



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

BORING NUMBER: B-101 North Side  
 SHEET 1 of 1  
 DATE STARTED: 3/02/94  
 DATE COMPLETED: 3/03/94

PROJECT NAME: HIGHGATE  
 SITE NAME: VT-78  
 STATION: 12+45  
 OFFSET: -27.50  
 VTSPG: N 889465.80 ft E 1511316.10 ft

PROJECT NUMBER: STP 0296(2)  
 SITE NUMBER: MM 5.5  
 GROUND ELEVATION: 276.3 ft  
 GROUNDWATER DEPTH: 15.4 ft 3/04/94  
 PROJECT PIN NUMBER: 07C154

BORING CREW  
 CREW CHIEF: RAYMOND  
 DRILLER: WILLIS  
 LOGGER: POWERS

BORING RIG: UNIMOG  
 BORING TYPE: HOLLOW STEM AUGER  
 SAMPLE TYPE: SPLIT BARREL  
 CHECKED BY: CCB

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	WELL DIAGRAM	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)
		A-3, Sa, brn, Moist, Rec. = 1.1 ft		16	5.2			
10		A-4, SaSi, brn, MTW, Rec. = 1.3 ft		23	25.4			
		A-4, Si, brn, MTW, Rec. = 1.5 ft		11	24.5			
20		A-4, Si, gry-brn, Wet, Rec. = 1.8 ft		10	26.8			
		A-4, SaSi, gry, Wet, Rec. = 1.5 ft		7	22.9			
30		A-4, SaSi, gry, Wet, Rec. = 1.7 ft		10	27.4			
		A-4, Si, gry, Wet, Rec. = 2.0 ft		3	24.7			
40		A-4, SaSi, gry, Wet, Rec. = 1.5 ft		8	27.6			
		A-4, SaSi, gry, Wet, Rec. = 1.5 ft		14	24.9			
50		A-4, SaSi, gry, Wet, Rec. = 2.0 ft		0	26.4			
		Hole stopped @ 52.0 ft						
		DRILLER'S NOTES: 1. No ledge to depth of hole. 2. Monitoring well installed to 30.0 ft. 3. About 1 ft. of well casing is above ground level. 4. Ground water elevation was 13.4 ft. on 12/16/1999						

LOG OF BORING HIGHGATE STP 0296(2).GPI VT AOT.GDT 4/9/09



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 SUBSURFACE INFORMATION

BORING NUMBER: B-102 South Side  
 SHEET 1 of 1  
 DATE STARTED: 8/05/93  
 DATE COMPLETED: 8/10/93

PROJECT NAME: HIGHGATE  
 SITE NAME: VT-78  
 STATION: 12+46  
 OFFSET: 17.50  
 VTSPG: N 889430.30 ft E 1511284.60 ft

PROJECT NUMBER: STP 0296(2)  
 SITE NUMBER: MM 5.5  
 GROUND ELEVATION: 273.4 ft  
 GROUNDWATER DEPTH: 30.8 ft 8/11/93  
 PROJECT PIN NUMBER: 07C154

BORING CREW  
 CREW CHIEF: RAYMOND  
 DRILLER: RAYMOND  
 LOGGER: POWERS

BORING RIG: UNIMOG  
 BORING TYPE: WASH BORE  
 SAMPLE TYPE: SPLIT BARREL  
 CHECKED BY: CCB

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	WELL DIAGRAM	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)	
	○ ○	A-2-4, GrSiSa with Trace of Organics, brn, MTW, Rec. = 0.4 ft		2	14.2						
	○ ○	A-2-4, SiGrSa, brn, MTW, Rec. = 0.7 ft		2	17.6						
	■	Field Note, No Recovery		2							
	● ●	A-3, Sa, brn, MTW, Rec. = 0.6 ft		3	20.7						
10	○ ○	A-2-4, SiSa, brn, MTW, Rec. = 0.5 ft		2	20.9						
	▨	A-4, Si, gry, Moist, Rec. = 1.2 ft		11	22.7					20	2
	▨	A-4, Si, brn, Moist, Rec. = 1.0 ft		12	20.5						
	▨	A-4, Si, brn, MTW, Rec. = 0.6 ft		14	25.2						
	▨	A-4, Si, brn, Wet, Rec. = 1.2 ft		6	26.7						
20	▨	A-4, Si, gry, Wet, Rec. = 1.0 ft		11	29.2						
	▨	A-4, Si, gry, Wet, Rec. = 1.1 ft		8	26.0						
	▨	A-4, Si, gry, MTW, Rec. = 1.1 ft		6	24.3					18	2
	▨	A-4, Si, gry, MTW, Rec. = 0.5 ft		9	24.0						
	▨	A-4, Si, gry, Wet, Rec. = 1.4 ft		17	26.9					22	5
	▨	A-4, SaSi, gry, Moist		10	23.7						
30	○ ○	A-2-4, SiSa, gry, Moist, Rec. = 0.7 ft		10	23.1						
	▨	A-4, SiSa, gry, Moist, Rec. = 0.9 ft		8	24.2						
	▨	A-4, Si, gry, Wet, Rec. = 1.1 ft		3	26.9						
	▨	A-4, SaSi, gry, Wet, Rec. = 1.1 ft		8	25.2						
	▨	A-4, SiSa, gry, Moist, Rec. = 1.0 ft		9	25.3						
40	○ ○	A-2-4, SiSa, gry, Moist, Rec. = 0.7 ft	38	21.5							
	▨	A-4, SaSi, gry, Wet, Rec. = 1.2 ft	8	23.8							
	▨	A-4, SaSi, gry, Wet, Rec. = 1.2 ft	10	24.7							
	▨	A-4, SiSa, gry, Moist, Rec. = 0.8 ft	42	23.8							
	▨	A-4, SaSi, gry, Moist, Rec. = 0.6 ft	36	24.2							
50	○ ○	A-2-4, Sa, gry, Moist, Rec. = 0.7 ft	40	21.5							
		Hole stopped @ 50.0 ft									
		DRILLER'S NOTES: 1. No ledge to depth of hole. 2. Monitoring well installed to 46.5 ft. 3. About 1 ft. of well casing is above ground level. 4. Ground water elevation was 18.1 ft. on 12/16/1999									

LOG OF BORING HIGHGATE STP 0296(2).GPJ VT AOT.GDT 4/9/09



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BORING NUMBER: B-201  
 SHEET 1 of 1  
 DATE STARTED: 12/04/08  
 DATE COMPLETED: 12/05/08

PROJECT NAME: HIGHGATE  
 SITE NAME: VT-78  
 STATION: 13+83  
 OFFSET: -23.00  
 VTSPG: N 889354.70 ft E 1511405.90 ft

PROJECT NUMBER: STP 0296(2)  
 SITE NUMBER: MM 5.5  
 GROUND ELEVATION: 276.4 ft  
 GROUNDWATER DEPTH: 27.0 ft 12/05/08  
 PROJECT PIN NUMBER: 07C154

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

BORING RIG: LARGE SKID RIG w/AUTO HAMMER  
 BORING TYPE: WASH BORE  
 SAMPLE TYPE: SPLIT BARREL  
 CHECKED BY: CEE

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	WELL DIAGRAM	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
Top of Well Elevation: 276.2 ft										
	○ ○	A-2-4, SiSa, brn, Moist, Rec. = 1.5 ft		12	20.4	10.4	61.2	28.4		
	▲ ▲	A-3, Sa, brn, Moist, Rec. = 1.1 ft		10	8.0	19.8	71.9	8.3		
	▲ ▲	A-3, Sa, brn, Moist, Rec. = 1.1 ft		15	19.1	5.1	91.4	3.5		
	▲ ▲	A-3, Sa, brn, Moist, Rec. = 1.5 ft		13	12.6	7.6	87.8	4.6		
10	▲ ▲	A-3, Sa, brn, Moist, Rec. = 1.1 ft		7	22.7	3.4	94.0	2.6		
	▲ ▲	A-3, Sa, brn, Moist, Rec. = 1.4 ft		6	6.4	5.7	91.2	3.1		
	○ ○	A-2-4, SiSa, brn, Moist, Rec. = 1.2 ft		11	22.9	0.7	70.7	28.6		
	▲ ▲	A-3, Sa, brn, Moist, Rec. = 1.0 ft		12	21.9	0.7	93.9	5.4		
	▲ ▲	A-4, SaSi, brn, Moist, Rec. = 1.0 ft		9	21.7	0.0	21.7	78.3		
	▲ ▲	A-4, Si, brn, Moist, Rec. = 1.4 ft		9	25.2	0.0	18.5	81.5		
20	▲ ▲	A-4, Si, brn, MTW, Rec. = 0.9 ft		4	26.6	0.0	13.6	86.4		
	▲ ▲	A-4, Si, gry-brn, Moist, Rec. = 1.3 ft		2	26.6	0.0	2.7	97.3	22	2
30	▲ ▲	A-4, SiSa, brn, Moist, Rec. = 0.8 ft		14	24.2	0.0	63.2	36.8		
	▲ ▲	A-4, SaSi, gry, Moist, Rec. = 1.3 ft		50	24.6	0.0	47.1	52.9		
40	▲ ▲	A-4, SaSi, gry, Moist, Rec. = 1.2 ft		13	25.1	0.0	44.7	55.3		
	○ ○	A-2-4, SiSa, gry, MTW, Rec. = 0.8 ft	17	30.1	0.0	71.2	28.8			
50	▲ ▲	A-4, Si, gry, Moist, Rec. = 1.9 ft	6	24.0	0.0	4.7	95.3	23	4	
Hole stopped @ 52.0 ft										
DRILLER'S NOTES: 1. No ledge to depth of hole. 2. Monitoring well installed to 30.0 ft. 3. Top of well casing is at 0.2 ft below ground level.										

LOG OF BORING HIGHGATE STP 0296(2).BPU VT AOT.GDT 4/9/09



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BORING NUMBER: B-202  
 SHEET 1 of 1  
 DATE STARTED: 11/19/08  
 DATE COMPLETED: 12/03/08

PROJECT NAME: HIGHGATE  
 SITE NAME: VT-78  
 STATION: 13+61  
 OFFSET: 6.80  
 VTSPG: N 889354.70 ft E 1511368.90 ft

PROJECT NUMBER: STP 0296(2)  
 SITE NUMBER: MM 5.5  
 GROUND ELEVATION: 275.0 ft  
 GROUNDWATER DEPTH: 23.7 ft 12/03/08  
 PROJECT PIN NUMBER: 07C154

BORING CREW  
 CREW CHIEF: GARROW  
 DRILLER: GARROW  
 LOGGER: MAHMUTOVIC

BORING RIG: LARGE SKID RIG w/AUTO HAMMER  
 BORING TYPE: WASH BORE  
 SAMPLE TYPE: SPLIT BARREL  
 CHECKED BY: CEE

DEPTH (ft)	SYMBOL	CLASSIFICATION OF MATERIALS (Description)	WELL DIAGRAM	BLOWS PER FOOT	M.C. (%)	GRAVEL (%)	SAND (%)	FINES (%)	LL (%)	PI (%)
Top of Well Elevation: 274.7 ft										
		Asphalt pavement, 0.0 ft - 1.7 ft								
		A-2-4, GrSa, brn, Moist, Rec. = 0.4 ft		7	13.0	28.6	57.1	14.3		
		A-2-4, Sa, brn, MTW, Rec. = 1.2 ft		5	18.3	10.5	73.2	16.3		
		A-3, Sa, brn, MTW, Rec. = 0.6 ft		6	13.2	22.5	73.1	4.4		
		A-3, Sa, brn, Wet, Rec. = 0.9 ft		6	26.7	0.0	95.6	4.4		
10		A-2-4, Sa, brn, Wet, Rec. = 1.3 ft		8	20.0	5.0	78.5	16.5		
		A-4, SiSa, brn, Wet, Rec. = 1.1 ft		7	24.2	0.0	52.1	47.9		
		A-4, SaSi, brn, Wet, Rec. = 1.8 ft		6	27.4	0.0	23.2	76.8		
20		A-4, Si, brn, Wet, Rec. = 1.9 ft		6	26.4	0.0	9.2	90.8		
		A-4, Si, brn, Wet, Rec. = 1.6 ft		5	26.4	0.0	2.1	97.9		
30		A-4, SaSi, brn, Wet, Rec. = 1.4 ft		13	26.8	0.0	21.8	78.2		
		A-4, SiSa, gry, MTW, Rec. = 0.9 ft		28	25.0	0.0	52.2	47.8		
40		A-4, Si, gry, MTW, Rec. = 1.3 ft		9	21.6	0.0	12.2	87.8		
		A-4, SiSa, gry, MTW, Rec. = 1.1 ft		17	24.7	0.0	54.3	45.7		
50		A-4, Si, gry, Moist, Rec. = 1.8 ft		10	21.8	0.0	5.0	95.0	21	2
		Hole stopped @ 52.0 ft								
		DRILLER'S NOTES: 1. No ledge to depth of hole. 2. Monitoring well installed to 30.0 ft. 3. Top of well casing is at 0.3 ft below ground level.								

LOG OF BORING HIGHGATE STP 0296(2).BPU VT AOT.LGD 4/9/09