



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

BORING NUMBER: B-001  
SHEET 1 of 1  
DATE STARTED: 4/14/06  
DATE COMPLETED: 4/19/06

PROJECT NAME: TROY  
SITE NAME: TH-12  
STATION: 4+92.00  
OFFSET: -6.50  
VTSPG: N 895391.22 ft E 1667938.04 ft

PROJECT NUMBER: BHO 1449(30)  
SITE NUMBER: BR-8  
GROUND ELEVATION: 624.98 ft  
GROUNDWATER DEPTH: 14.0 ft 4/19/06  
PROJECT PIN NUMBER: 96J316

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

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

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
5		Field Class: Cobbles & Boulders, Lost water around 3.5 ft., Cleaned out casing.	11				
		Visual Class: Broken rock, Possible Cobbles, Rec. = 0.1 ft, Cobble in end of sampler.					
10		A-4, SiSa, brn, Moist, Rec. = 0.4 ft	6	31.5	0.3	59.9	39.8
15		A-2-4, GrSa, brn, Moist, Rec. = 1.35 ft	24	17.0	26.4	61.4	12.2
		A-1-a, SaGr, gry-brn, Moist, Rec. = 1.15 ft	18	8.2	62.3	28.2	9.5
		A-1-a, SaGr, gry-brn, Moist, Rec. = 0.9 ft, Cleaned out casing.	24	8.4	65.4	26.4	8.2
20		A-1-b, GrSa, brn-gry, Moist, Rec. = 1.1 ft	17	14.0	43.6	45.8	10.6
		A-2-4, SiGrSa, gry-brn, Moist, Rec. = 0.7 ft	9	15.7	30.2	48.1	21.7
25		A-4, Si, gry, Moist, Rec. = 1.1 ft	7	19.8	0.3	10.7	89.0
		A-4, SiSa, gry, Moist, Rec. = 1.0 ft	9	29.1	0.4	53.2	46.4
		A-2-4, Sa, gry, Moist, Rec. = 1.1 ft	8	21.9	2.4	85.9	11.7
30		A-2-4, Sa, gry, Moist, Rec. = 1.0 ft	14	19.1	1.2	86.6	12.2
		A-4, SaSi, gry, Moist, Rec. = 1.25 ft	7	23.3	0.1	23.4	76.5
35		A-1-a, SaGr, gry, Moist, Rec. = 0.8 ft	21	9.7	61.7	23.3	15.0
		Field Class: Boulder, Very hard drilling., Broke through at 37.5 ft.					
		Field Class: Boulder, Broke through and cleaned out casing.					
40		A-1-b, GrSa, gry, Moist, Rec. = 0.75 ft	R	14.6	36.6	59.0	4.4
		Hole stopped @ 41.2 ft		Top of Bedrock @ 41.2 ft			
45							

LOG OF BORING TROY BHO 1449(30).CPJ VT ADT.GDT 7/19/06



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BORING NUMBER: B-002  
SHEET 1 of 1  
DATE STARTED: 4/11/06  
DATE COMPLETED: 4/14/06

PROJECT NAME: TROY  
SITE NAME: TH-12  
STATION: 4+94.00  
OFFSET: 6.00  
VTSPG: N 895378.76 ft E 1667940.22 ft

PROJECT NUMBER: BHO 1449(30)  
SITE NUMBER: BR-8  
GROUND ELEVATION: 625.37 ft  
GROUNDWATER DEPTH: 14.0 ft 4/14/06  
PROJECT PIN NUMBER: 96J316

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

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

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
			RUN	REC (%)	RQD (%)	Dip (deg)	Drill Rate (min/ft)
		Field Class: Cobbles & Boulders, Cored ahead and cleaned out casing.					
10		A-2-4, SiGrSa, brn, Moist, Rec. = 0.6 ft	7	14.1	38.0	40.2	21.8
		Field Note: Cored ahead and cleaned out casing.					
		A-1-a, SaGr, gry-brn, Moist, Rec. = 1.1 ft	10	7.4	60.6	30.7	8.7
		Field Note: Cored ahead and cleaned out casing.					
20		A-1-a, SaGr, gry, Moist, Rec. = 0.5 ft	14	14.8	55.7	39.7	4.6
		Field Note: Cored ahead and cleaned out casing.					
		A-4, Si, gry, Moist, Rec. = 1.85 ft	4	19.7	0.0	19.7	80.3
30		A-2-4, Sa, gry, Moist, Rec. = 2.0 ft	8	20.1	1.5	83.6	14.9
		A-2-4, SaSiGr, gry, Moist, Rec. = 0.7 ft, Stone in end of sampler.	11	10.7	49.1	22.6	28.3
		Field Note: Hit rock at 37.0 ft, Broke through at 39.5 ft.					
40		A-1-a, SaGr, gry, Moist, Rec. = 0.9 ft	R	8.2	57.1	30.3	12.6
		Green, Serpentine, Sample was very broken-up, Not competent, Moderately soft, NXMDC, 41.0 ft - 43.0 ft, Rec. = 0.9 ft	1	45	0	?	21
		Green, Serpentine, Competent, Moderately soft, Unweathered, NXMDC, 43.0 ft - 48.0 ft, Rec. = 5.0 ft	2	100	86	55	24
		Green, Serpentine, Competent, Moderately soft, Unweathered, NXMDC, 48.0 ft - 51.0 ft, Rec. = 3.0 ft	3	100	100	55	16
50		Hole stopped @ 51.0 ft					15
							14
							13

LOG OF BORING TROY BHO 1449(30).GPJ VT ADT.GDT 7/19/06



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BORING NUMBER: B-003  
 SHEET 1 of 1  
 DATE STARTED: 4/06/06  
 DATE COMPLETED: 4/06/06

PROJECT NAME: TROY  
 SITE NAME: TH-12  
 STATION: 4+81.00  
 OFFSET: -6.00  
 VTSPG: N 895390.35 ft E 1667926.73 ft

PROJECT NUMBER: BHO 1449(30)  
 SITE NUMBER: BR-8  
 GROUND ELEVATION: 624.72 ft  
 GROUNDWATER DEPTH:  
 PROJECT PIN NUMBER: 96J316

BORING CREW  
 CREW CHIEF: HOLT  
 DRILLER: GARROW  
 LOGGER: RUSSELL

BORING RIG: AUGER TRUCK  
 BORING TYPE: AUGER  
 SAMPLE TYPE: AUGER  
 CHECKED BY: DLG

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
0 - 5		A-1-b, GrSa, brn, Moist		8.5	27.2	55.6	17.2
5 - 15		A-4, SiSa, brn, Moist		12.8	1.3	60.1	38.6
15 - 40		A-2-4, SiGrSa, brn, Moist		13.1	30.3	45.9	23.8
40 - 45		Hole stopped @ 40.0 ft					

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BORING NUMBER: B-004  
 SHEET 1 of 1  
 DATE STARTED: 4/06/06  
 DATE COMPLETED: 4/06/06

PROJECT NAME: TROY  
 SITE NAME: TH-12  
 STATION: 4+82.00  
 OFFSET: 7.00  
 VTSPG: N 895377.36 ft E 1667927.34 ft

PROJECT NUMBER: BHO 1449(30)  
 SITE NUMBER: BR-8  
 GROUND ELEVATION: 624.52 ft  
 GROUNDWATER DEPTH:  
 PROJECT PIN NUMBER: 96J316

BORING CREW  
 CREW CHIEF: HOLT  
 DRILLER: GARROW  
 LOGGER: RUSSELL

BORING RIG: AUGER TRUCK  
 BORING TYPE: AUGER  
 SAMPLE TYPE: AUGER  
 CHECKED BY: DLG

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
0 - 5		Field Class: GrSa, brn, Moist					
5 - 10		Field Class: SiSa, brn, Moist					
10 - 38.0		Field Class: GrSiSa, brn, Moist					
38.0 - 45		Hole stopped @ 38.0 ft					

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