



STATE OF VERMONT  
AGENCY OF TRANSPORTATION  
MATERIALS & RESEARCH SECTION  
SUBSURFACE INFORMATION

BORING NUMBER: B-101  
SHEET 1 of 1  
DATE STARTED: 5/06/09  
DATE COMPLETED: 5/11/09

PROJECT NAME: MIDDLEBURY-WEYBRIDGE  
SITE NAME: TH-3  
STATION: 800+49  
OFFSET: 7.00  
VTSPG: N 556625.24 ft E 1461987.30 ft

PROJECT NUMBER: BHO 1445(33)  
SITE NUMBER: BR-1  
GROUND ELEVATION: 323.8 ft  
GROUNDWATER DEPTH: 3.0 ft 5/11/09  
PROJECT PIN NUMBER: 06J086

BORING CREW  
CREW CHIEF: PORTER  
DRILLER: PORTER  
LOGGER: WERNER

BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER  
BORING TYPE: WASH BORE  
SAMPLE TYPE: SPLIT BARREL  
CHECKED BY: CEE

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
			RUN	REC (%)	RQD (%)	Dip (deg)	Drill Rate (min/ft)		
5		A-7-6, Cl, brn-gry, Moist, Rec. = 1.2 ft	4	38.6	0.2	3.2	96.6	50	24
		A-7-6, Cl, gry-brn, Moist, Rec. = 1.6 ft	10	32.7	0.2	2.3	97.5	54	29
		A-7-6, Cl, brn-gry, Moist, Rec. = 2.0 ft	20	26.5	0.5	4.2	95.3	41	21
		A-6, SiCl, brn-gry, Moist, Rec. = 0.9 ft	R	24.4	0.8	3.7	95.5	32	12
		No Recovery, 8.0 ft - 8.4 ft, Cleaned out casing.	R	Top of Bedrock @ 8.4 ft					
10		Dark gray & black, Carbonaceous Slate, phyllite and limestone. Very thinly bedded, Competent, Moderately hard, Unweathered, NXMDC, 8.4 ft - 10.4 ft, Rec. = 1.95 ft	1	98	90	20	29		
		Dark gray & black, Carbonaceous Slate, phyllite and limestone. Very thinly bedded, Competent, Moderately hard, Unweathered, NXMDC, 10.4 ft - 13.4 ft, Rec. = 3.0 ft	2	100	93	30	10		
		Dark gray, Limestone, Competent, Hard, Unweathered, NXMDC, 13.4 ft - 18.4 ft, Rec. = 5.0 ft	3	100	100	20	9		
15						8			
						8			
						9			
						8			
20		Hole stopped @ 18.4 ft							
25									

LOG OF BORING MIDDLEBURY-WEYBRIDGE BHO 1445(33).GPJ VT AOT.GDT 5/27/09



STATE OF VERMONT  
 AGENCY OF TRANSPORTATION  
 MATERIALS & RESEARCH SECTION  
 SUBSURFACE INFORMATION

BORING NUMBER: B-102  
 SHEET 1 of 1  
 DATE STARTED: 5/12/09  
 DATE COMPLETED: 5/13/09

PROJECT NAME: MIDDLEBURY-WEYBRIDGE  
 SITE NAME: TH-3  
 STATION: 800+51  
 OFFSET: -7.00  
 VTSPG: N 556639.36 ft E 1461986.54 ft

PROJECT NUMBER: BHO 1445(33)  
 SITE NUMBER: BR-1  
 GROUND ELEVATION: 323.8 ft  
 GROUNDWATER DEPTH: 4.3 ft 5/13/09  
 PROJECT PIN NUMBER: 06J086

BORING CREW  
 CREW CHIEF: PORTER  
 DRILLER: PORTER  
 LOGGER: WERNER

BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER  
 BORING TYPE: WASH BORE  
 SAMPLE TYPE: SPLIT BARREL  
 CHECKED BY: CEE

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	RQD (%)	Dip (deg)	Drill Rate (min/ft)
		Visual Classification, Heavy Clay, brn-gry, Moist, Rec. = 1.2 ft	6	34.2			
		Visual Classification, Heavy Clay, brn-gry, Moist, Rec. = 1.8 ft	7	30.4			
5		Visual Classification, Lean Clay, brn-gry, Wet, Rec. = 1.9 ft	11	27.4			
		Visual Classification, Silty Clay, brn, Wet, Rec. = 2.0 ft	16	16.7			
		Visual Classification, Sandy Silty Clay, brn, Wet, Rec. = 0.2 ft	R		Top of Bedrock @ 8.3 ft		
10		Dark gray & black, Carbonaceous Slate, phyllite and limestone. Very thinly bedded, Competent, Medium hard, Unweathered, NXMDC, 8.3 ft - 13.3 ft, Rec. = 4.5 ft	1	90	58	20	7
							7
							10
							7
							6
15		Dark gray, Limestone, Competent, Hard, Unweathered, NXMDC, 13.3 ft - 18.3 ft, Rec. = 5.0 ft	2	100	90	20	7
							7
							7
							7
							7
20		Hole stopped @ 18.3 ft					
25							

LOG OF BORING MIDDLEBURY-WEYBRIDGE BHO 1445(33).GPJ VT\_AOT.GDT 5/27/09



STATE OF VERMONT  
 AGENCY OF TRANSPORTATION  
 MATERIALS & RESEARCH SECTION  
 SUBSURFACE INFORMATION

BORING NUMBER: B-103  
 SHEET 1 of 1  
 DATE STARTED: 5/14/09  
 DATE COMPLETED: 5/15/09

PROJECT NAME: MIDDLEBURY-WEYBRIDGE  
 SITE NAME: TH-3  
 STATION: 803+69  
 OFFSET: 7.00  
 VTSPG: N 556687.52 ft E 1462301.18 ft

PROJECT NUMBER: BHO 1445(33)  
 SITE NUMBER: BR-1  
 GROUND ELEVATION: 338.78 ft  
 GROUNDWATER DEPTH: 2.5 ft 5/19/09  
 PROJECT PIN NUMBER: 06J086

BORING CREW  
 CREW CHIEF: PORTER  
 DRILLER: PORTER  
 LOGGER: WERNER

BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER  
 BORING TYPE: WASH BORE  
 SAMPLE TYPE: SPLIT BARREL  
 CHECKED BY: CEE

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	RQD (%)	Dip (deg)	Drill Rate (min/ft)
		Visual Classification, Sandy Clay, brn, Moist, Rec. = 1.1 ft	5	19.5			
		Visual Classification, Lean Clay, brn, Moist, Rec. = 0.4 ft	R	26.7	Top of Bedrock @ 3.0 ft		
		White, Marble, Poor RQD, Hard, Unweathered, NXDC, 3.0 ft - 5.0 ft, Rec. = 0.8 ft	1	40	0		
5		White, Marble, Vertical joint between 7 & 8 ft., Competent, Hard, Unweathered, NXMDC, 5.0 ft - 10.0 ft, Rec. = 5.0 ft	2	100	70		8 7 9 10 8
10		White, Marble, with some purple colored zones, Competent, Hard, Unweathered, NXMDC, 10.0 ft - 15.0 ft, Rec. = 5.0 ft	3	100	60		7 9 12 12 9
15		Hole stopped @ 15.0 ft					
20							
25							

LOG OF BORING MIDDLEBURY-WEYBRIDGE BHO 1445(33) GPJ VT AOT.GDT 5/27/09



STATE OF VERMONT  
 AGENCY OF TRANSPORTATION  
 MATERIALS & RESEARCH SECTION  
 SUBSURFACE INFORMATION

BORING NUMBER: B-104  
 SHEET 1 of 1  
 DATE STARTED: 5/15/09  
 DATE COMPLETED: 5/19/09

PROJECT NAME: MIDDLEBURY-WEYBRIDGE  
 SITE NAME: TH-3  
 STATION: 803+75  
 OFFSET: -7.00  
 VTSPG: N 556702.42 ft E 1462304.34 ft

PROJECT NUMBER: BHO 1445(33)  
 SITE NUMBER: BR-1  
 GROUND ELEVATION: 340.1 ft  
 GROUNDWATER DEPTH: Not Taken  
 PROJECT PIN NUMBER: 06J086

BORING CREW  
 CREW CHIEF: PORTER  
 DRILLER: PORTER  
 LOGGER: WERNER

BORING RIG: LAG TRACK RIG #10 w/AUTO HAMMER  
 BORING TYPE: WASH BORE  
 SAMPLE TYPE: SPLIT BARREL  
 CHECKED BY: CEE

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	RQD (%)	Dip (deg)	Drill Rate (min/ft)
		Visual Classification, Sandy Clay, brn, Moist, Rec. = 1.0 ft	3	19.4			
		Visual Classification, Heavy Clay, brn, Moist, Rec. = 1.5 ft	18	21.2			
				Top of Bedrock @ 4.0 ft			
5		White, Marble, Competent, Hard, Unweathered, NXMDC, 4.0 ft - 9.0 ft, Rec. = 5.0 ft	1	100	90		9 8 9 10 11
10		White, Marble, Competent, Hard, Unweathered, NXMDC, 9.0 ft - 14.0 ft, Rec. = 5.0 ft	2	100	100		11 10 9 9 10
15		Hole stopped @ 14.0 ft					

LOG OF BORING MIDDLEBURY-WEYBRIDGE BHO 1445(33).GPJ VT AOT.GDT 6/9/09