

ATTACHMENT G

Recovery Wells (RW-7 thru RW-10) and
Monitoring Wells (CW-32 thru CW-34)
Boring Logs



Tetra Tech
240 Continental Drive
Suite 200
Newark, De 19713

Havertown PCP OU3
900 N Eagle Road, Havertown, PA 19083

CW-31D (RW-7)

TETRA TECH, INC.

Northing:

Easting:

Starting Date: 10/14/08

Supervisor: Eric Watt

Elevation (Ground):

Completion Date: 10/22/08

Drilling Co.: Eichelbergers

Elevation (Inner-casing):

G.W. Flow Rate: Estimated yield 30 gallons per minute

Sample ID: HAV-OU3A-CW31D-1108

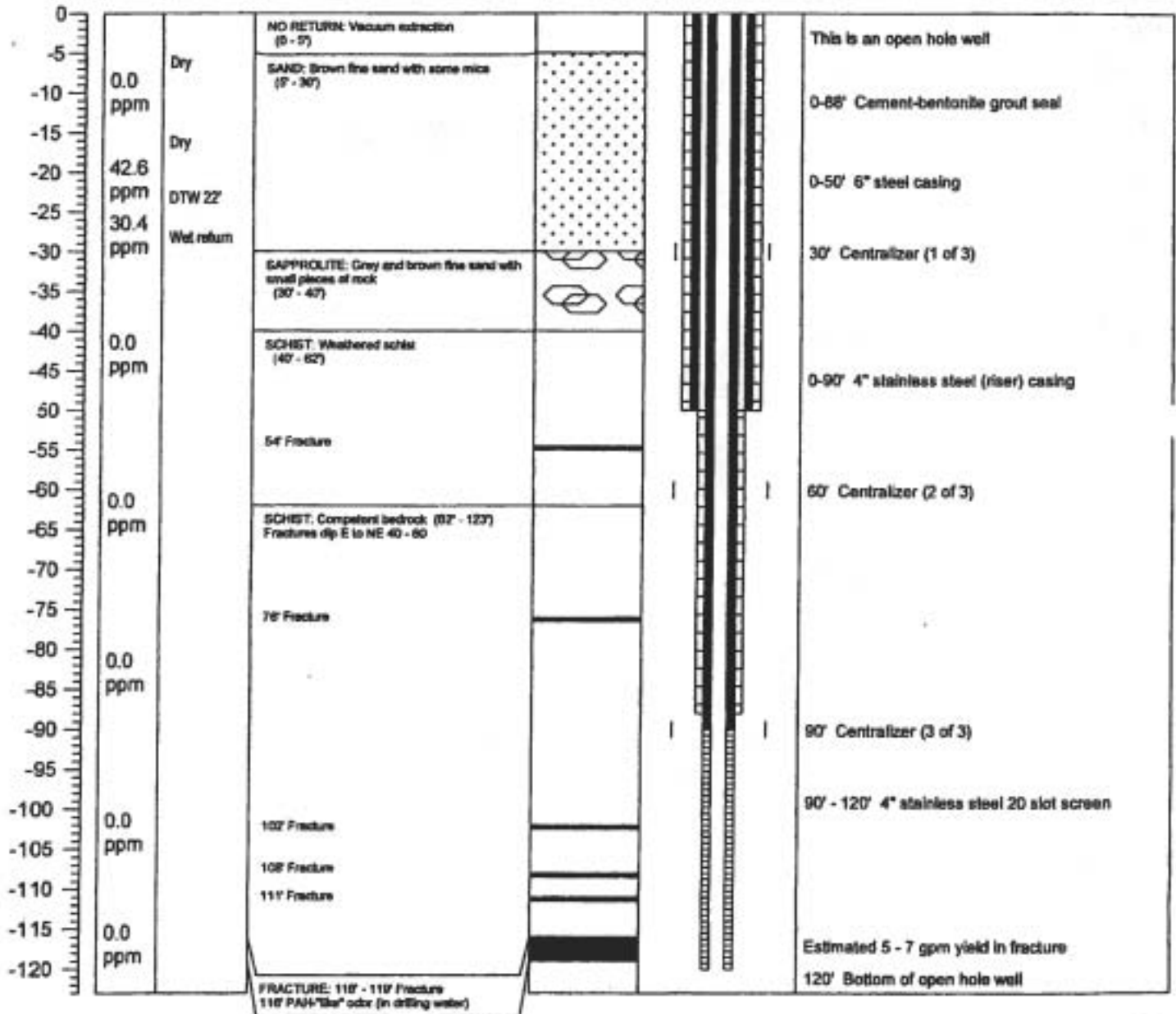
Elevation (Outer Casing):

PID Reading

Moisture Content

Lithology

Well Construction



Total Depth = 123



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FIELD BOREHOLE LOG

BOREHOLE NO.: **RW-8**

TOTAL DEPTH: **17'**

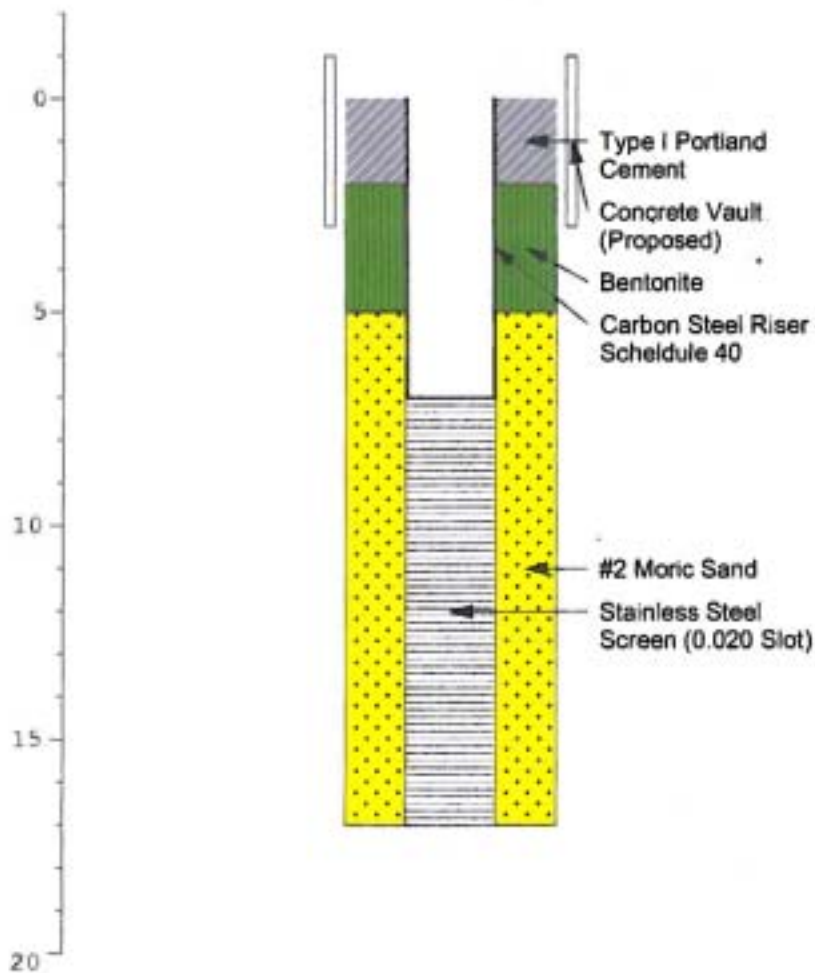
PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: **Havertown PCP Site**
 SITE LOCATION: **Havertown, Pa**
 JOB NO.: **112G02188**
 LOGGED BY: **Chris Geiger**
 PROJECT MANAGER: **Harish Mital**
 DATES DRILLED: **04-7-2010 to 04-8-2010**

DRILLING CO.: **A.C. Schultes**
 DRILLER: **---**
 RIG TYPE: **CME 45**
 METHOD OF DRILLING: **10" hollow stem auger**
 SAMPLING METHODS: **---**
 HAMMER WT/DROP: **---**

Overburden Monitoring Well Sheet Stick-Up



NOTES:



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FIELD BOREHOLE LOG

BOREHOLE NO.: **RW-9**

TOTAL DEPTH: **18'**

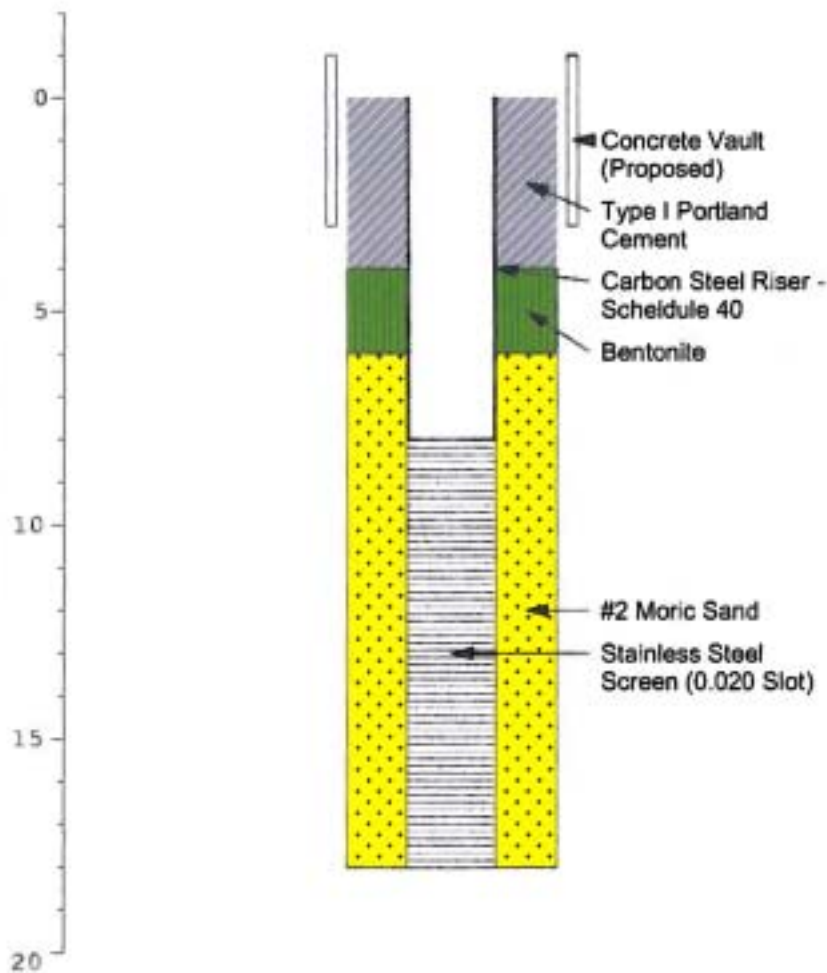
PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: **Havertown PCP Site**
SITE LOCATION: **Havertown, Pa**
JOB NO.: **112G02188**
LOGGED BY: **Chris Geiger**
PROJECT MANAGER: **Harish Mital**
DATES DRILLED: **4/6/2010**

DRILLING CO.: **A.C. Schultes**
DRILLER: **---**
RIG TYPE: **CME 45**
METHOD OF DRILLING: **10" hollow stem auger**
SAMPLING METHODS: **---**
HAMMER WT./DROP: **---**

Overburden Monitoring Well Sheet Stick-Up



NOTES:



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FIELD BOREHOLE LOG

BOREHOLE NO.: **RW-10**

TOTAL DEPTH: **18'**

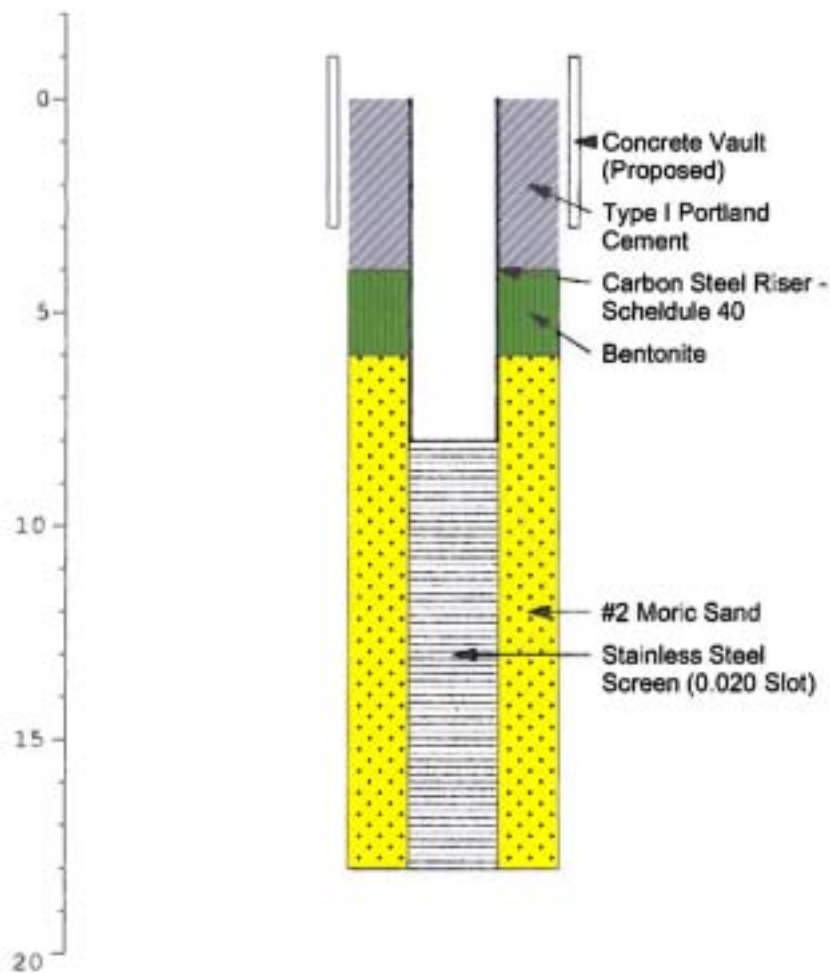
PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: **Havertown PCP Site**
SITE LOCATION: **Havertown, Pa**
JOB NO.: **112G02188**
LOGGED BY: **Chris Geiger**
PROJECT MANAGER: **Harish Mital**
DATES DRILLED: **4/5/2010 to 4/8/2010**

DRILLING CO.: **A.C. Schultes**
DRILLER: **---**
RIG TYPE: **CME 45**
METHOD OF DRILLING: **10" hollow stem auger**
SAMPLING METHODS: **---**
HAMMER WT./DROP: **---**

Overburden Monitoring Well Sheet Stick-Up



NOTES:



BORING LOG

PROJECT NAME: Havertown PCP Site
 PROJECT NUMBER: 112G02188
 DRILLING COMPANY: A.C. Schultes
 DRILLING RIG: Hollow Stem Auger

BORING No.: CW-32
 DATE: 3/31/2010
 GEOLOGIST: Chris Geiger
 DRILLER: ---

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Sol Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
				0		Gray	Gravel/Fill						
				8									
1	10	8/9	18"		M	Brown	Weathered rock			1			
	12	8/10					micaceous silt with fine sand						
							little mottled, low plasticity						
2	15	6/4	12"			Gray	same - harder			1			
	17	19/35				Brown	some fine sand						
3	20	5/10				Gray	same			1			
	22	25/23											
4	23	3/8					same - more competent						
	25	15/44	29"				hardness						
							rock in bottom of shoe						

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm):

Converted to Well: Yes X No _____ Well I.D. #: _____



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FIELD BOREHOLE LOG

BOREHOLE NO.: **CW-32**

TOTAL DEPTH: **23'**

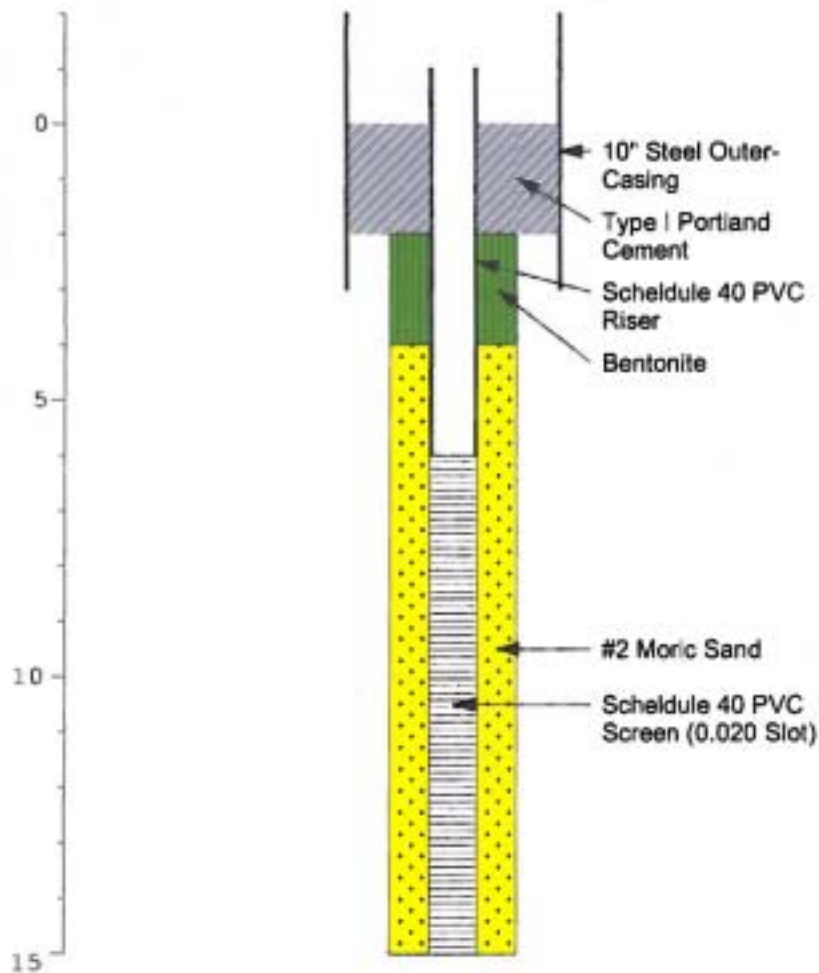
PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: **Havertown PCP Site**
SITE LOCATION: **Havertown, Pa**
JOB NO.: **112G02188**
LOGGED BY: **Chris Geiger**
PROJECT MANAGER: **Harish Mital**
DATES DRILLED: **04-1-2010 to 04-2-2010**

DRILLING CO.: **A.C. Schultes**
DRILLER: **---**
RIG TYPE: **CME 45**
METHOD OF DRILLING: **6" hollow stem auger**
SAMPLING METHODS: **---**
HAMMER WT./DROP: **---**

Overburden Monitoring Well Sheet Stick-Up



NOTES:



BORING LOG

PROJECT NAME: Havertown PCP Site
 PROJECT NUMBER: 112G02188
 DRILLING COMPANY: A.C. Schultes
 DRILLING RIG: Hollow Stem Auger

BORING No.: CW-33
 DATE: 3/31/2010
 GEOLOGIST: Chris Gelger
 DRILLER: ---

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PCB/Pb Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
				0		Gray	Gravel/Fill						
				1									
				1		Dark Brown	Silt, some sand, some mica						
				10					Dry				
1	10	14/17	18"	10		Brown / Gray	Silt, some sand, becoming harder			0			
	12	31/65+		11			some mica						
				11		Brown / Gray	Hard rock, spoon refusal		Dry				
				12									
2	15	6/50	over 4"				Same		Dry	0			
	17						Auger refusal at 17 feet						

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm):

Converted to Well: Yes X No _____ Well I.D. #: _____



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FIELD BOREHOLE LOG

BOREHOLE NO.: **CW-33**
TOTAL DEPTH: **16'**

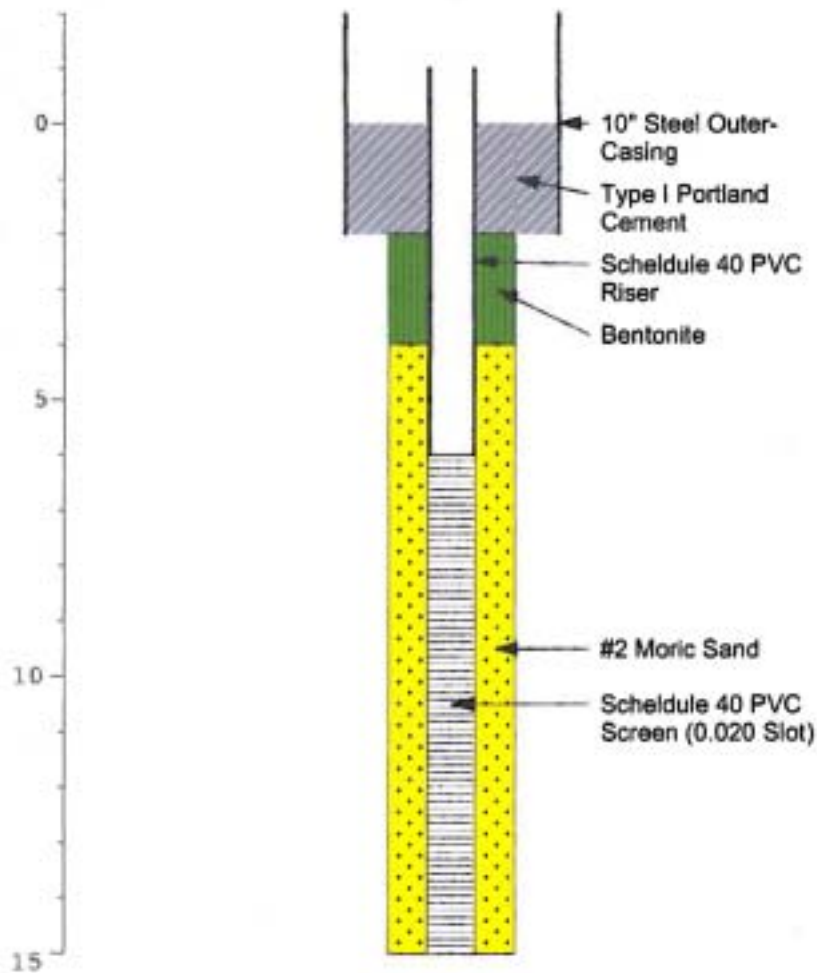
PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: **Havertown PCP Site**
SITE LOCATION: **Havertown, Pa**
JOB NO.: **112G02188**
LOGGED BY: **Chris Geiger**
PROJECT MANAGER: **Harish Mital**
DATES DRILLED: **04-1-2010**

DRILLING CO.: **A.C. Schultes**
DRILLER: **---**
RIG TYPE: **CME 45**
METHOD OF DRILLING: **6" hollow stem auger**
SAMPLING METHODS: **---**
HAMMER WT./DROP: **---**

Overburden Monitoring Well Sheet Stick-Up



NOTES:



BORING LOG

PROJECT NAME: Havertown PCP Site
 PROJECT NUMBER: 112G02188
 DRILLING COMPANY: A.C. Schultes
 DRILLING RIG: Hollow Stem Auger

BORING No.: CW-34
 DATE: 3/31/2010
 GEOLOGIST: Chris Geiger
 DRILLER: --

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)				
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**	
				0			Gravel/Fill		Wet					
1	10	7/11	6"	13			Gravel - very wet		Wet	0.2				
	12	4/4						changing to						
						Brown		silt with little sand						
2	15	2/4	12"			Brown		Mottled silt with little fine sand		Dry				
	17	7/10						micaceous, becoming harder						
								at 17 feet			0.2			
3	20	4/10						same		Dry				
	22	23/22												
4	25	50/over	4"					same hard rock		Dry	0			
	27							spoon refusal						

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm):

Converted to Well: Yes X No _____ Well I.D. #: _____



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FIELD BOREHOLE LOG

BOREHOLE NO.: **CW-34**
TOTAL DEPTH: **26'**

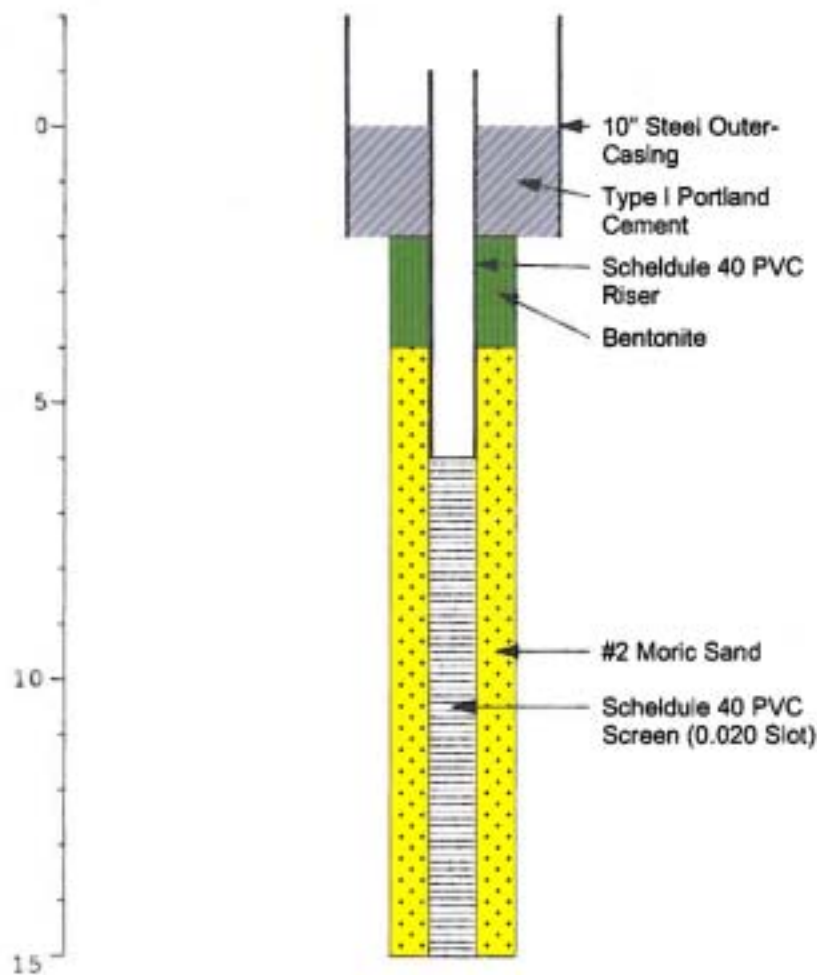
PROJECT INFORMATION

DRILLING INFORMATION

PROJECT: **Havertown PCP Site**
SITE LOCATION: **Havertown, Pa**
JOB NO.: **112G02188**
LOGGED BY: **Chris Geiger**
PROJECT MANAGER: **Harish Mital**
DATES DRILLED: **04-2-2010**

DRILLING CO.: **A.C. Schultes**
DRILLER: **---**
RIG TYPE: **CME 45**
METHOD OF DRILLING: **6" hollow stem auger**
SAMPLING METHODS: **---**
HAMMER WT./DROP: **---**

Overburden Monitoring Well Sheet Stick-Up



NOTES: