x

6.34 m

PARTIAL BORING LOG B-116

GZA GeoEnvironmental Inc. Engineers and Scientists

BENNINGTON BYPASS NORTH
BENNINGTON, VERMONT

BORING NO.: B-116
PAGE: 1 OF 3
FILE NO.: 22724
CHECK: DGL

CONTRACTOR: NEW HAMPSHIRE BORING
FOREMAN: MATT MARSTON
LOGGED BY: MARC SEXTON
DATE START/FINISH: 7-9-01 / 7-10-01
BORING LOCATION: NB 6+228, CL
GS ELEV.: 250.16M DATUM: NAVD88

	AUGER/ CASING	SAMPLER
TYPE:	HW	S.S.
I.D.:	102MM	35MM
HAMMER WT.:	136.1KG	63.5KG
HAMMER FALL:	0.61M	0.76M
RIG TYPE:	DIEDRICH D-50 BOMBARDIER	

GROUNDWATER READINGS				
DATE	TIME	DEPTH	CASING	STAB
7/10/01	0710	2.00M	3.81M	14.5 HRS.

DEPTH (M)	SAMPLE INFORMATION NO.	PEN./ REC. (M)	DEPTH (M)	BLOWS (/0.15M)	N VALUE	SAMPLE DESCRIPTION & CLASSIFICATION	STRATUM DESC.	REMARKS	EQUIPMENT INSTALLED
0									NO EQUIPMENT INSTALLED
1						ADVANCED BOREHOLE THROUGH NESTED COBBLES AND BOULDERS FROM 0 TO 3.20 METERS (0 TO 10.5 FEET) BELOW GROUND SURFACE USING AN ODEX DRILL.	FLUVIAL		
2									
3							3.20M		
4	S-1	0.61/ 0.46	4.27- 4.88	5-10 12-25	22	VERY STIFF, LIGHT BROWN, CLAYEY SILT, TRACE FINE SAND WITH WHITE, CLAYEY SILT LENSES. (A-4)			
5									
6	S-2	0.61/ 0.41	6.10- 6.71	5-21 26-36	47	HARD, LIGHT BROWN, CLAYEY SILT, TRACE FINE SAND WITH WHITE, CLAYEY SILT LENSES. (A-4)	LACUSTRINE		
7									
8	S-3	0.61/ 0.41	7.62- 8.23	11-16 28-60	44	HARD, LIGHT BROWN, CLAYEY SILT WITH WHITE, CLAYEY SILT LENSES. (A-4)			
9									

REMARKS

STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL. WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO.:B-116

SOIL_BL_WELL_BRK000.DPJ GZA.MK.GDT 8/12/02

* BOTTOM OF FOOTING, ABUT.1 - EL. 256.500

PARTIAL BORING LOG B-116 (CONT'D)

GZA GeoEnvironmental Inc. Engineers and Scientists

BENNINGTON BYPASS NORTH
BENNINGTON, VERMONT

BORING NO.: B-116
PAGE: 2 OF 3
FILE NO.: 22724
CHECK: DGL

DEPTH (M)	SAMPLE INFORMATION NO.	PEN./ REC. (M)	DEPTH (M)	BLOWS (/0.15M)	N VALUE	SAMPLE DESCRIPTION & CLASSIFICATION	STRATUM DESC.	REMARKS	EQUIPMENT INSTALLED
10	S-4	0.61/ 0.48	9.14- 9.75	6-13 18-25	31	HARD, LIGHT BROWN, CLAYEY SILT. (A-4)			
11	S-5	0.61/ 0.46	10.67- 11.28	7-19 25-34	44	DENSE, LIGHT BROWN, SILT, SOME FINE SAND WITH REDDISH BROWN, FINE SAND SEAMS. (A-4)			
12	S-6	0.61/ 0.41	12.19- 12.80	6-21 32-80	53	HARD, LIGHT BROWN, CLAYEY SILT, SOME FINE SAND. (A-4)			
13									
14	S-7A/B	0.61/ 0.36	13.72- 14.33	10-20 37-65	57	S-7A (TOP 0.20M: HARD, BROWN, CLAYEY SILT, SOME FINE SAND WITH WHITE AND GRAY, CLAYEY SILT LENSES. (A-4) S-7B (BOTTOM 0.16M: VERY DENSE, REDDISH BROWN, FINE TO COARSE SAND, SOME SILT, LITTLE GRAVEL. (A-2-5)	LACUSTRINE		
15	S-8	0.61/ 0.43	15.24- 15.85	7-17 25-41	42	HARD, LIGHT BROWN, CLAYEY SILT, SOME FINE SAND WITH WHITE, CLAYEY SILT LENSES. (A-4)			
16									
17	S-9	0.61/ 0.36	16.76- 17.37	12-27 42-49	69	HARD, REDDISH BROWN, CLAYEY SILT, SOME FINE SAND WITH GRAY, CLAYEY SILT LENS. (A-4)			
18									
19	S-10	0.61/ 0.30	18.29- 18.90	14-29 37-58	66	HARD, LIGHT BROWN, CLAYEY SILT, SOME FINE SAND WITH WHITE, CLAYEY SILT LENSES AND DARK RED, FINE SAND LENSES. (A-4)			

REMARKS

STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL. WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO.:B-116

SOIL_BL_WELL_BRK000.DPJ GZA.MK.GDT 8/12/02

PARTIAL BORING LOG B-117 (OW)

GZA GeoEnvironmental Inc. Engineers and Scientists

BENNINGTON BYPASS NORTH
BENNINGTON, VERMONT

BORING NO.: B-117(OW)
PAGE: 1 OF 4
FILE NO.: 22724
CHECK: DGL

CONTRACTOR: NEW HAMPSHIRE BORING
FOREMAN: MATT MARSTON
LOGGED BY: J. GAUDREAU/M. SEXTON
DATE START/FINISH: 7-17-01 / 7-20-01
BORING LOCATION: NB 6+261.1, 35.6M L
GS ELEV.: 249.28M DATUM: NAVD88

	AUGER/ CASING	SAMPLER
TYPE:	HW	S.S.
I.D.:	102MM	35MM
HAMMER WT.:	136.1KG	63.5KG
HAMMER FALL:	0.61M	0.76M
RIG TYPE:	DIEDRICH D-50 BOMBARDIER	

GROUNDWATER READINGS				
DATE	TIME	DEPTH	CASING	STAB
7/18/01	0745	0.50M	2.29M	13 HRS.
7/24/01	0905	0.57M	PVC	4 DAYS

DEPTH (M)	SAMPLE INFORMATION NO.	PEN./ REC. (M)	DEPTH (M)	BLOWS (/0.15M)	N VALUE	SAMPLE DESCRIPTION & CLASSIFICATION	STRATUM DESC.	REMARKS	EQUIPMENT INSTALLED
0									PROTECTIVE STANDPIPE
1						ADVANCED BOREHOLE THROUGH NESTED COBBLES AND BOULDERS FROM 0 TO 1.83 METERS (0 TO 6 FEET) BELOW GROUND SURFACE USING AN ODEX DRILL.	FLUVIAL		CONCRETE SEAL
2							1.83M		51MM ID SOLID SCH 40 PVC WELL RISER
3	S-1	0.61/ 0.00	2.74- 3.35	11-11 13-14	24	NO RECOVERY.			1.52M
4	S-2	0.61/ 0.38	4.27- 4.88	3-11 16-21	27	VERY STIFF, LIGHT BROWN, CLAY & SILT, LITTLE FINE SAND WITH WHITE, CLAYEY SILT LENSES. (A-6)			
5									
6	S-3	0.61/ 0.51	5.79- 6.40	7-13 13-23	26	VERY STIFF, LIGHT BROWN, CLAY & SILT, LITTLE FINE SAND WITH WHITE, CLAYEY SILT LENSES. (A-6)	LACUSTRINE	1	6.10M
7									
8	S-4	0.61/ 0.13	7.32- 7.92	11-21 32-34	53	HARD, BROWN, SILT & CLAY, LITTLE FINE TO MEDIUM SAND. (A-4)		1	FILTER SAND
9	S-5	0.61/ 0.38	8.84- 9.45	10-19 27-38	46	HARD, LIGHT BROWN, CLAYEY SILT, SOME FINE SAND. (A-4)			51MM ID SLOTTED SCH 40 PVC WELL SCREEN (0.3MM SLOT)

REMARKS

1. LABORATORY AASHTO CLASSIFICATION PERFORMED ON SAMPLES S-3 AND S-4.

STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES. TRANSITIONS MAY BE GRADUAL. WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED. FLUCTUATIONS OF GROUNDWATER MAY OCCUR DUE TO OTHER FACTORS THAN THOSE PRESENT AT THE TIME MEASUREMENTS WERE MADE.

BORING NO.:B-117(OW)

SOIL_BL_WELL_BRK000.DPJ GZA.MK.GDT 8/12/02

VTrans Metric

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BI5, BI5N, BI5S
Highway No. VT RTE 279	Log Sta. / Surv. Sta.
VT ROUTE 279 & RAMPS OVER ROARING BRANCH OF WALLOOMSAC RIVER	
BORING LOGS (SHEET 12 OF 33)	
Designed By GZA	Drawn By L.R. DELL
Checked By GZA Date 04/06	Bridge Design Supervisor K.M. WOJTKOWSKI Date 04/06
PROJECT BENNINGTON	PROJECT NO. AC NH 019-1(51)
TVGA CAD Drawing No. BL12.dgn	Date 02/02/2009
Bridge Sheet No. BR218	Sheet 205 of 367

TVGA CONSULTANTS