/25/12			
PROJECT NAME: CLD Lunenburg Culvert SITE NAME: STATION: 429+45 OFFSET: 60 LT VTSPG: N 724853.50 ft E 1868010.59 ft		PROJECT NUMBER: 123-87438 SITE NUMBER: BR 126 GROUND ELEVATION: 843.0 ft GROUNDWATER DEPTH: 4.2 ft 9/25/12 PROJECT PIN NUMBER: Lunenburg NH Culv (27)		BORING CREW: DRILLER: D. Thompson LOGGER: M. Henrick BORING RIG: Diedrich D-50 Track			
BORING TYPE: WASH BORE SAMPLE TYPE: SPLIT BARREL HAMMER TYPE: CHECKED BY: JRS							
DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	RUN	REC (%)	RQD (%)	Drill Rate (min/ft)	UCS (psi)
27.5							
30.0							
32.5		RR2: 30.5 ft - 35.6 ft, NQ, Rec. = 4.95 ft, medium gray, Phyllite, discontinuities spaced very close to close, high angle (60-70 degrees), generally parallel to foliation, planar to irregular, very smooth to rough, some light brown iron oxide staining, weak to medium weak, moderately weathered	RR2	97	608	4.8	
35.0		Hole stopped @ 35.6 ft					
37.5		Notes: - Boring location estimated from swing ties. Location not surveyed.					
40.0							
42.5							
45.0							
47.5							

CLD_12-0106 MODEL: Bor-04



PROJECT NAME: LUNENBURG	PLOT DATE: 8/6/2015
PROJECT NUMBER: NH CULV(27)	DRAWN BY: M. SMITH
FILE NAME: I1b294/cos/z1b294bor.dgn	CHECKED BY: J. BYATT
PROJECT LEADER: J. BYATT	SHEET 35 OF 74
DESIGNED BY: S. BEAUMONT	
BORING LOGS SHEET 3	