

Appendix F

Boring Logs and Monitor Well Diagrams

ASSOCIATED BORINGS CO INC
 119 Margaret Circle
 Naugatuck, Ct. 06770
 Tel (203) 729-5435
 Fax (203) 729-5116

TEST BORING REPORT

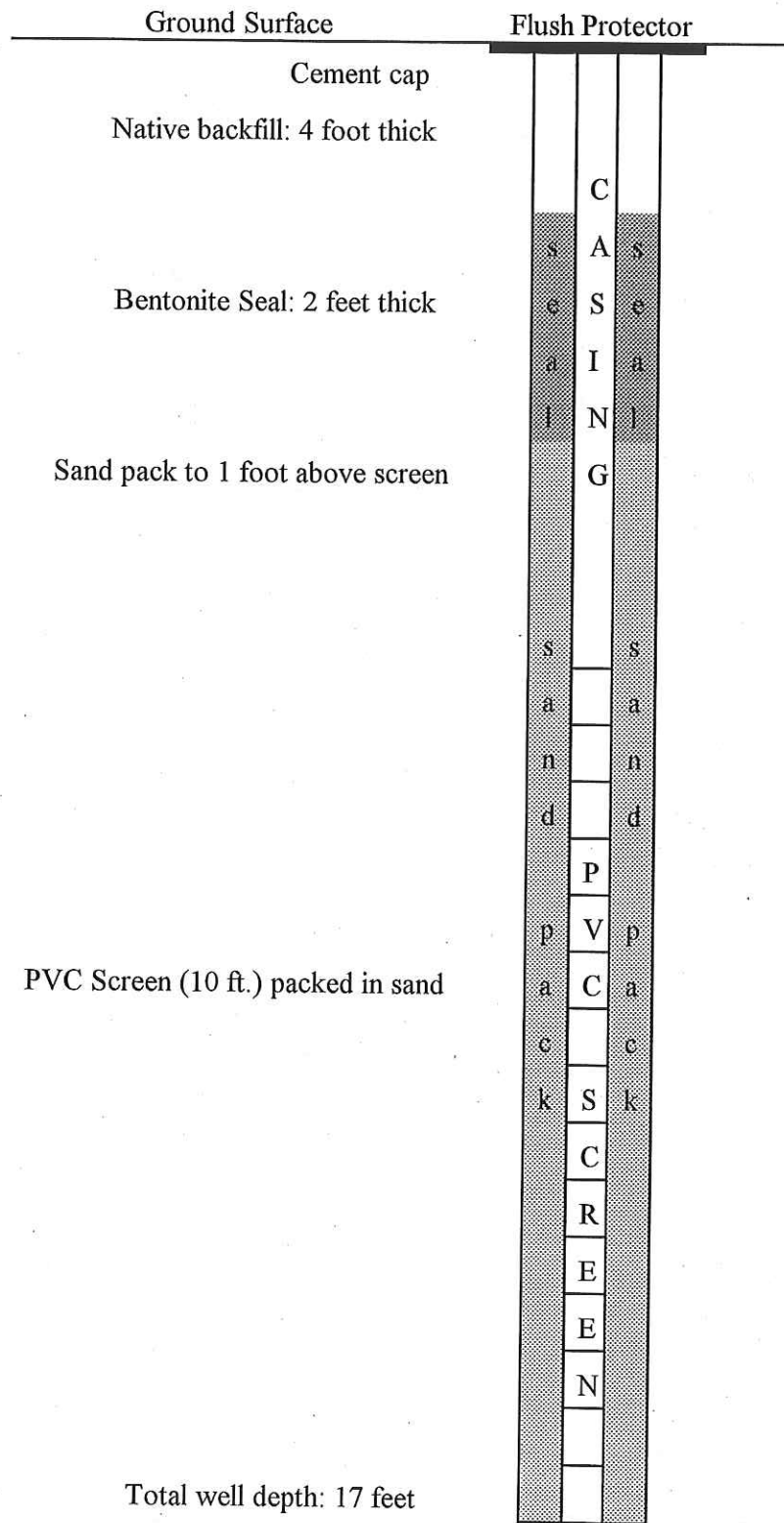
BORING # W-1

PROJ Town Garage
 1 Main Street
 TOWN East Haddam, Connecticut
 CLIENT SHANAHAN CONSULTING

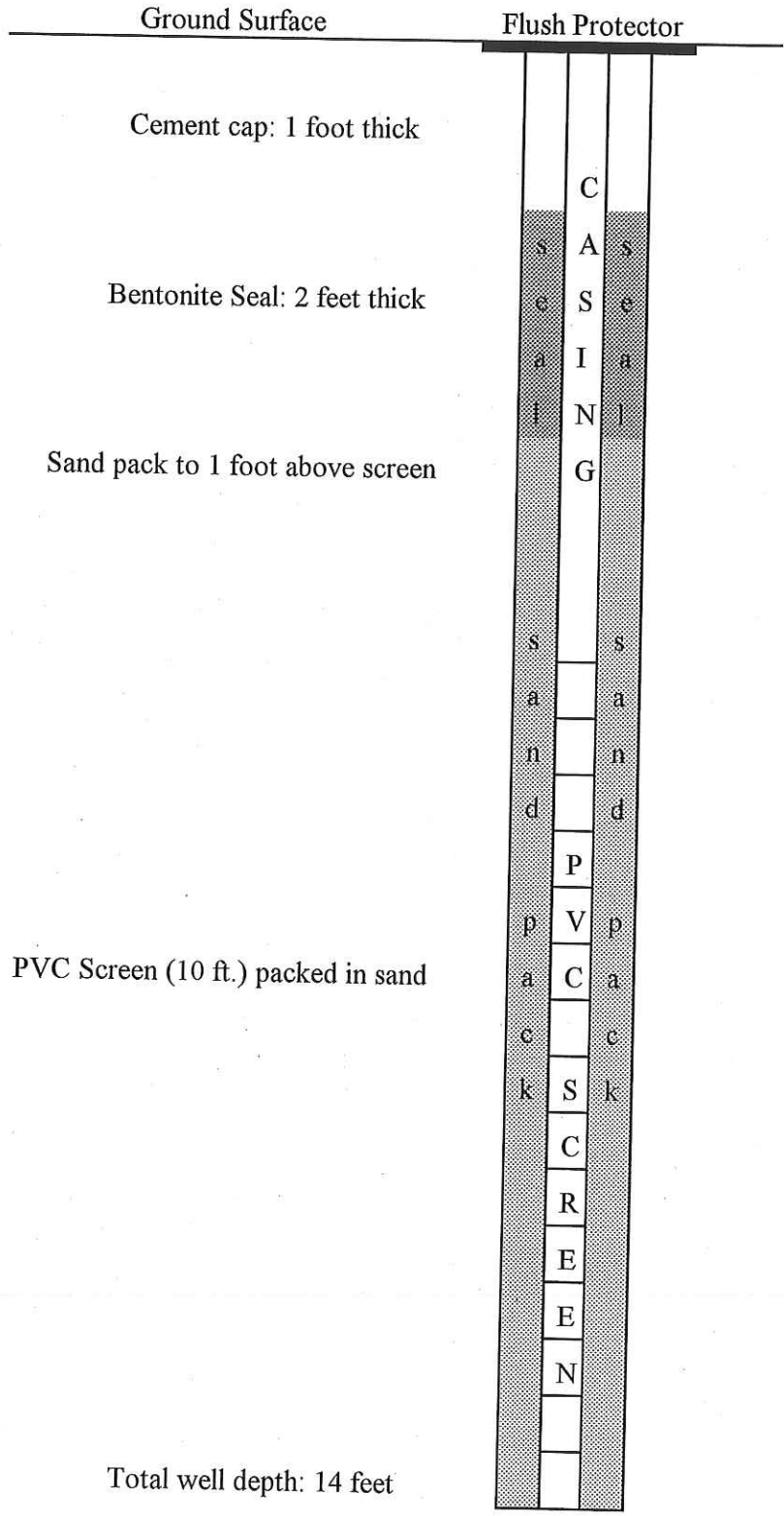
ELEVATION		PROJECT NO		ROCK CORE DIA.			DRILLER J. Lloret		DATE 11/12/03	
LINE & STA		OFFSET		METHOD 2 1/4" HSA			INSP N. Shanahan		PAGE 1 OF 1	
DEPTH		S.P.T. SAMPLE A							FIELD IDENTIFICATION OF SOILS	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
1	1.0	3.0	5	8	6	6	8"	DRY	0.6	Concrete
										Br. F. Sand, Some Silt Some C-F Gravel
2	5.0	7.0	17	12	13	15	10"	DRY		
									7.0	Br. F. Sand and Silt
3	10.0	12.0	5	7	6	6	12"	WET		End of Boring - 17.0 G.W.O. - 9.0
									17.0	WELL INSTALLED @ 17.0' 10' SCREEN 6.5' RISER FLUSH PROTECTOR

COL A - BLOWS ON CASING
 DRILL TIME PER FOOT
 HAMMER - SPT 140# 30" FALL
 SAMPLER - 1 3/8 ID SS
 W - WEIGHT OF HAMMER

TRACE - 1-10%
 LITTLE - 10-20% M-F MEDIUM TO FINE
 SOME - 20-35% C-F COARSE TO FINE
 AND - 35-50% GWO-GROUNDWATER LEVEL



CONSTRUCTION DIAGRAM FOR MONITOR WELL W1



CONSTRUCTION DIAGRAM FOR MONITOR WELL W2

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TEST BORING REPORT

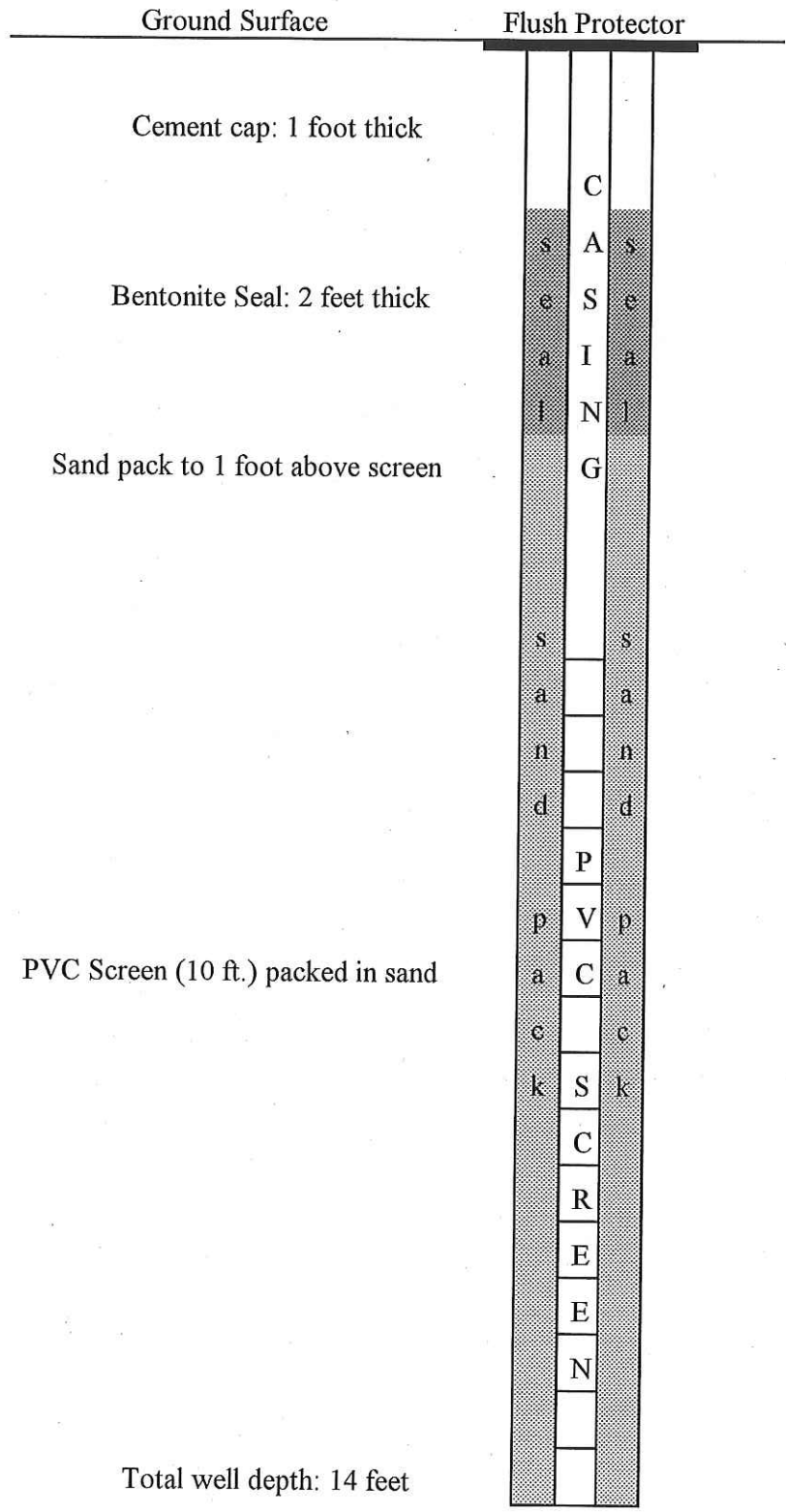
BORING # W-3

PROJ Town Garage
 1 Main Street
 TOWN East Haddam, Connecticut
 CLIENT SHANAHAN CONSULTING

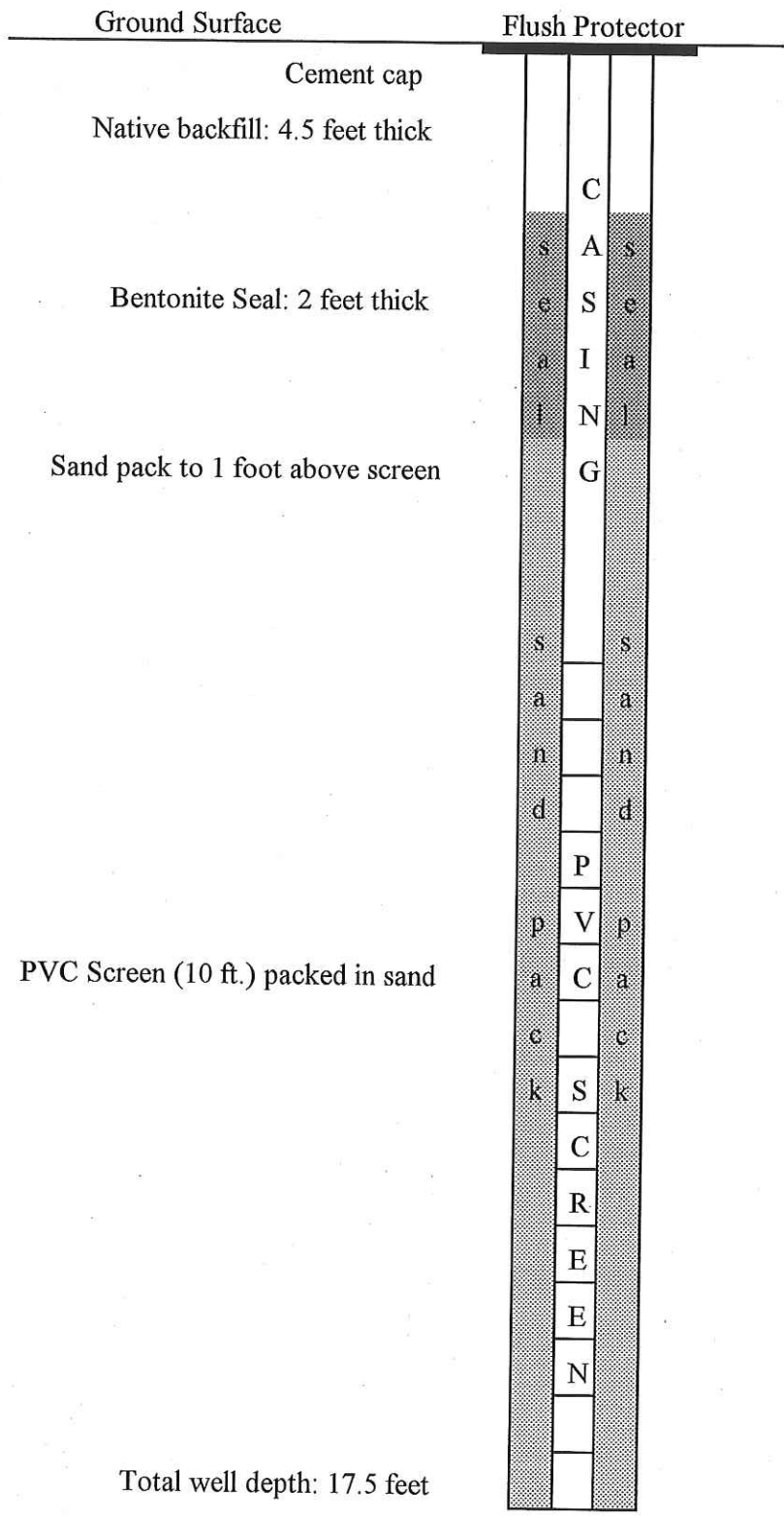
ELEVATION		PROJECT NO		ROCK CORE DIA.				DRILLER J. Lloret		DATE 11/13/03	
LINE & STA		OFFSET		METHOD 2 1/4" HSA				INSP N. Shanahan		PAGE 1 OF 1	
DEPTH		S.P.T. SAMPLE A							FIELD IDENTIFICATION OF SOILS		
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH		
1	0.0	2.0	2	2	3	2	3"	DRY	0.6	Bituminous Concrete	
										Br. M-F Sand and C-F Gravel (Fill)	
2	5.0	7.0	5	9	11	11	15"	WET			
									7.0		
										Br. F. Sand, Some Silt	
									14.0		
										End of Boring - 14.0	
										G.W.O. - 6.0	
										WELL INSTALLED @ 14.0'	
										10' SCREEN	
										4.0' RISER	
										FLUSH PROTECTOR	

COL A - BLOWS ON CASING
 DRILL TIME PER FOOT
 HAMMER - SPT 140# 30" FALL
 SAMPLER - 1 3/8 ID SS
 W - WEIGHT OF HAMMER

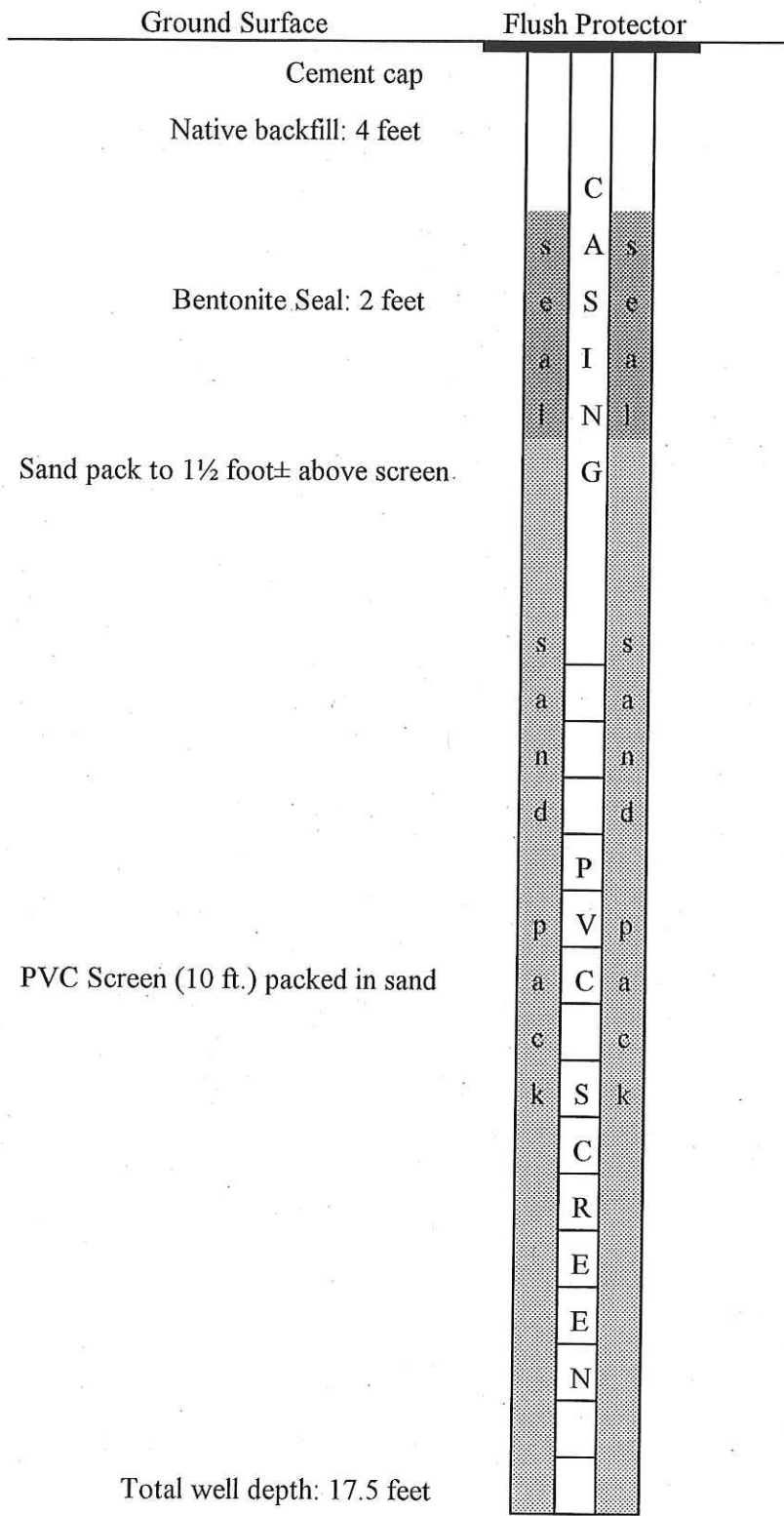
TRACE - 1-10%
 LITTLE - 10-20% M-F MEDIUM TO FINE
 SOME - 20-35% C-F COARSE TO FINE
 AND - 35-50% GWO-GROUNDWATER LEVEL



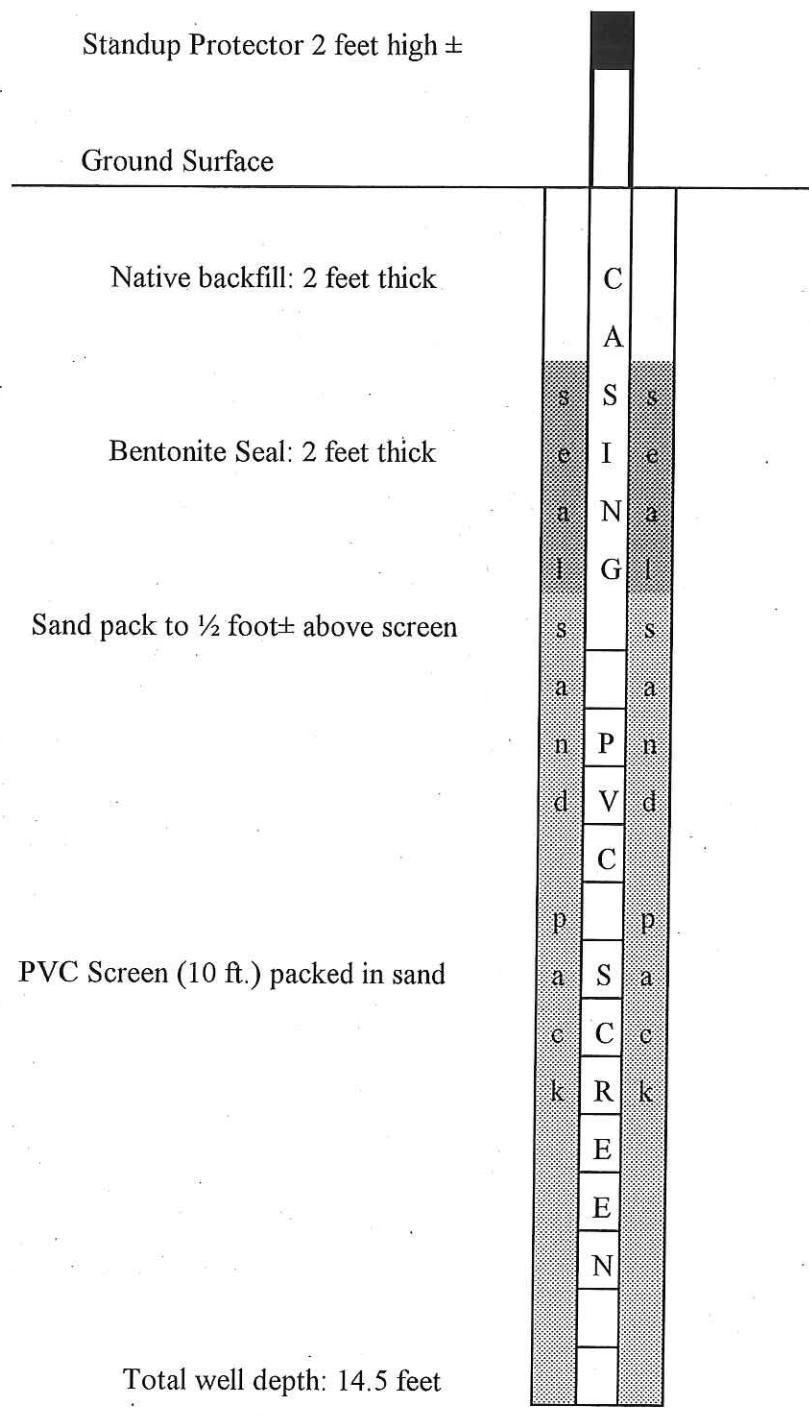
CONSTRUCTION DIAGRAM FOR MONITOR WELL W3



CONSTRUCTION DIAGRAM FOR MONITOR WELL W4



CONSTRUCTION DIAGRAM FOR MONITOR WELL W5



CONSTRUCTION DIAGRAM FOR MONITOR WELL W6

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TEST BORING REPORT

BORING # TG-4

PROJ Town Garage
 1 Main Street
 TOWN East Haddam, Connecticut
 CLIENT SHANAHAN CONSULTING

ELEVATION		PROJECT NO		ROCK CORE DIA.			DRILLER J. Lloret		DATE 10/8/03		
LINE & STA		OFFSET		METHOD 2 1/4" HSA			INSP N. Shanahan		PAGE 1 OF 1		
DEPTH		S.P.T. SAMPLE						A		FIELD IDENTIFICATION OF SOILS	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH		
1	1.0	3.0	4	9	10	11	3"	DRY	0.3	Bituminous Concrete	
2	5.0	7.0	5	8	7	7	9"	DRY		Br. M-F Sand, Some Silt, Some C-F Gravel, Cobbles, (Fill)	
									8.0		
3	10.0	12.0	5	7	6	6	12"	WET		Br. F. Sand, Some Silt	
									12.0		
										End of Boring - 12.0	
										G.W.O. - 10.0	

COL A - BLOWS ON CASING
 DRILL TIME PER FOOT
 HAMMER - SPT 140# 30" FALL
 SAMPLER - 1 3/8 ID SS
 W - WEIGHT OF HAMMER

TRACE - 1-10%
 LITTLE - 10-20% M-F MEDIUM TO FINE
 SOME - 20-35% C-F COARSE TO FINE
 AND - 35-50% GWO-GROUNDWATER LEVEL

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TEST BORING REPORT

BORING # TG-19

PROJ Town Garage
 1 Main Street
 TOWN East Haddam, Connecticut
 CLIENT SHANAHAN CONSULTING

ELEVATION		PROJECT NO		ROCK CORE DIA.			DRILLER J. Lloret		DATE 11/12/03	
LINE & STA		OFFSET		METHOD 2 1/4" HSA			INSP N. Shanahan		PAGE 1 OF 1	
DEPTH		S.P.T. SAMPLE A							FIELD IDENTIFICATION OF SOILS	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
1	0.0	2.0	6	6	5	7	8"	DRY	0.3	Topsoil
2	5.0	7.0	4	8	7	7	9"	MOIST		Br. F. Sand, Some Silt
3	7.0	9.0	5	9	7	50	8"	MOIST		
									9.0	

Refusal - 9.0
 End of Boring - 9.0
 G.W.O. - Moist

COL A - BLOWS ON CASING
 DRILL TIME PER FOOT
 HAMMER - SPT 140# 30" FALL
 SAMPLER - 1 3/8 ID SS
 W - WEIGHT OF HAMMER

TRACE - 1-10%
 LITTLE - 10-20% M-F MEDIUM TO FINE
 SOME - 20-35% C-F COARSE TO FINE
 AND - 35-50% GWO-GROUNDWATER LEVEL

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TEST BORING REPORT

BORING # AS-2

PROJ Town Hall
 7 Main Street
 TOWN East Haddam, Connecticut
 CLIENT SHANAHAN CONSULTING

ELEVATION		PROJECT NO		ROCK CORE DIA.		DRILLER J. Lloret		DATE 4/5/05		
LINE & STA		OFFSET		METHOD 2 1/4" HSA		INSP N. Shanahan		PAGE 1 OF 1		
DEPTH		S.P.T. SAMPLE						A		FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
1	1.0	3.0	8	12	13	12	12"	DRY		Br. M-F Sand, Some Silt, Some C-F Gravel
2	3.0	5.0	12	13	21	14	8"	DRY	3.0	
3	5.0	6.0	24	26	X	X	3"	MOIST		Br. C-F Sand and C-F Gravel
									6.0	
End of Boring - 6.0										G.W.O. - None

COL A - BLOWS ON CASING
 DRILL TIME PER FOOT
 HAMMER - SPT 140# 30" FALL
 SAMPLER - 1 3/8 ID SS
 W - WEIGHT OF HAMMER

TRACE - 1-10%
 LITTLE - 10-20% M-F MEDIUM TO FINE
 SOME - 20-35% C-F COARSE TO FINE
 AND - 35-50% GWO-GROUNDWATER LEVEL

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TEST BORING REPORT

BORING # AS-4

PROJ Town Hall
 7 Main Street
 TOWN East Haddam, Connecticut
 CLIENT SHANAHAN CONSULTING

ELEVATION		PROJECT NO		ROCK CORE DIA.			DRILLER J. Lloret		DATE 4/5/05		
LINE & STA		OFFSET		METHOD 2 1/4" HSA			INSP N. Shanahan		PAGE 1 OF 1		
DEPTH		S.P.T. SAMPLE						A		FIELD IDENTIFICATION OF SOILS	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH		
1	1.0	3.0	13	14	11	22	8"	DRY		Br. M-F Sand, Some Silt, Some C-F Gravel	
2	3.0	5.0	13	15	22	21	12"	DRY	3.0		
3	5.0	7.0	22	14	31	14	13"	MOIST		Br. C-F Sand and C-F Gravel	
									6.5		
									7.0	Lt. Br. M-F Sand	
										End of Boring - 7.0 G.W.O. - 7.0	

COL A - BLOWS ON CASING DRILL TIME PER FOOT HAMMER - SPT 140# 30" FALL SAMPLER - 1 3/8 ID SS W - WEIGHT OF HAMMER	TRACE - 1-10% LITTLE - 10-20% M-F MEDIUM TO FINE SOME - 20-35% C-F COARSE TO FINE AND - 35-50% GWO-GROUNDWATER LEVEL
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TEST BORING REPORT

BORING # AS-6

PROJ Town Hall
 7 Main Street
 TOWN East Haddam, Connecticut
 CLIENT SHANAHAN CONSULTING

ELEVATION			PROJECT NO				ROCK CORE DIA.			DRILLER J. Lloret	DATE 4/5/05
LINE & STA			OFFSET				METHOD 2 1/4" HSA			INSP N. Shanahan	PAGE 1 OF 1
DEPTH			S.P.T. SAMPLE						A		FIELD IDENTIFICATION OF SOILS
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH		
1	1.0	3.0	13	17	11	19	10"	DRY		Br. M-F Sand, Some Silt, Some C-F Gravel	
2	3.0	5.0	24	33	25	32	12"	DRY	3.0		
3	5.0	7.0	25	34	16	18	10"	MOIST		Br. C-F Sand and C-F Gravel	
									6.0		
									7.0	Lt. Br. M-F Sand	
										End of Boring - 7.0	
										G.W.O. - 7.0	

COL A - BLOWS ON CASING
 DRILL TIME PER FOOT
 HAMMER - SPT 140# 30" FALL
 SAMPLER - 1 3/8 ID SS
 W - WEIGHT OF HAMMER

TRACE - 1-10%
 LITTLE - 10-20% M-F MEDIUM TO FINE
 SOME - 20-35% C-F COARSE TO FINE
 AND - 35-50% GWO-GROUNDWATER LEVEL

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TEST BORING REPORT

BORING # AS-7

PROJ Town Hall
 7 Main Street
 TOWN East Haddam, Connecticut
 CLIENT SHANAHAN CONSULTING

ELEVATION		PROJECT NO		ROCK CORE DIA.			DRILLER J. Lloret		DATE 4/5/05	
LINE & STA		OFFSET		METHOD 2 1/4" HSA			INSP N. Shanahan		PAGE 1 OF 1	
DEPTH		S.P.T. SAMPLE					A		FIELD IDENTIFICATION OF SOILS	
SS-#	FROM	TO	0-6	6-12	12-18	18-24	REC	NOTES	DEPTH	
1	1.0	3.0	21	24	32	29	13"	DRY	0.2	Bituminous Concrete
2	3.0	5.0	32	45	50	48	14"	DRY	2.5	Br. M-F Sand, Some Silt, Some C-F Gravel
3	5.0	7.0	21	16	14	13	10"	MOIST		Br. C-F Sand and C-F Gravel
									6.0	
									7.0	Lt. Br. M-F Sand
										End of Boring - 7.0
										G.W.O. - None

COL A - BLOWS ON CASING
 DRILL TIME PER FOOT
 HAMMER - SPT 140# 30" FALL
 SAMPLER - 1 3/8 ID SS
 W - WEIGHT OF HAMMER

TRACE - 1-10%
 LITTLE - 10-20% M-F MEDIUM TO FINE
 SOME - 20-35% C-F COARSE TO FINE
 AND - 35-50% GWO-GROUNDWATER LEVEL

Appendix G

Soil Test Screening Data

**SHANAHAN CONSULTING
SOIL SAMPLE TEST SCREENING DATA**

SITE NAME 1 & 7 Main Street

JOB NUMBER 03-42

INSTRUMENT USED HNU 11.7 eV

ANALYST Ned Shanahan

DATE OF SAMPLING 10-8-03

DATE OF TEST SCREENING 10-8-03

SAMPLE NO.	DEPTH (FT.)	SAMPLE RESPONSE ABOVE BACKGROUND (PPM)	COMMENTS
TG1S1	6-8	0.0	
TG1S2	8-10	0.0	Sent to lab.
TG2S1	0-2	0.0	Sent to lab.
TG2S2	5-7	0.0	Sent to lab.
TG2S3	10-12	0.1	Wet sample. Sent to lab.
TG3S1	0-2	0.0	Sent to lab.
TG3S2	5-7	0.0	Sent to lab.
TG3S3	10-12	0.0	Wet sample. Sent to lab.
TG4S1	1-3	---	No sample recovery in spoon.
TG4S2	5-7	0.0	
TG4S3	10-12	0.0	Wet sample. Sent to lab.
TG5S1	1-3	0.1	
TG5S2	5-7	0.0	Low sample recovery.
TG5S3	10-12	0.0	Wet sample. Sent to lab.
TG6S1	6±	0.0	Moist sample from auger spoils. Sent to lab.
TG6S2	10±	0.1	Wet sample. Collected off auger. Sent to lab.
TG7S1	8±	0.6	Collected from auger spoils. Sent to lab.
TG7S2	10±	0.0	Wet sample. Collected off auger. Sent to lab.

**SHANAHAN CONSULTING
SOIL SAMPLE TEST SCREENING DATA**

SITE NAME 1 & 7 Main Street

JOB NUMBER 03-42

INSTRUMENT USED HNU 11.7 eV

ANALYST Ned Shanahan

DATE OF SAMPLING 10-9-03

DATE OF TEST SCREENING 10-9-03

SAMPLE NO.	DEPTH (FT.)	SAMPLE RESPONSE ABOVE BACKGROUND (PPM)	COMMENTS
TG8S1	8±	4.8	From auger spoils. Petroleum odor. Sent to lab.
TG8S2	10±	0.4	Collected off auger. Wet sample. Sent to lab.
TG9S1	0-2	0.0	One inch layer of ash in sample.
TG9S2	5±	0.0	Collected off auger. Sent to lab.
TG9S3	10±	0.0	Collected off auger. Auger refusal at 10 feet.
TG10S1	5±	0.0	Collected off auger. Auger refusal at 5 feet. Moist sample. Sent to lab.
TG11S1	5-7	---	No recovery in spoon.
TG11S2	7-7½	0.0	Spoon refusal at 7½ feet. Sent to lab.
TG12S1	3½±	0.0	Off auger. Auger refusal at 3½ feet. Sent to lab.
TG13S1	½-1	0.0	Collected by hand off side of hole. Sent to lab.
TG13S2	5±	0.0	Collected off auger.
TG14S1	½-1	0.0	Collected by hand off side of hole. Sent to lab.
TG14S2	5±	0.0	Collected off auger.
TG14S3	10±	0.0	Moist sample. Collected off auger. Sent to lab.
TG15S1	½-1	0.1	Collected by hand off side of hole. Sent to lab.
TG15S2	5±	0.0	Collected off auger. Sent to lab.
TG15S3	10±	0.0	Wet sample. Collected off auger. Sent to lab.
TG16S1	½-1	0.0	Collected by hand off side of hole. Sent to lab.
TG16S2	5±	0.0	Collected off auger.
TG16S3	10'±	0.0	Wet sample. Collected off auger. Sent to lab.

**SHANAHAN CONSULTING
SOIL SAMPLE TEST SCREENING DATA**

SITE NAME 1 & 7 Main Street

JOB NUMBER 03-42

INSTRUMENT USED HNU 11.7 eV

ANALYST Ned Shanahan

DATE OF SAMPLING 11-12-03

DATE OF TEST SCREENING 11-12-03

SAMPLE NO.	DEPTH (FT.)	SAMPLE RESPONSE ABOVE BACKGROUND (PPM)	COMMENTS
TG18S1	0-2	0.2	
TG18S2	5-5½	0.3	Spoon refusal at 5½ feet. Sent to lab.
TG19S1	0-2	0.3	
TG19S2	5-7	0.4	Moist sample.
TG19S3	7-9	0.5	Moist sample. Spoon refusal at 9 feet. Sent to lab.
TG20S1	0-2	0.2	
TG20S2	5-5½	0.5	Spoon refusal at 5½ feet. Moist sample. Sent to lab.
TG21S1	0-1½	0.4	Collected off auger. Auger refusal at 1½ feet. Moist sample. Sent to lab.
TG22S1	½-1	0.4	Collected by hand off side of hole. Sent to lab.
TG22S2	5±	0.2	Collected off auger.
TG22S3	10±	0.4	Collected off auger. Moist sample. Sent to lab.
TG23S1	½-1	0.4	Collected by hand off side of hole. Sent to lab.
TG23S2	5±	0.2	Collected off auger.
TG23S3	10±	0.4	Collected off auger. Wet sample. Sent to lab.
W1S1	1-3	10.2	Sent to lab.
W1S2	5-7	0.5	Sent to lab.
W1S3	10-12	0.3	Wet sample.

