

APPENDIX A
SITE PHOTOGRAPHS



Looking West across landfill area from atop the landfill plateau seen in the foreground and on the right. Former large debris pile is visible at center. (Photo from DEC Site visit circa 2000).



Looking southwest. Part of the former, large debris pile (foreground), part of the former pallet pile (left) and part of the former creosote tie pile (right). (Photo from DEC Site visit, circa 2000).



Dumpster Staging Area (Photo from DEC Site visit, circa 2000).



Tire pile located southwest of the Chapin property. (Photo from TtEC circa 2002).



Battery Wall behind Chapin property prior to cleanup. (Photo from DEC Site visit, circa 2000).



View looking southeast of former structures on site. (Photo from DEC Site visit circa 2000).



Looking east on top of the plateau at landfill material and ponded water. Cape Avenue is to the upper left. (Photo from DEC Site visit circa 2000)



Looking southeast at debris piles. From right to left: (near) creosote tie pile, (far center) piles of wooden pallets, (far left) large debris pile with brush pile behind it. (Photo from DEC Site visit, circa 2000).



Landfill embankment looking northeast, access road to right (Photo from TtEC, circa 2002)



Upper plateau of the Site, post removal (Photo from TtEC files, October 2005)



Compactor Excavation (Photo from TtEC files, October 2005)



Lower portion of site, looking north at access road post removal (Photo from TtEC files, October 2005).



Background Soil Sample BG-08, sampled on December 6, 2007 (Photo from TtEC files, October 2007).



Background Soil Sample BG-06, sampled on December 6, 2007, lead concentration exceeded Residential SCO (Photo from TtEC files, October 2007)



Residential Soil Sample RSS-01 Location, sampled on December 12, 2007, Lead concentration exceeds Residential SCO (Photo from TtEC files, October 2007)



Residential Soil Sample RSS-02 Location, sampled on December 5, 2007, Lead and PCB concentrations exceed Residential SCOs) (Photo from TtEC files, October 2007)



Residential Soil Sample – RSS-18, sample collected on April 18, 2008, lead is an order of magnitude above the Residential SCO (Photo from TtEC files 2008).



Soil Gas Sampling points near MW-02, soil gas sampled in October-November 2007 (photo from TtEC files 2007)



Video logging pre-existing wells, November 2007 (Photo from TtEC files, 2007)



Test Pit TP-02, excavated November 5, 2007, black staining, sulfide odor noted (Photo from TtEC files, 2007)



Test Pit TP-03, excavated November 5, 2007, black staining noted (Photo from TtEC files, 2007)



Test Pit TP-04, excavated November 6, 2007, (Photo from TtEC files, 2007)



Test Pit TP-05, excavated November 6, 2007, staining noted (Photo from TtEC files, 2007)



Test Pit TP-06, excavated November 6, 2007, (Photo from TtEC files, 2007)



Leachate Pond, February 2008 (Photo from TtEC files, 2008)



Leachate, February 2008 (Photo from TtEC files, 2008)



Site Drainage from Leachate Pond, February 2008 (Photo from TtEC files, 2008)



Soil core from Direct Push boring DP-24, boring advanced December 12, 2007 (Photo from TtEC files, 2007)



Looking south toward the Beer Kill from the upland plateau post cleanup, HDR Site visit, February, 2010



Battery Wall behind Chapin property as of February 2010, HDR Site visit, February 2010



Frozen surface water at the former compactor area as observed during HDR site visit in February, 2009.



Remaining debris on the lower plateau as observed during HDR site visit in December, 2009.

APPENDIX B
TEST PIT LOGS

FIGURE 5-4
TEST PIT/TRENCH LOG (TYPICAL)
ELLENVILLE SCRAP IRON AND METAL SITE

TETRA TECH EC, INC.
TEST PIT/TRENCH LOG

Project: ELLENVILLE RIF Page 1 of 1
Test Pit No.: 01 Start Time: 1030 End Time: 1200 Weather: SUN, 40°
Date: 11-05-07 Final Length: 40' Surface Conditions: VEL
Geologist: CJD BLON Final Depth: 10'
Pit Orientation: E to W Final Width: 5'

VERTICAL SCALE Depth in Feet	Description of Material	H ₂ S/ LEL ppm	PID/ FID	Sample Taken
0	VEG @ SURFACE AND GRAVEL STAINING/DK GRAY/CHUNKS-RANDOM SOIL w/ SMALL AMOUNT DEBRIS, GLASS, SMALL METAL PIECES SAMPLE LOCATION	0%	6.5	ESI-TS01-0204-01
	Little to No	0%	0	
	Fill	0%	0	
	COBBLES	0%	0	
5'	NATIVE	0%	0	
	BRN SANDW/SLT	0%	0	
		0%	0	
		0%	0	
10		0%	0	

Roll Exposure Orientation Description
0 20 FT. 40
HORIZONTAL SCALE

Water Influx: No Ft.
Seepage at: _____ Ft.
Static at: _____ Ft.

NOTES: PULLED SAMPLE FROM EASTERN END OF TEST PIT, BUT NO STAINING
OF HEADSPACE READING ON PID- DISCARD
HEADSPACE ESI-TS01-0204-01 @ 0 ppm, SOME STAINING/OOOR
FULL TCEL/TAL

FIGURE 5-4
TEST PIT/TRENCH LOG (TYPICAL)
ELLENVILLE SCRAP IRON AND METAL SITE

TETRA TECH EC, INC.
TEST PIT/TRENCH LOG

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Project: ELLENVILLE NY
Test Pit No.: TP-02
Date: 11-05-07
Geologist: CJOBLON
Pit Orientation: S

Start Time: 1245 End Time: 1345
Final Length: 20'
Final Depth: 10'
Final Width: 5'

Weather: SUN, 40°
Surface Conditions: VEL, LITTLE SURFACE DEBRIS

Description of Material	H ₂ S / PID / FID	Sample Taken
0' - SMALL DEBRIS AND VEL @ SURFACE	0/0	
CHUNKS/UNCONTINUOUS LAYERS w/ SOIL BLACK STAINED, GROUND-UP COMPOSTED TRASH (WOOD, METAL, GLASS) IN SOIL MATRIX PETROLEUM OIL - NOT ALL STAINED	4/0	ESI-TS02-0204-01
1.2' - NATIVE BRN SAND AND SILT SOME COBBLES	0/0	
5' -	0/0	
10' -	0/0	
10' -	0/0	
10' -	0/0	

VERTICAL SCALE: Depth in Feet (0' to 10')

HORIZONTAL SCALE: 0' to 20' (10 FT. marked)

Roll: _____ Exposure: _____ Orientation: _____ Description: _____

Water Influx: _____ Seepage at: NO Ft.
Static at: _____ Ft.

NOTES:
H₂S ODOR FAIRLY STRONG - TRANSIENT READING - EXCAVATED MINIMUM SIZE - THEN BACKFILLED B/C OF HIS CONCERNS HEADSPACE
ESI-TS02-0204-01 @ 1.9 PPM (PID), NO H₂S FULL TEL/TAL DIG GRAY STAINING

FIGURE 5-4
TEST PIT/TRENCH LOG (TYPICAL)
ELLENVILLE SCRAP IRON AND METAL SITE

TETRA TECH EC, INC.
TEST PIT/TRENCH LOG

Project: ELLENVILLE NY Start Time: 1345 End Time: 1500 Weather: SUN, 40°
Test Pit No.: TP-03 Final Length: 20' Surface Conditions: VEG
Date: 11-05-07 Final Depth: 12' + SMALL DEBRIS
Geologist: CJOBLON Final Width: 5'
Pit Orientation: S TO N

N S

Description of Material	H ₂ S/ LA	PID/ FID	Sample Taken
SOIL + SMALL DEBRIS, HOLES, METAL VEG AT SURFACE	%	0	
"CHUNKS" "TRASH" CONGLOMERATE WOOD	%	0	ESI-TS03-0204-01 2/40
ASH, GLASS - PETROLEUM ODOOR	%	0	
BLACK/OIL GRAY STAINING SOIL + DEBRIS	%	0	
SMALL METAL, RUBBLE + PLASTIC	%	0	
SLIGHT H ₂ S	%	0	
ODOR + PETROLEUM ODOOR THROUGHOUT	%	0	
NATIVE BRN SAND - SILT COBBLES	%	0	
TO GREATER THAN 10'	%	0	

VERTICAL SCALE: Depth in Feet (0' to 10')

HORIZONTAL SCALE: 10 FT. (0' to 20')

Roll: _____ Exposure: _____ Orientation: _____ Description: _____

Water Influx: _____ Seepage at: N0 Ft. Static at: _____ Ft.

NOTES:

HEADSPACE ESI-TS03-0204-01 0.6 ppm, BLACK COMPOSTED TRASH FULL TEL/TAL STAINING ODOOR

FIGURE 5-4
TEST PIT/TRENCH LOG (TYPICAL)
ELLENVILLE SCRAP IRON AND METAL SITE

TETRA TECH EC, INC.
TEST PIT/TRENCH LOG

Project: Ellenville Start Time: 0850 End Time: 1000 Weather: SUN, 40°
Test Pit No.: 04 Final Length: 30 Surface Conditions: VELAND
Date: 11/16/07 Final Depth: 10' LARGE DEBRIS
Geologist: C. Soblon Final Width: 5'
Pit Orientation: NORTH TO SOUTH

N SG-13 S

Depth in Feet	Description of Material	H ₂ S / LCL FID	PID / FID	Sample Taken
0	VEH SURFACE DEBRIS	% 0		
	GROUND METAL	% 0.7		
	LARGE METAL TIRES	% 9		
	BLACK STAINING CONTINUOUS DISTINCT BAND	% 1.7	ESI-7504 0406-01	2930
5'	POSSIBLE GAS TANK (PLASTIC/ALUMINUM?)	% 0.7		
	BLUESTONE GRAVEL	% 0		
	NATIVE BRN SAND+GILT W/ COBBLES	% 0		

VERTICAL SCALE: 0, 5', 10'

HORIZONTAL SCALE: 0, 15 FT., 30'

Roll: _____ Exposure: _____ Orientation: _____ Description: _____

Water Influx: _____ Seepage at: 6, 7' Ft. BLU CENTER EXCAVATION Static at: _____ Ft.

NOTES:
WATER INFILTRATION JUST BELOW CONTINUOUS STAINED LAYER
HEADSPACE ESI-7504-0406-01 46.0 ppm (PID) STAINED, WET GASOLINE PETROLEUM ODOUR
FULL TOL/FAL

FIGURE 5-4
TEST PIT/TRENCH LOG (TYPICAL)
ELLENVILLE SCRAP IRON AND METAL SITE

TETRA TECH EC, INC.
TEST PIT/TRENCH LOG

Project: Ellenville
Test Pit No.: TP05
Date: 11-7-07
Geologist: C. Joblon
Pit Orientation: S

Start Time: 1100 End Time: 1150
Final Length: _____
Final Depth: _____
Final Width: _____

Weather: _____
Surface Conditions: _____

VERTICAL SCALE
Depth in Feet

0
Rust Stained
Isolated Blk. Staining
Fine Debris wood/metal sand/soil Tire
to 8' bgs
Boulders white Granular

Large Boulders Metal
Tires 4-6
propagator tank

0
35

HORIZONTAL SCALE
Orientation

Roll Exposure Description

0
0
0
0
0
0

1150: ESI-TP05-0204-01

Water Influx: _____
Seepage at: NA Ft.
Static at: _____ Ft.

NOTES:
No water infiltration and No Staining

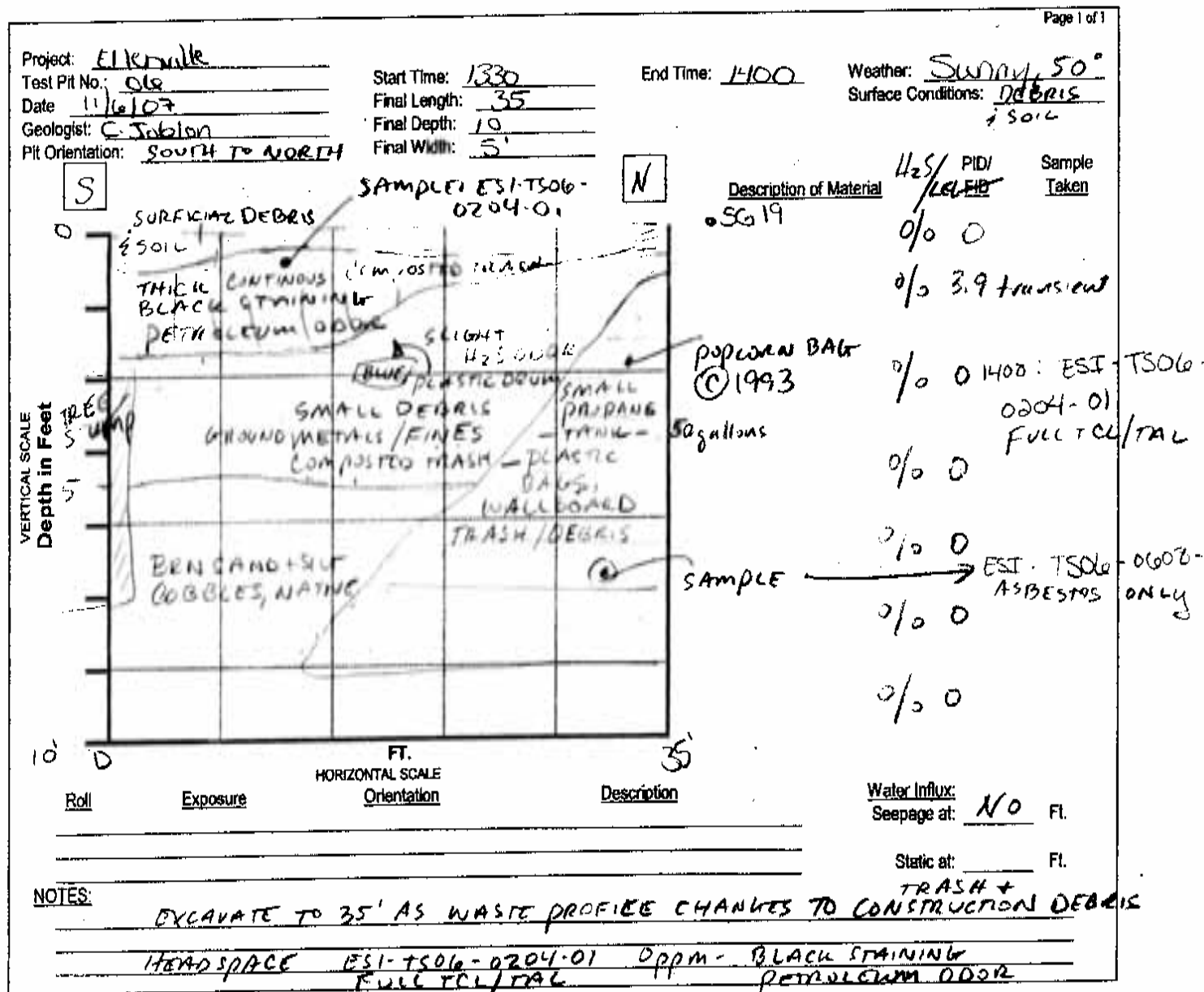


FIGURE 5-4
TEST PIT/TRENCH LOG (TYPICAL)
ELLENVILLE SCRAP IRON AND METAL SITE

TETRA TECH EC, INC.
TEST PIT/TRENCH LOG

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Project: Ellenville
Test Pit No.: TP02
Date: 11/3/07
Geologist: C. Joblon
Pit Orientation: EAST TO WEST

Start Time: 0730
Final Length: 20'
Final Depth: 10'
Final Width: 5'

End Time: 0800

Weather: Overcast
Surface Conditions: _____

E

W

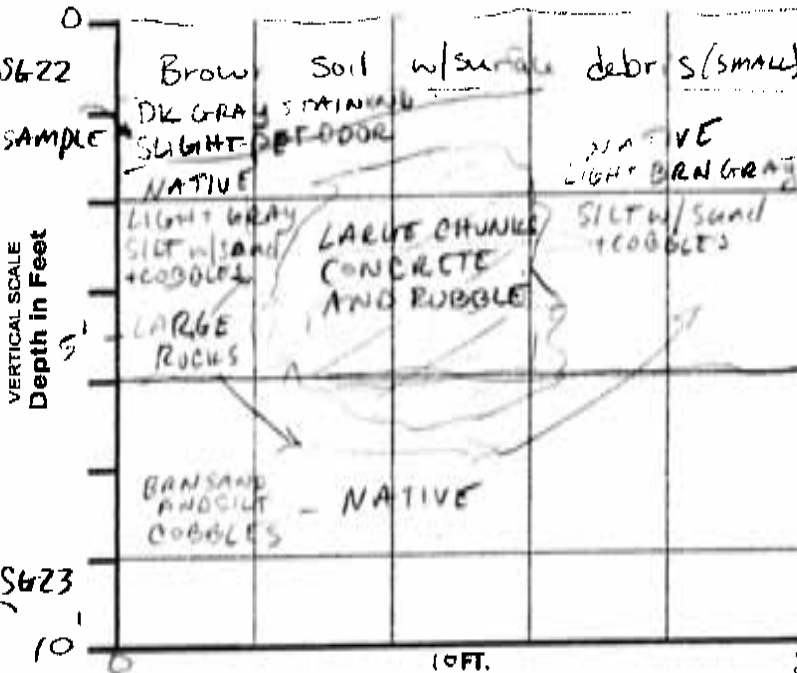
Description of Material

425/
1/2" FID

PID/
FID

Sample
Taken

0800: ESI-TS07-0102-01



Roll

Exposure

Orientation

Description

Water Influx: No Ft.
Seepage at: _____

Static at: _____ Ft.

NOTES:

EXCAVATED TO 5' @ E END / 10' @ S W END

HEADSPACE ESI-TS07-0102-01 0 ppm, SLIGHT STAINING
FULL TCU/PAU PETROLEUM ODOOR

FIGURE 5-4
TEST PIT/TRENCH LOG (TYPICAL)
ELLENVILLE SCRAP IRON AND METAL SITE

TETRA TECH EC, INC.
TEST PIT/TRENCH LOG

Project: Ellenville Start Time: 0840 End Time: 0910 Weather: Overcast
Test Pit No: TPOC Final Length: 25' Surface Conditions: veg/mulch road
Date: 11/17/07 Final Depth: 19' 00"
Geologist: S. HILL Final Width: 5'
Pit Orientation: NORTH TO SOUTH

Vertical Scale: Depth in Feet
0 5 10
Horizontal Scale: FT. 0 25'

Roll: SG-09 Exposure: Soil + vegetation Orientation: N Description: MULCH ROAD

Description of Material	# of ASD	PID/	Sample Taken
SOIL, veg. SURFACE	0/0	1.5	
RED BROWN SOIL, LITTER FINE DEBRIS/some LARVAE	0/0	0	
PETROLEUM	0/0	0	
DARK GRAY SAND	0/0	0	
DEBRIS LARVAE TRUCK PARTS	0/0	0	
SAMPLE	0/0	0	0915 ESI-1068-01
NATIVE GRAY BRN SAND/SILT	0/0	0	
NATIVE BRN ORANGE SAND/SILT	0/0	0	
	0/0	0	
	0/0	0	

Water Influx: 5' Ft.
Seepage at: 5' Ft.
Static at: NA Ft.

NOTES:
Water infiltration @ ~ 5' horizontal and 4' bas/2 MULCH ROAD
Minor PID reads throughout but not sustained
Sample pulled from west wall VHS of ESI-TS08-0406-01 = 0 ppm
ESI-TS08-0406-01 analysis - TCL + TAL STAINED, 0022
+ Duplicate ESI-TPOB-0406-01

- NOTE STAINING TO DEPTH OF APPROX 5' @ SOUTH END
- LENGTH OF 25' TO EXCAVATE FROM SG-09 TO START OF MOUND/DEBRIS TO SOUTH

Title: Quality Assurance Project Plan
Revision No. Revision 0
Revision Date March 2007
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FIGURE 5-4
TEST PIT/TRENCH LOG (TYPICAL)
ELLENVILLE SCRAP IRON AND METAL SITE

TETRA TECH EC, INC.
TEST PIT/TRENCH LOG

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FIGURE 5-4
TEST PIT/TRENCH LOG (TYPICAL)
ELLENNVILLE SCRAP IRON AND METAL SITE

TETRA TECH EC, INC.
TEST PIT/TRENCH LOG

Project: Ellenville
Test Pit No.: TP10
Date: 11/7/07
Geologist: S. Hall
Pit Orientation: _____

Start Time: 1120 End Time: 1150
Final Length: 50'
Final Depth: 10', 5', 3'
Final Width: 5'

Weather: overcast
Surface Conditions: veg/mulch Road

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VERTICAL SCALE Depth in Feet	Description of Material	H ₂ S/ %	PID/ FID	Sample Taken
0	Vegetation at surface			
0	med. Brown soil material	0%	7	
0	Black staining	0%	0	
0	lt. Brown silty sand	0%	0	11/5: ESI-TS10-0203-01
5	NATIVE orange brown	0%	1	
5	silty sand	0%	0	
10		0%	0	
10		0%	0	
10		0%	0	
10		0%	0	
10		0%	0	
10		0%	0	

Roll: _____ Exposure: _____ Orientation: _____ Description: _____

Water Influx: _____
Seepage at: NA Ft.
Static at: NA Ft.

NOTES:
No water infiltration
Sample collected from Eastern wall where distinct staining was observed
ESI-TS10-0203-01 TAL/TEL head space = 46.0 ppm
odor @ this location - petroleum and possibly slight solvent odor

APPENDIX C
DIRECT PUSH BORING LOGS



Project Name: Ellenville Scrap Iron	Site Id: DP-001
Township/Range:	Coordinate X: 518177.96
Logged By: S. Hill	Coordinate Y: 1052804.65
Drilling Method: Geoprobe	Total Depth: 10.00'
	Date Started: 11/12/07

Remarks:

Soil sample was taken from 2-4' because of rock in the soil core. Driller advanced to 15' bgs to collect groundwater sample. 1500 (11/12/07) and 0730 (11/13/07) collect water sample ESI-HW01-00 6-01. Soil Sample Headspace = 0.0 ppm.

Date Completed: 11/12/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1	70	OL		0-0.5': Dark brown Organic soil, dry.	11/12/2007	0 ppm		
2		SM		0.5-1': Medium brown Silty SAND, organics, moist.		0 ppm		
3				1-2': Dark brown Silty SAND with cobbles, dry.		0 ppm		2-4.5': 14:15 collect soil sample
4		SP		2-4.5': Dark brown poorly graded SAND, dry.		0 ppm		ESI-DP01-02-04-01 (MS/MSD).
5	60			4.5-5': Gray GRAVEL, dry.		0 ppm		
6		GW		5-6.5': Gray GRAVEL, dry.		0 ppm		
7				6.5-8': Brown poorly graded SAND with gravel, wet.		0 ppm		Approximate groundwater level @ 6.5' bgs.
8		SP						
9		SM		8-10': Brown Silty SAND.				
10				End of Boring				
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron

Site Id: DP-002

Township/Range:

Coordinate X: 518268.28

Logged By: S. Hill

Coordinate Y: 1052732.17

Drilling Method: Geoprobe

Total Depth: 10.00'

Date Started: 11/13/07

Date Completed: 11/13/07


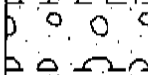
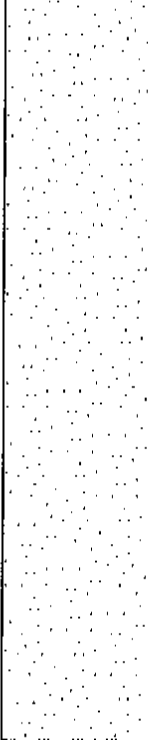
Remarks:

Advanced 5' to place temporary well point. 10:00 collect water sample ESI-HW02-0010-01. Soil Sample Headspace = 0.0 ppm.

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1	40	SM		0-1': Dark brown Organic Silty SAND, some root material, glass pieces, moist.	11/13/2007	0 ppm		1-5': 09:30 collect sample ESI-DP02-0305-01.
2				1-5': Light brown SAND with gravel, dry.		0 ppm		
3		SP				0 ppm		
4						0 ppm		
5	70			5-10': Gray brown Silty SAND, saturated.		0 ppm		Approximate groundwater level @ 5' bgs.
6						0 ppm		
7						0 ppm		
8		SM				0 ppm		
9						0 ppm		
10						0 ppm		
11						0 ppm		
12						0 ppm		
13						0 ppm		
14				End of Boring		0 ppm		



Project Name: Ellenville Scrap Iron	Site Id: DP-003
Township/Range:	Coordinate X: 518101.53
Logged By: S. Hill	Coordinate Y: 1052837.78
Drilling Method: Geoprobe	Total Depth: 10.00'
	Date Started: 11/13/07
	Date Completed: 11/13/07
Remarks: Advanced to 13' bgs and set temporary well point. 14:30 collect aqueous sample ESI-HW03-0013-01. Soil Sample Headspace = 0.0 ppm.	

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
0	80	SM		0-1.5': Dark brown Silty SAND with organics, moist.	11/13/2007	0 ppm		
1						0 ppm		
2		GW		1.5-2.2': White / light gray Gravel, dry.		0 ppm		
3				2.2-2.7': Reddish brown SAND with Gravel, dry.		0 ppm		
4				2.7-5: Brown / light brown poorly graded SAND, with gravel, dry.				
5	70			5-7': Brown / light brown well-sorted SAND with gravel, dry.		0 ppm		5-10': 14:00 collect soil sample ESI-DP03-0608-01.
6		SP		7-8: Brown Silty SAND, moist.		0 ppm		
7				8-10: Brown Silty SAND, saturated.		0 ppm		Approximate groundwater level @ 8' bgs.
8								
9								
10				End of Boring		0 ppm		
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: DP-004
Township/Range:	Coordinate X: 518056.53
Logged By: S. Hill	Coordinate Y: 1052394.83
Drilling Method: Geoprobe	Total Depth: 6.00'
	Date Started: 11/14/07

Remarks:

No temporary well point installed or aqueous sample collected from this location because refusal was hit before groundwater was encountered. Soil Sample Headspace = 0.0 ppm.

Date Completed: 11/14/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1	40	OH		0-1': Dark brown Silty SAND, organics.	11/14/2007	0 ppm		
2				1-5': Medium brown Silty SAND with gravel, dry.		0 ppm		1-5': 8:50 collect sample ESI-DP04-0204-01.
3								
4		SM						
5	100			5-6': Medium brown Silty SAND with gravel, dry.		0 ppm		5-6': 6' bgs hit refusal.
6				End of Boring		0 ppm		
7								
8								
9								
10								
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: DP-005
Township/Range:	Coordinate X: 517283.00
Logged By: S. Hill	Coordinate Y: 1053249.14
Drilling Method: Geoprobe	Total Depth: 10.00'
	Date Started: 11/14/07

Remarks:

Advanced to 13' bgs and set temporary well point.
15:30 collect aqueous sample ESI-HW05-0012-01
(MS/MSD). Soil Sample Headspace = 0.0 ppm.

Date Completed: 11/14/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
0	60	OL		0-0.5': Dark brown Organic soil, silty SAND, moist.	11/14/2007	0 ppm 0 ppm 0 ppm 0 ppm		
1		SP		0.5-2': Medium brown poorly graded SAND with gravel, moist.				
2				2-5': Tan GRAVEL with sand, dry.				
3								
4		GP						
5	60			5-6': Tan GRAVEL with sand, dry.		0 ppm 0 ppm 0 ppm 0 ppm		5-6': 10:50 collect soil sample ESI-DP05-0507-01.
6								
7		SP		6-8': Medium brown poorly graded SAND, with gravel, moist to wet.				Approximate groundwater level @ 7' bgs.
8				8-10': Brown Silty SAND, with gravel, saturated.				
9		SM						
10				End of Boring				
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: DP-006
Township/Range:	Coordinate X: 517317.02
Logged By: S. Hill	Coordinate Y: 1053157.81
Drilling Method: Geoprobe	Total Depth: 7.00'
	Date Started: 11/14/07

Remarks:

No temporary well point installed or aqueous sample collected from this location because refusal was hit before groundwater was encountered. Soil Sample Headspace = 0.0 ppm

Date Completed: 11/14/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1	60	SM		0-0.5': Dark brown Silty SAND, some organics.	11/14/2007	0 ppm 0 ppm 0 ppm 0 ppm		
2		SP		0.5-3.5': Medium brown (some reds) poorly graded SAND with Gravel.				
3								
4		GP		3.5-4': Tan GRAVEL with some Sand.				
5	100	SP		4-5': Medium brown (some reds) poorly graded SAND with Gravel.				
6		GP		5-5.5': Medium brown (some reds) poorly graded SAND with Gravel.		0 ppm 0 ppm 0 ppm 0 ppm		
7		SP		5.5-6': Tan GRAVEL with some Sand.				5.5-6': 12:05 collect soil sample ESI-DP06-0507-01,
8				6-7': Medium brown (some reds) poorly graded SAND with Gravel.				6-7': 2 attempts hit refusal at 7' bgs.
9				End of Boring				
10								
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: DP-007
Township/Range:	Coordinate X: 517238.21
Logged By: S. Hill	Coordinate Y: 1053169.92
Drilling Method: Geoprobe	Total Depth: 7.00'
	Date Started: 11/14/07

Remarks:

No temporary well point installed or aqueous sample collected from this location because refusal was hit before groundwater was encountered. Soil Sample Headspace = 0.0 ppm.

Date Completed: 11/14/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
0	60	SM		0-1': Dark brown Silty SAND with organics.	11/14/2007	0 ppm		
1						0 ppm		
2		SP		1-2': Medium to dark brown poorly graded SAND with little Gravel, trace silt.		0 ppm		
3		GP		2-3.5': Tan GRAVEL with some Sand.		0 ppm		
4				3.5-5': Yellow brown Silty poorly graded SAND with Gravel.				
5	100	SM		5-7': Medium brown (some reds) Silty poorly graded SAND with Gravel.		0 ppm		5-7': Refusal at
6						0 ppm		7' bgs; 14:10 collect
7				End of Boring		0 ppm		soil sample ESI-DP07-0507-01.
8								
9								
10								
11								
12								
13								
14								


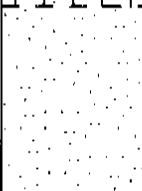
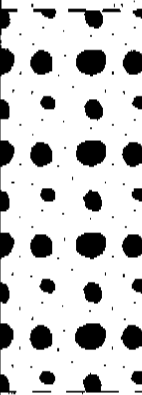


Project Name: Ellenville Scrap Iron	Site Id: DP-008
Township/Range:	Coordinate X: 517316.33
Logged By: S. Hill	Coordinate Y: 1053066.28
Drilling Method: Geoprobe	Total Depth: 9.50'
	Date Started: 11/14/07

Remarks:

No temporary well point installed or aqueous sample collected from this location because refusal was hit before groundwater was encountered. Soil Sample Headspace = 0.0 ppm.

Date Completed: 11/14/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes	
0	50	SM		0-1.5': Medium brown Silty SAND with some Organics, little gravel, moist.	11/14/2007	0 ppm		5.5-9.5': Refusal at 9.5' bgs; 14:20 collect soil sample ESI-DP08-0709-01.	
1				1.5-4': Medium brown poorly graded SAND with little Gravel.		0 ppm			
2						0 ppm			
3		SP				0 ppm			
4				4-5': Poorly graded SAND with gravel.					
5	44			5-5.5': Medium brown poorly graded SAND with Gravel.		0 ppm			
6		GP		5.5-6': Reddish GRAVEL with some Sand.					
7				6-7': Tan GRAVEL with some Sand.		0 ppm			
8				7-9.5': Medium brown poorly graded SAND with some Gravel.					
9						0 ppm			
10				End of Boring		0 ppm			
11									
12									
13									
14									



Project Name: Ellenville Scrap Iron

Site Id: DP-009

Township/Range:

Coordinate X: 517462.88

Logged By: S. Hill

Coordinate Y: 1053094.16

Drilling Method: Geoprobe


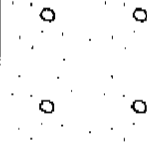
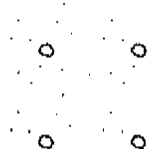

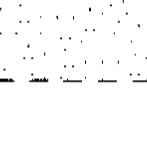


Total Depth: 7.00'

Date Started: 11/14/07

Date Completed: 11/14/07

Remarks:

No temporary well point installed or aqueous sample collected from this location because refusal was hit before groundwater was encountered. Soil Sample Headspace = 0.0 ppm.

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1	50	SM		0-0.5': Dark brown Silty SAND with Organics.	11/14/2007	0 ppm 0 ppm 0 ppm 0 ppm		
2				0.5-5': Well graded SAND with Gravel.				
3		SW						
4								
5	100			5-7': Medium brown poorly graded SAND with little Gravel.		0 ppm		
6		SP				0 ppm		
7				End of Boring				5-7': Refusal at 7' bgs; 15:40 Collect soil sample ESI-DP09-0507-01.
8								
9								
10								
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: DP-010
Township/Range:	Coordinate X: 517372.24
Logged By: S. Hill	Coordinate Y: 1052932.18
Drilling Method: Geoprobe	Total Depth: 7.00'
	Date Started: 11/14/07

Remarks:

No temporary well point installed or aqueous sample collected from this location because refusal was hit before groundwater was encountered. Soil Sample Headspace = 0.0 ppm.

Date Completed: 11/14/07


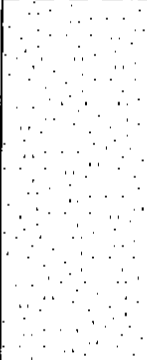

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1	75	SM		0-0.5': Dark brown Silty SAND with Organics.	11/14/2007	0 ppm		
2				0.5-5': Medium brown poorly graded SAND with some Gravel.		0 ppm		
3						0 ppm		
4		SP				0 ppm		
5	100			5-7': Medium brown poorly graded SAND with some Gravel.		0 ppm		5-7': Refusal at
6						0 ppm		7' bgs; 1720 Collect
7				End of Boring				soil sample ESI-DP10-
8								0507-01.
9								
10								
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: DP-011
Township/Range:	Coordinate X: 517496.54
Logged By: S. Hill	Coordinate Y: 1052990.93
Drilling Method: Geoprobe	Total Depth: 10.00'
	Date Started: 11/14/07

Remarks:
Advanced to 15' bgs and set a temporary well point.
At 17:40 collected aqueous sample ESI-HW11-07
09-01. Soil Sample Headspace = 0.0 ppm.

Date Completed: 11/14/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1	100	SM		0-1': Dark brown Silty SAND, moist.	11/14/2007	0 ppm		
2				0.5-5': Medium brown poorly graded SAND with some Gravel, moist.		0 ppm		
3						0 ppm		
4						0 ppm		
5	40	SP		5-10': Medium brown poorly graded SAND with some Gravel, moist, wet at 9.5' bgs.		0 ppm		5-10': 17:40 Collect soil sample ESI-DP11-0709-01.
6								
7						0 ppm		
8						0 ppm		
9								
10				End of Boring		0 ppm		Approximate groundwater level @ 9.5' bgs.
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron		Site Id: DP-012	
Township/Range:		Coordinate X: 517633.02	
Logged By: S. Hill		Coordinate Y: 1052996.42	
Drilling Method: Geoprobe		Total Depth: 7.00'	
		Date Started: 11/15/07	
		Date Completed: 11/15/07	
Remarks: No temporary well point set or aqueous sample collected from this location because refusal was hit before groundwater was encountered.			

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
0	50	SM		0-0.8': Dark brown Silty SAND with Organics.	11/15/2007	0 ppm		
1		GP		0.8-1.2': Tan GRAVEL with some Sand.		0 ppm		
2				1.2-1.4': Reddish GRAVEL with some Sand.		0 ppm		
3				1.4-5': Medium brown poorly graded SAND with some Gravel.		0 ppm		
4		SP		5-7': Medium brown poorly graded SAND with some Gravel.		0 ppm		5-7': Refusal at 7' bgs; 11:45 collect soil sample ESI-DP12-0507-01.
5	100							
6						0 ppm		
7				End of Boring				
8								
9								
10								
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron

Site Id: DP-013

Township/Range:

Coordinate X: 517592.35

Logged By: S. Hill

Coordinate Y: 1052919.16

Drilling Method: Geoprobe

Total Depth: 15.00'

Date Started: 11/15/07

Date Completed: 11/15/07

Remarks:

Advanced boring to 19' bgs. 11/19/07 at 12:45
collect aqueous sample ESI-HW13-0019-01.

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
0	50	SM		0-0.5': Dark brown Organic silty SAND, moist.	11/15/2007	0 ppm 0 ppm 0 ppm 0 ppm		
1				0.5-3': Gray brown GRAVEL with some Sand, moist.				
2		GP		3-5': Medium brown poorly graded SAND, with some Gravel, little silt, moist.				
3				5-10': Medium brown poorly graded SAND, with some Gravel, little silt, moist.		0 ppm		
4				10-11': Medium brown poorly graded SAND, with some Gravel, little silt, moist.				
5	90			11-13': Red brown Silty SAND with Gravel, saturated.		0 ppm 0 ppm 0 ppm 0 ppm		10-11': 12:10 collect soil sample ESI-DP13-0911-01.
6				13-13.5: Dark brown poorly graded SAND with little Silt, very hard, wet.				Approximate groundwater level @ 11' bgs.
7		SP		13.5-14': Green brown poorly graded SAND,				
8								
9								
10								
11								
12		SM						
13								
14		SP						
15								
16								
17								
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Project Name: Ellenville Scrap Iron	Site Id: DP-013
Township/Range:	Coordinate X: 517592.35
Logged By: S. Hill	Coordinate Y: 1052919.16
Drilling Method: Geoprobe	Total Depth: 15.00'
	Date Started: 11/15/07

Remarks:
Advanced boring to 19' bgs. 11/19/07 at 12:45
collect aqueous sample ESI-HW13-0019-01.

Date Completed: 11/15/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15-		ML		hard, wet. 14-15': Medium brown Sandy SILT, saturated. End of Boring				
16-								
17-								
18-								
19-								
20-								
21-								
22-								
23-								
24-								
25-								
26-								
27-								
28-								



Project Name: Ellenville Scrap Iron	Site Id: DP-014
Township/Range:	Coordinate X: 0.00
Logged By: S. Hill	Coordinate Y: 0.00
Drilling Method: Geoprobe	Total Depth: 10.00'
	Date Started: 11/14/07

Remarks:

Advanced borehole to 15' bgs and set temporary well point at 15' bgs. On 11/19/07 at 11:55 collected aqueous sample ESI-HW14-0015-01.

Date Completed: 11/14/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1	70	SM		0-1': Dark brown Silty SAND with organics, and little Gravel.	11/14/2007	0 ppm		
2				1-5': Medium brown Silty SAND with little Gravel, moist.		0 ppm		
3						0 ppm		
4						0 ppm		
5	60			5-8.5': Medium brown Silty SAND with little Gravel, moist.		0 ppm		
6		ML				0 ppm		5-8.5': 1550 Collect soil sample ESI-DP14-0608-01. Approximate groundwater level @ 8.5' bgs.
7						0 ppm		
8				8.5-10': Light brown Sandy SILT, saturated.		0 ppm		
9								
10				End of Boring				
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: DP-015
Township/Range:	Coordinate X: 517898.43
Logged By: S. Hill	Coordinate Y: 1052700.25
Drilling Method: Geoprobe	Total Depth: 10.00'
	Date Started: 11/16/07

Remarks:

Advanced borehole to 15' bgs and set temporary well point at 15' bgs. On 11/19/07 at 13:15 collected aqueous sample ESI-HW15-0015-01.

Date Completed: 11/16/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
0	60			0-2.5': Medium brown poorly graded SAND with some Gravel, moist.	11/16/2007	0 ppm		
1		SP				0 ppm		
2						0 ppm		
3		GP		2.5-3': Gray GRAVEL, dry.		0 ppm		
4		SM/SP		3-5': Medium brown poorly graded SAND with little Silt and some gravel, moist.				
5	70			5-8.5': Medium brown poorly graded SAND with little Silt and some Gravel, moist.		0 ppm		5-8.5': 0905: Collect soil sample ESI-DP15-0709-01.
6						0 ppm		
7		SP				0 ppm		
8				8.5-9': Gray GRAVEL, dry.		0 ppm		Approximate groundwater level @ 9' bgs.
9		GP		9-10': Gray GRAVEL with some Sand and little Silt, saturated.				
10				End of Boring				
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: DP-016
Township/Range:	Coordinate X: 517984.64
Logged By: S. Hill	Coordinate Y: 1052845.90
Drilling Method: Geoprobe	Total Depth: 10.00'
	Date Started: 11/15/07

Remarks:

Advanced borehole to 15' bgs and set temporary well point at 15' bgs. On 11/19/07 at 12:30 collected aqueous sample ESI-HW16-0015-01.

Date Completed: 11/15/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
0	40	OL		0-1.5': Brown Organic Soil, moist.	11/15/2007	0 ppm		
1						0 ppm		
2		GP		1.5-2': Gray GRAVEL, dry.		0 ppm		
3		SP		2-3': Light brown poorly graded SAND with little Gravel.		0 ppm		
4		GP		3-4': Gray GRAVEL with some poorly graded Sand.				
5	80			4-5': Medium brown poorly graded SAND with little Gravel, dry.				
6		SP		5-7': Medium brown poorly graded SAND with little Gravel, dry.		0 ppm		5-7.5': 1615: collect soil sample ESI-DP16-0507-01.
7				7-7.5': Medium brown poorly graded SAND with little Silt.		0 ppm		Approximate groundwater level @ 7.5' bgs.
8				7.5-10': Brown SILT with little Sand, saturated.		0 ppm		
9		ML						
10				End of Boring				
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: DP-017
Township/Range:	Coordinate X: 0.00
Logged By: S. Hill	Coordinate Y: 0.00
Drilling Method: Geoprobe	Total Depth: 15.00'
	Date Started: 11/16/07

Remarks:

Advanced borehole to 20' bgs and set temporary well point at 20' bgs. On 11/16/07 at 14:00 collected aqueous sample ESI-HW17-0020-01.

Date Completed: 11/16/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
70		FI		0-0.5': Dark brown Mulch.	11/16/2007	0 ppm		
1		SM/SP		0.5-1': Dark brown Organic SAND with little Silt and Gravel, moist.		0 ppm		
2		GP		1-2.5': Light brown / gray GRAVEL with some Sand, dry.		0 ppm		
3		SM		2.5-3.5': Medium brown Silty poorly graded SAND, moist.				
4				3.5-5': Light brown / gray GRAVEL with some poorly graded Sand, dry.				
5	90			5-10': Light brown / gray GRAVEL with some poorly graded Sand, dry.		0 ppm		5-10': 1350: collect soil sample ESI-DP17-0911-01.
6								
7		GP				0 ppm		
8						0 ppm		
9						0 ppm		
10	90			10-11': Light brown / gray GRAVEL with some poorly graded Sand, dry.		0 ppm		
11				11-15': Brown poorly graded SAND with little Silt and gravel.		0 ppm		Approximate groundwater level @ 11' bgs.
12								
13		SP						
14								



Project Name: Ellenville Scrap Iron	Site Id: DP-017
Township/Range:	Coordinate X: 0.00
Logged By: S. Hill	Coordinate Y: 0.00
Drilling Method: Geoprobe	Total Depth: 15.00'
	Date Started: 11/16/07

Remarks: Advanced borehole to 20' bgs and set temporary well point at 20' bgs. On 11/16/07 at 14:00 collected aqueous sample ESI-HW17-0020-01.	Date Completed: 11/16/07
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Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15				End of Boring				
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								



Project Name: Ellenville Scrap Iron	Site Id: DP-018
Township/Range:	Coordinate X: 517799.84
Logged By: S. Amrozowicz	Coordinate Y: 1052925.30
Drilling Method: Geoprobe	Total Depth: 15.00'
	Date Started: 12/03/07
	Date Completed: 12/03/07

Remarks:
Temporary well point set at 15' bgs. On 12/05/07 at 0945 collect aqueous sample ESI-HW18-0015-01.

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1	68	SM		0-4': Brown to tan brown Silty SAND, no structure, glass, trace cs, moist.	12/3/2007	0 ppm		0-4': No staining, no odor.
2						0 ppm		
3						0 ppm		
4						0 ppm		
5	68	GP		4-5': Gray brown poorly graded GRAVEL, moist to dry.		0 ppm		4-5': No staining, no odor.
6						0 ppm		
7						0 ppm		
8						0 ppm		
9		SP		5-10': Light brown poorly graded SAND with Gravel, max. grain size = 2" angular, moist; gravel lense from 8-9.1' bgs.		0 ppm		
10	78					0 ppm		
11						0 ppm		
12						0 ppm		
13						0 ppm		
14						0 ppm		
				10-11': Light brown / brown poorly graded SAND with Gravel, max. grain size = 2" angular, moist.		0 ppm		10-11': 13:20 Collect Soil Sample ESI-DP18-
				11-15': Brown fine-medium SAND, homogenous, occasional silt and clay lense, wet.		0 ppm		1114-01 for VOC, SVOC, metal, pesticide.
								Approximate groundwater level @ 11.7' bgs.



Project Name: Ellenville Scrap Iron	Site Id: DP--018
Township/Range:	Coordinate X: 517799.84
Logged By: S. Amrozowicz	Coordinate Y: 1052925.30
Drilling Method: Geoprobe	Total Depth: 15.00'
	Date Started: 12/03/07

Remarks:
Temporary well point set at 15' bgs. On 12/05/07 at 0945 collect aqueous sample ESI-HW18-0015-01.

Date Completed: 12/03/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15				End of Boring				
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								



Project Name: Ellenville Scrap Iron

Site Id: DP-019

Township/Range:

Coordinate X: 517962.33

Logged By: S. Hill

Coordinate Y: 1052929.95

Drilling Method: Geoprobe

Total Depth: 8.00'

Date Started: 11/16/07

Date Completed: 11/16/07

Remarks:

No temporary well point set or aqueous sample collected from this location because refusal was hit before groundwater was encountered.

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
0	100	SM		0-2.5': Dark brown Silty SAND, little organics.	11/16/2007	0 ppm		
1						0 ppm		
2						0 ppm		
3				2.5-3.5': Medium brown Silty SAND with some Gravel, moist.		0 ppm		
4		GP		3.5-4.5': Gray GRAVEL, dry.				
5	100			4.5-5': Medium brown Silty SAND with some Gravel, dry.		0 ppm		
6		SM		5-7': Medium brown Silty SAND with some Gravel, dry.		0 ppm		
7				7-8': Silty poorly graded SAND, little Gravel.		0 ppm		
8				End of Boring		0 ppm		
9								
10								
11								
12								
13								
14								

5-8': 13:15 Collect soil sample ESI-DP19-0608-01; Refusal at 8' bgs. Made 2 attempts.



Project Name: Ellenville Scrap Iron	Site Id: DP-- 020
Township/Range:	Coordinate X: 0.00
Logged By: S. Amrozowicz	Coordinate Y: 0.00
Drilling Method: Geoprobe	Total Depth: 10.00'
	Date Started: 12/03/07
	Date Completed: 12/03/07

Remarks:

No temporary well point set or aqueous sample collected from this location because refusal was hit before groundwater was encountered.

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
0	40	ML		0-0.3': Dark Brown organic SILT. 0.3-5': Brown poorly graded (medium-fine) SAND with coarse Gravel (60% sand, 40% gravel), moist.	12/3/2007 12/3/2007	0 ppm 0 ppm 0 ppm 0 ppm		
1								
2								
3								
4								
5	45	SP		5-8': Tan Brown poorly graded (medium-fine) SAND with some coarse Gravel, moist. 8-10': Gray poorly graded (medium-fine) SAND with some coarse Gravel, moist.	12/3/2007	0 ppm 0 ppm 0 ppm		5-10': 14:00 Soil Sample ESI-DP20-0710-01 collected. Refusal at 10' bgs. 2 attempts. No temporary well installed.
6								
7								
8								
9								
10				End of Boring		0 ppm		
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: DP-021
Township/Range:	Coordinate X: 518332.14
Logged By: S. Amrozowicz	Coordinate Y: 1052871.98
Drilling Method: Geoprobe	Total Depth: 3.00'
	Date Started: 12/03/07

Remarks:

No temporary well point set or aqueous sample collected from this location because refusal was hit before groundwater was encountered.

Date Completed: 12/03/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
0	50			0-2.5': Brown Silty SAND with some Gravel, wet at 1.5' bgs.	12/3/2007	0 ppm		0-2.5': 14:45 Soil Sample ESI-DP21-0103-01 collected, MS/MSD.
1		SP				0 ppm		
2						0 ppm		
3		ML		2.5-3': Gray SILT with Gravel, some black organic staining, dry.		0 ppm		2.5-3': Three refusals 3', 3.4', 3.2'.
4				End of Boring				
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								

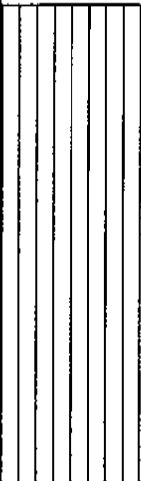



Project Name: Ellenville Scrap Iron	Site Id: DP-022
Township/Range:	Coordinate X: 518136.29
Logged By: S. Amrozowicz	Coordinate Y: 1053146.79
Drilling Method: Geoprobe	Total Depth: 15.00'
	Date Started: 12/03/07

Remarks:

No temporary well point set or aqueous sample collected from this location because refusal was met before groundwater was encountered.

Date Completed: 12/03/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1	43	ML		0-5': Dark brown Sandy SILT with some Gravel, moist, increasing gravel at 4.5-5' bgs.	12/3/2007	5.2 ppm		0-5': 15:45 Soil Sample collected ESI-DP22-0204-01. Sweet odor.
2						8.1 ppm		
3						22.3 ppm		
4						12.4 ppm		
5	50	SP		5-10': Brown poorly graded SAND with Gravel, some silt, max. grain size = 2", no structure, moist then moist to dry.		8.3 ppm		10-14.7': 16:00 Soil Sample ESI-DP22-1315-01 at 1600 and duplicate ESI-DR22-1315-01 collected at 16:05. Refusal at 15'.
6								
7						2.1 ppm		
8						0.8 ppm		
9				0.7 ppm				
10				1.1 ppm				
11				0.3 ppm				
12				0.2 ppm				
13				0.3 ppm				
14								



Project Name: Ellenville Scrap Iron	Site Id: DP-022
Township/Range:	Coordinate X: 518136.29
Logged By: S. Amrozowicz	Coordinate Y: 1053146.79
Drilling Method: Geoprobe	Total Depth: 15.00'
	Date Started: 12/03/07

Remarks:
No temporary well point set or aqueous sample collected from this location because refusal was met before groundwater was encountered.

Date Completed: 12/03/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15		GP		14.7-15': Gray GRAVEL (fractured cobbles). End of Boring		0.1 ppm		
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								



Project Name: Ellenville Scrap Iron	Site Id: DP--023
Township/Range:	Coordinate X: 517872.98
Logged By: S. Amrozowicz	Coordinate Y: 1053206.20
Drilling Method: Geoprobe	Total Depth: 7.50'
	Date Started: 12/04/07

Remarks:

No temporary well point set or aqueous sample collected from this location because refusal was hit before groundwater was encountered.

Date Completed: 12/04/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1	56	ML		0-0.9': Dark brown Gravelly SILT, some medium-fine Sand, maximum grain size = 0.5" rounded, wet.	12/4/2007	0 ppm 0 ppm 0 ppm 0 ppm		0-0.9': Sweet odor.
2				0.9-5': Tan brown / dark brown mottled poorly graded SAND (medium-fine), some Silt, gravel (beginning around 4.5' bgs), no structure.				
3								
4		SP						
5	80			5-6: Brown poorly graded SAND (medium-fine), homogenous, wet.		0 ppm		
6				6-7.5': Red- Brown / Brown poorly graded SAND (coarse-fine) with silt and gravel, mps: 2", cobble fragments, moist to dry, trace black ash-like material around 7' bgs.		0 ppm		6-7.5': Sample ESI-DP23-0608-01 collected.
7								7-7.5': Slight odor.
8				End of Boring		8.7 ppm		7.5': Refusal.
9								
10								
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: DP-024
Township/Range:	Coordinate X: 517780.81
Logged By: S. Amrozowicz	Coordinate Y: 1053147.06
Drilling Method: Geoprobe	Total Depth: 20.00'
	Date Started: 12/04/07
Remarks: Advanced borehole to 22' bgs and set temporary well point. On 12/5/07 at 1030 collect aqueous sample ESI-HW24-0020-01 for VOCs and Metals and Cyanide.	Date Completed: 12/04/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1	20	ML		0-5': Dark Brown gravelly SILT with medium-fine Sand, some organics, slag, brick, plastic, no structure, moist.	12/4/2007	0 ppm		
2						0 ppm		
3						0 ppm		
4						0 ppm		
5	0	SP		5-10': No recovery, wood in tip of spoon.	12/4/2007	0 ppm		
6								
7								
8								
9								
10	22					0 ppm		
11						0 ppm		
12						0 ppm		
13						0 ppm		
14						0 ppm		



Project Name: Ellenville Scrap Iron	Site Id: DP-024
Township/Range:	Coordinate X: 517780.81
Logged By: S. Amrozowicz	Coordinate Y: 1053147.06
Drilling Method: Geoprobe	Total Depth: 20.00'
	Date Started: 12/04/07

Remarks:
Advanced borehole to 22' bgs and set temporary well point. On 12/5/07 at 1030 collect aqueous sample ESI-HW24-0020-01 for VOCs and Metals and Cyanide.

Date Completed: 12/04/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15	83			15-17': Tan to Brown gravelly SAND, no structure, moist.	12/4/2007	0 ppm		15-17': Sample ESI-DP24-1517-01 and duplicate ESI-DR24-1517-01 collected.
16						0 ppm		
17				17-20': Poorly graded SAND, increasing fine gravel from 19-20' bgs, wet.		0 ppm		Approximate groundwater level @ 17' bgs.
18								
19								
20				End of Boring				
21								
22								
23								
24								
25								
26								
27								
28								



Project Name: Ellenville Scrap Iron	Site Id: DP-025
Township/Range:	Coordinate X: 517659.09
Logged By: S. Amrazowicz	Coordinate Y: 1053300.08
Drilling Method: Geoprobe	Total Depth: 6.00'
	Date Started: 12/04/07
	Date Completed: 12/04/07

Remarks:
No temporary well point set or aqueous sample collected from this location because refusal was hit before groundwater was encountered.

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
16				0-5': Black / brown mottled Sandy SILT with Gravel, scrap metal and debris, moist to wet, black ash material.	12/4/2007	0.2 ppm		0-5': Odor.
1								
2						4.7 ppm		
3		ML						
4								4-6': Sample
5	100			5-6': Sandy SILT, with black ash, some clay, moist.		12.1 ppm		ESI-DP25-0406-01 collected.
6				End of Boring				5-6': Odor.
7								
8								
9								
10								
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: DP-026
Township/Range:	Coordinate X: 517621.41
Logged By: S. Amrozowicz	Coordinate Y: 1053322.21
Drilling Method: Geoprobe	Total Depth: 1.50'
	Date Started: 12/04/07

Remarks:

No temporary well point set or aqueous sample collected from this location because refusal was hit before groundwater was encountered.

Date Completed: 12/04/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1	67	ML		0-1.5': Black / brown SILT with ash-like material, brick, metal, and other debris, moist to wet.	12/4/2007	0.2 ppm		0-1': Collect sample ESI-DP26-0001-01.
2				End of Boring				1.5': 3rd attempt refusal.
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: DP-027
Township/Range:	Coordinate X: 517607.54
Logged By: S. Amrozowicz	Coordinate Y: 1053357.81
Drilling Method: Geoprobe	Total Depth: 9.50'
	Date Started: 12/04/07

Remarks:

Set temporary well point at 9.5' bgs due to refusal.
On 12/5/07 at 1115 aqueous sample ESI-HW-27-0010-01 was collected.

Date Completed: 12/04/07

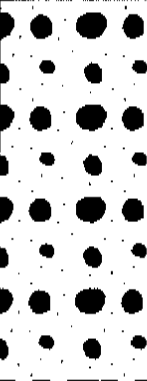
Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1	55	ML		0-1.2': Brown Gravelly SILT, with some organics, trace clay, little sand.	12/4/2007	0 ppm		
2				1.2-5': Gray to orange brown medium-fine SAND with pockets of gravel at 4-4.5', wet to 1' then moist.		0 ppm		
3		SP				0 ppm		
4						0 ppm		
5	70			5-5.5': Gray to orange brown medium-fine SAND, moist.		0 ppm		
6				5.5-9.5': Gray to brown Sandy GRAVEL, wet at 8' bgs.		0 ppm		
7		GP						7-9': ESI-DP27-0709-01.
8								Approximate groundwater level @ 8' bgs.
9								9.5': Third attempt refusal.
10				End of Boring				
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: DP-029
Township/Range:	Coordinate X: 517672.22
Logged By: S. Amrozowicz	Coordinate Y: 1053346.01
Drilling Method: Geoprobe	Total Depth: 4.00'
	Date Started: 12/04/07

Remarks:
No temporary well point set or aqueous sample collected from this location because refusal was hit before groundwater was encountered.

Date Completed: 12/04/07

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1	81	GP		0-4': Brown / gray Silty GRAVEL, to sandy GRAVEL with silt, glass, plastic, brick, wet zone at 3.4' bgs	12/4/2007	0 ppm		1.3': Slight sweet odor at bgs.
2						34.2 ppm		1-3': Sample
3						27 ppm		ESI-DP29-0103-01 collected.
4				End of Boring		0.2 ppm		4': Second attempt refusal.
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron

Site Id: DP 030

Township/Range:

Coordinate X: 517695.94

Logged By: S. Amrozowicz

Coordinate Y: 1053316.21

Drilling Method: Geoprobe

Total Depth: 9.00'

Date Started: 12/04/07

Date Completed: 12/04/07

Remarks:

No temporary well point set or aqueous sample collected from this location because refusal was hit before groundwater was encountered.

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1	33	ML		0-0.4': Brown gravelly SILT, wet.	12/4/2007	0 ppm		
2				0.4-3.8': Tan / brown medium-fine SAND, moist.		0.1 ppm		
3		SP				0.3 ppm		
4				3.8-5': Sandy GRAVEL, moist to dry, plastic.		0 ppm		
5	65			5-9': Brown / gray poorly graded GRAVEL with Sand and silt, sand lense at 8.2-8.6', moist to dry, moist sand lense.		0 ppm		
6		GP				0 ppm		
7								7-9': Sample ESI-
8						0 ppm		DP30-0709-01 collected.
9				End of Boring		0 ppm		9': Second attempt refusal.
10								
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: EPA-01
Township/Range:	Coordinate X: 517743.27
Logged By: C.Joblon	Coordinate Y: 1053229.87
Drilling Method: Hollow Stem Auger	Total Depth: 27.00'
	Date Started: 04/08/08

Remarks:

Date Completed: 04/08/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1				0-21.5': Fine-coarse SAND some Gravel and silt. Subrounded Gravel, till, moist to 10' wet at 10'.	4/8/2008	0 ppm	0	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11		SM/SW						
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: EPA-01
Township/Range:	Coordinate X: 517743.27
Logged By: C.Joblon	Coordinate Y: 1053229.87
Drilling Method: Hollow Stem Auger	Total Depth: 27.00'
	Date Started: 04/08/08

Remarks:	Date Completed: 04/08/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15								
16								
17								
18								
19								
20								
21								
22				21.5-27': Competent bedrock.		0 ppm	0	
23								
24								
25								
26								
27				End of Boring				
28								



Project Name: Ellenville Scrap Iron	Site Id: EPA-02
Township/Range:	Coordinate X: 518132.27
Logged By: C.Joblon	Coordinate Y: 1053143.06
Drilling Method: Hollow Stem Auger	Total Depth: 19.00'
	Date Started: 04/08/08

Remarks:
Air Rotary to 19' (seal up to 16') competent bedrock,
HSA and Air Rotary to 16' BGS. ~~Well construction over-~~

Date Completed: 04/08/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1				0-10': Brown fine-medium SAND with some Gravel and silt.	4/8/2008	0 ppm	0	
2								
3								
4								
5								
6								
7								
8		SM/SW						
9								
10				10-16': Gray weathered Shale, moist.	4/8/2008	0 ppm	0	10-16': Wet at 11-12'.
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: EPA-02
Township/Range:	Coordinate X: 518132.27
Logged By: C. Joblon	Coordinate Y: 1053143.06
Drilling Method: Hollow Stem Auger	Total Depth: 19.00'
	Date Started: 04/08/08

Remarks:
Air Rotary to 19' (seal up to 16') competent bedrock,
HSA and Air Rotary to 16' BGS. ~~Well construction over.~~

Date Completed: 04/08/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15								
16				16-19': Gray Sandstone.	4/8/2008	0 ppm	0	
17		BE						
18								
19				End of Boring				
20								
21								
22								
23								
24								
25								
26								
27								
28								



Project Name: Ellenville Scrap Iron	Site Id: EPA-03
Township/Range:	Coordinate X: 518294.59
Logged By: R.McPherson	Coordinate Y: 1052781.68
Drilling Method: Hollow Stem Auger	Total Depth: 22.00'
	Date Started: 04/15/08

Remarks:	Date Completed: 04/16/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1				0-4': Dark brown fine-medium SAND some silt.	4/15/2008	0 ppm	0	
2								
3								
4				4-12': Fine-medium SAND with some Silt and medium-coarse rounded gravel.		0 ppm	0	4-12': Air Rotary 4-12'.
5								
6								
7								
8								
9		SM/SM						
10								
11								
12				12-18': Brown medium-coarse SAND and some Silt.		0 ppm	0	12-18': HSA 12-18'.
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: EPA-03
Township/Range:	Coordinate X: 518294.59
Logged By: R.McPherson	Coordinate Y: 1052781.68
Drilling Method: Hollow Stem Auger	Total Depth: 22.00'
	Date Started: 04/15/08

Remarks:	Date Completed: 04/16/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15								
16								
17								
18				18-20': Weathered Bedrock.		0 ppm	0	18-20': Air Rotary 18-22'.
19								
20		BE		20-22': Bedrock.		0 ppm	0	
21								
22				End of Boring				
23								
24								
25								
26								
27								
28								



Project Name: Ellenville Scrap Iron	Site Id: EPA-04
Township/Range:	Coordinate X: 518106.71
Logged By: R.McPherson	Coordinate Y: 1052479.34
Drilling Method: Hollow Stem Auger	Total Depth: 27.00'
	Date Started: 04/15/08

Remarks:

Date Completed: 04/15/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1		FI		0-3': Dark brown fine-medium Sand with some Silt, trace fill (glass fragments).	4/15/2008	0 ppm	0	
2								
3								
4		GW		3-12': Fine-coarse rounded GRAVEL.		0 ppm	0	3-12': Air Rotary to 12'. Water at 12'.
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
				12-19.5': Brown medium-coarse SAND with some Silt.		0 ppm	0	



Project Name: Ellenville Scrap Iron	Site Id: EPA-04
Township/Range:	Coordinate X: 518106.71
Logged By: R.McPherson	Coordinate Y: 1052479.34
Drilling Method: Hollow Stem Auger	Total Depth: 27.00'
	Date Started: 04/15/08

Remarks:	Date Completed: 04/15/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15		SM/SL						
16								
17								
18								
19								
20		BE		19.5-20.5': Weathered Bedrock.		0 ppm	0	
21				20.5-27': Bedrock.		0 ppm	0	20.5-27': Air Rotary to 27'. Total depth at 27'.
22								
23								
24								
25								
26								
27				End of Boring				
28								



Project Name: Ellenville Scrap Iron	Site Id: EPA-05
Township/Range:	Coordinate X: 517770.56
Logged By: C.Joblon	Coordinate Y: 1052439.40
Drilling Method: Hollow Stem Auger	Total Depth: 27.00'
	Date Started: 04/10/08

Remarks:	Date Completed: 04/10/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1				0-17': COBBLES, subrounded Gravel and fine sands.	4/10/2008	0 ppm	0	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14		SM/SH						



Project Name: Ellenville Scrap Iron	Site Id: EPA-05
Township/Range:	Coordinate X: 517770.56
Logged By: C.Joblon	Coordinate Y: 1052439.40
Drilling Method: Hollow Stem Auger	Total Depth: 27.00'
	Date Started: 04/10/08

Remarks:	Date Completed: 04/10/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15								
16								
17				17-27': SAND and cobbles.		0 ppm	0	
18								
19								
20								
21								
22								
23								
24								
25								
26								
27		BE		27-35': Competent Bedrock.		0 ppm	0	
28				End of Boring				



Project Name: Ellenville Scrap Iron	Site Id: EPA-06
Township/Range:	Coordinate X: 517435.84
Logged By: R.McPherson	Coordinate Y: 1052769.78
Drilling Method: Hollow Stem Auger	Total Depth: 35.00'
	Date Started: 04/09/08

Remarks:

Date Completed: 04/10/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1-				0-15': Dark brown fine-coarse SAND with some Gravel and silt. Subrounded Gravel, till, moist to 10' wet at 10'.	4/9/2008	0 ppm	0	
2-								
3-								
4-								
5-								
6-								
7-								
8-								
9-								
10-								
11-								
12-								
13-								
14-								



Project Name: Ellenville Scrap Iron	Site Id: EPA-06
Township/Range:	Coordinate X: 517435.84
Logged By: R.McPherson	Coordinate Y: 1052769.78
Drilling Method: Hollow Stem Auger	Total Depth: 35.00'
	Date Started: 04/09/08

Remarks:	Date Completed: 04/10/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15		SM/SW		15-30': Fine-medium SAND with some Cobbles.		0 ppm	0	
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								



Project Name: Ellenville Scrap Iron	Site Id: EPA-06
Township/Range:	Coordinate X: 517435.84
Logged By: R.McPherson	Coordinate Y: 1052769.78
Drilling Method: Hollow Stem Auger	Total Depth: 35.00'
	Date Started: 04/09/08

Remarks:	Date Completed: 04/10/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
29								
30				30-35': Bedrock.	04/10/08	0 ppm	0	
31								
32								
33		BE						
34								
35				End of Boring				
36								
37								
38								
39								
40								
41								
42								



Project Name: Ellenville Scrap Iron	Site Id: EPA-07
Township/Range:	Coordinate X: 517402.53
Logged By: R.McPherson	Coordinate Y: 1053492.77
Drilling Method: Hollow Stem Auger	Total Depth: 33.00'
	Date Started: 04/09/08

Remarks:	Date Completed: 04/09/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1				0-8': Brown fine-coarse SAND with little Gravel and some silt, till.	4/9/2008	0 ppm	0	0-8': Refusal at 5'.
2								
3								
4								
5								
6								
7								
8				8-15': Boulders.		0 ppm	0	8-15': Air Rotary through boulders.
9								
10								
11								
12								
13								
14		SM/SP						



Project Name: Ellenville Scrap Iron	Site Id: EPA-07
Township/Range:	Coordinate X: 517402.53
Logged By: R.McPherson	Coordinate Y: 1053492.77
Drilling Method: Hollow Stem Auger	Total Depth: 33.00'
	Date Started: 04/09/08

Remarks:






Date Completed: 04/09/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15				15-27.5': Brown fine-coarse SAND with some subrounded Gravel and some silt, till, wet		0 ppm	0	
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
				27.5-33': Competent Bedrock.		0 ppm	0	27.5-33': Air Rotary to 33'.



Project Name: Ellenville Scrap Iron	Site Id: EPA-07
Township/Range:	Coordinate X: 517402.53
Logged By: R.McPherson	Coordinate Y: 1053492.77
Drilling Method: Hollow Stem Auger	Total Depth: 33.00'
	Date Started: 04/09/08

Remarks:	Date Completed: 04/09/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
29		BE		End of Boring				
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

APPENDIX D
MONITORING WELL BORING LOGS



Project Name: Ellenville Scrap Iron	Site Id: EPA-01
Township/Range:	Coordinate X: 517743.27
Logged By: C.Joblon	Coordinate Y: 1053229.87
Drilling Method: Hollow Stem Auger	Total Depth: 27.00'
	Date Started: 04/08/08

Remarks:

Date Completed: 04/08/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1				0-21.5': Fine-coarse SAND some Gravel and silt. Subrounded Gravel, till, moist to 10' wet at 10'.	4/8/2008	0 ppm	0	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11		SM/SW						
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: EPA-01
Township/Range:	Coordinate X: 517743.27
Logged By: C.Joblon	Coordinate Y: 1053229.87
Drilling Method: Hollow Stem Auger	Total Depth: 27.00'
	Date Started: 04/08/08

Remarks:	Date Completed: 04/08/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15								
16								
17								
18								
19								
20								
21								
22				21.5-27': Competent bedrock.		0 ppm	0	
23								
24								
25								
26								
27				End of Boring				
28								



Project Name: Ellenville Scrap Iron	Site Id: EPA-02
Township/Range:	Coordinate X: 518132.27
Logged By: C.Joblon	Coordinate Y: 1053143.06
Drilling Method: Hollow Stem Auger	Total Depth: 19.00'
	Date Started: 04/08/08

Remarks:
Air Rotary to 19' (seal up to 16') competent bedrock,
HSA and Air Rotary to 16' BGS. ~~Well construction over-~~

Date Completed: 04/08/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1				0-10': Brown fine-medium SAND with some Gravel and silt.	4/8/2008	0 ppm	0	
2								
3								
4								
5								
6								
7								
8		SM/SW						
9								
10				10-16': Gray weathered Shale, moist.	4/8/2008	0 ppm	0	10-16': Wet at 11-12'.
11								
12								
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: EPA-02
Township/Range:	Coordinate X: 518132.27
Logged By: C. Joblon	Coordinate Y: 1053143.06
Drilling Method: Hollow Stem Auger	Total Depth: 19.00'
	Date Started: 04/08/08

Remarks:
Air Rotary to 19' (seal up to 16') competent bedrock,
HSA and Air Rotary to 16' BGS. ~~Well construction over.~~

Date Completed: 04/08/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15								
16				16-19': Gray Sandstone.	4/8/2008	0 ppm	0	
17		BE						
18								
19				End of Boring				
20								
21								
22								
23								
24								
25								
26								
27								
28								



Project Name: Ellenville Scrap Iron	Site Id: EPA-03
Township/Range:	Coordinate X: 518294.59
Logged By: R.McPherson	Coordinate Y: 1052781.68
Drilling Method: Hollow Stem Auger	Total Depth: 22.00'
	Date Started: 04/15/08

Remarks:	Date Completed: 04/16/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1				0-4': Dark brown fine-medium SAND some silt.	4/15/2008	0 ppm	0	
2								
3								
4				4-12': Fine-medium SAND with some Silt and medium-coarse rounded gravel.		0 ppm	0	4-12': Air Rotary 4-12'.
5								
6								
7								
8								
9		SM/SM						
10								
11								
12				12-18': Brown medium-coarse SAND and some Silt.		0 ppm	0	12-18': HSA 12-18'.
13								
14								



Project Name: Ellenville Scrap Iron	Site Id: EPA-03
Township/Range:	Coordinate X: 518294.59
Logged By: R.McPherson	Coordinate Y: 1052781.68
Drilling Method: Hollow Stem Auger	Total Depth: 22.00'
	Date Started: 04/15/08

Remarks:	Date Completed: 04/16/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15								
16								
17								
18				18-20': Weathered Bedrock.		0 ppm	0	18-20': Air Rotary 18-22'.
19								
20		BE		20-22': Bedrock.		0 ppm	0	
21								
22				End of Boring				
23								
24								
25								
26								
27								
28								



Project Name: Ellenville Scrap Iron	Site Id: EPA-04
Township/Range:	Coordinate X: 518106.71
Logged By: R.McPherson	Coordinate Y: 1052479.34
Drilling Method: Hollow Stem Auger	Total Depth: 27.00'
	Date Started: 04/15/08

Remarks:

Date Completed: 04/15/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1		FI		0-3': Dark brown fine-medium Sand with some Silt, trace fill (glass fragments).	4/15/2008	0 ppm	0	
2								
3								
4		GW		3-12': Fine-coarse rounded GRAVEL.		0 ppm	0	3-12': Air Rotary to 12'. Water at 12'.
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
				12-19.5': Brown medium-coarse SAND with some Silt.		0 ppm	0	



Project Name: Ellenville Scrap Iron

Site Id: EPA-04

Township/Range:

Coordinate X: 518106.71

Logged By: R.McPherson

Coordinate Y: 1052479.34

Drilling Method: Hollow Stem Auger

Total Depth: 27.00'

Date Started: 04/15/08

Remarks:

Date Completed: 04/15/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15		SM/SL						
16								
17								
18								
19								
20		BE		19.5-20.5': Weathered Bedrock.		0 ppm	0	
21				20.5-27': Bedrock.		0 ppm	0	20.5-27': Air Rotary to 27'. Total depth at 27'.
22								
23								
24								
25								
26								
27								
28								
				End of Boring				



Project Name: Ellenville Scrap Iron	Site Id: EPA-05
Township/Range:	Coordinate X: 517770.56
Logged By: C.Joblon	Coordinate Y: 1052439.40
Drilling Method: Hollow Stem Auger	Total Depth: 27.00'
	Date Started: 04/10/08

Remarks:	Date Completed: 04/10/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1				0-17': COBBLES, subrounded Gravel and fine sands.	4/10/2008	0 ppm	0	
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14		SM/SH						



Project Name: Ellenville Scrap Iron	Site Id: EPA-05
Township/Range:	Coordinate X: 517770.56
Logged By: C.Joblon	Coordinate Y: 1052439.40
Drilling Method: Hollow Stem Auger	Total Depth: 27.00'
	Date Started: 04/10/08

Remarks:

Date Completed: 04/10/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15				17-27': SAND and cobbles.		0 ppm	0	
16								
17								
18								
19								
20								
21								
22								
23								
24								
25				27-35': Competent Bedrock.		0 ppm	0	
26								
27		BE						
28				End of Boring				



Project Name: Ellenville Scrap Iron	Site Id: EPA-06
Township/Range:	Coordinate X: 517435.84
Logged By: R.McPherson	Coordinate Y: 1052769.78
Drilling Method: Hollow Stem Auger	Total Depth: 35.00'
	Date Started: 04/09/08

Remarks:

Date Completed: 04/10/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1-				0-15': Dark brown fine-coarse SAND with some Gravel and silt. Subrounded Gravel, till, moist to 10' wet at 10'.	4/9/2008	0 ppm	0	
2-								
3-								
4-								
5-								
6-								
7-								
8-								
9-								
10-								
11-								
12-								
13-								
14-								



Project Name: Ellenville Scrap Iron	Site Id: EPA-06
Township/Range:	Coordinate X: 517435.84
Logged By: R.McPherson	Coordinate Y: 1052769.78
Drilling Method: Hollow Stem Auger	Total Depth: 35.00'
	Date Started: 04/09/08

Remarks:	Date Completed: 04/10/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15-		SM/SW	○	15-30': Fine-medium SAND with some Cobbles.		0 ppm	0	
16-			○					
17-			○					
18-			○					
19-			○					
20-			○					
21-			○					
22-			○					
23-			○					
24-			○					
25-			○					
26-			○					
27-			○					
28-			○					



Project Name: Ellenville Scrap Iron	Site Id: EPA-06
Township/Range:	Coordinate X: 517435.84
Logged By: R.McPherson	Coordinate Y: 1052769.78
Drilling Method: Hollow Stem Auger	Total Depth: 35.00'
	Date Started: 04/09/08

Remarks:	Date Completed: 04/10/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
29								
30				30-35': Bedrock.	04/10/08	0 ppm	0	
31								
32								
33		BE						
34								
35				End of Boring				
36								
37								
38								
39								
40								
41								
42								



Project Name: Ellenville Scrap Iron	Site Id: EPA-07
Township/Range:	Coordinate X: 517402.53
Logged By: R.McPherson	Coordinate Y: 1053492.77
Drilling Method: Hollow Stem Auger	Total Depth: 33.00'
	Date Started: 04/09/08

Remarks:	Date Completed: 04/09/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
1				0-8': Brown fine-coarse SAND with little Gravel and some silt, till.	4/9/2008	0 ppm	0	0-8': Refusal at 5'.
2								
3								
4								
5								
6								
7								
8				8-15': Boulders.		0 ppm	0	8-15': Air Rotary through boulders.
9								
10								
11								
12								
13								
14		SM/SP						



Project Name: Ellenville Scrap Iron	Site Id: EPA-07
Township/Range:	Coordinate X: 517402.53
Logged By: R.McPherson	Coordinate Y: 1053492.77
Drilling Method: Hollow Stem Auger	Total Depth: 33.00'
	Date Started: 04/09/08

Remarks:






Date Completed: 04/09/08

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
15				15-27.5': Brown fine-coarse SAND with some subrounded Gravel and some silt, till, wet		0 ppm	0	
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
				27.5-33': Competent Bedrock.		0 ppm	0	27.5-33': Air Rotary to 33'.



Project Name: Ellenville Scrap Iron	Site Id: EPA-07
Township/Range:	Coordinate X: 517402.53
Logged By: R.McPherson	Coordinate Y: 1053492.77
Drilling Method: Hollow Stem Auger	Total Depth: 33.00'
	Date Started: 04/09/08
	Date Completed: 04/09/08

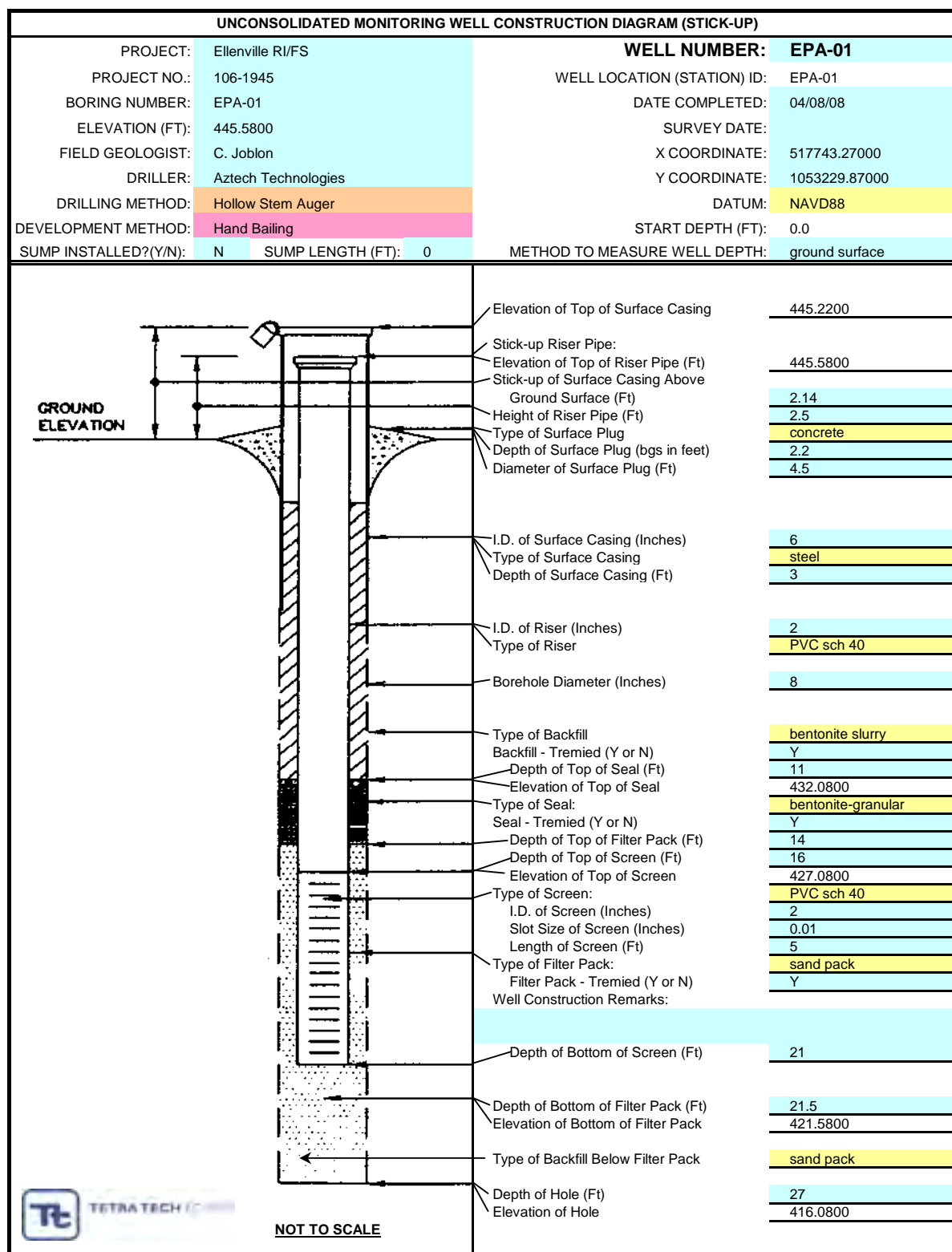
Remarks:

Depth	Recovery %	USCS Code	Graphic Log	Material Description	Date	PID	FID	Notes
29		BE		End of Boring				
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								

APPENDIX E

MONITORING WELL CONSTRUCTION DIAGRAMS

MONITORING WELL CONSTRUCTION DIAGRAM



MONITORING WELL CONSTRUCTION DIAGRAM

UNCONSOLIDATED MONITORING WELL CONSTRUCTION DIAGRAM (STICK-UP)			
<p>PROJECT: Ellenville RI/FS</p> <p>PROJECT NO.: 106-1945</p> <p>BORING NUMBER: EPA-02</p> <p>ELEVATION (FT): 442.3800</p> <p>FIELD GEOLOGIST: C. Joblon</p> <p>DRILLER: Aztech Technologies</p> <p>DRILLING METHOD: Hollow Stem Auger</p> <p>DEVELOPMENT METHOD: Hand Bailing</p> <p>SUMP INSTALLED?(Y/N): N SUMP LENGTH (FT): 0</p>	<p>WELL NUMBER: EPA-02</p> <p>WELL LOCATION (STATION) ID: EPA-02</p> <p>DATE COMPLETED: 04/08/08</p> <p>SURVEY DATE:</p> <p>X COORDINATE: 518132.27000</p> <p>Y COORDINATE: 1053143.06000</p> <p>DATUM: NAVD88</p> <p>START DEPTH (FT): 0.0</p> <p>METHOD TO MEASURE WELL DEPTH: ground surface</p>		

Elevation of Top of Surface Casing	442.2700
Stick-up Riser Pipe:	
Elevation of Top of Riser Pipe (Ft)	442.3800
Stick-up of Surface Casing Above Ground Surface (Ft)	2.39
Height of Riser Pipe (Ft)	2.5
Type of Surface Plug	concrete
Depth of Surface Plug (bgs in feet)	2.2
Diameter of Surface Plug (Ft)	4.5
I.D. of Surface Casing (Inches)	6
Type of Surface Casing	steel
Depth of Surface Casing (Ft)	3
I.D. of Riser (Inches)	2
Type of Riser	PVC sch 40
Borehole Diameter (Inches)	8
Type of Backfill	bentonite slurry
Backfill - Tremied (Y or N)	Y
Depth of Top of Seal (Ft)	6
Elevation of Top of Seal	433.8800
Type of Seal:	bentonite-granular
Seal - Tremied (Y or N)	Y
Depth of Top of Filter Pack (Ft)	9
Depth of Top of Screen (Ft)	11
Elevation of Top of Screen	428.8800
Type of Screen:	PVC sch 40
I.D. of Screen (Inches)	2
Slot Size of Screen (Inches)	0.01
Length of Screen (Ft)	5
Type of Filter Pack:	sand pack
Filter Pack - Tremied (Y or N)	Y
Well Construction Remarks:	
Depth of Bottom of Screen (Ft)	16
Depth of Bottom of Filter Pack (Ft)	16
Elevation of Bottom of Filter Pack	423.8800
Type of Backfill Below Filter Pack	sand pack
Depth of Hole (Ft)	19
Elevation of Hole	420.8800

NOT TO SCALE

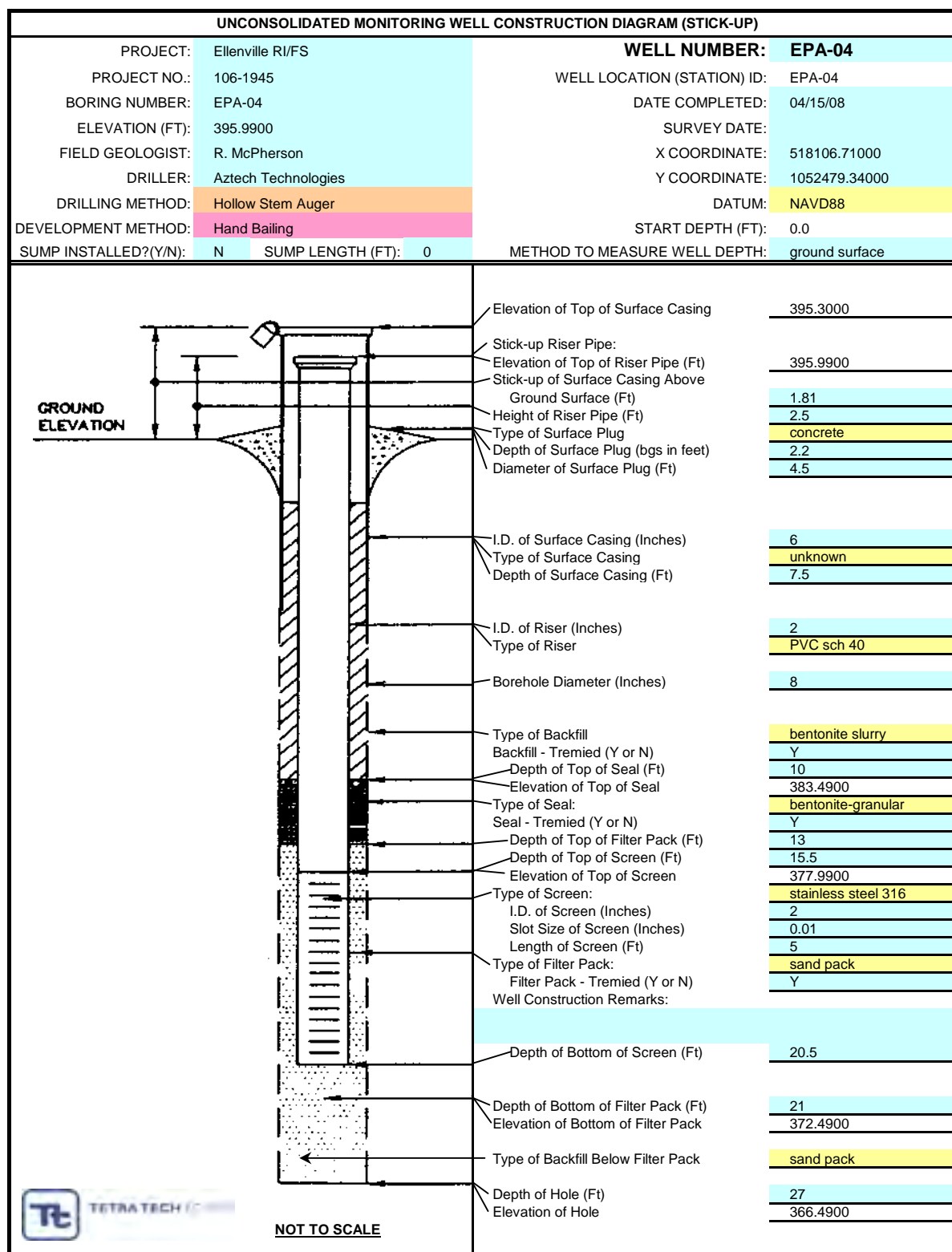
MONITORING WELL CONSTRUCTION DIAGRAM

UNCONSOLIDATED MONITORING WELL CONSTRUCTION DIAGRAM (STICK-UP)			
<p>PROJECT: Ellenville Scrap Iron and Metal</p> <p>PROJECT NO.: 106-1945.2149</p> <p>BORING NUMBER: EPA-03</p> <p>ELEVATION (FT): 400.5700</p> <p>FIELD GEOLOGIST: C. Joblon</p> <p>DRILLER: Aztech Technologies</p> <p>DRILLING METHOD: Hollow Stem Auger</p> <p>DEVELOPMENT METHOD: Submersible Pump</p> <p>SUMP INSTALLED?(Y/N): N SUMP LENGTH (FT): 0</p>	<p>WELL NUMBER: EPA-03</p> <p>WELL LOCATION (STATION) ID: EPA-03</p> <p>DATE COMPLETED: 04/16/08</p> <p>SURVEY DATE:</p> <p>X COORDINATE: 518294.59000</p> <p>Y COORDINATE: 1052781.68000</p> <p>DATUM: NAVD88</p> <p>START DEPTH (FT): 0.0</p> <p>METHOD TO MEASURE WELL DEPTH: ground surface</p>		

Elevation of Top of Surface Casing	400.9600
Stick-up Riser Pipe:	
Elevation of Top of Riser Pipe (Ft)	400.5700
Stick-up of Surface Casing Above Ground Surface (Ft)	2.89
Height of Riser Pipe (Ft)	2.5
Type of Surface Plug	concrete
Depth of Surface Plug (bgs in feet)	2.2
Diameter of Surface Plug (Ft)	4.5
I.D. of Surface Casing (Inches)	6
Type of Surface Casing	steel
Depth of Surface Casing (Ft)	3
I.D. of Riser (Inches)	2
Type of Riser	PVC sch 40
Borehole Diameter (Inches)	8
Type of Backfill	bentonite slurry
Backfill - Tremied (Y or N)	Y
Depth of Top of Seal (Ft)	8
Elevation of Top of Seal	390.0700
Type of Seal:	bentonite-granular
Seal - Tremied (Y or N)	Y
Depth of Top of Filter Pack (Ft)	11
Depth of Top of Screen (Ft)	13
Elevation of Top of Screen	385.0700
Type of Screen:	PVC sch 40
I.D. of Screen (Inches)	2
Slot Size of Screen (Inches)	0.01
Length of Screen (Ft)	5
Type of Filter Pack:	sand pack
Filter Pack - Tremied (Y or N)	Y
Well Construction Remarks:	
Depth of Bottom of Screen (Ft)	18
Depth of Bottom of Filter Pack (Ft)	18.5
Elevation of Bottom of Filter Pack	379.5700
Type of Backfill Below Filter Pack	sand pack
Depth of Hole (Ft)	22
Elevation of Hole	376.0700

NOT TO SCALE

MONITORING WELL CONSTRUCTION DIAGRAM



MONITORING WELL CONSTRUCTION DIAGRAM

UNCONSOLIDATED MONITORING WELL CONSTRUCTION DIAGRAM (STICK-UP)			
<p>PROJECT: Ellenville RI/FS</p> <p>PROJECT NO.: 106-1945</p> <p>BORING NUMBER: EPA-05</p> <p>ELEVATION (FT): 402.3200</p> <p>FIELD GEOLOGIST: C. Joblon</p> <p>DRILLER: Aztech Technologies</p> <p>DRILLING METHOD: Hollow Stem Auger</p> <p>DEVELOPMENT METHOD: Hand Bailing</p> <p>SUMP INSTALLED?(Y/N): N SUMP LENGTH (FT): 0</p>	<p>WELL NUMBER: EPA-05</p> <p>WELL LOCATION (STATION) ID: EPA-05</p> <p>DATE COMPLETED: 04/16/08</p> <p>SURVEY DATE:</p> <p>X COORDINATE: 517770.56000</p> <p>Y COORDINATE: 1052439.40000</p> <p>DATUM: NAVD88</p> <p>START DEPTH (FT): 0.0</p> <p>METHOD TO MEASURE WELL DEPTH: ground surface</p>		

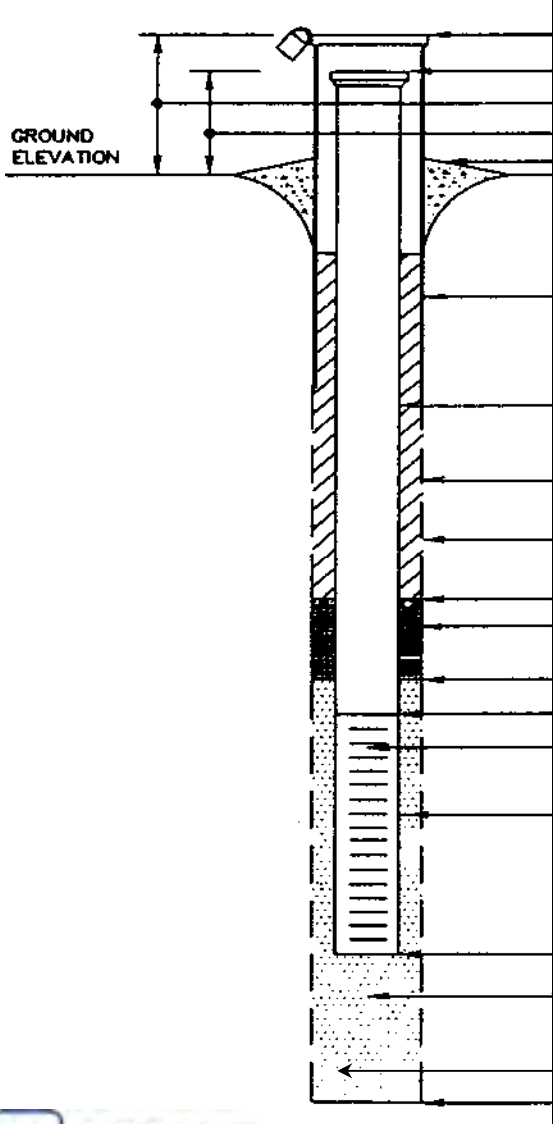
Elevation of Top of Surface Casing	402.3700
Stick-up Riser Pipe:	
Elevation of Top of Riser Pipe (Ft)	402.3200
Stick-up of Surface Casing Above Ground Surface (Ft)	2.55
Height of Riser Pipe (Ft)	2.5
Type of Surface Plug	concrete
Depth of Surface Plug (bgs in feet)	2.2
Diameter of Surface Plug (Ft)	4.5
I.D. of Surface Casing (Inches)	6
Type of Surface Casing	steel
Depth of Surface Casing (Ft)	3
I.D. of Riser (Inches)	2
Type of Riser	PVC sch 40
Borehole Diameter (Inches)	8
Type of Backfill	bentonite slurry
Backfill - Tremied (Y or N)	Y
Depth of Top of Seal (Ft)	8
Elevation of Top of Seal	391.8200
Type of Seal:	bentonite-granular
Seal - Tremied (Y or N)	Y
Depth of Top of Filter Pack (Ft)	11
Depth of Top of Screen (Ft)	22
Elevation of Top of Screen	377.8200
Type of Screen:	PVC sch 40
I.D. of Screen (Inches)	2
Slot Size of Screen (Inches)	0.01
Length of Screen (Ft)	5
Type of Filter Pack:	sand pack
Filter Pack - Tremied (Y or N)	Y
Well Construction Remarks:	
Depth of Bottom of Screen (Ft)	27
Depth of Bottom of Filter Pack (Ft)	18.5
Elevation of Bottom of Filter Pack	381.3200
Type of Backfill Below Filter Pack	sand pack
Depth of Hole (Ft)	22
Elevation of Hole	377.8200


NOT TO SCALE

MONITORING WELL CONSTRUCTION DIAGRAM

UNCONSOLIDATED MONITORING WELL CONSTRUCTION DIAGRAM (STICK-UP)			
<div style="display: flex; justify-content: space-between;"> <div> PROJECT: Ellenville RI/FS PROJECT NO.: 106-1945 BORING NUMBER: EPA-06 ELEVATION (FT): 410.8000 FIELD GEOLOGIST: R.McPherson DRILLER: Aztech Technologies DRILLING METHOD: Hollow Stem Auger DEVELOPMENT METHOD: Hand Bailing SUMP INSTALLED?(Y/N): N SUMP LENGTH (FT): 0 </div> <div> WELL NUMBER: EPA-06 WELL LOCATION (STATION) ID: EPA-06 DATE COMPLETED: 04/10/08 SURVEY DATE: X COORDINATE: 517435.84000 Y COORDINATE: 1052769.78000 DATUM: NAVD88 START DEPTH (FT): 0.0 METHOD TO MEASURE WELL DEPTH: ground surface </div> </div>			

MONITORING WELL CONSTRUCTION DIAGRAM

UNCONSOLIDATED MONITORING WELL CONSTRUCTION DIAGRAM (STICK-UP)			
<div style="display: flex; justify-content: space-between;"> <div> <p>PROJECT: Ellenville RI/FS</p> <p>PROJECT NO.: 106-1945</p> <p>BORING NUMBER: EPA-07</p> <p>ELEVATION (FT): 457.9700</p> <p>FIELD GEOLOGIST: R. McPherson</p> <p>DRILLER: Aztech Technologies</p> <p>DRILLING METHOD: Hollow Stem Auger</p> <p>DEVELOPMENT METHOD: Hand Bailing</p> <p>SUMP INSTALLED?(Y/N): N SUMP LENGTH (FT): 0</p> </div> <div> <p>WELL NUMBER: EPA-07</p> <p>WELL LOCATION (STATION) ID: EPA-07</p> <p>DATE COMPLETED: 04/09/08</p> <p>SURVEY DATE:</p> <p>X COORDINATE: 517402.53000</p> <p>Y COORDINATE: 1053492.77000</p> <p>DATUM: NAVD88</p> <p>START DEPTH (FT): 0.0</p> <p>METHOD TO MEASURE WELL DEPTH: ground surface</p> </div> </div>	 <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Elevation of Top of Surface Casing</p> <p>Stick-up Riser Pipe:</p> <p>Elevation of Top of Riser Pipe (Ft)</p> <p>Stick-up of Surface Casing Above Ground Surface (Ft)</p> <p>Height of Riser Pipe (Ft)</p> <p>Type of Surface Plug</p> <p>Depth of Surface Plug (bgs in feet)</p> <p>Diameter of Surface Plug (Ft)</p> <p>I.D. of Surface Casing (Inches)</p> <p>Type of Surface Casing</p> <p>Depth of Surface Casing (Ft)</p> <p>I.D. of Riser (Inches)</p> <p>Type of Riser</p> <p>Borehole Diameter (Inches)</p> <p>Type of Backfill</p> <p>Backfill - Tremied (Y or N)</p> <p>Depth of Top of Seal (Ft)</p> <p>Elevation of Top of Seal</p> <p>Type of Seal:</p> <p>Seal - Tremied (Y or N)</p> <p>Depth of Top of Filter Pack (Ft)</p> <p>Depth of Top of Screen (Ft)</p> <p>Elevation of Top of Screen</p> <p>Type of Screen:</p> <p>I.D. of Screen (Inches)</p> <p>Slot Size of Screen (Inches)</p> <p>Length of Screen (Ft)</p> <p>Type of Filter Pack:</p> <p>Filter Pack - Tremied (Y or N)</p> <p>Well Construction Remarks:</p> <p>Depth of Bottom of Screen (Ft)</p> <p>Depth of Bottom of Filter Pack (Ft)</p> <p>Elevation of Bottom of Filter Pack</p> <p>Type of Backfill Below Filter Pack</p> <p>Depth of Hole (Ft)</p> <p>Elevation of Hole</p> </div> <div style="width: 45%;"> <p>458.4700</p> <p>457.9700</p> <p>3</p> <p>2.5</p> <p>concrete</p> <p>3</p> <p>4.5</p> <p>6</p> <p>steel</p> <p>7.5</p> <p>2</p> <p>PVC sch 40</p> <p>8</p> <p>bentonite slurry</p> <p>Y</p> <p>17</p> <p>438.4700</p> <p>bentonite-granular</p> <p>Y</p> <p>20</p> <p>22.5</p> <p>432.9700</p> <p>PVC sch 40</p> <p>2</p> <p>0.01</p> <p>5</p> <p>sand pack</p> <p>Y</p> <p>27.5</p> <p>28</p> <p>427.4700</p> <p>gravel pack</p> <p>33</p> <p>422.4700</p> </div> </div>		



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APPENDIX F

TtEC HYDRAULIC TESTING ANALYSIS REPORT

Summary Memorandum – December 2008

October 2008 Slug Test Results – Ellenville Scrap Iron and Metal Site
34 Cape Ave, Ellenville, NY

Introduction

The purpose of this memorandum is to present the results of the analysis of falling and rising-head slug tests performed at five monitoring wells (EPA-03 through EPA-07) at the Ellenville Scrap Iron and Metal site (Site) on October 29 and 30, 2008. The objective of this analysis is to estimate horizontal hydraulic conductivity values for the unconfined hydrostratigraphic unit at the Site. Hydraulic conductivity values can be used to calculate the groundwater seepage velocity and assess the fate and transport potential of constituents of concern (COCs) affecting this hydrostratigraphic unit.

Monitoring wells EPA-03 through EPA-07 are constructed to obtain groundwater elevation measurements and collect groundwater samples from the unconfined hydrostratigraphic unit at the Site. Each monitoring well is constructed with 2-inch diameter PVC well screen and sufficient riser casing to reach ground surface. The monitoring wells were installed in a borehole approximately 8 inches in diameter. The screen interval of each monitoring well is 5 feet long and the screen interval is located at the bottom of the unconfined hydrostratigraphic unit. Groundwater elevations measured prior to the performance of the slug tests were above the screen interval at each monitoring well evaluated.

Boring logs from the advancement of boreholes at monitoring wells EPA-03 through EPA-07 generally describe the unconsolidated sediments of the unconfined hydrostratigraphic unit as a fine to coarse sand, some silt, with varying amounts of fine to coarse gravel. Bedrock was observed by the Tetra Tech EC field geologist during advancement of the boreholes immediately below the depth of the bottom of the monitoring wells.

Two or three falling and rising-head slug tests were performed at each monitoring well in accordance with the procedures described in the June 2006 Final Remedial Investigation/Feasibility Study Workplan. The slug test data was entered into the AquiferTest Pro, Version 3.0 software package and the Hvorslev (1951) and Bouwer and Rice (1976, 1989) slug-test analysis methods were used to analyze the slug test data. These methods are appropriate for the analysis of slug test data for partially penetrating wells in unconfined hydrostratigraphic units.

The results of the slug test analysis indicate the geometric mean value for the horizontal hydraulic conductivity of the aquifer ranges from 4.68×10^{-4} to 5.11×10^{-4} centimeters per second or 1.33 to 1.45 feet per day. The minimum calculated horizontal hydraulic conductivity is 7.97×10^{-5} centimeters per second or 0.226 feet per day, found at monitoring well EPA-03. The maximum calculated horizontal hydraulic conductivity is 1.42×10^{-3} centimeters per second or 4.03 feet per day, found at monitoring well EPA-06. The Site-specific hydraulic conductivity

results compare favorably with documented literature values (Fetter, 1994; Domenico and Schwartz, 1998) for the unconsolidated sediments present within the hydrostratigraphic unit at the Site. The attached table summarizes the results of the falling and rising-head slug tests per type of slug test and analysis method.

References

Domenico and Schwartz, 1998. Physical and Chemical Hydrogeology, 2nd Edition.

Fetter, 1994. Applied Hydrogeology, 3rd Edition.

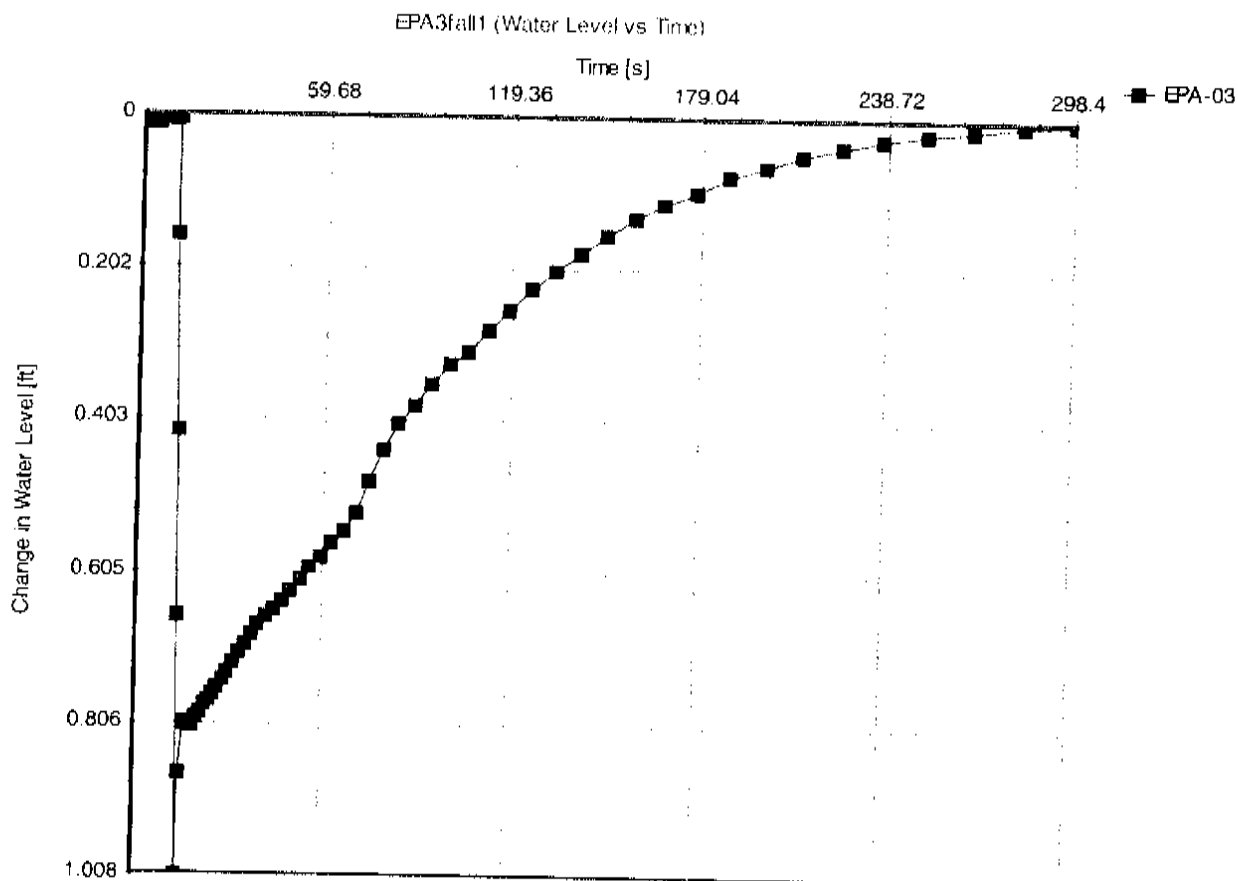


TETRA TECH, INC.

Tetra Tech EC, Inc.
1000 The American Road
Morris Plains, NJ 07950
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA3fall1

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-03	Aquifer thickness:	8 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



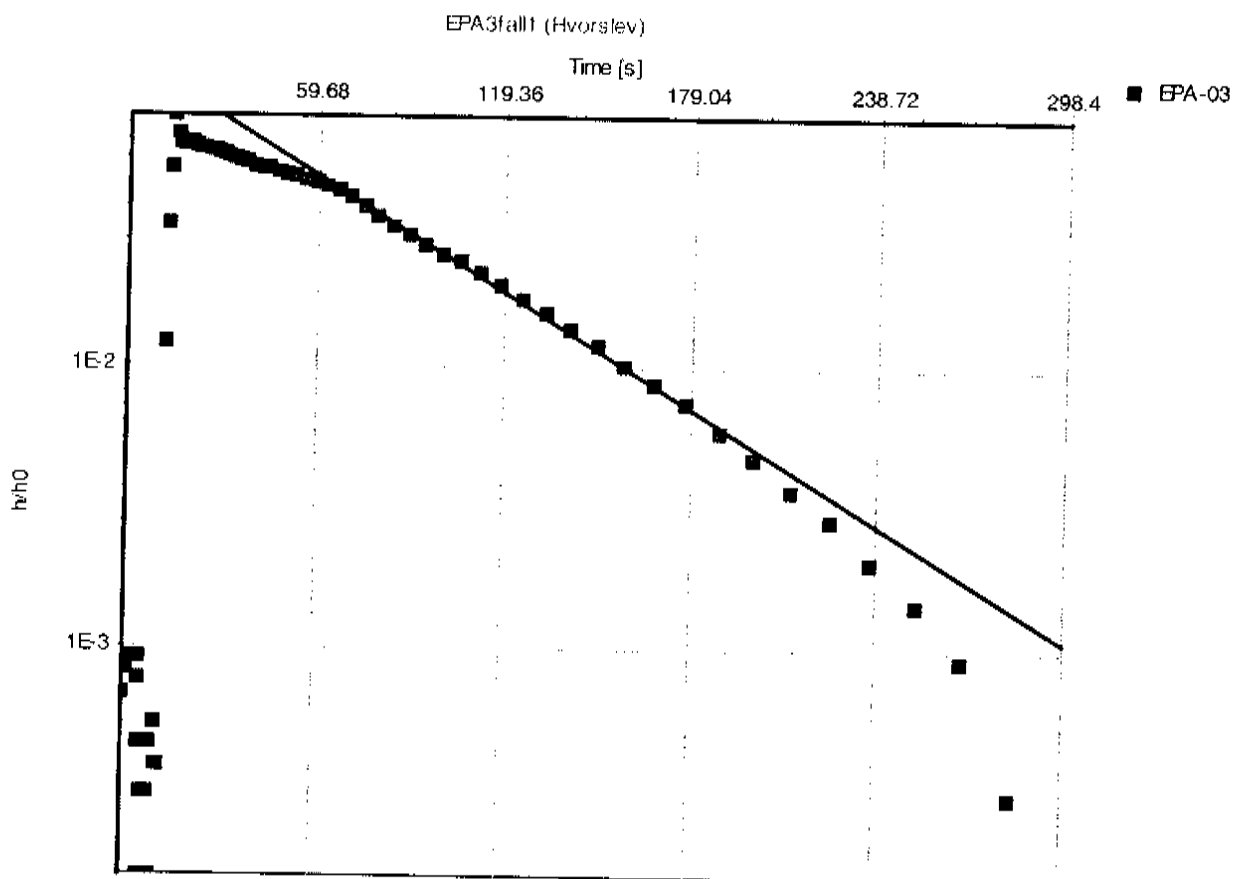
TETRA TECH EC, INC.

Tetra Tech EC, Inc.

1000 The American Road
Morris Plains, NJ 07950
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA3fall1

Analysis method: Hvorslev

Analysis results:

Conductivity: 9.11E-4 [cm/s]

Test parameters:

Test well: EPA-03
Screen radius: 0.33333 [ft]
Screen length: 5 [ft]
Casing radius: 0.08333 [ft]

Aquifer thickness: 8 [ft]

Comments:

Evaluated by: MK

Date: 12/5/2008

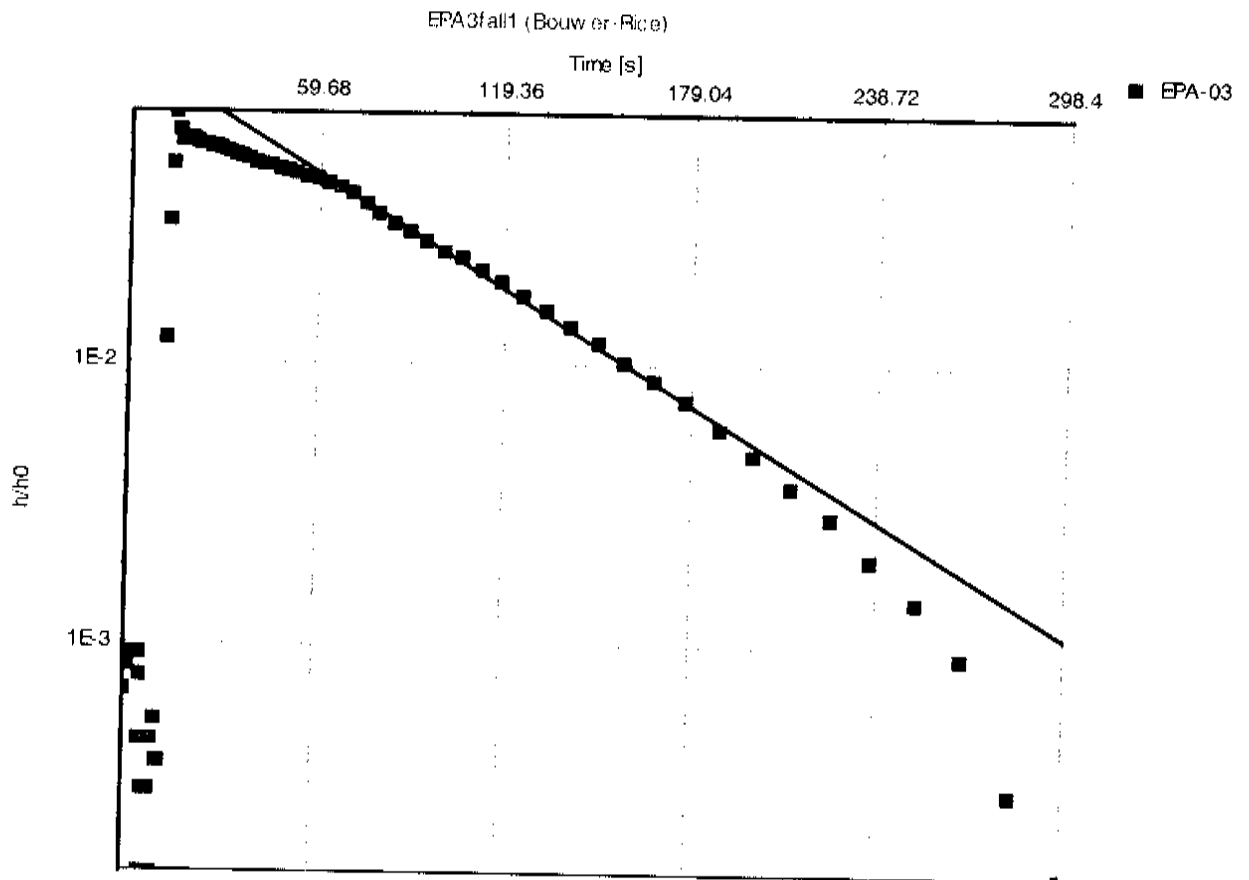


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973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA3fall1

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 7.67E-4 [cm/s]

<u>Test parameters:</u>	Test well:	EPA-03	Aquifer thickness:	8 [ft]
	Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		
	r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008

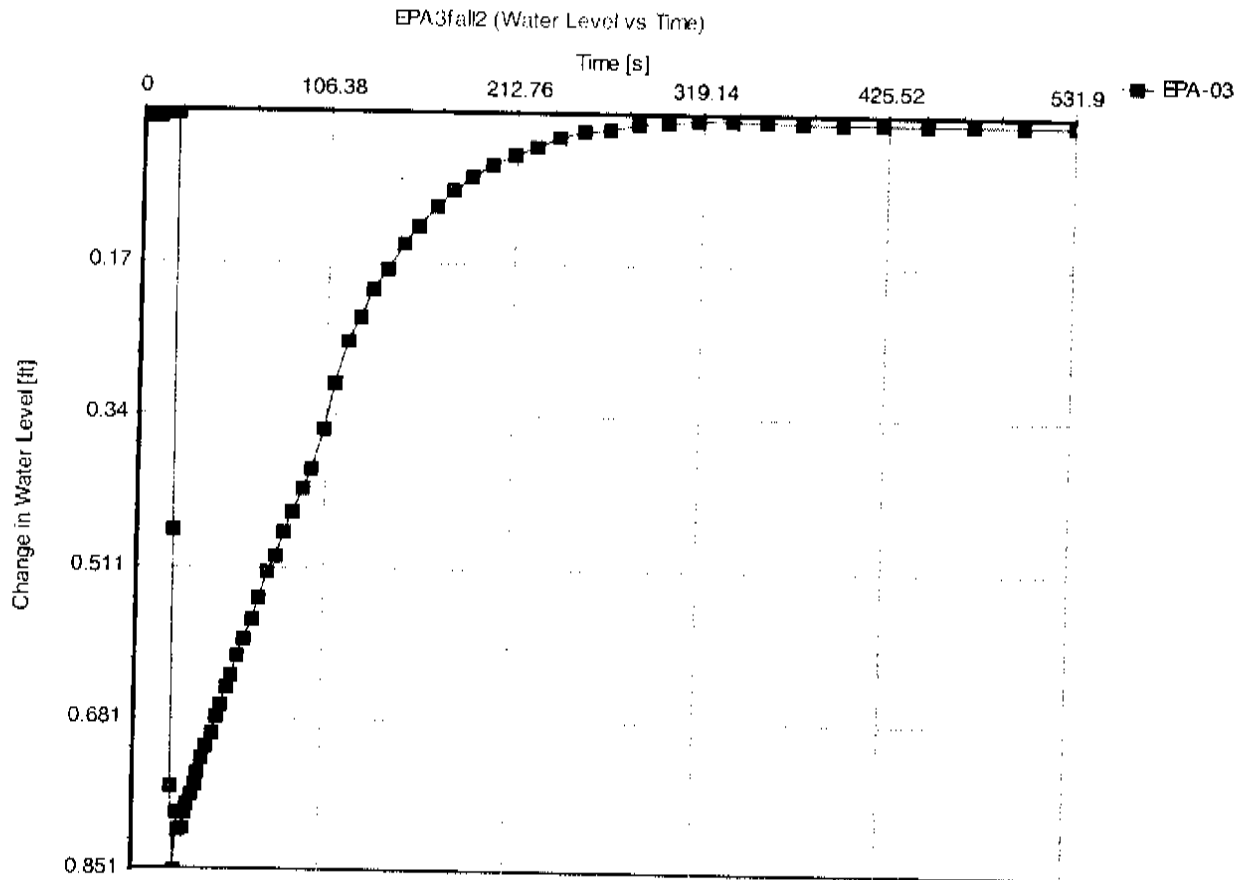


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA3fall2

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-03	Aquifer thickness:	8 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



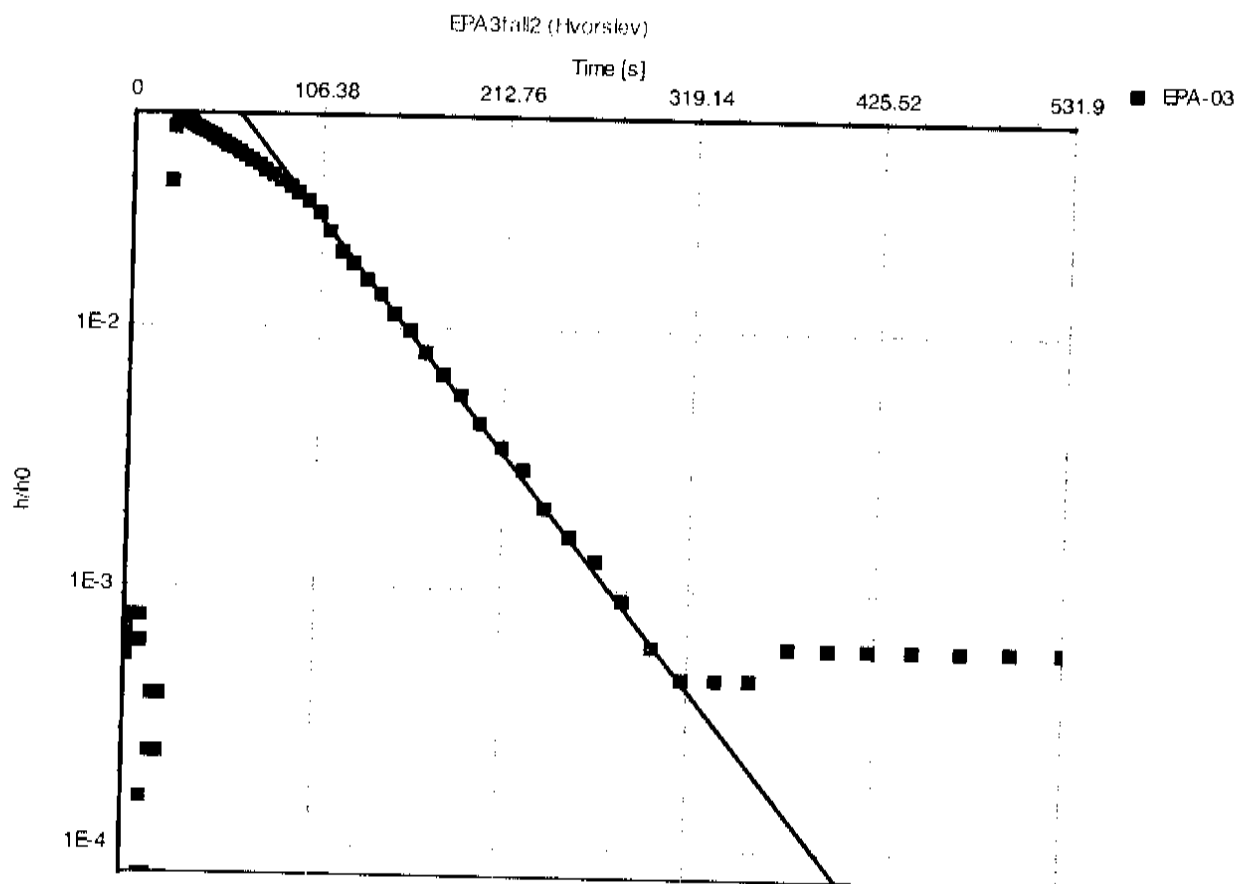
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA3fall2

Analysis method: Hvorslev

Analysis results:

Conductivity: 1.12E-3 [cm/s]

Test parameters:

Test well: EPA-03
Screen radius: 0.33333 [ft]
Screen length: 5 [ft]
Casing radius: 0.08333 [ft]

Aquifer thickness: 8 [ft]

Comments:

Evaluated by: MK

Date: 12/5/2008



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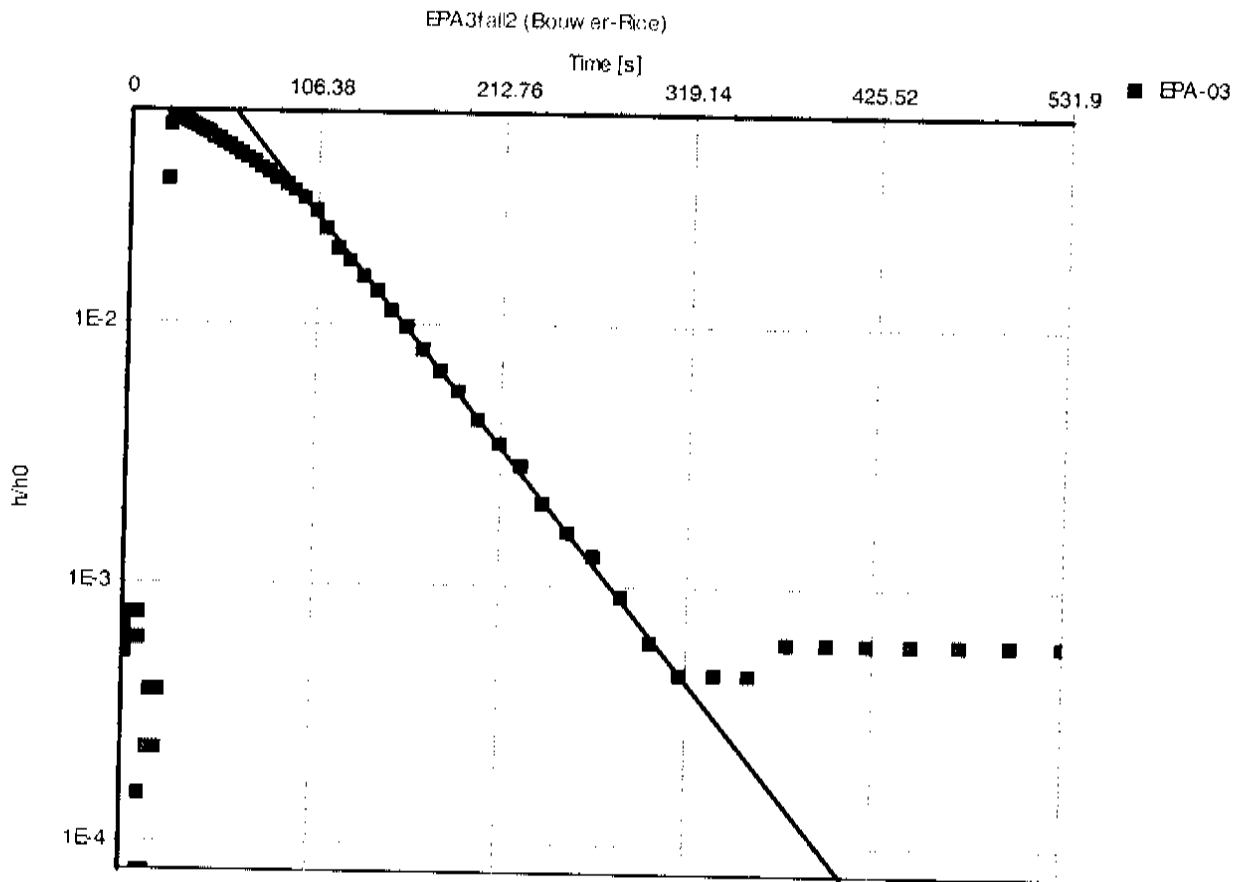
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA



Test name: EPA3fall2

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 9.41E-4 [cm/s]

Test parameters:

Test well:	EPA-03	Aquifer thickness:	8 [ft]
Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		
r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

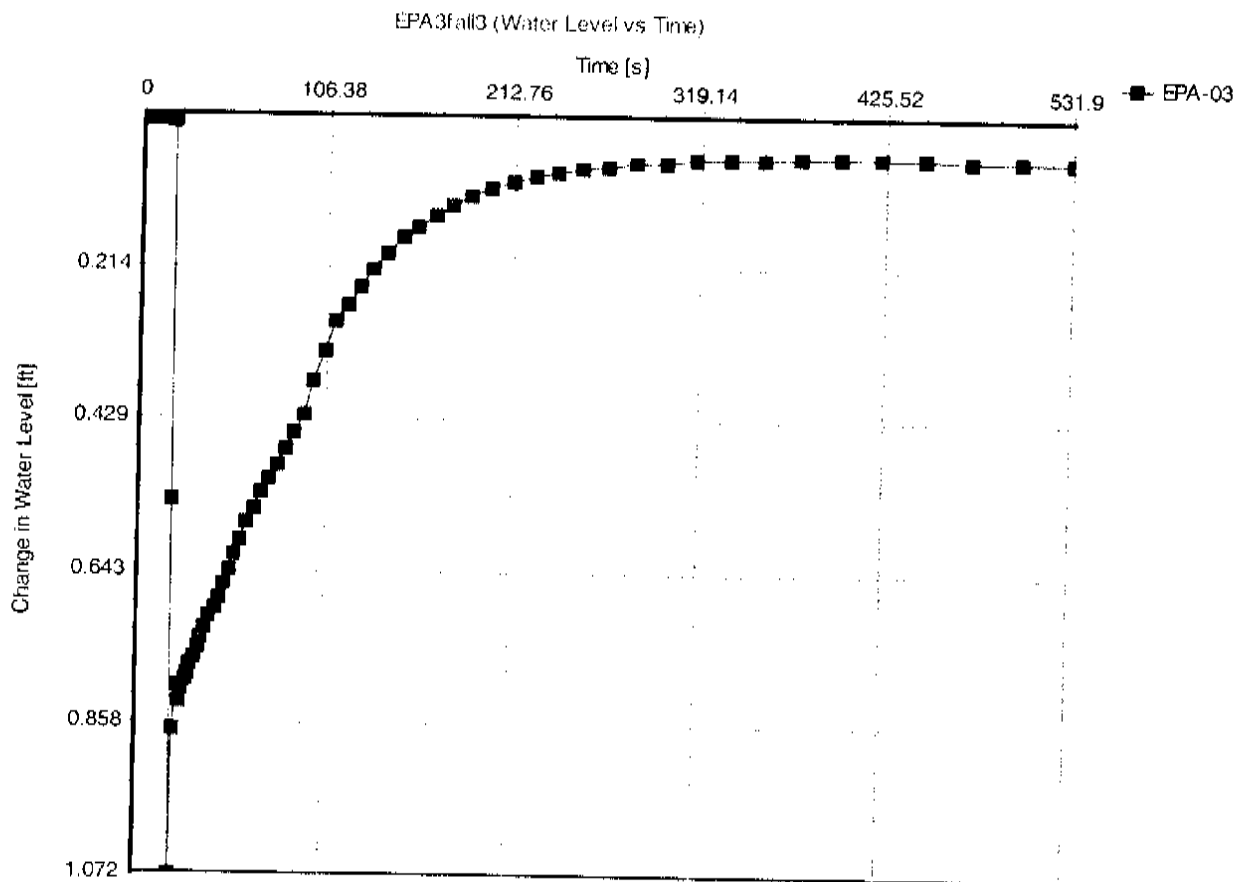
Date: 12/5/2008



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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA3fall3

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-03	Aquifer thickness:	8 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008

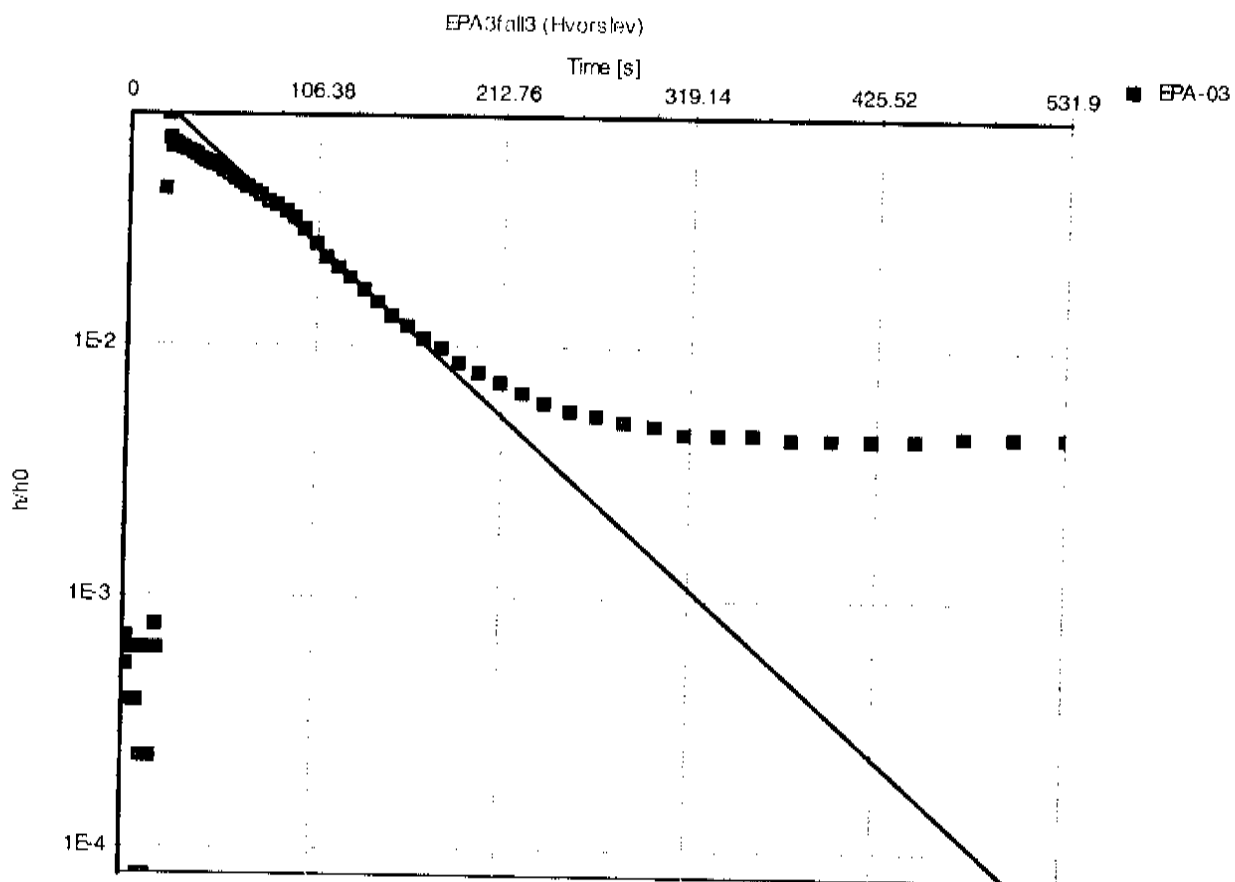


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA3fall3

Analysis method: Hvorslev

Analysis results:

Conductivity: 8.42E-4 [cm/s]

<u>Test parameters:</u>	Test well:	EPA-03	Aquifer thickness:	8 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008

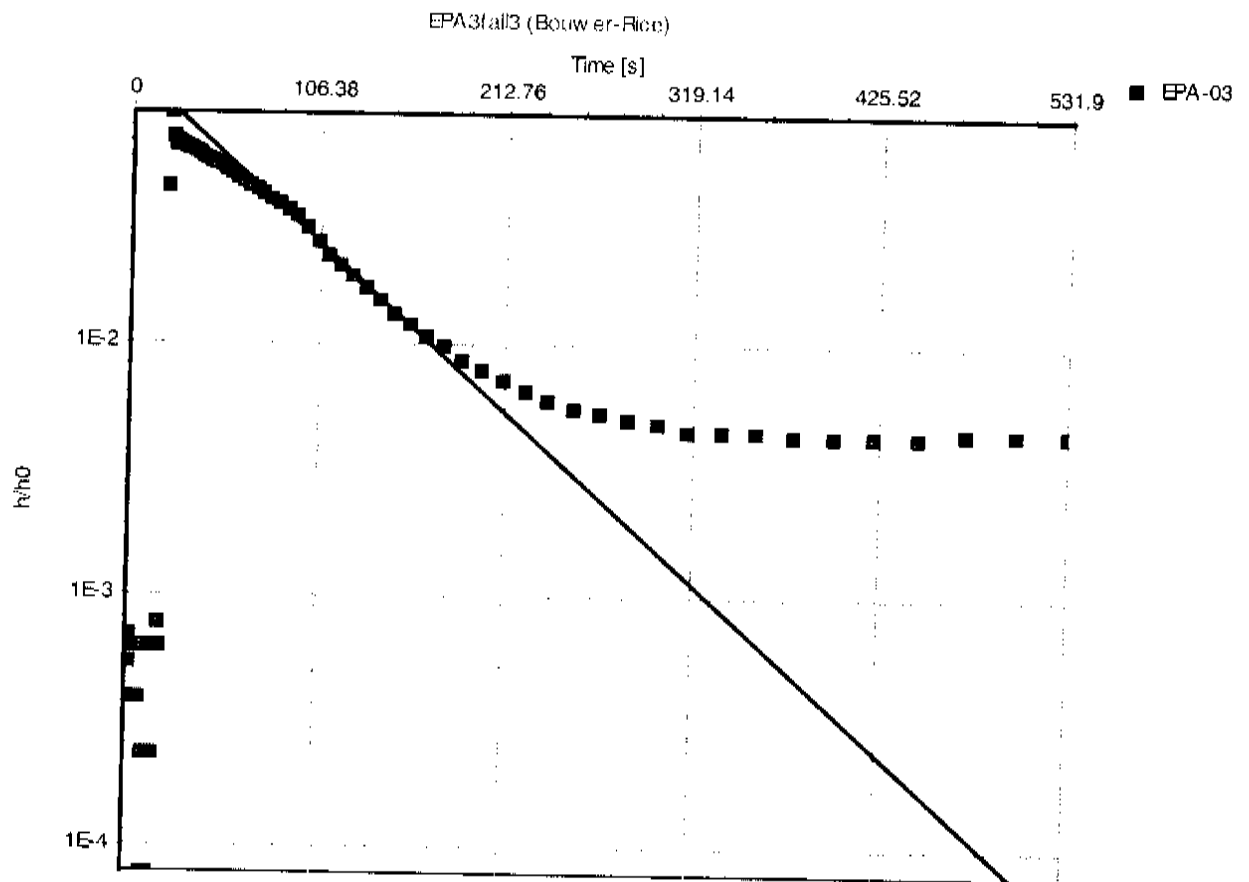


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA3fall3

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 7.11E-4 [cm/s]

Test parameters:

Test well:	EPA-03	Aquifer thickness:	8 [ft]
Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		
r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



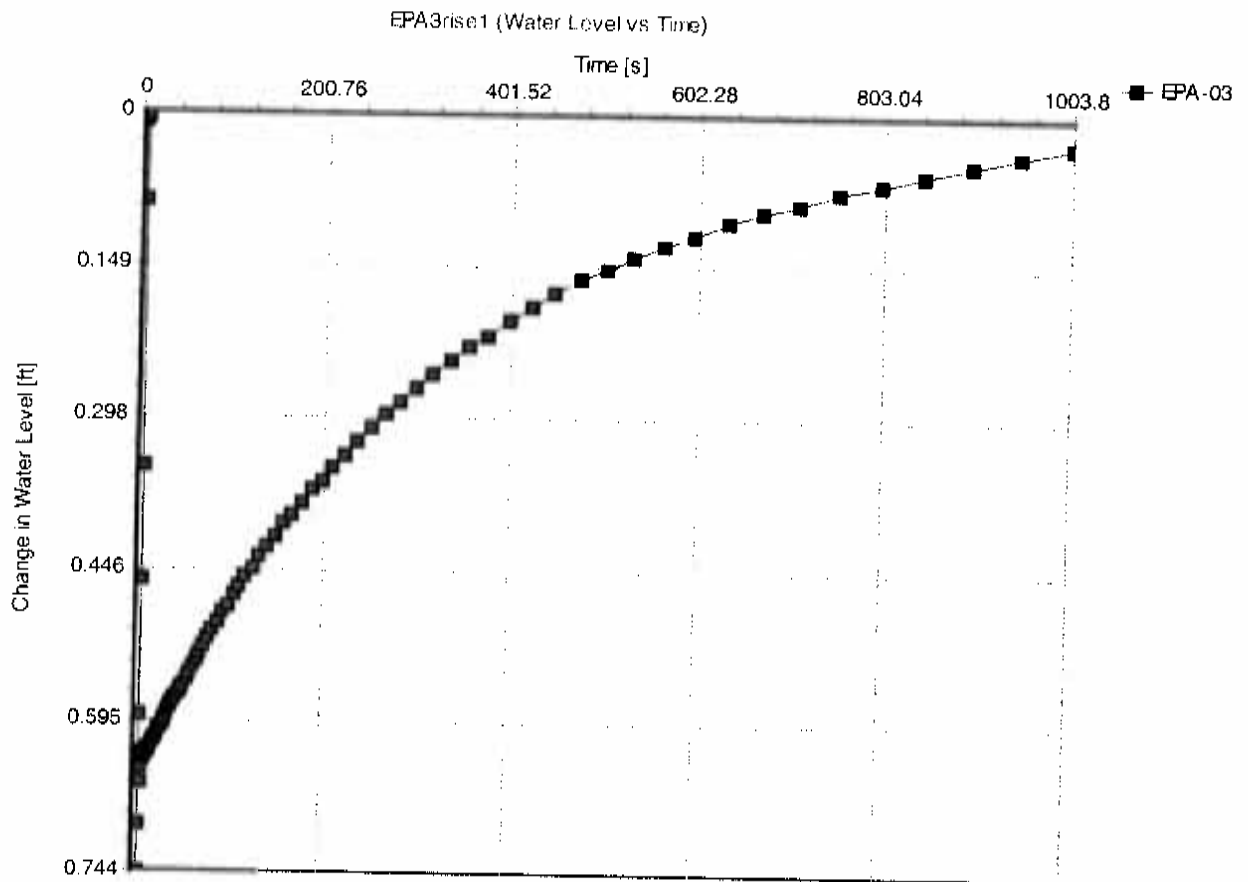
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA3rise1

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-03	Aquifer thickness:	8 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008

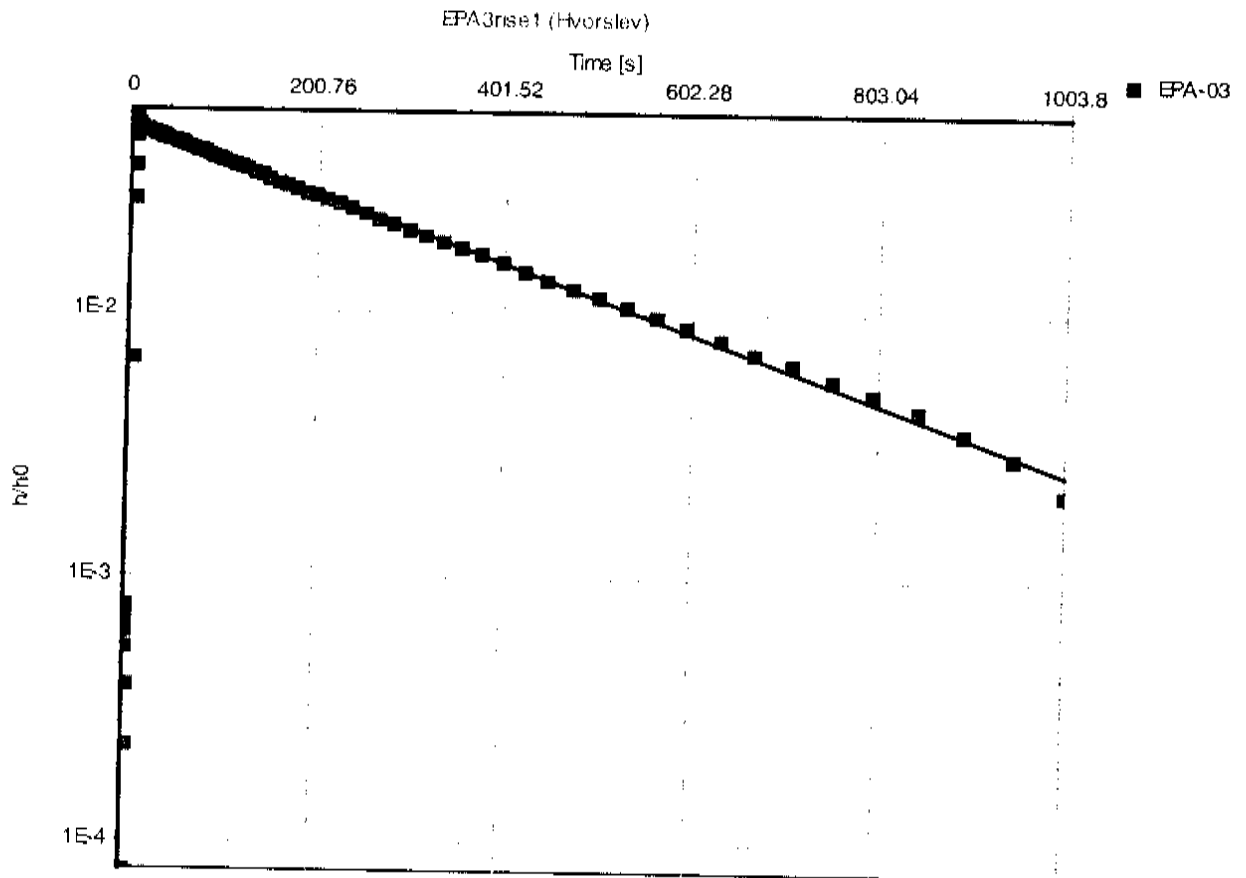


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA3rise1

Analysis method: Hvorslev

Analysis results:

Conductivity: 1.71E-4 [cm/s]

Test parameters:

Test well:	EPA-03	Aquifer thickness:	8 [ft]
Screen radius:	0.33333 [ft]		
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008

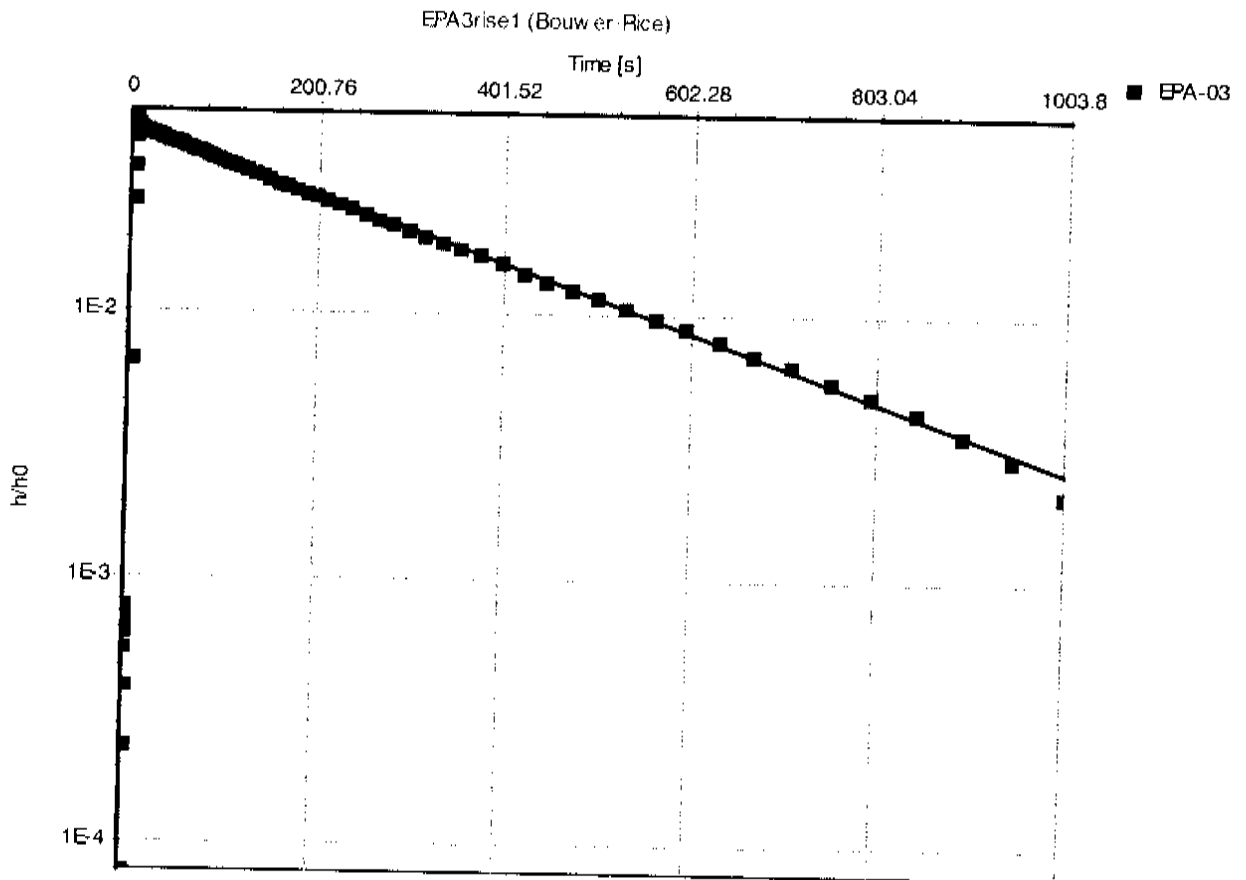


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA3rise1

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 1.44E-4 [cm/s]

<u>Test parameters:</u>	Test well:	EPA-03	Aquifer thickness:	8 [ft]
	Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		
	r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



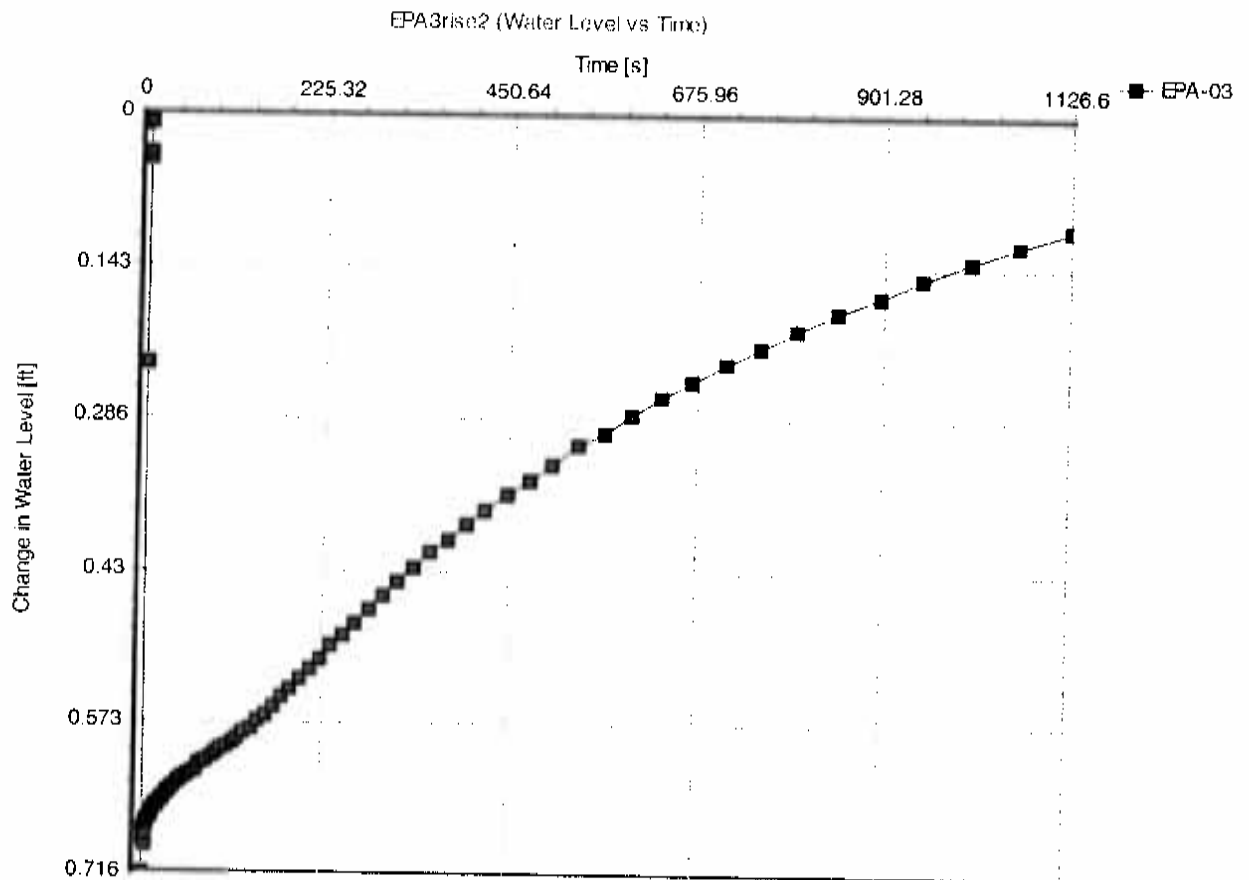
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA3rise2

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-03	Aquifer thickness:	8 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008

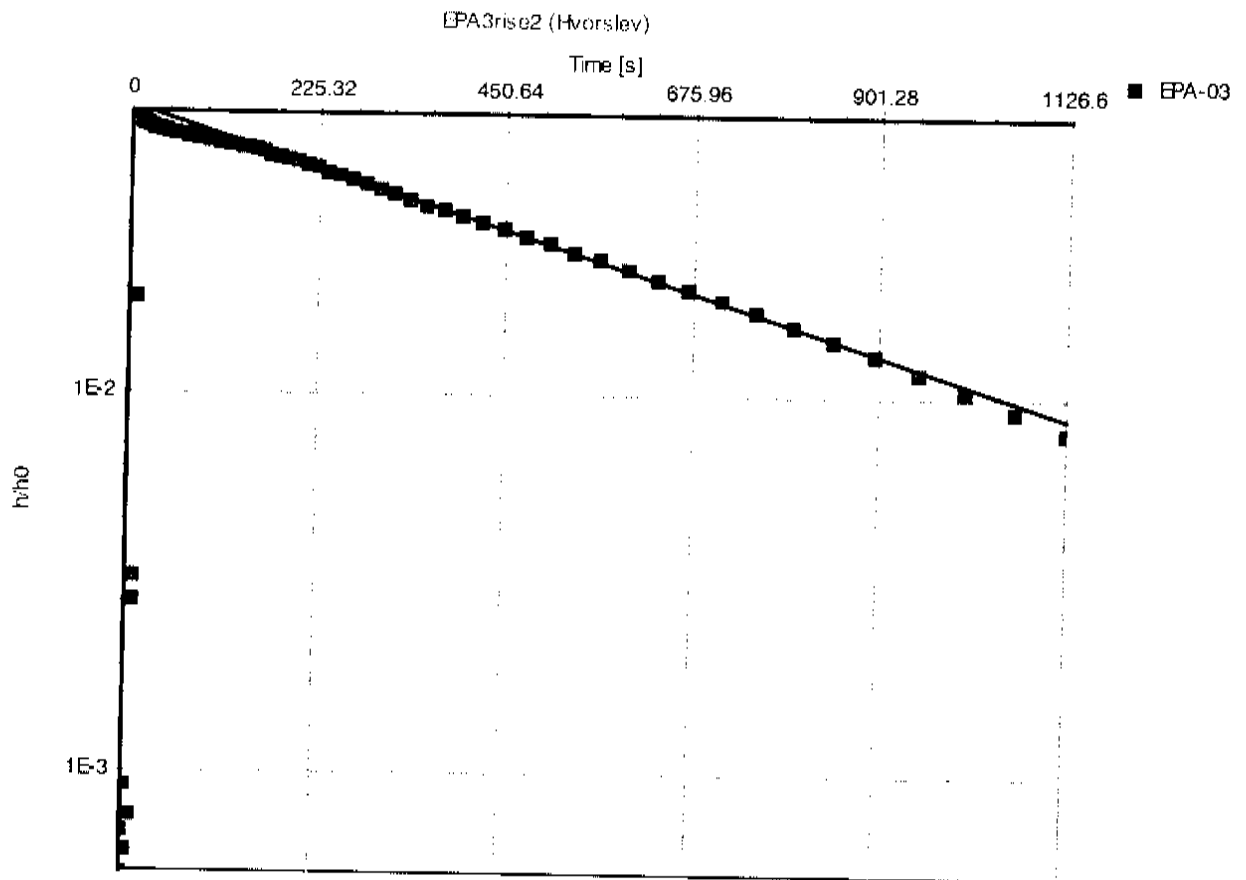


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA3rise2

Analysis method: Hvorslev

Analysis results:

Conductivity: 9.50E-5 [cm/s]

<u>Test parameters:</u>	Test well:	EPA-03	Aquifer thickness:	8 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



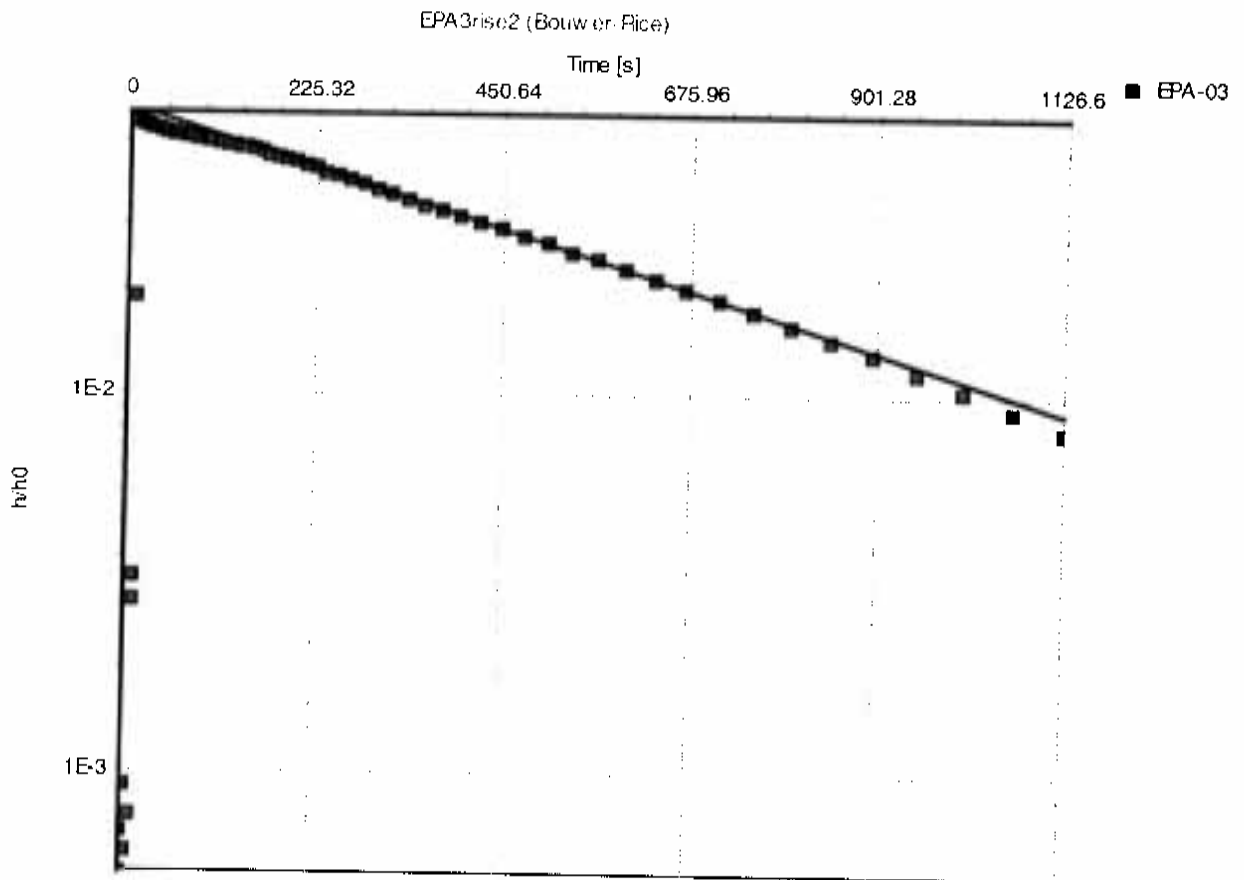
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA3rise2

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 7.97E-5 [cm/s]

Test parameters:

Test well:	EPA-03	Aquifer thickness:	8 [ft]
Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		
r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



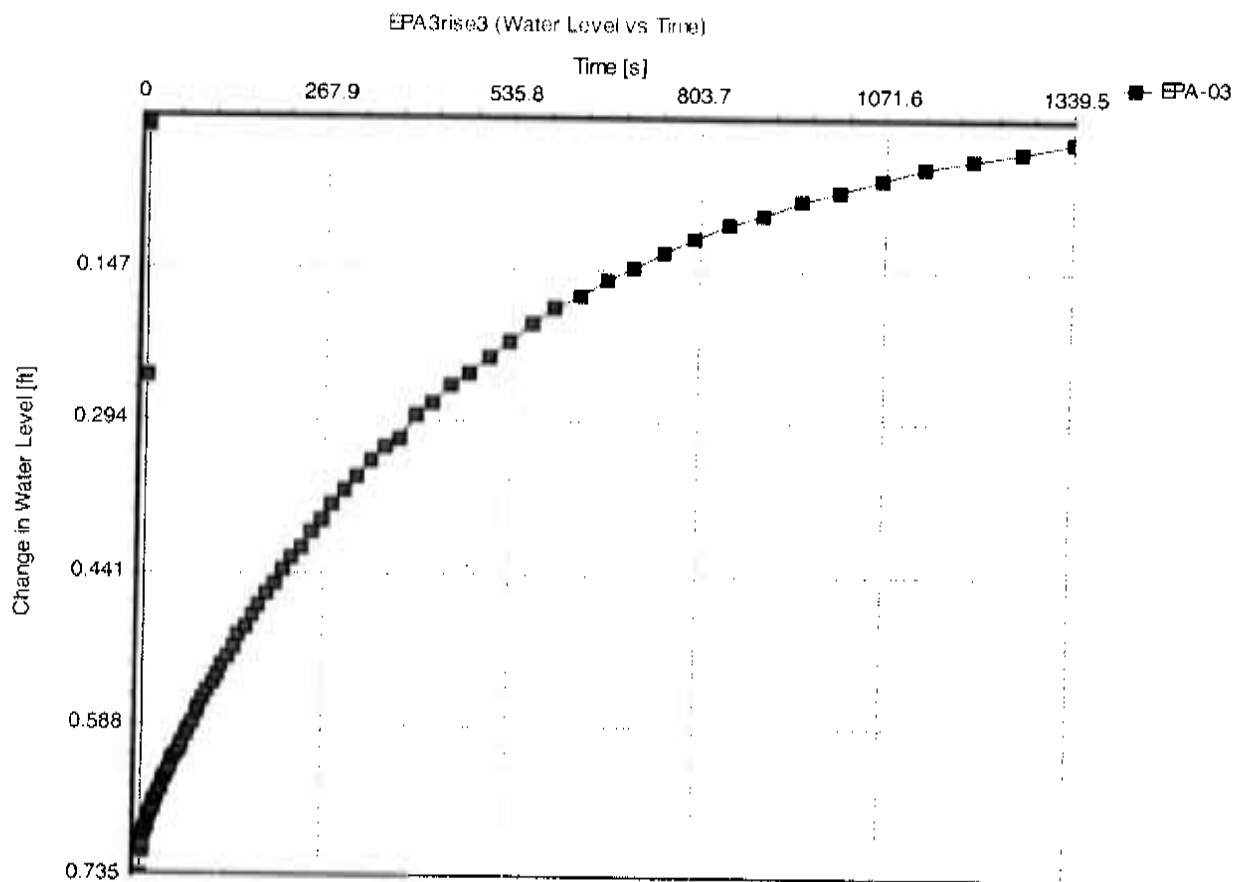
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA3rise3

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-03	Aquifer thickness:	8 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008

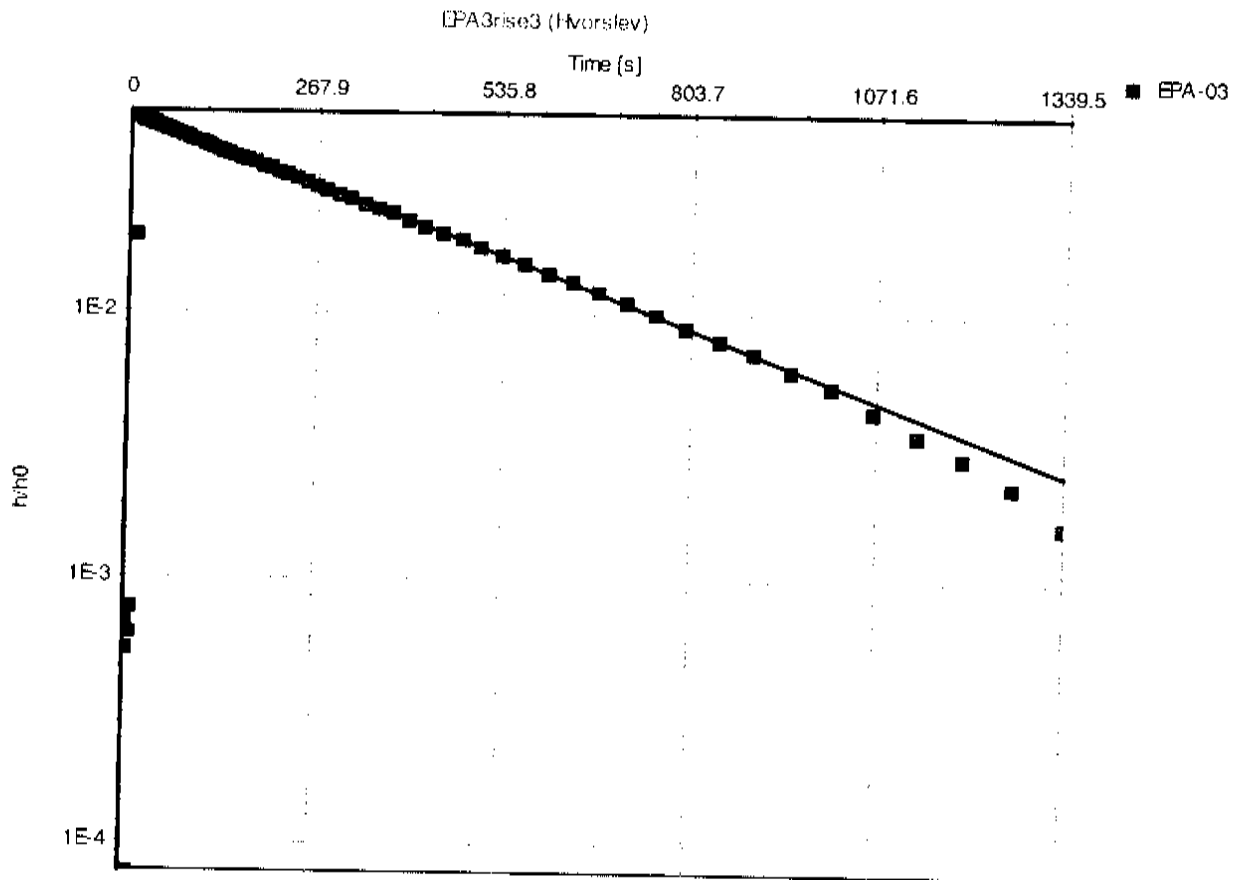


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA3rise3

Analysis method: Hvorslev

Analysis results:

Conductivity: 1.33E-4 [cm/s]

Test parameters:

Test well:	EPA-03	Aquifer thickness:	8 [ft]
Screen radius:	0.33333 [ft]		
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



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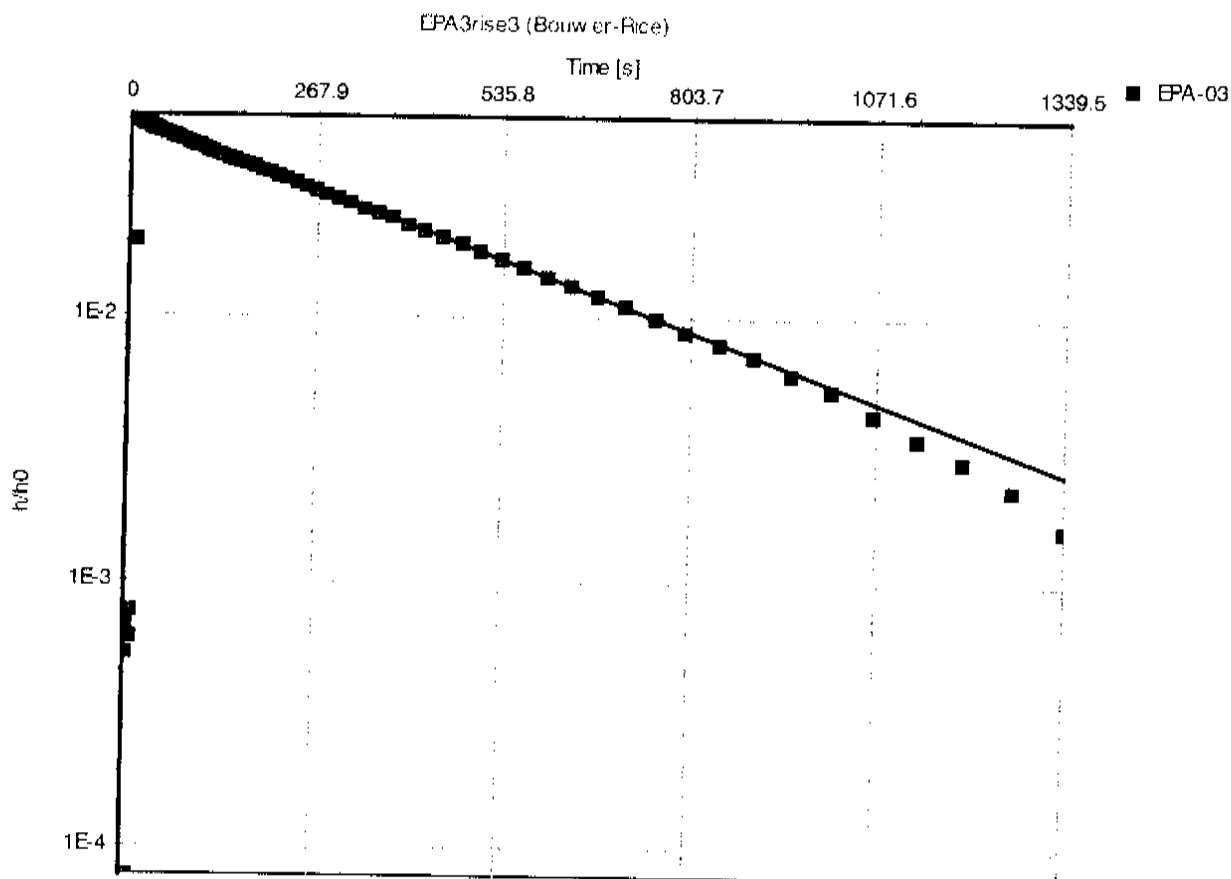
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA

Test name: EPA3rise3Analysis method: Bouwer-RiceAnalysis results:

Conductivity: 1.11E-4 [cm/s]

<u>Test parameters:</u>	Test well:	EPA-03	Aquifer thickness:	8 [ft]
	Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		
	r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008

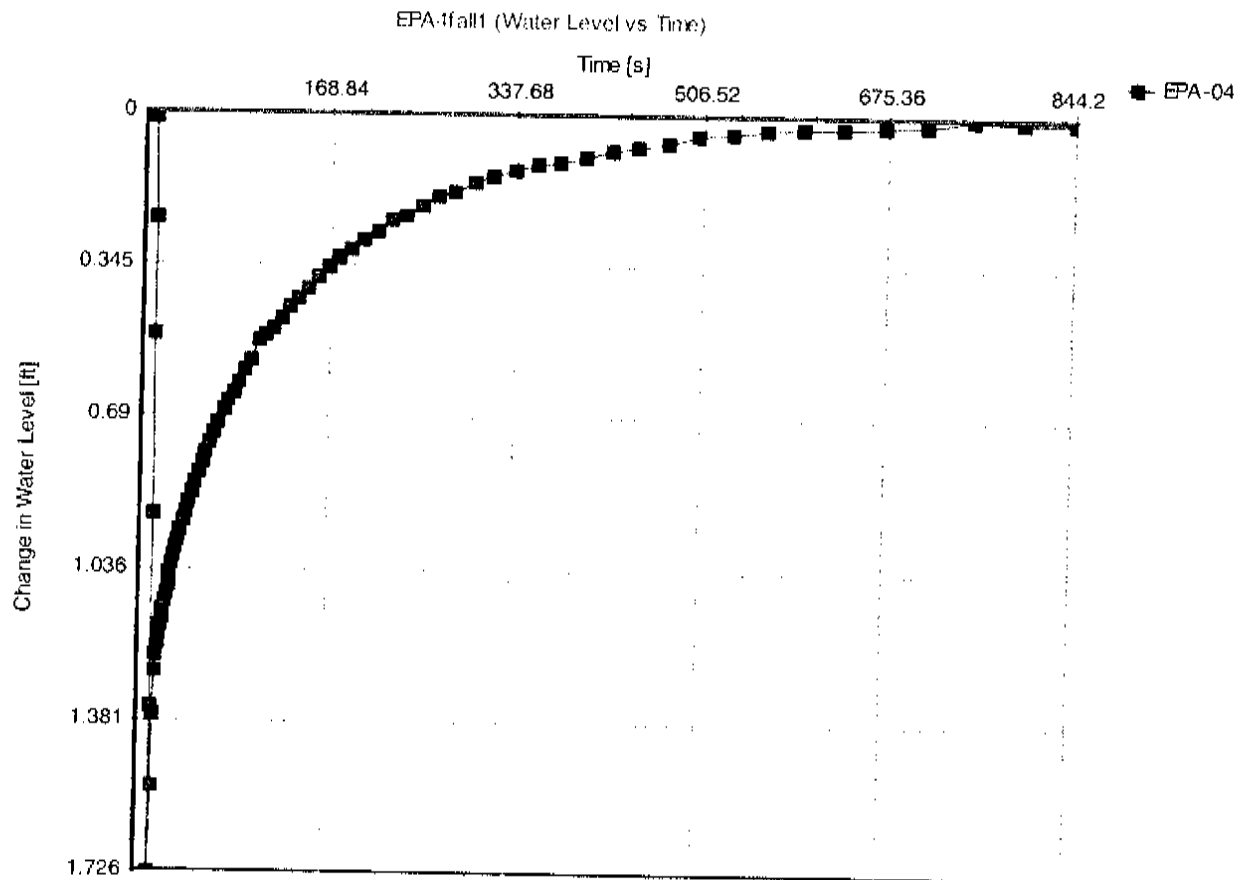


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA4fall1

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-04	Aquifer thickness:	13.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008

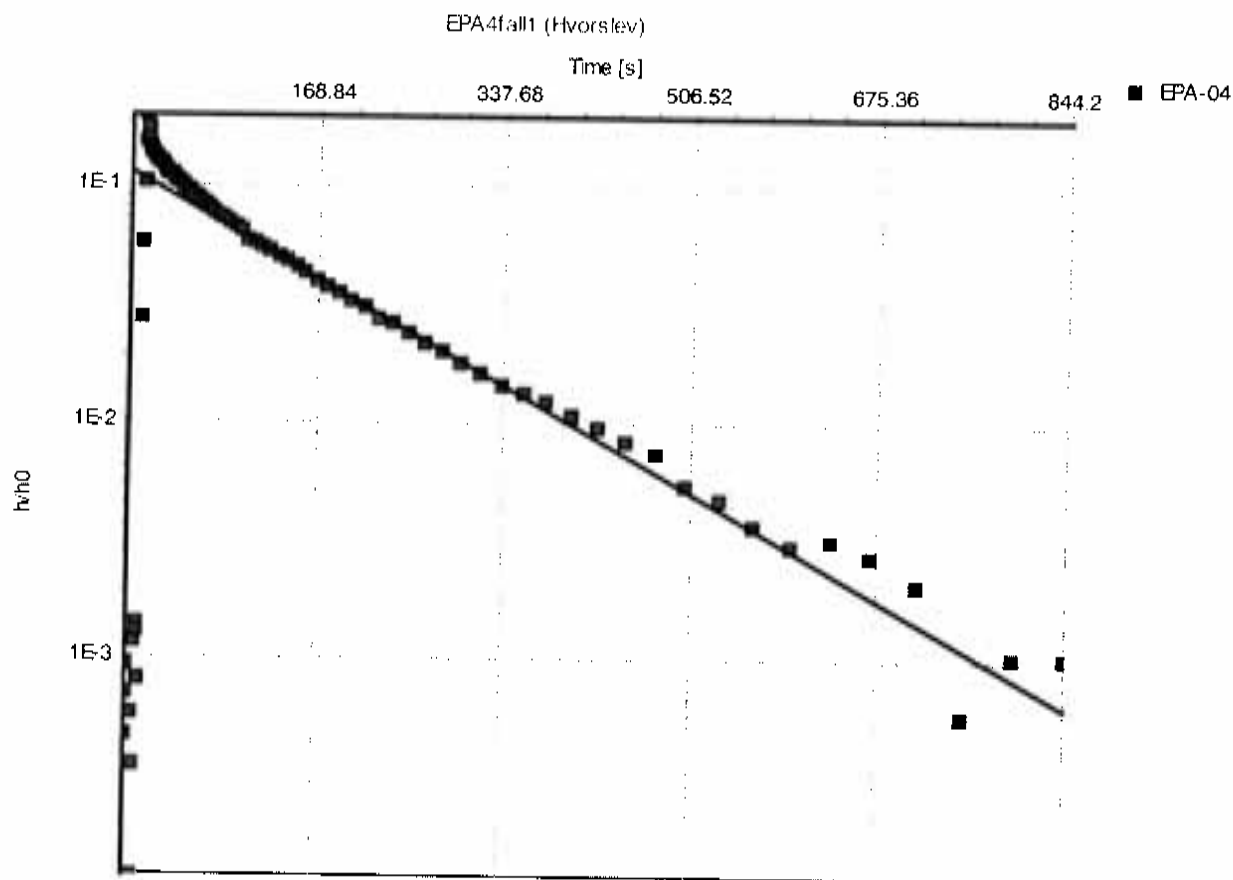


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA4fall1

Analysis method: Hvorslev

Analysis results:

Conductivity: 3.55E-4 [cm/s]

Test parameters:

Test well:	EPA-04	Aquifer thickness:	13.5 [ft]
Screen radius:	0.33333 [ft]		
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



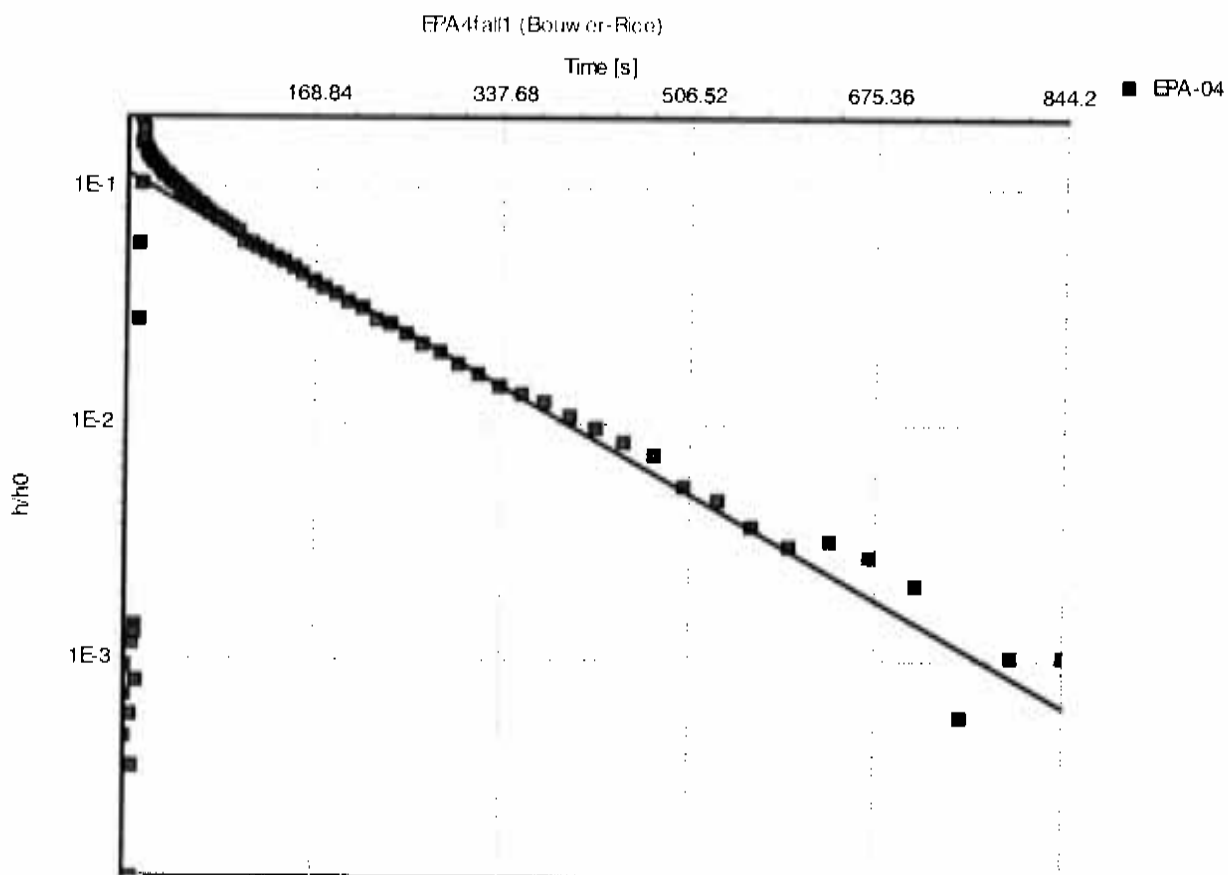
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA4fall1

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 3.39E-4 [cm/s]

Test parameters:

Test well: EPA-04
Screen radius: 0.33333 [ft]
Screen length: 5 [ft]
Casing radius: 0.08333 [ft]

r(eff): 0.182 [ft]

Aquifer thickness: 13.5 [ft]
Gravel pack Porosity (%): 25

Comments:

Evaluated by: MK
Date: 12/5/2008

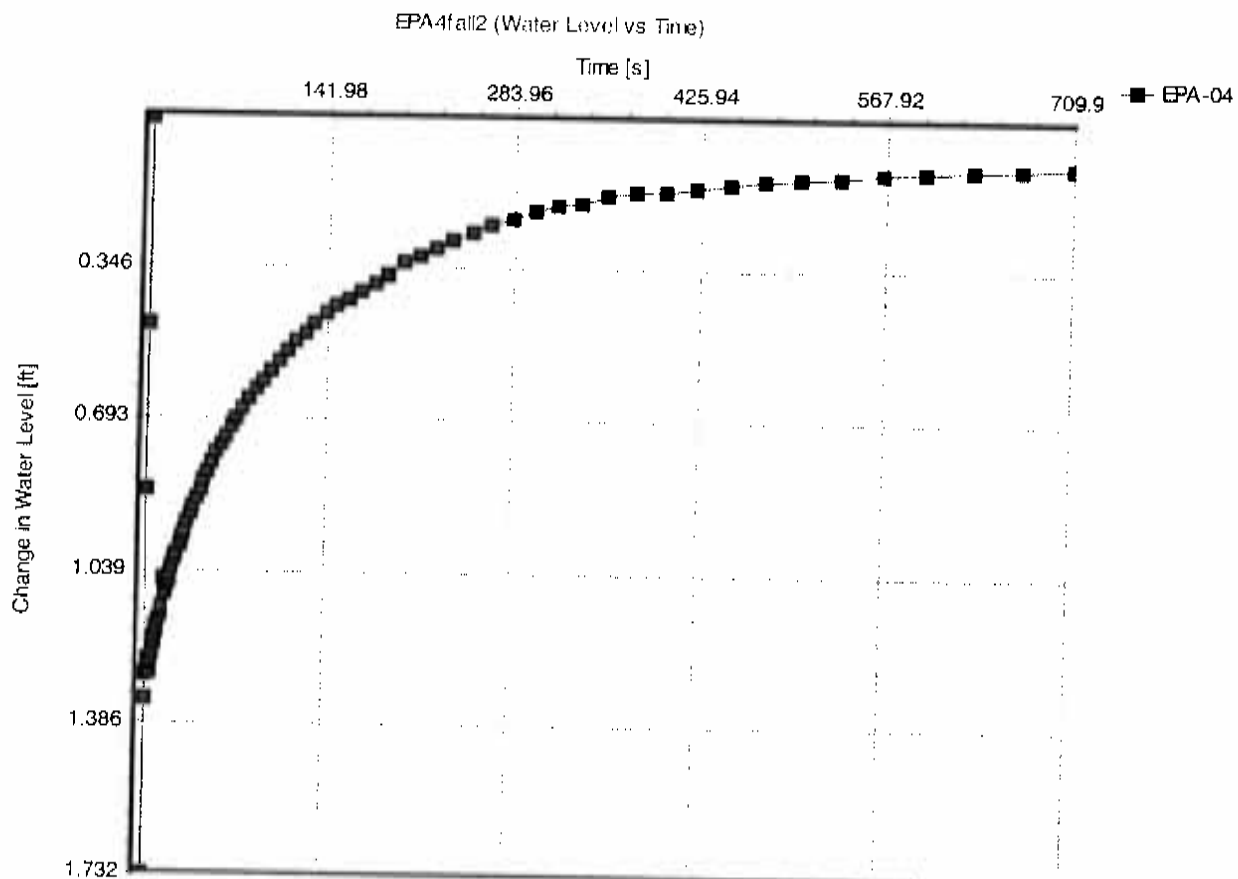


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA4fall2

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-04	Aquifer thickness:	13.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



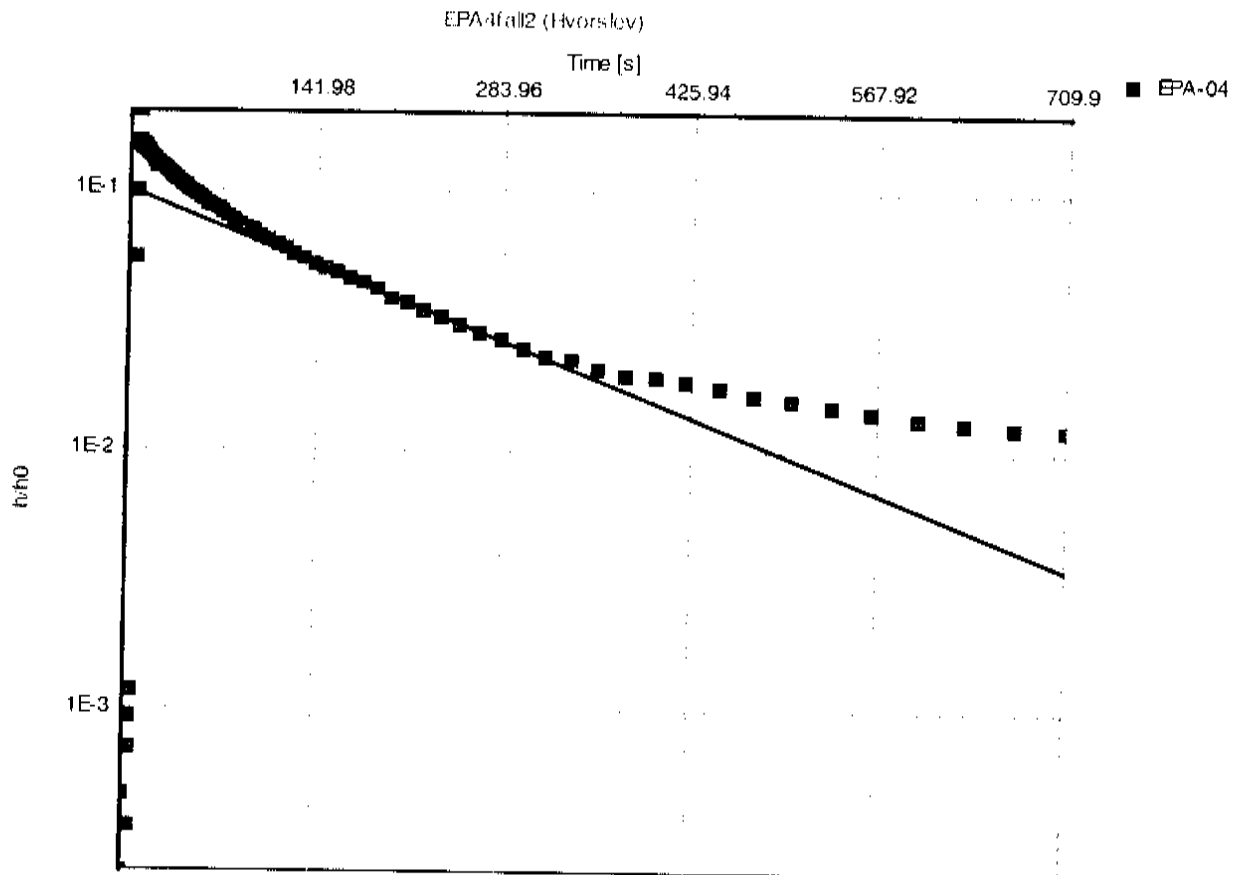
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA4fall2

Analysis method: Hvorslev

Analysis results:

Conductivity: 2.71E-4 [cm/s]

<u>Test parameters:</u>	Test well:	EPA-04	Aquifer thickness:	13.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



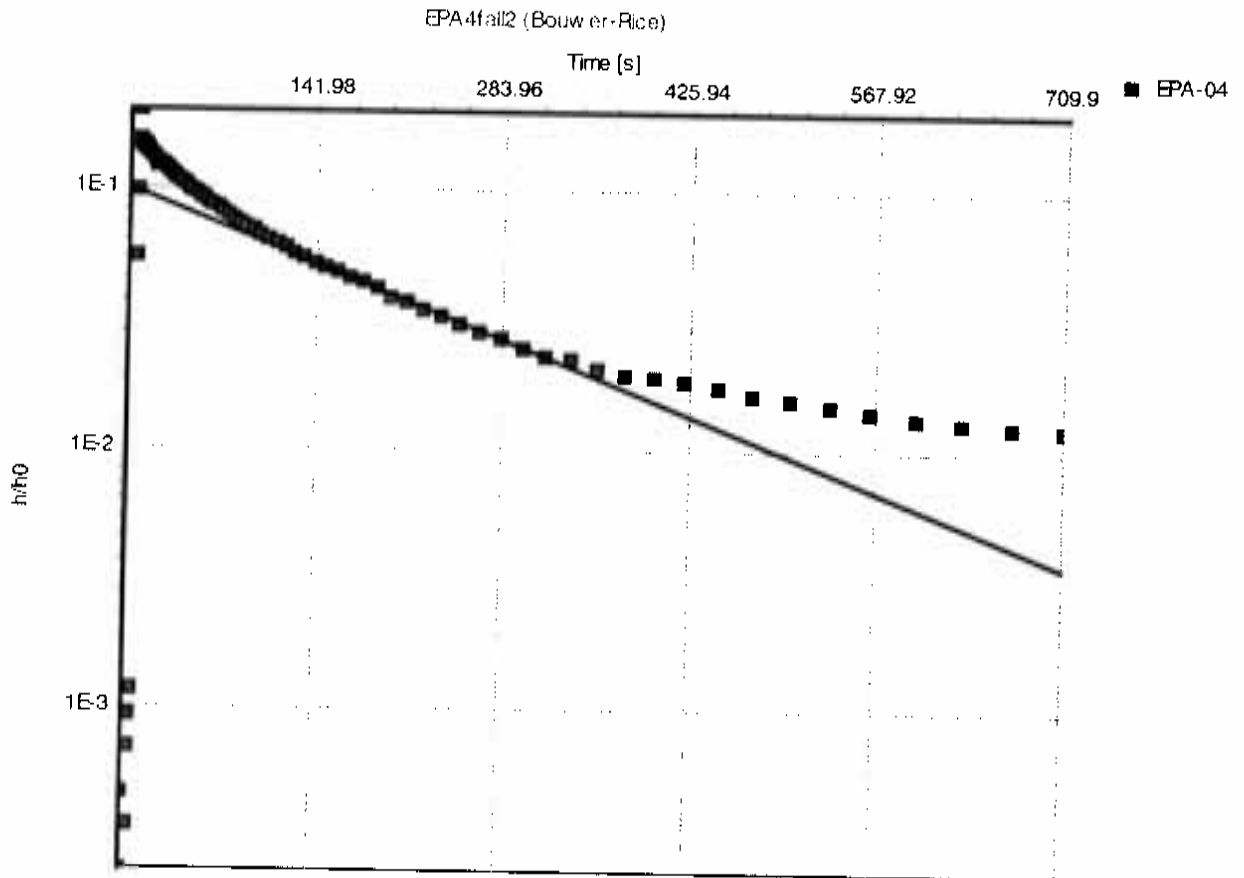
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA4fall2

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 2.57E-4 [cm/s]

<u>Test parameters:</u>	Test well:	EPA-04	Aquifer thickness:	13.5 [ft]
	Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		
	r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



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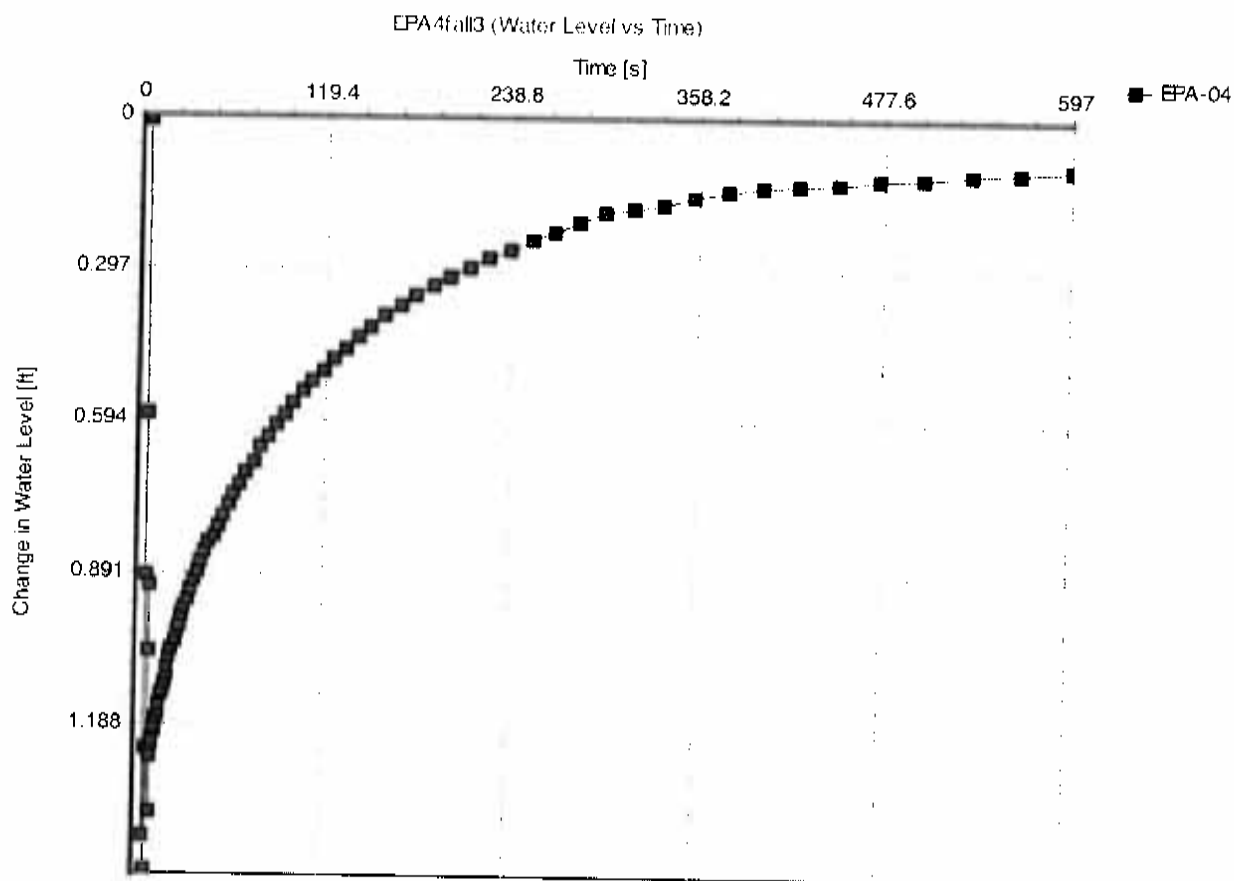
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA



Test name: EPA4fall3

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-04	Aquifer thickness:	13.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

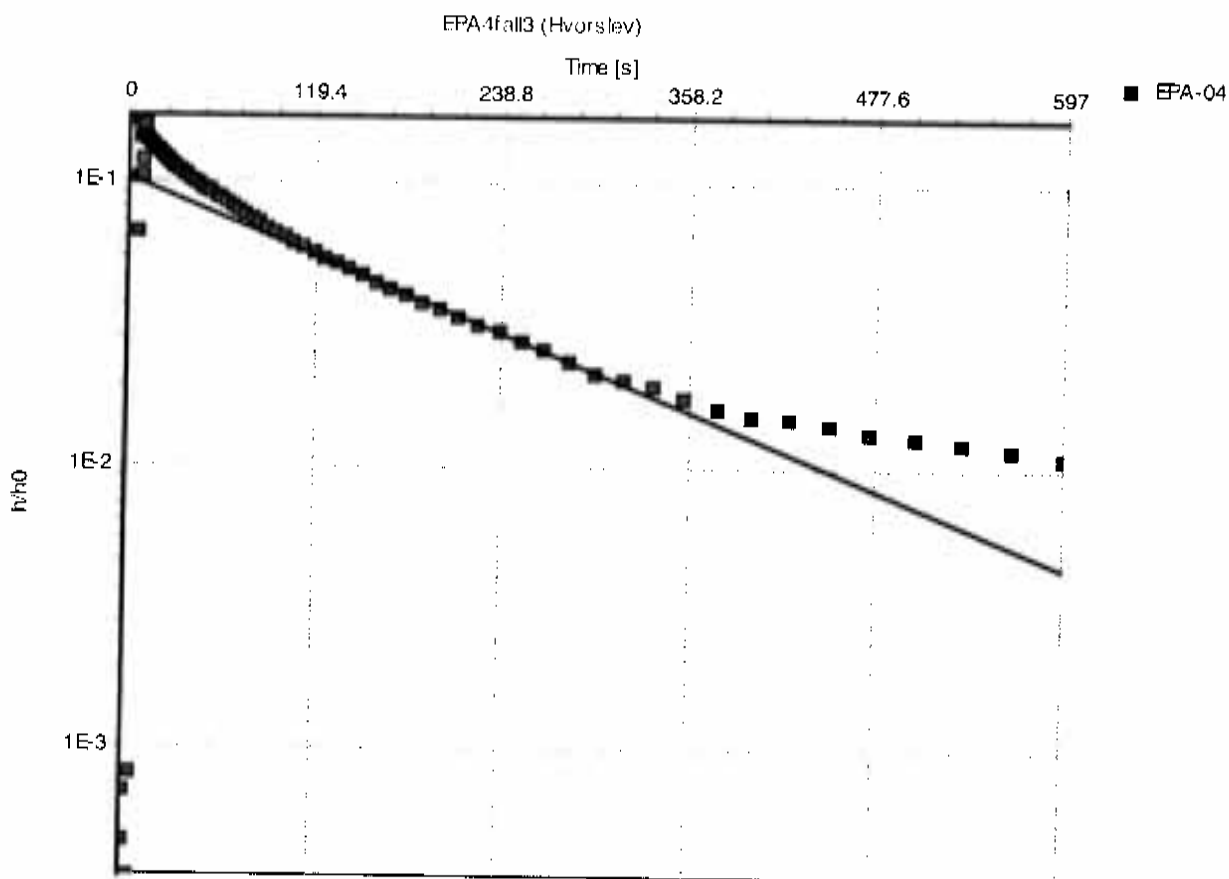
Date: 12/5/2008



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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA4fall3

Analysis method: Hvorslev

Analysis results:

Conductivity: 3.05E-4 [cm/s]

<u>Test parameters:</u>	Test well:	EPA-04	Aquifer thickness:	13.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



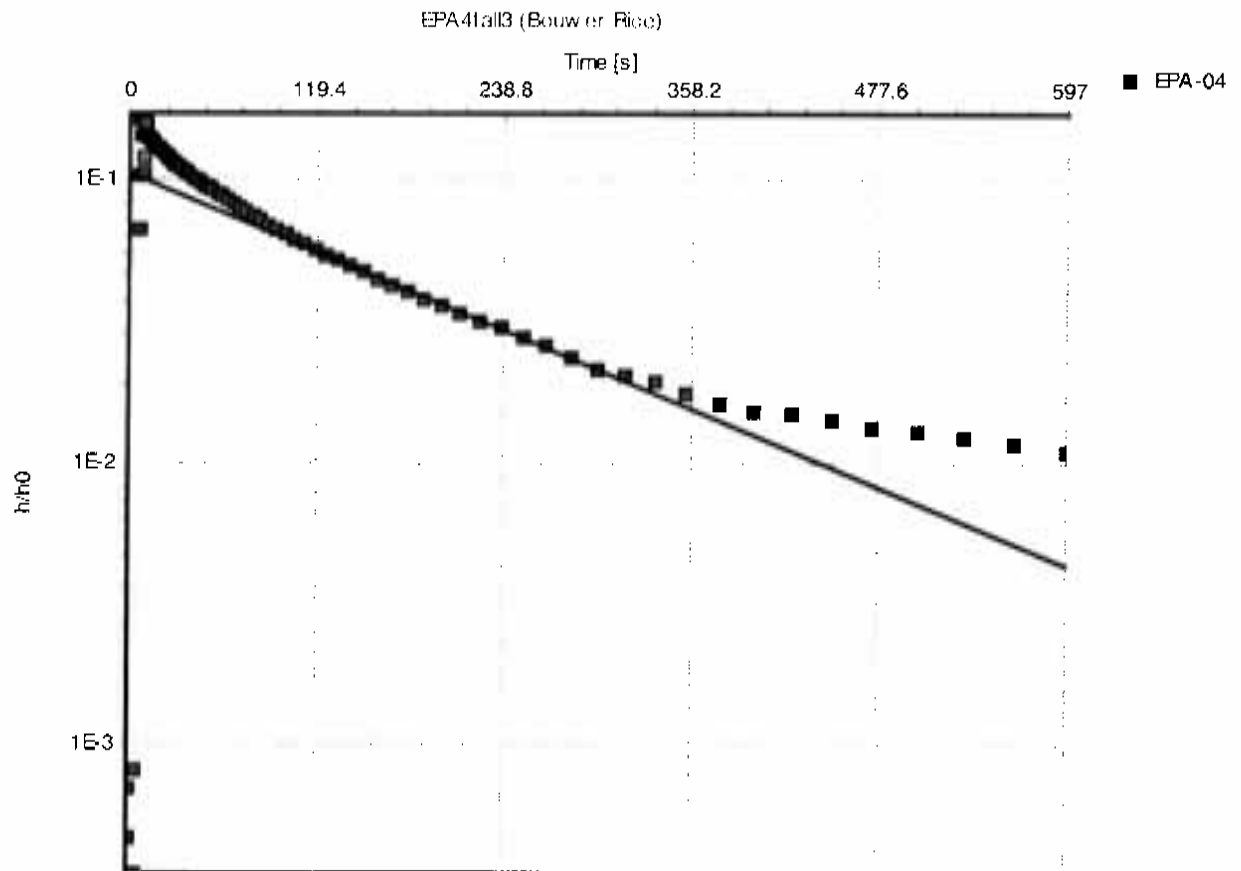
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA4fall3

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 2.95E-4 [cm/s]

<u>Test parameters:</u>	Test well:	EPA-04	Aquifer thickness:	13.5 [ft]
	Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		
	r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



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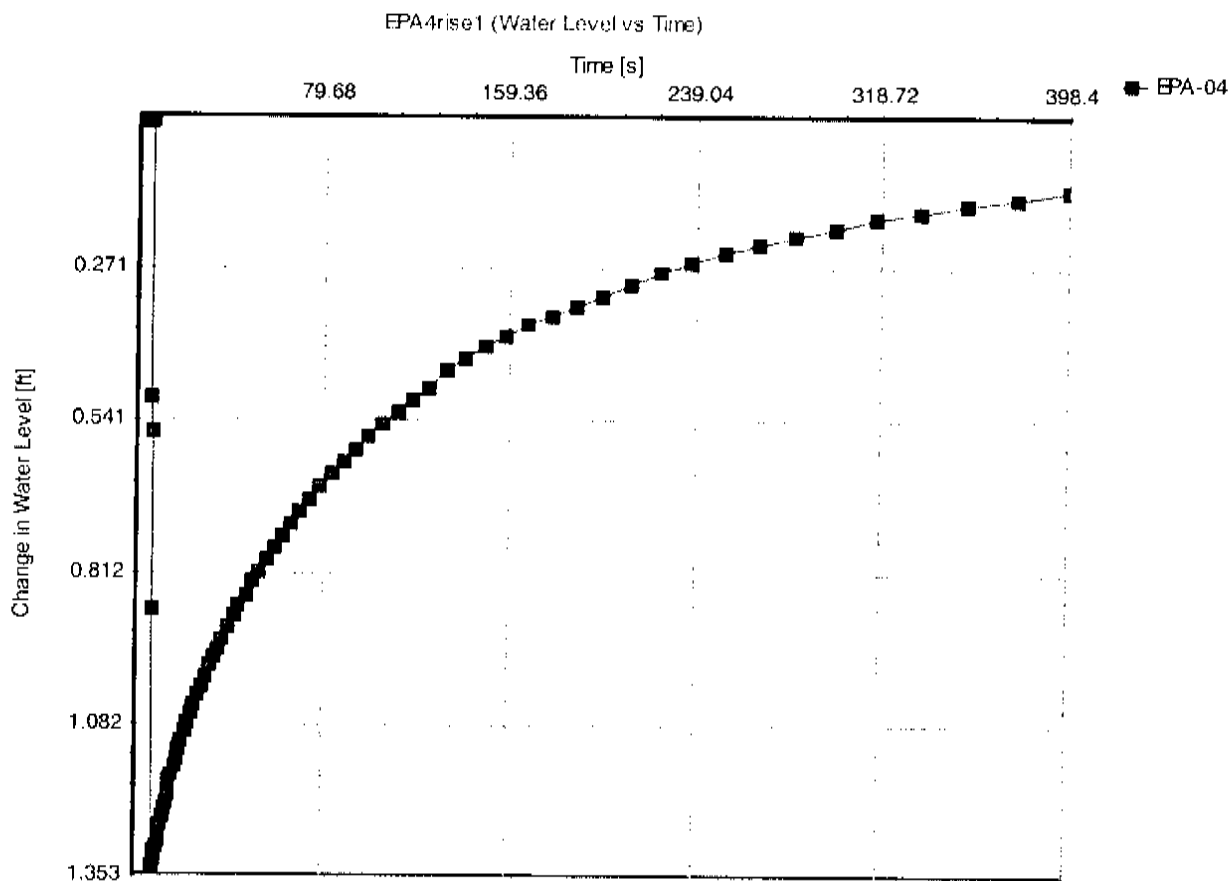
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA

Test name: EPA4rise1Analysis method: Water Level vs TimeAnalysis results:

<u>Test parameters:</u>	Test well:	EPA-04	Aquifer thickness:	13.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



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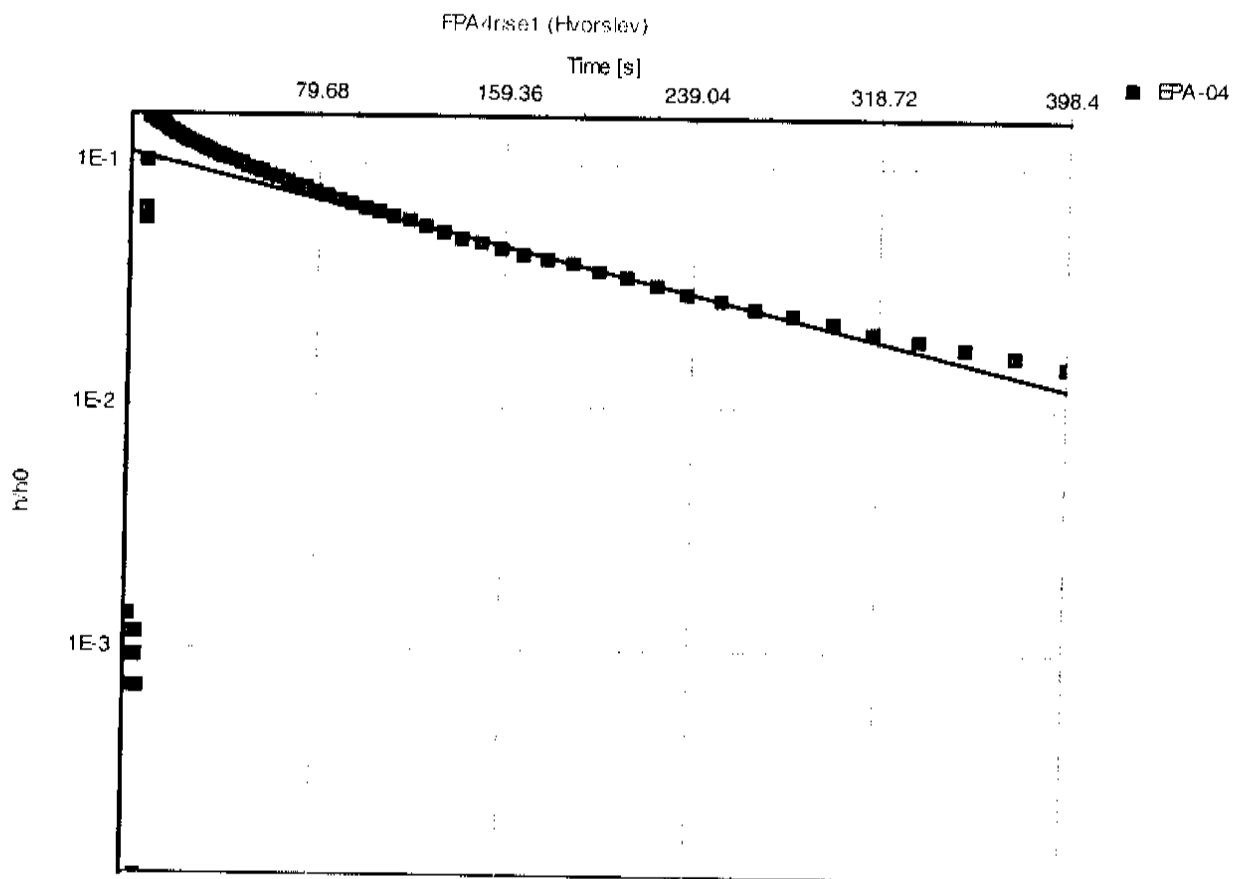
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA



Test name: EPA4rise1

Analysis method: Hvorslev

Analysis results:

Conductivity: 3.18E-4 [cm/s]

Test parameters:

Test well:	EPA-04	Aquifer thickness:	13.5 [ft]
Screen radius:	0.33333 [ft]		
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



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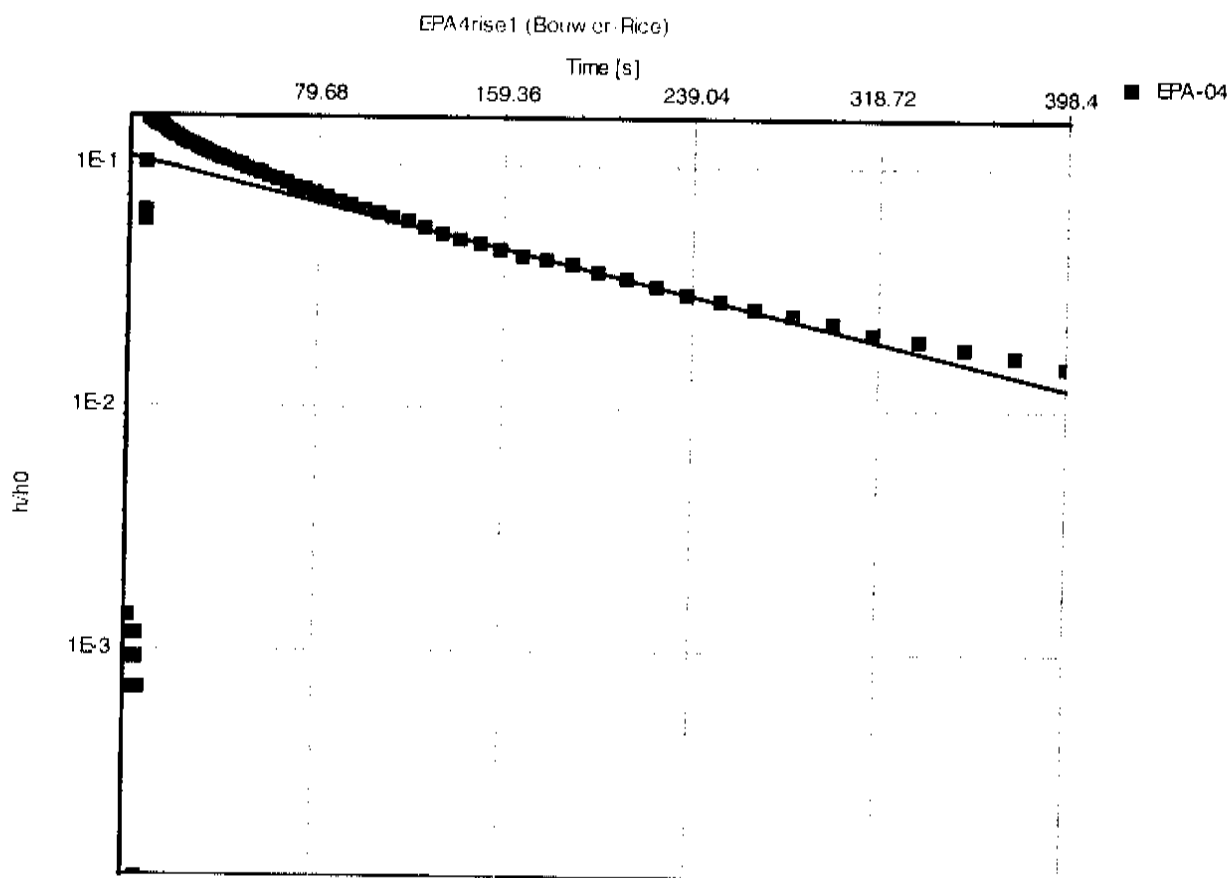
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA

Test name: EPA4rise1Analysis method: Bouwer-RiceAnalysis results:

Conductivity:

2.99E-4 [cm/s]

Test parameters:

Test well:

EPA-04

Aquifer thickness:

13.5 [ft]

Screen radius:

0.33333 [ft]

Gravel pack Porosity (%):

25

Screen length:

5 [ft]

Casing radius:

0.08333 [ft]

r(eff):

0.182 [ft]

Comments:

Evaluated by: MK

Date: 12/5/2008

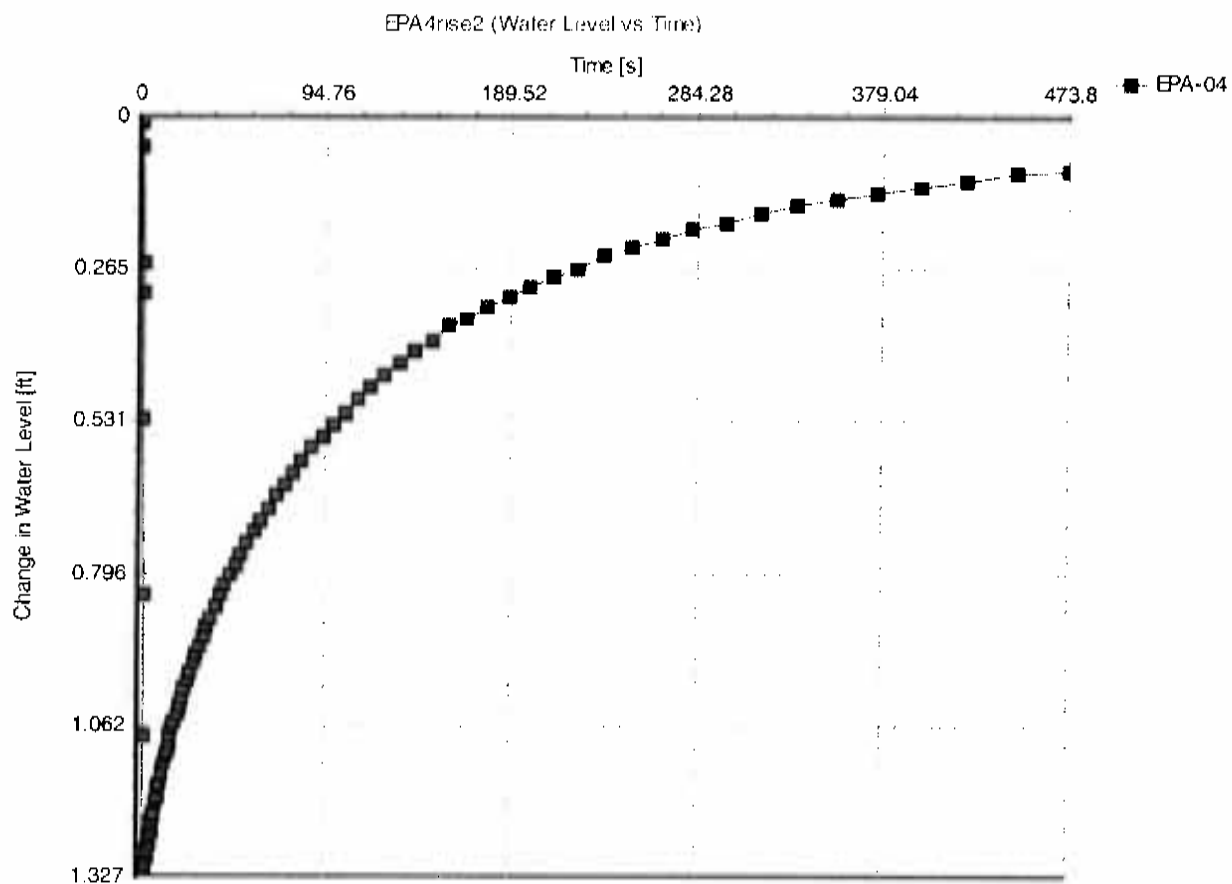


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Morris Plains, NJ 07950
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA4rise2

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-04	Aquifer thickness:	13.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



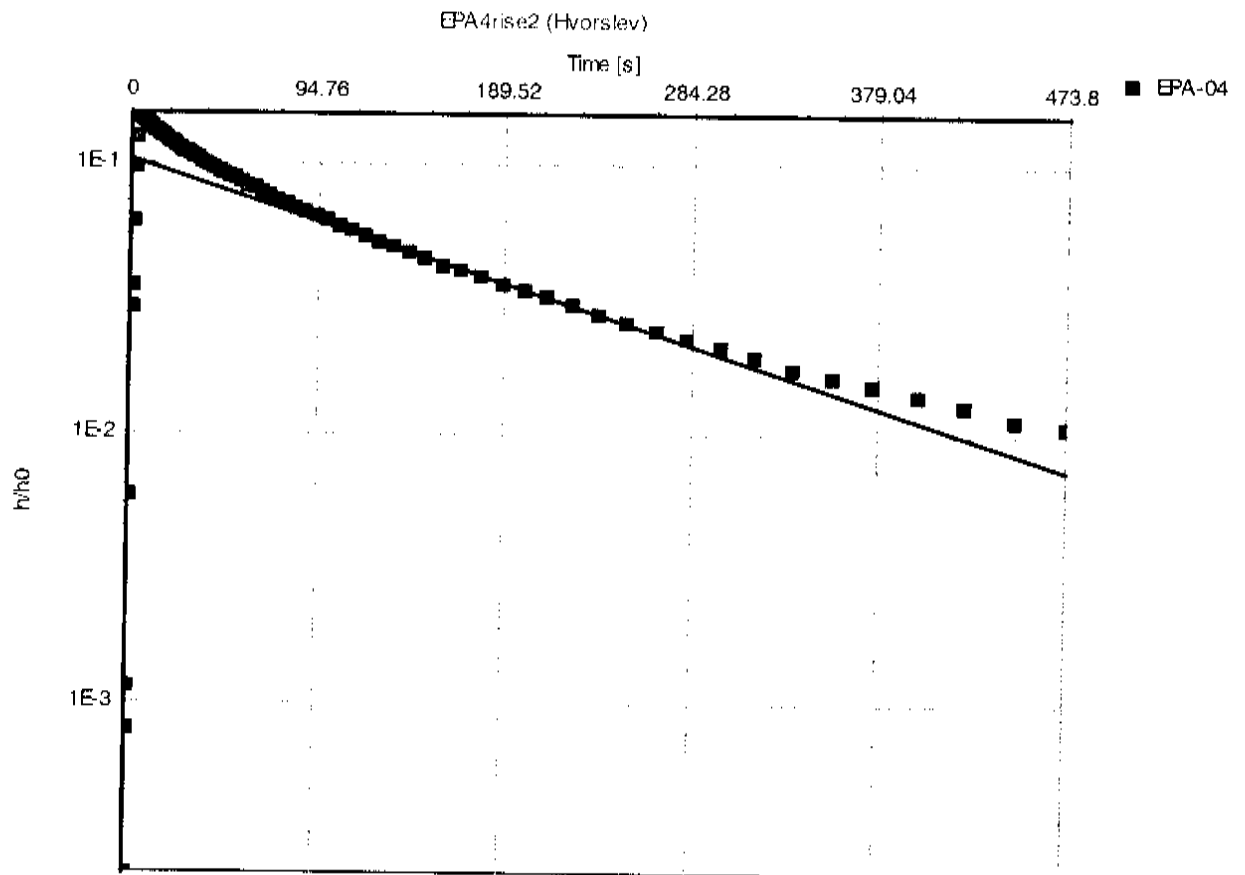
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973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA4rise2

Analysis method: Hvorslev

Analysis results:

Conductivity: 3.20E-4 [cm/s]

<u>Test parameters:</u>	Test well:	EPA-04	Aquifer thickness:	13.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



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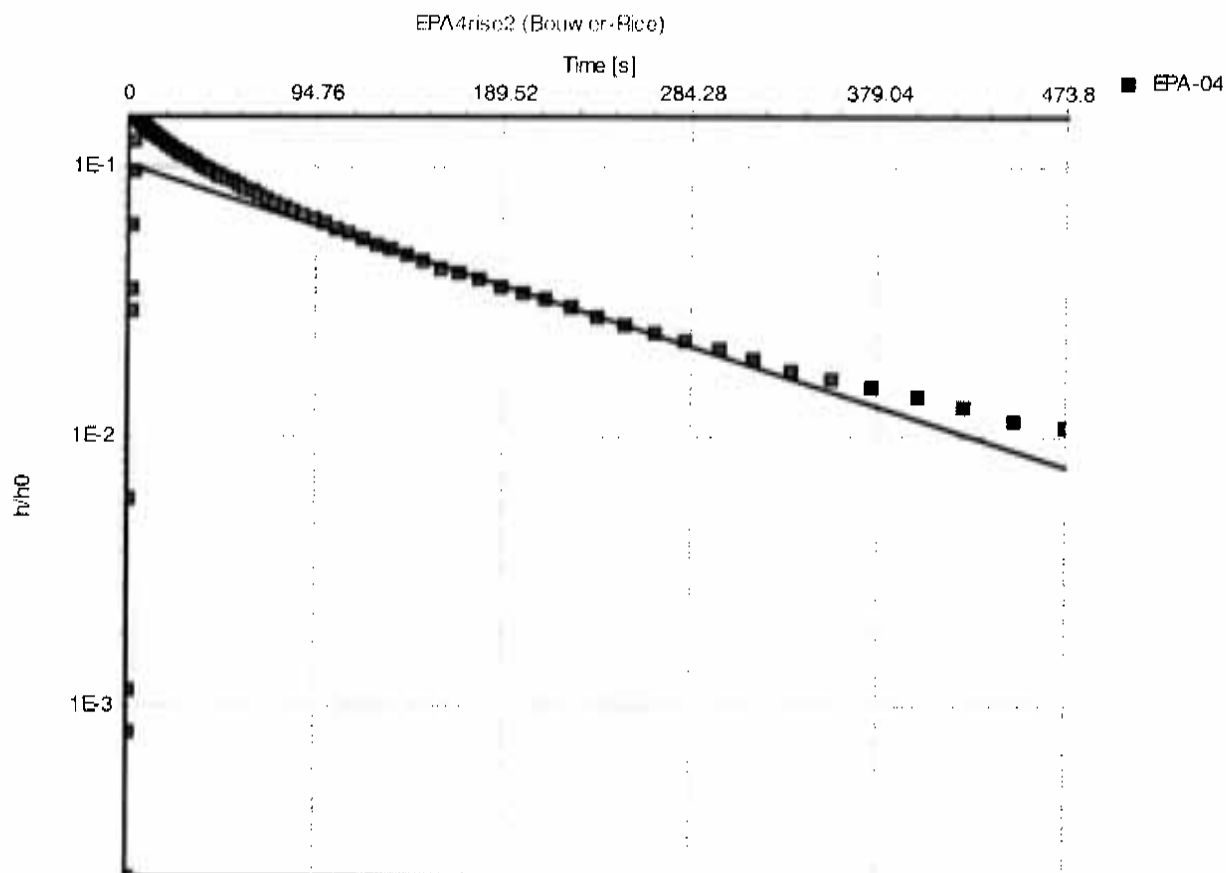
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA

Test name: EPA4rise2Analysis method: Bouwer-RiceAnalysis results:

Conductivity:

2.99E-4 [cm/s]

Test parameters:

Test well:

EPA-04

Aquifer thickness:

13.5 [ft]

Screen radius:

0.33333 [ft]

Gravel pack Porosity (%):

25

Screen length:

5 [ft]

Casing radius:

0.08333 [ft]

r(eff):

0.182 [ft]

Comments:

Evaluated by: MK

Date: 12/5/2008



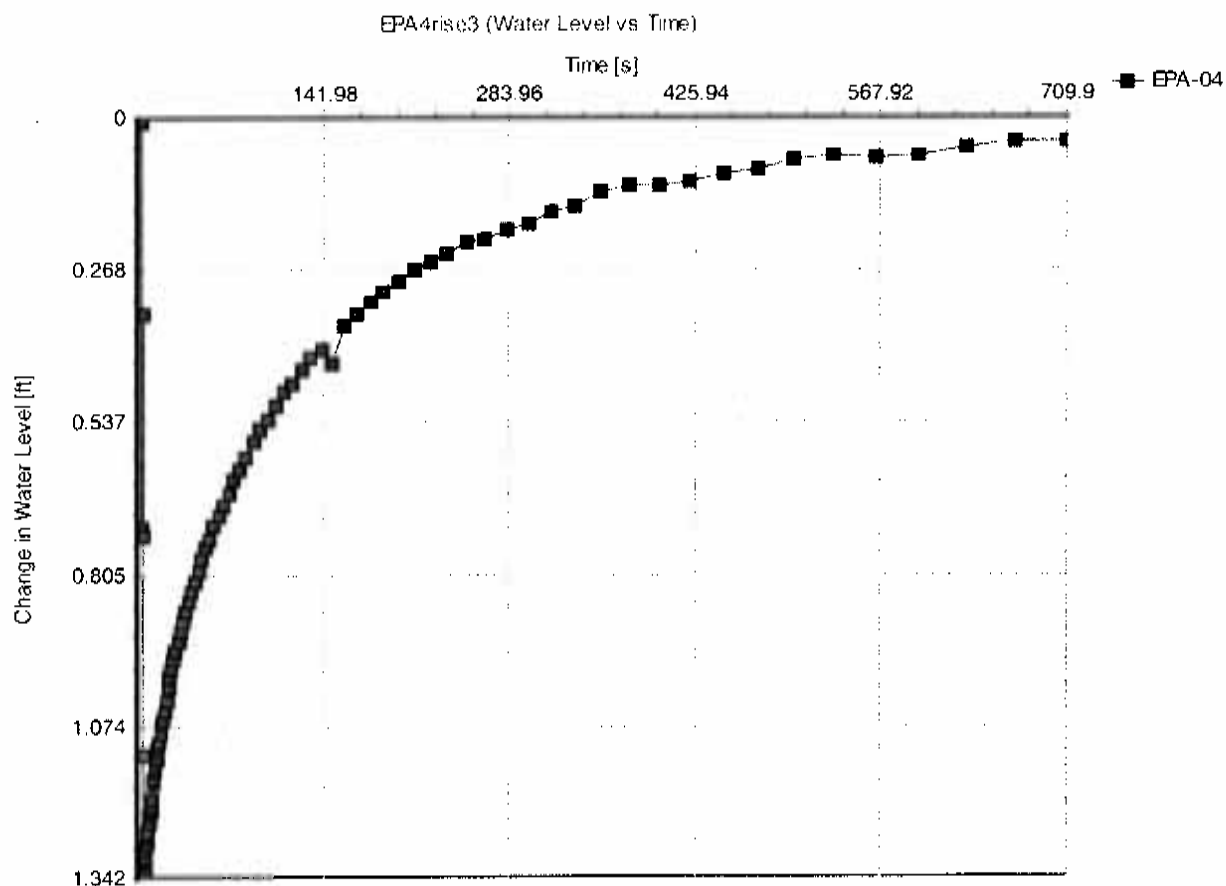
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA4rise3

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-04	Aquifer thickness:	13.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



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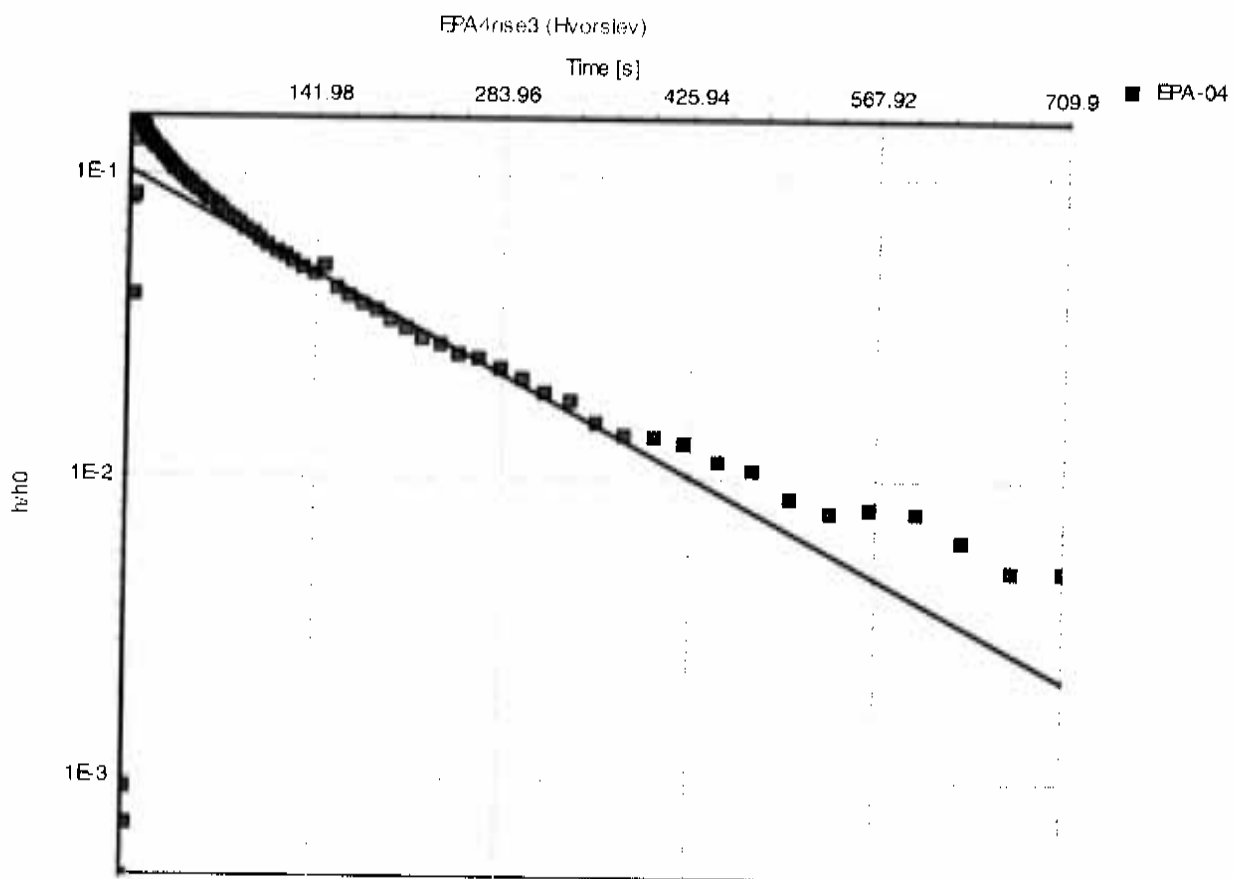
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA

Test name: EPA4rise3Analysis method: HvorslevAnalysis results:

Conductivity: 3.13E-4 [cm/s]

Test parameters:

Test well: EPA-04

Aquifer thickness: 13.5 [ft]

Screen radius: 0.33333 [ft]

Screen length: 5 [ft]

Casing radius: 0.08333 [ft]

Comments:

Evaluated by: MK

Date: 12/5/2008

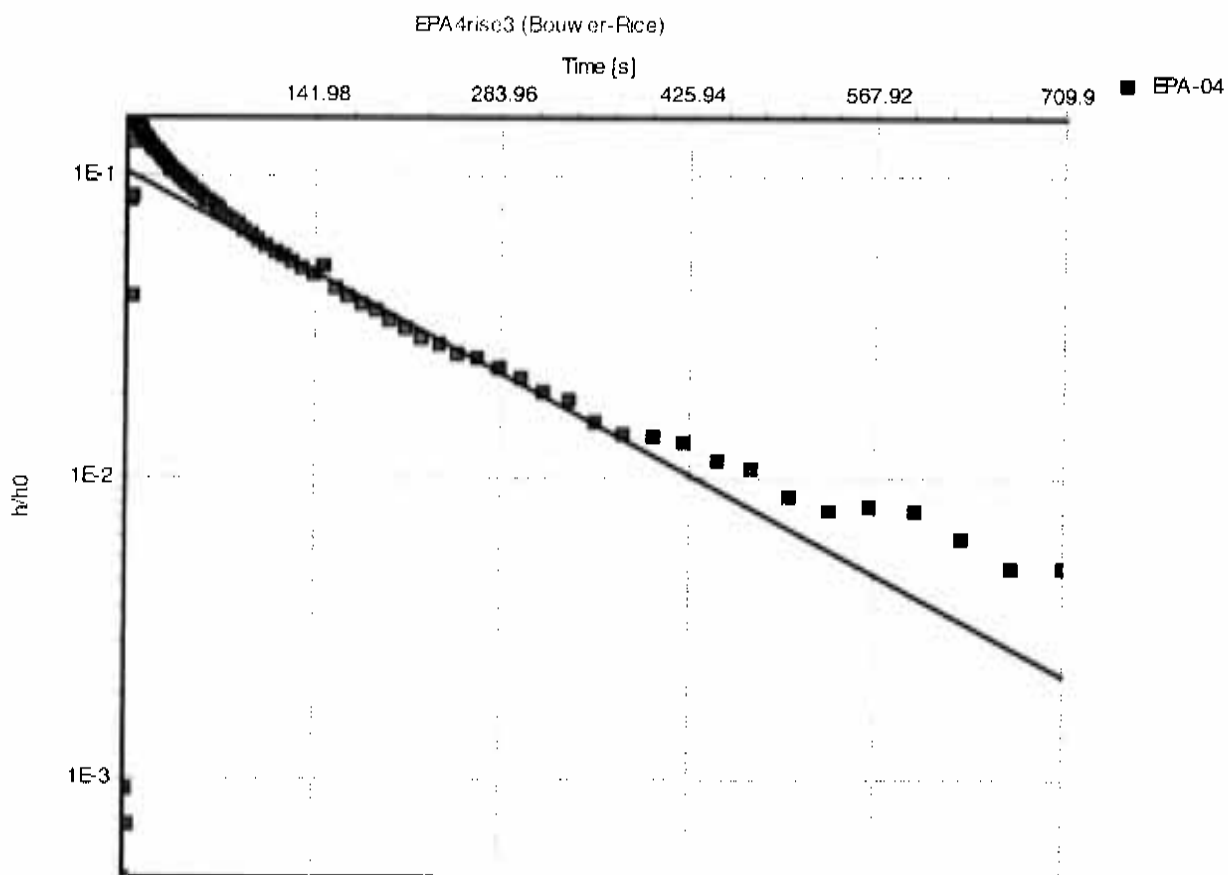


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA4rise3

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 2.97E-4 [cm/s]

Test parameters:

Test well:	EPA-04	Aquifer thickness:	13.5 [ft]
Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		
r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

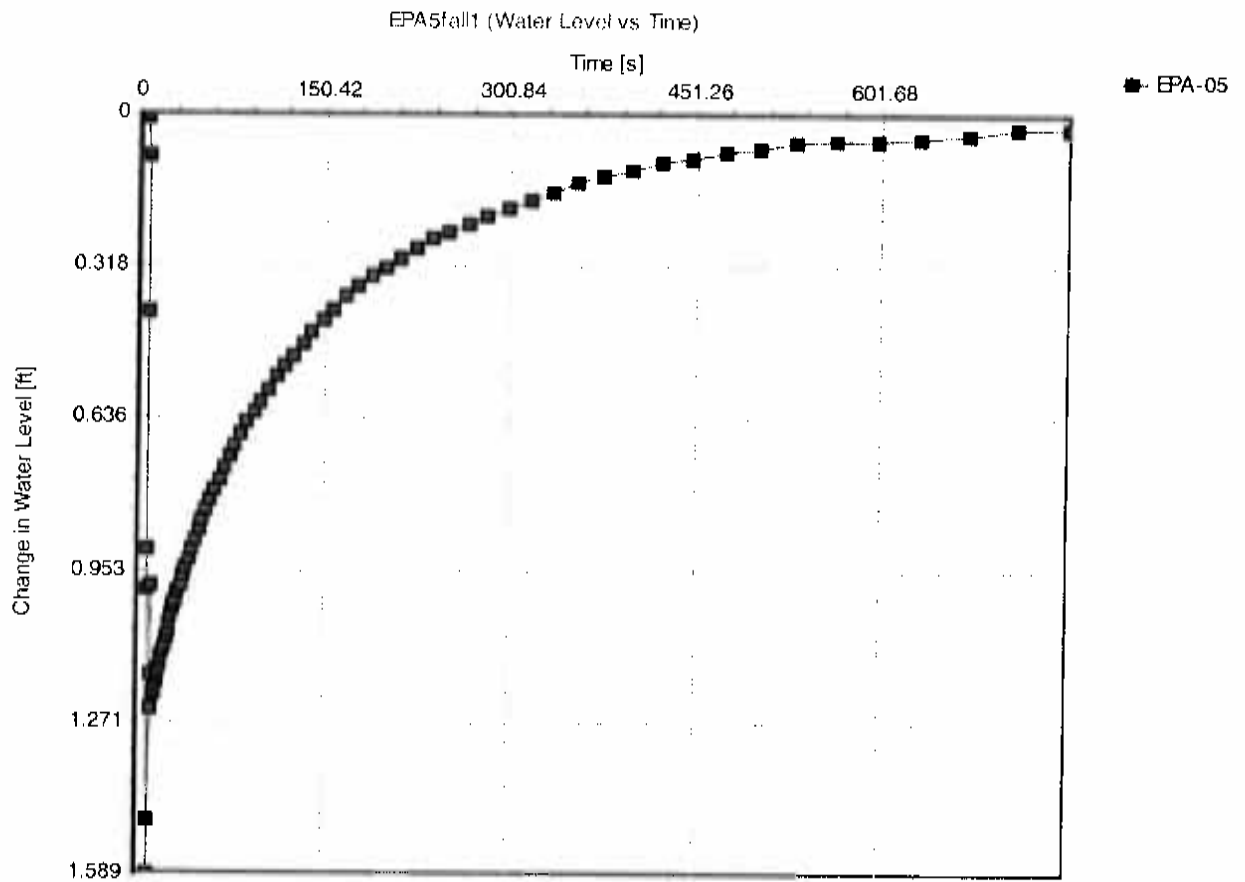
Date: 12/5/2008



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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA5fall1

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-05	Aquifer thickness:	14.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK
Date: 12/5/2008



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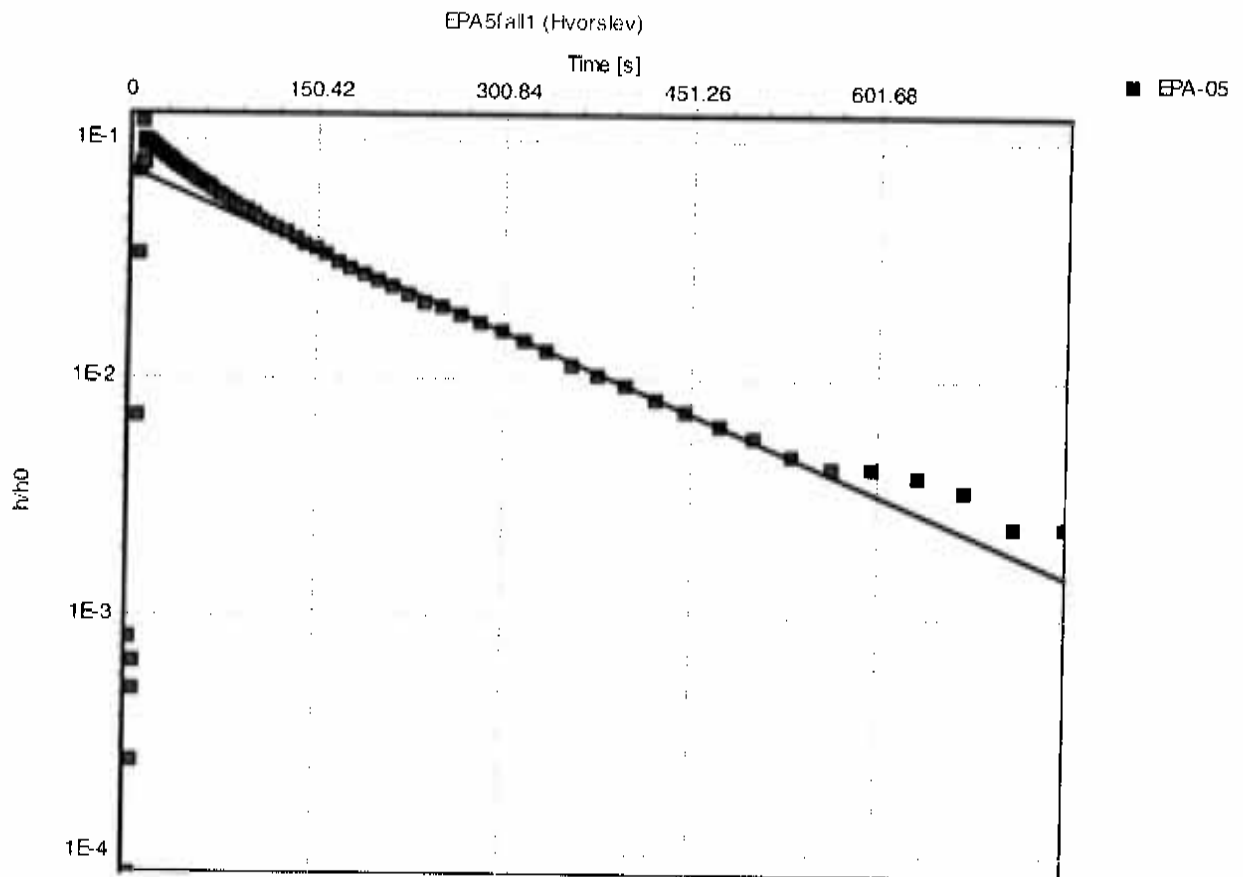
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA



Test name: EPA5fall1

Analysis method: Hvorslev

Analysis results:

Conductivity: 2.98E-4 [cm/s]

Test parameters:

Test well: EPA-05

Aquifer thickness: 14.5 [ft]

Screen radius: 0.33333 [ft]

Screen length: 5 [ft]

Casing radius: 0.08333 [ft]

Comments:

Evaluated by: MK

Date: 12/5/2008

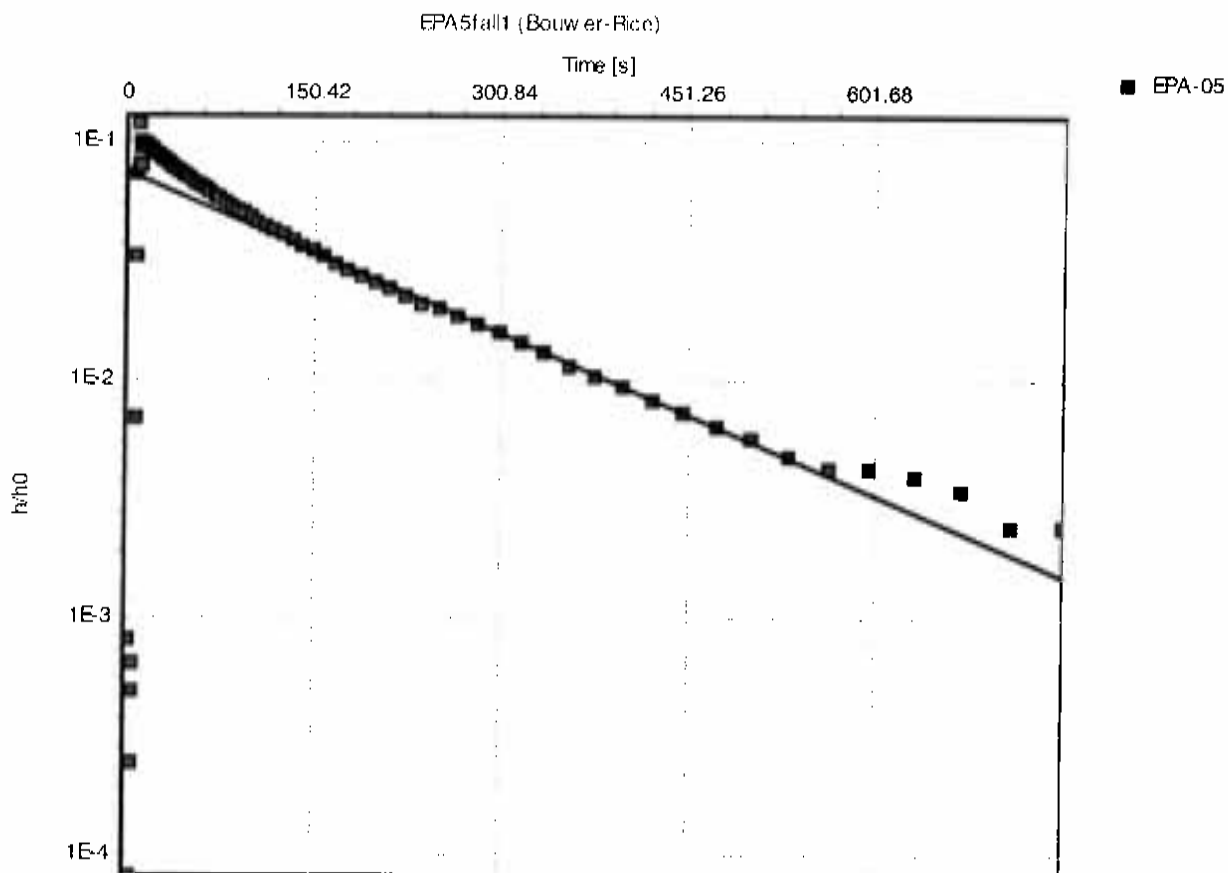


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA5fall1

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 2.89E-4 [cm/s]

<u>Test parameters:</u>	Test well:	EPA-05	Aquifer thickness:	14.5 [ft]
	Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		
	r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008

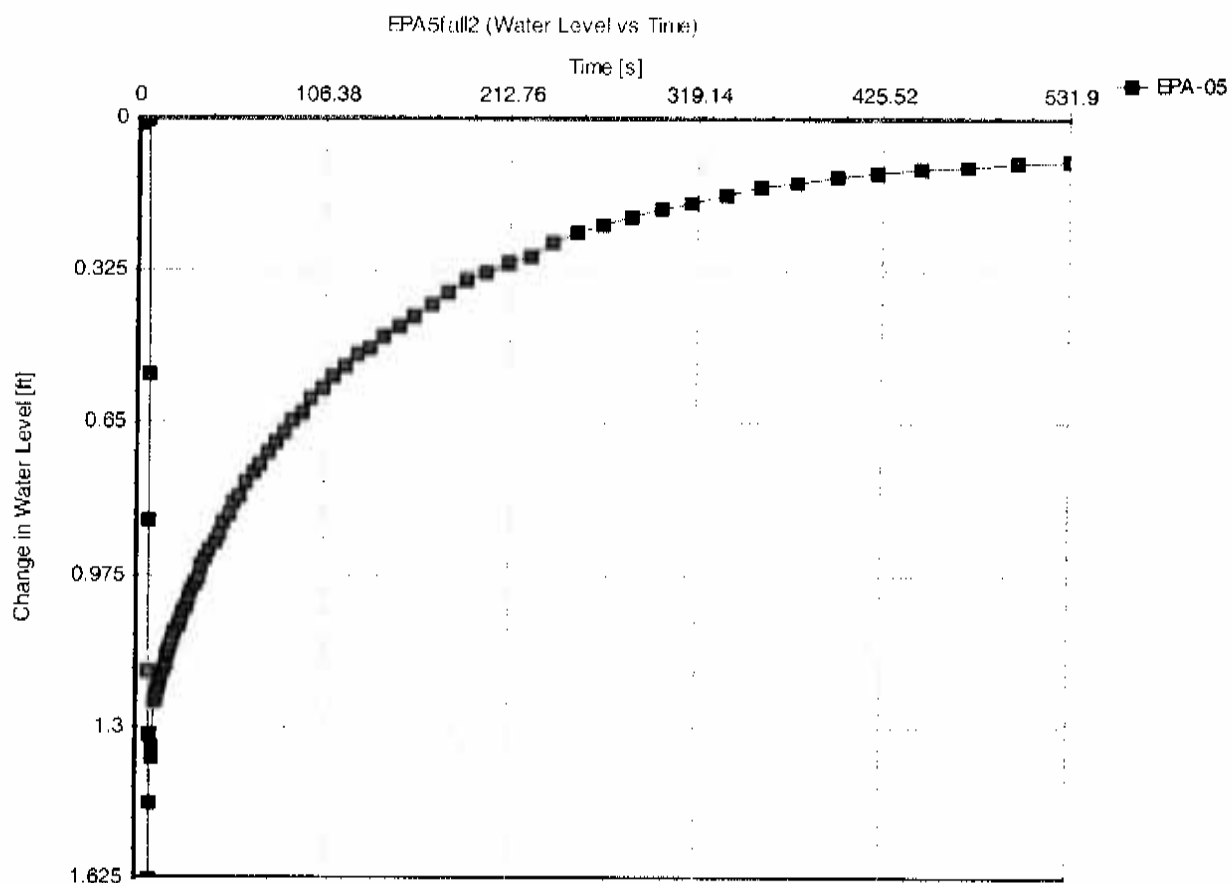


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA5fall2

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-05	Aquifer thickness:	14.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



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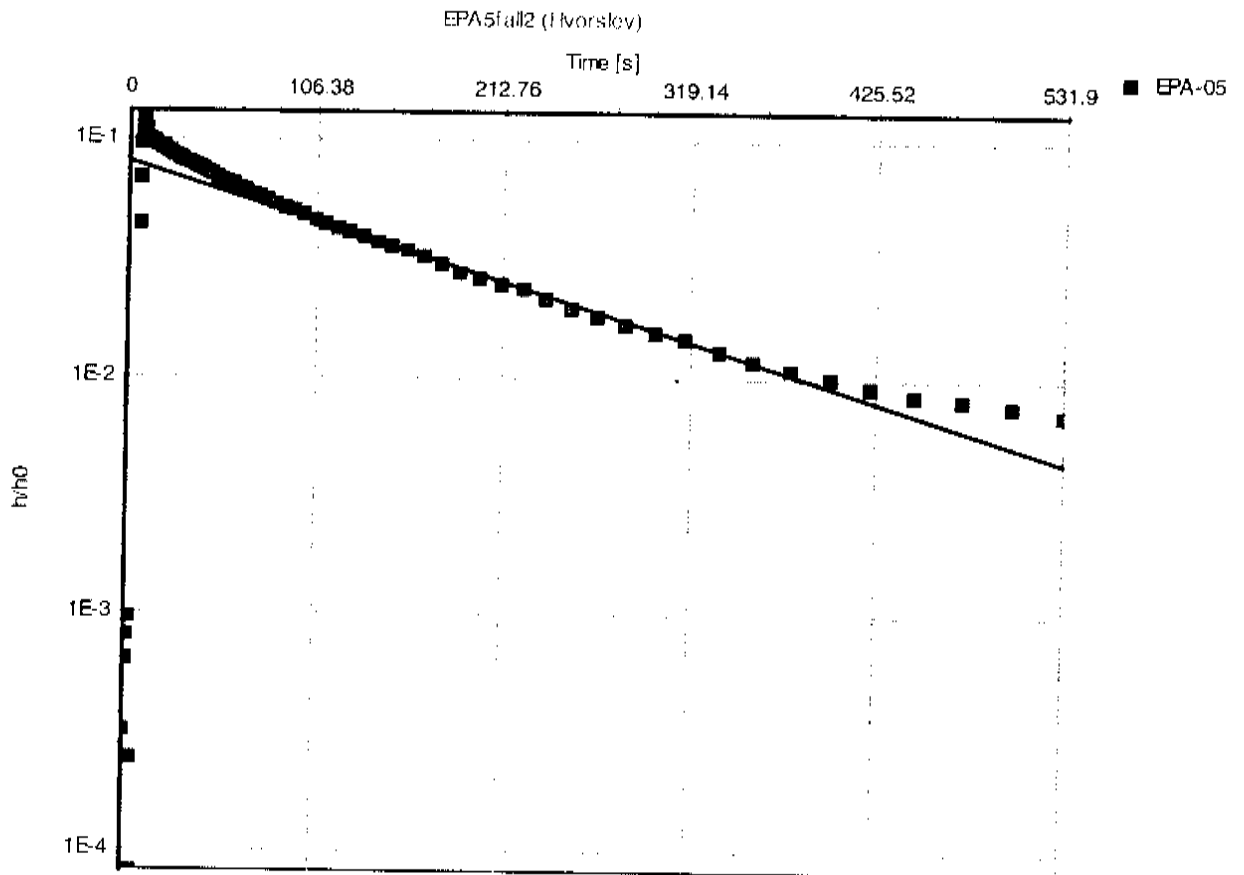
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA

Test name: EPA5fall2Analysis method: HvorslevAnalysis results:

Conductivity: 3.14E-4 [cm/s]

Test parameters:

Test well:

EPA-05

Aquifer thickness:

14.5 [ft]

Screen radius:

0.33333 [ft]

Screen length:

5 [ft]

Casing radius:

0.08333 [ft]

Comments:

Evaluated by: MK

Date: 12/5/2008



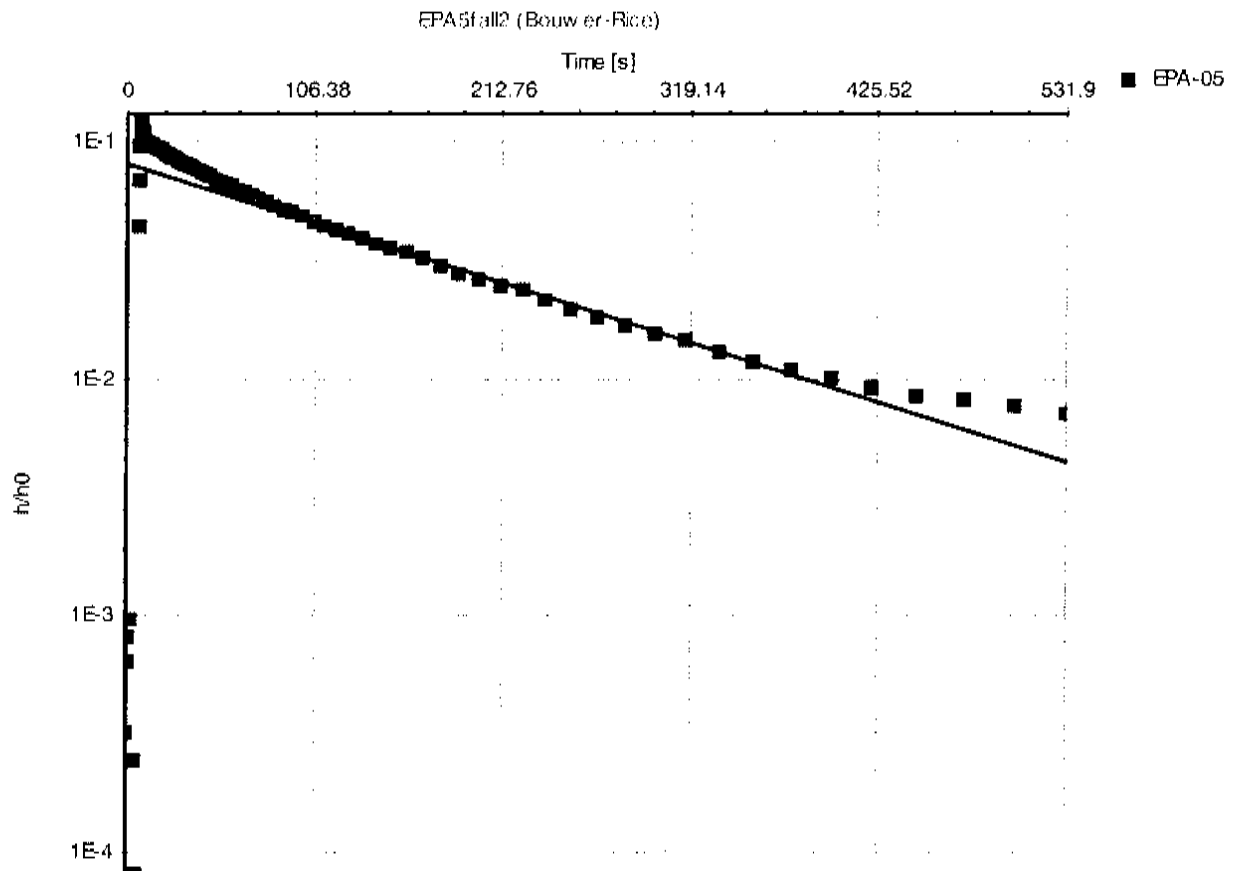
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA5fall2

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 3.04E-4 [cm/s]

Test parameters:

Test well: EPA-05

Aquifer thickness: 14.5 [ft]

Screen radius: 0.33333 [ft]

Gravel pack Porosity (%) 25

Screen length: 5 [ft]

Casing radius: 0.08333 [ft]

r(eff): 0.182 [ft]

Comments:

Evaluated by: MK

Date: 12/5/2008

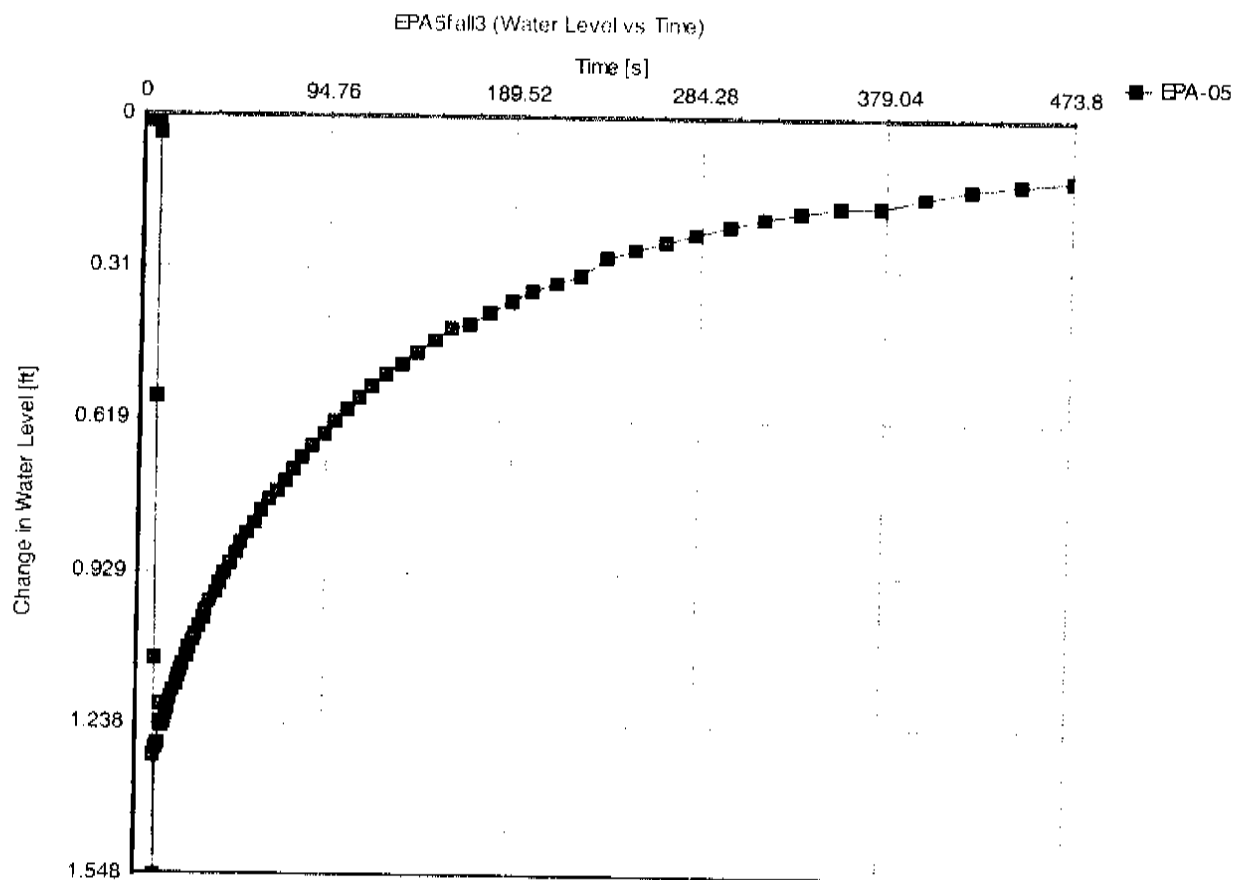


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA5fall3

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-05	Aquifer thickness:	14.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK
Date: 12/5/2008

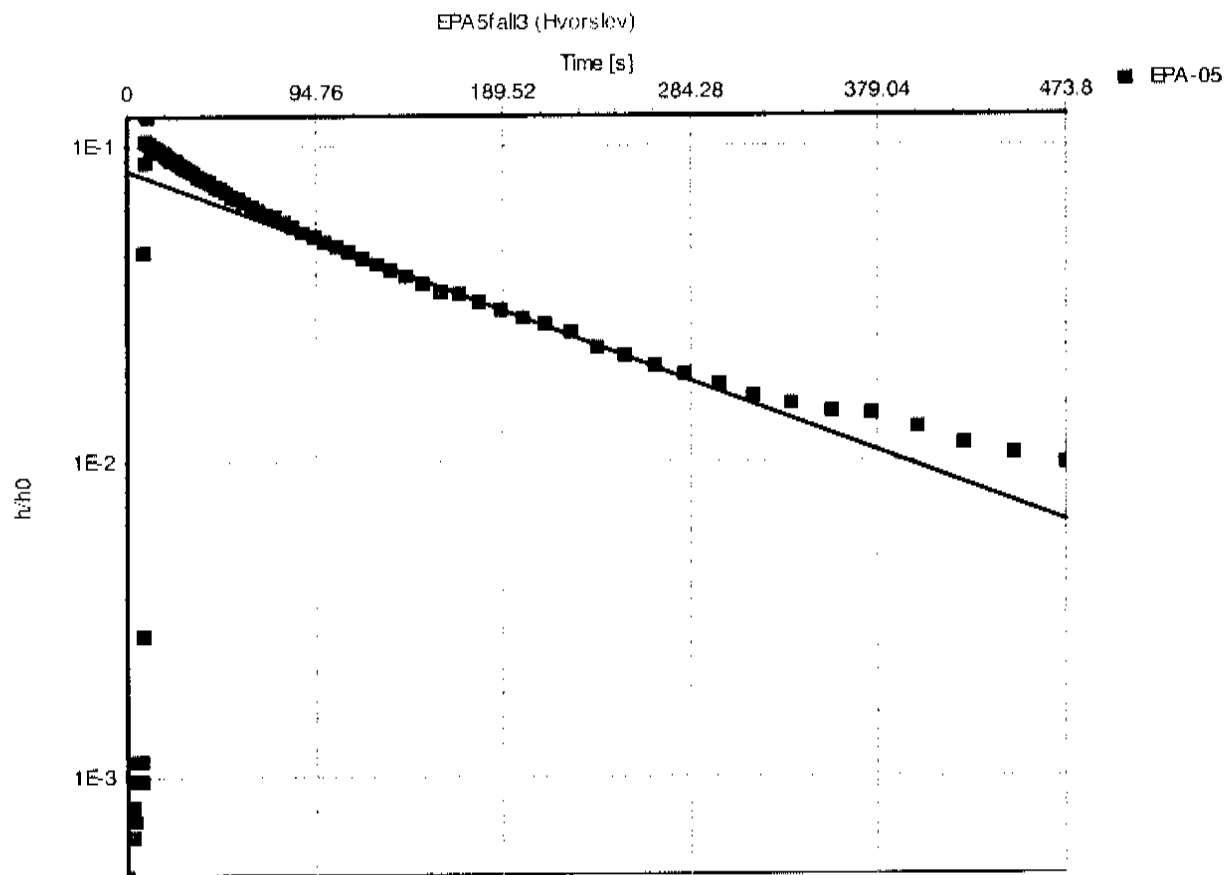


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA5fall3

Analysis method: Hvorslev

Analysis results:

Conductivity: 3.11E-4 [cm/s]

Test parameters:

Test well: EPA-05

Aquifer thickness: 14.5 [ft]

Screen radius: 0.33333 [ft]

Screen length: 5 [ft]

Casing radius: 0.08333 [ft]

Comments:

Evaluated by: MK

Date: 12/5/2008



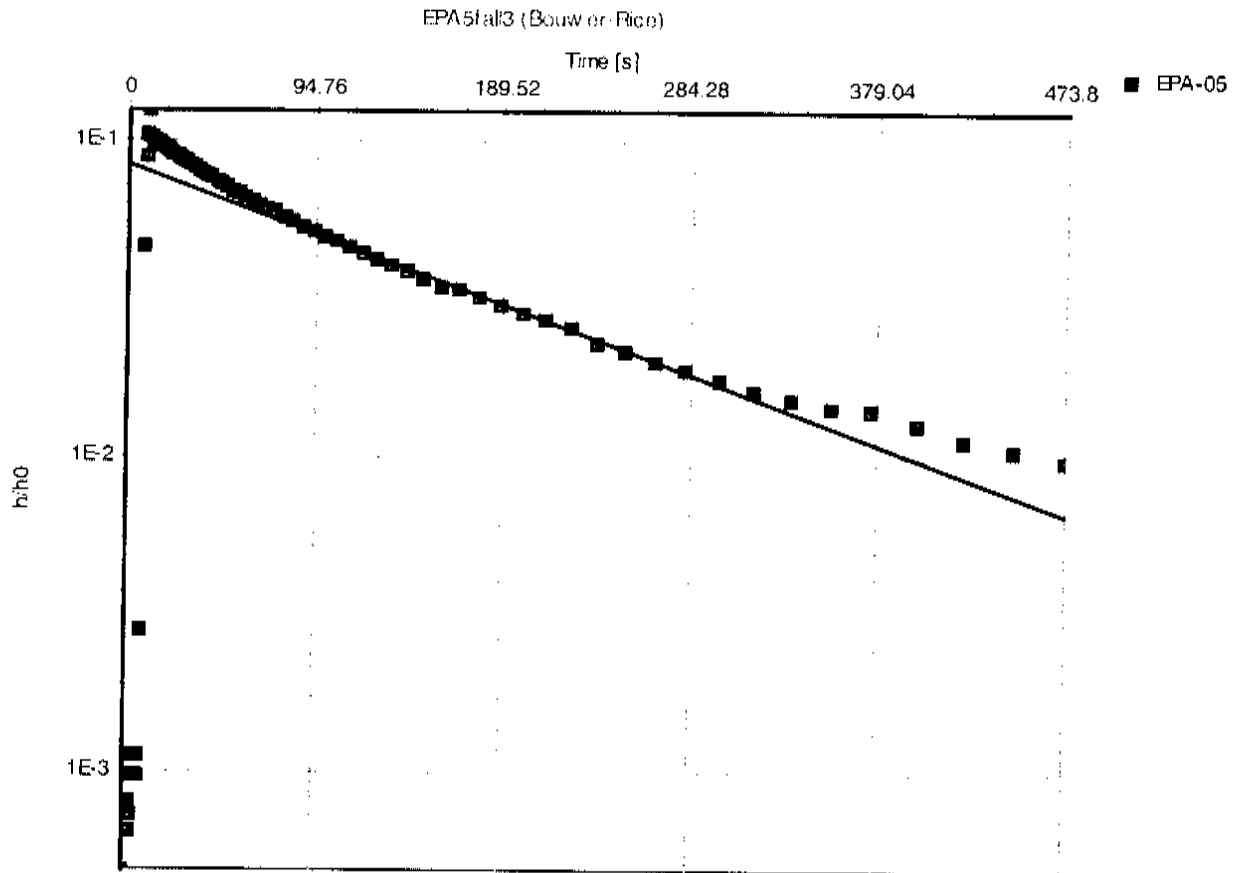
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA5fall3

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 2.99E-4 [cm/s]

<u>Test parameters:</u>	Test well:	EPA-05	Aquifer thickness:	14.5 [ft]
	Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		
	r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



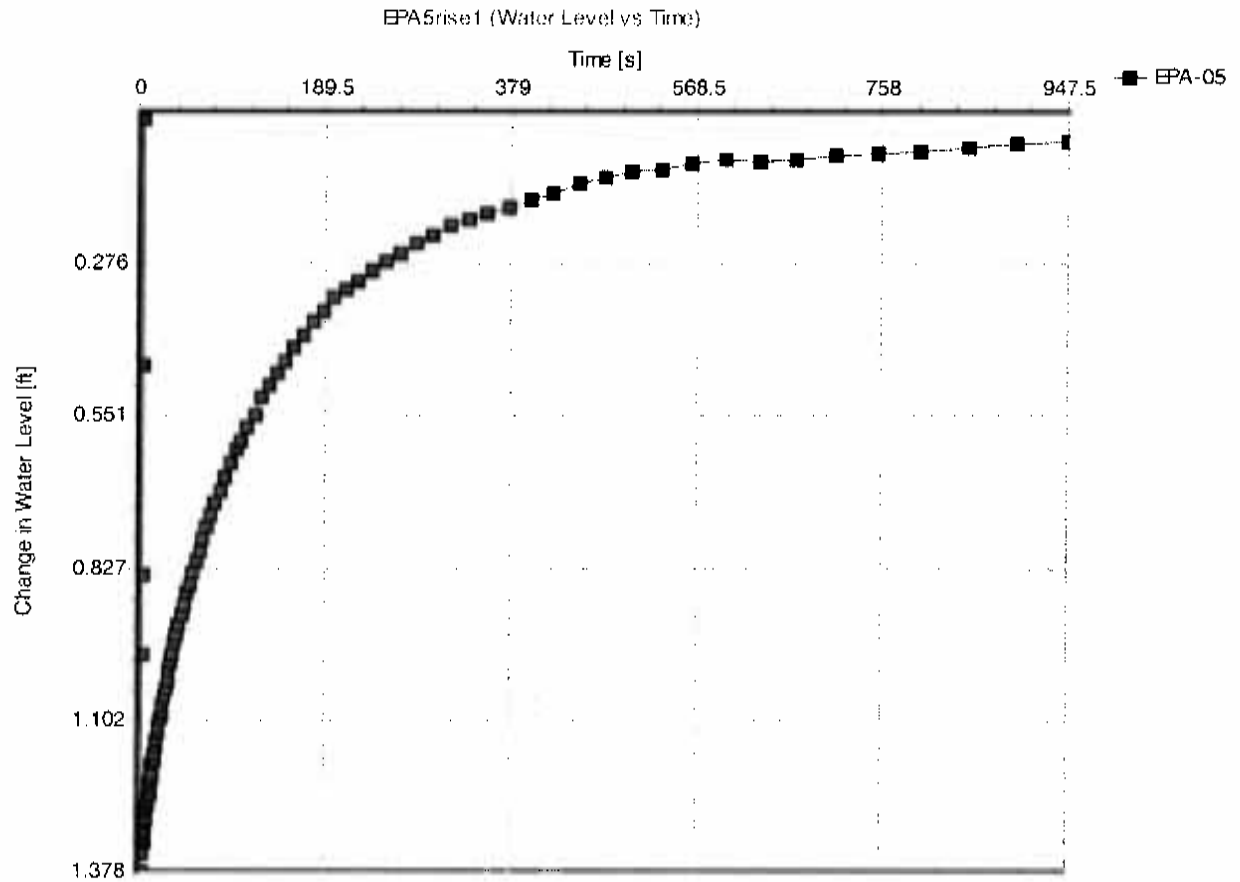
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA5rise1

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-05	Aquifer thickness:	14.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



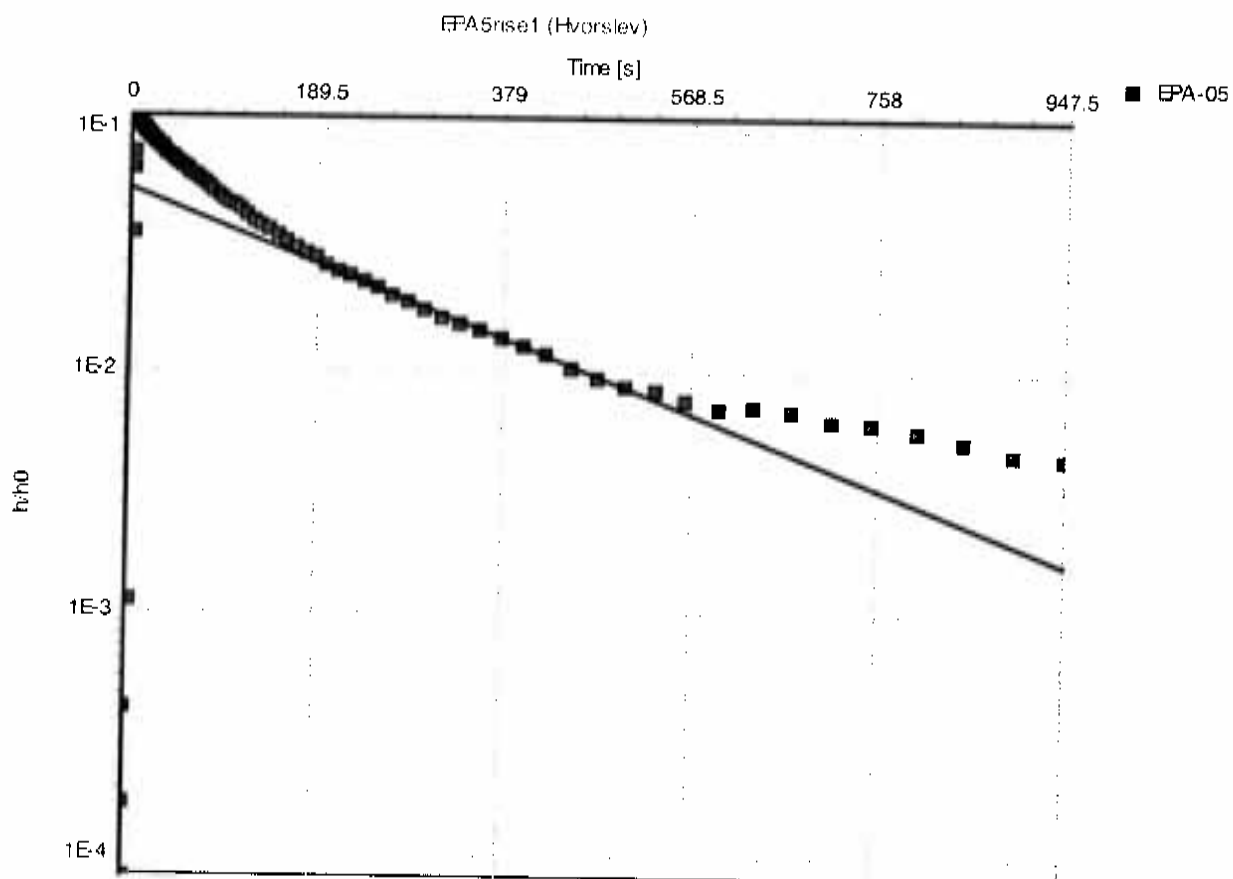
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA5rise1

Analysis method: Hvorslev

Analysis results:

Conductivity: 2.15E-4 [cm/s]

Test parameters:

Test well:	EPA-05	Aquifer thickness:	14.5 [ft]
Screen radius:	0.33333 [ft]		
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/6/2008



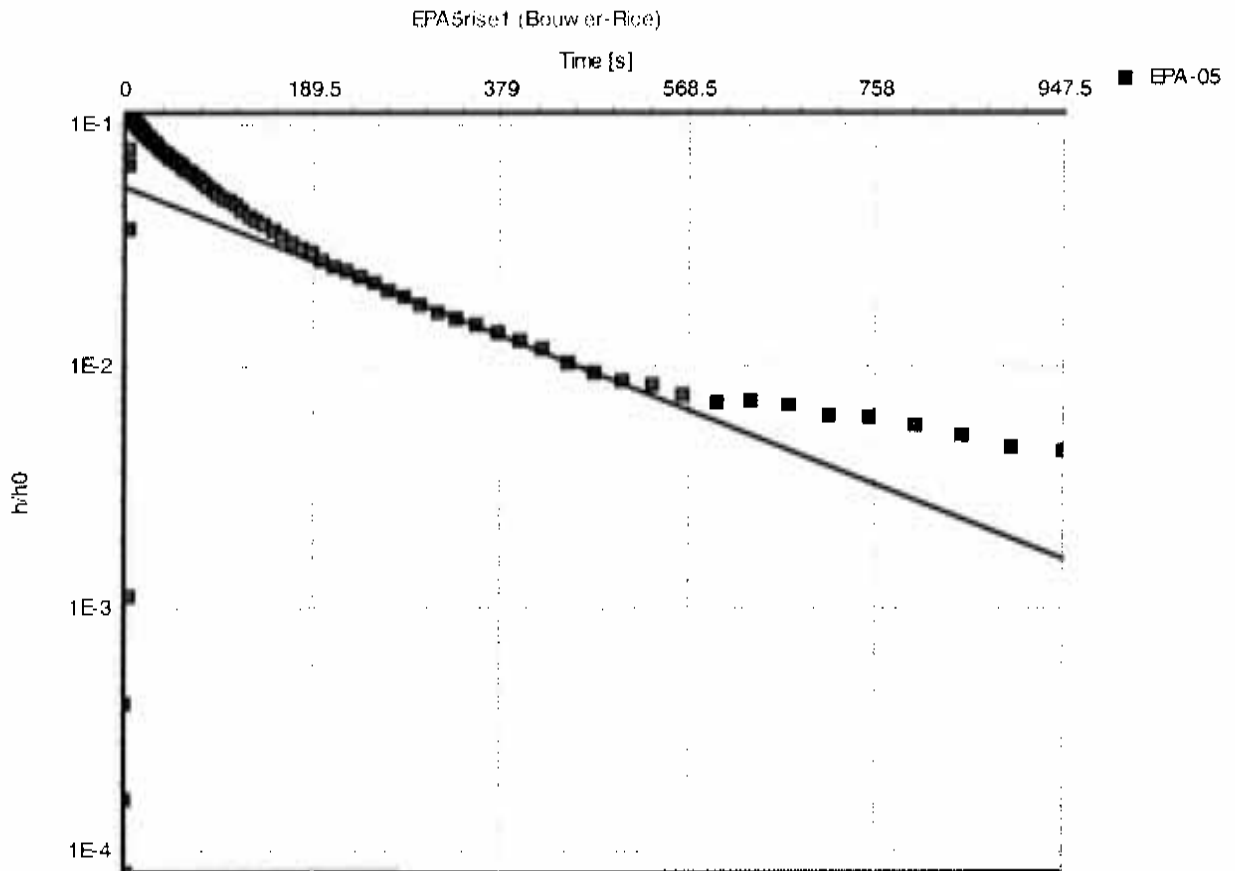
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA5rise1

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 2.08E-4 [cm/s]

<u>Test parameters:</u>	Test well:	EPA-05	Aquifer thickness:	14.5 [ft]
	Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		
	r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



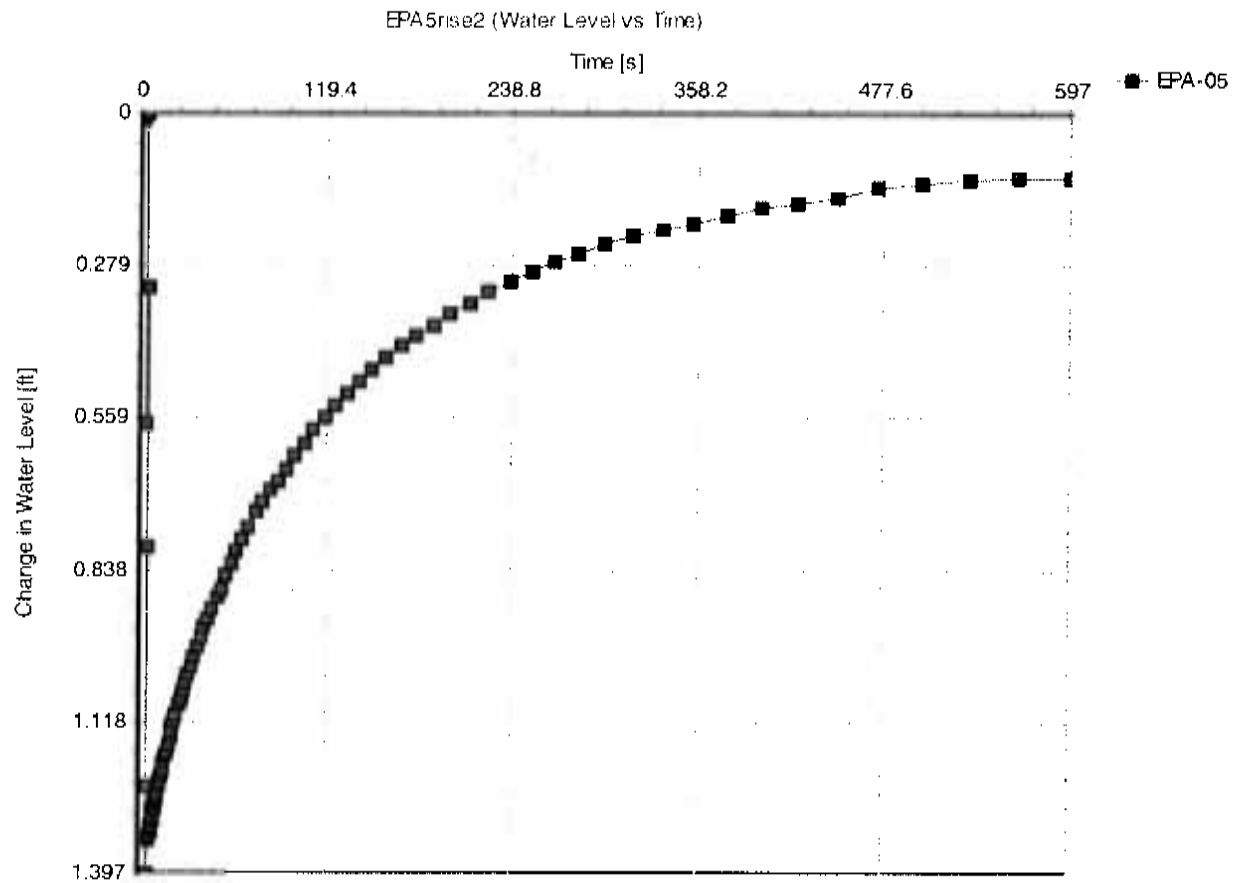
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA5rise2

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-05	Aquifer thickness:	14.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



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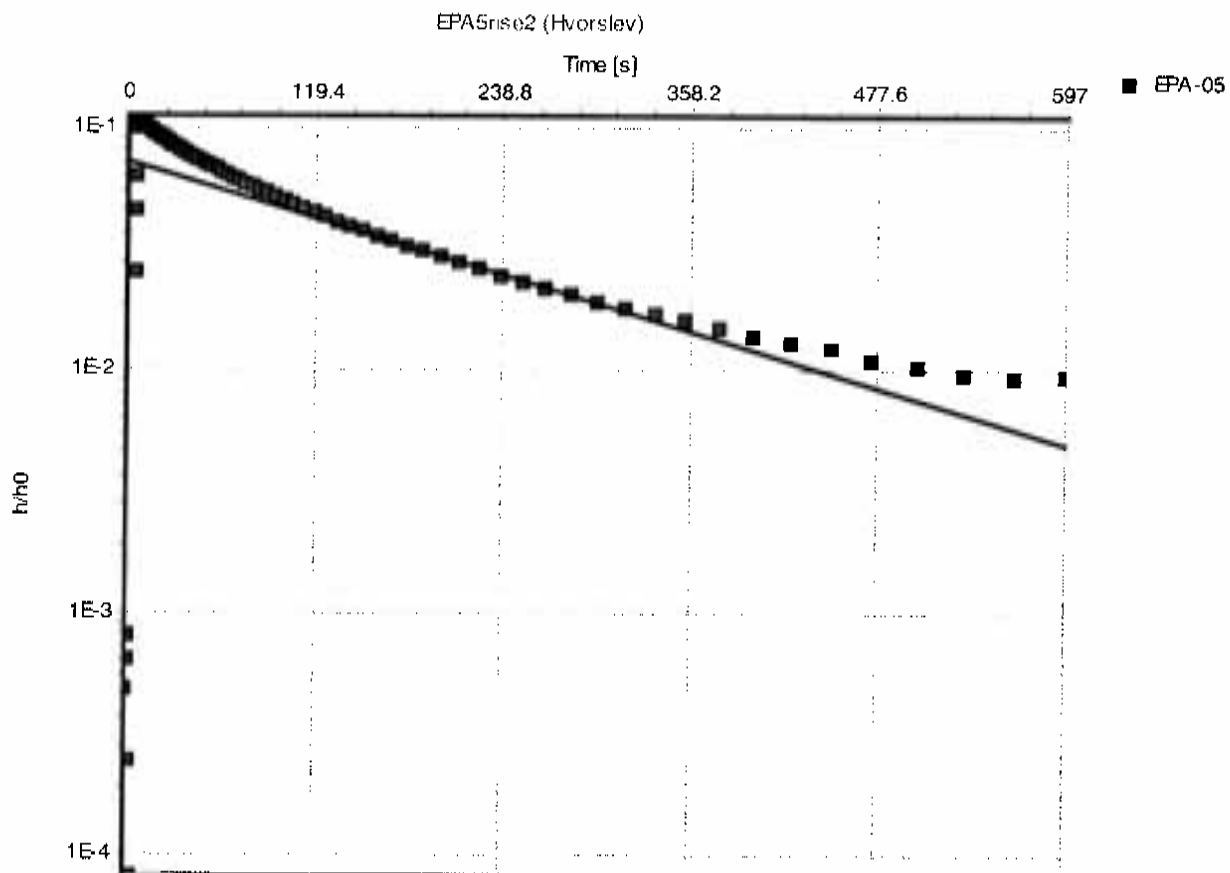
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA

Test name: EPA5rise2Analysis method: HvorslevAnalysis results:

Conductivity: 2.59E-4 [cm/s]

Test parameters:

Test well: EPA-05

Aquifer thickness: 14.5 [ft]

Screen radius: 0.33333 [ft]

Screen length: 5 [ft]

Casing radius: 0.08333 [ft]

Comments:

Evaluated by: MK

Date: 12/5/2008



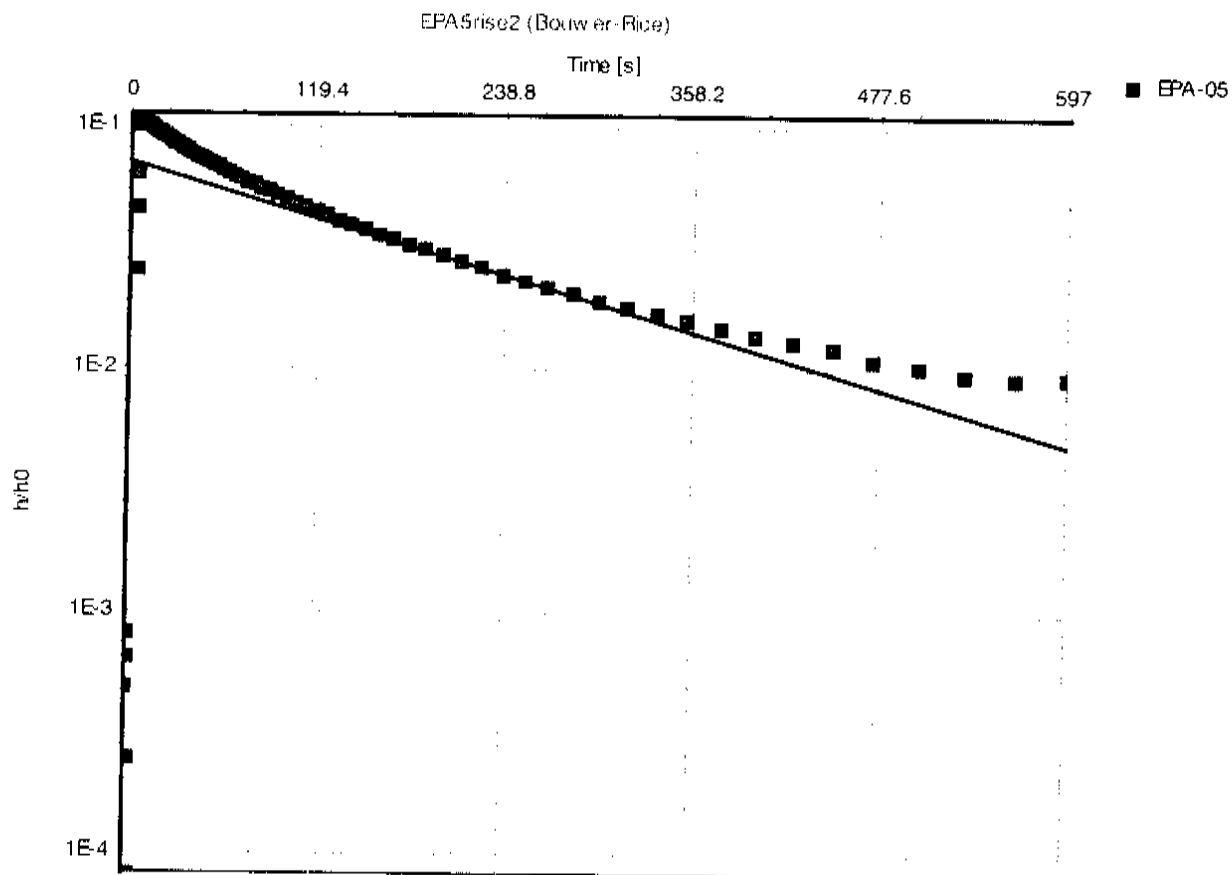
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA5rise2

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 2.50E-4 [cm/s]

Test parameters:

Test well:	EPA-05	Aquifer thickness:	14.5 [ft]
Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		
r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008

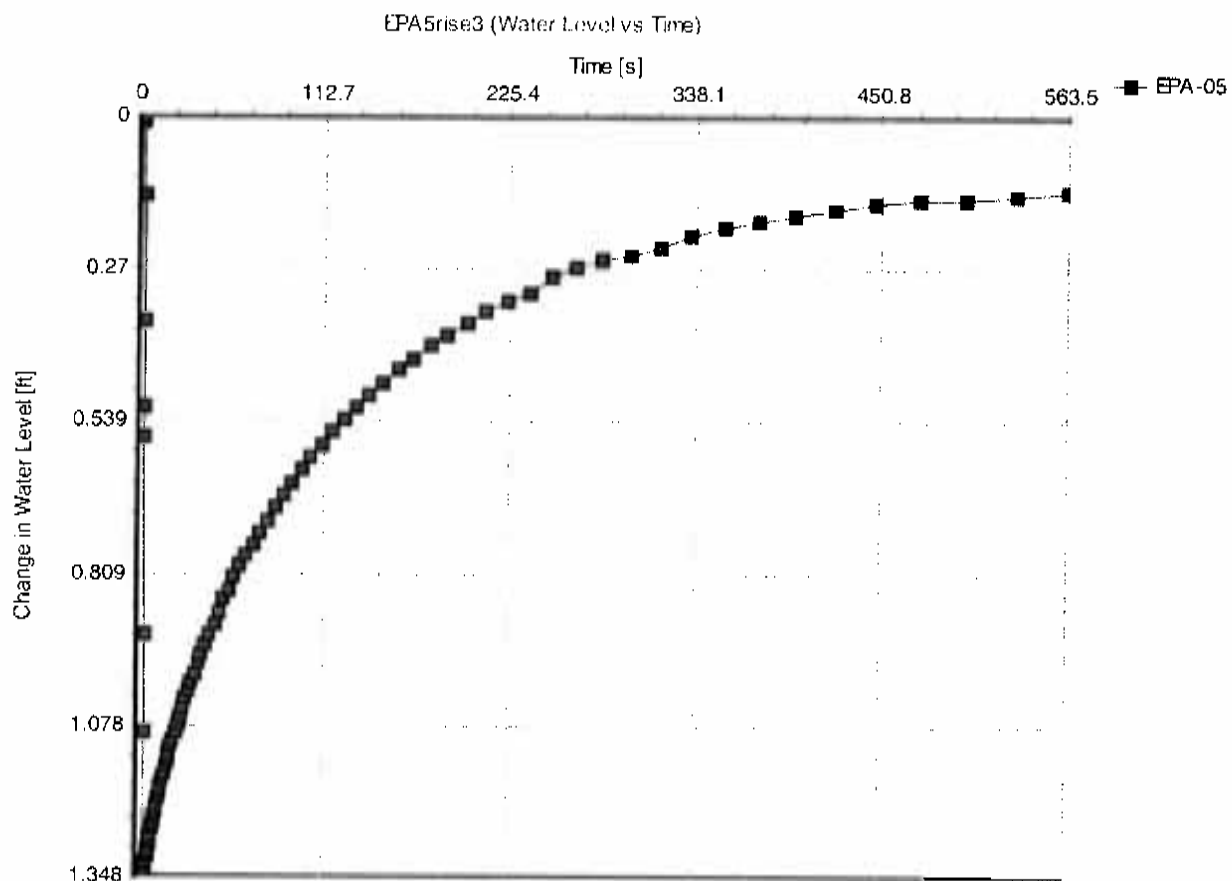


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA5rise3

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-05	Aquifer thickness:	14.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK
Date: 12/5/2008



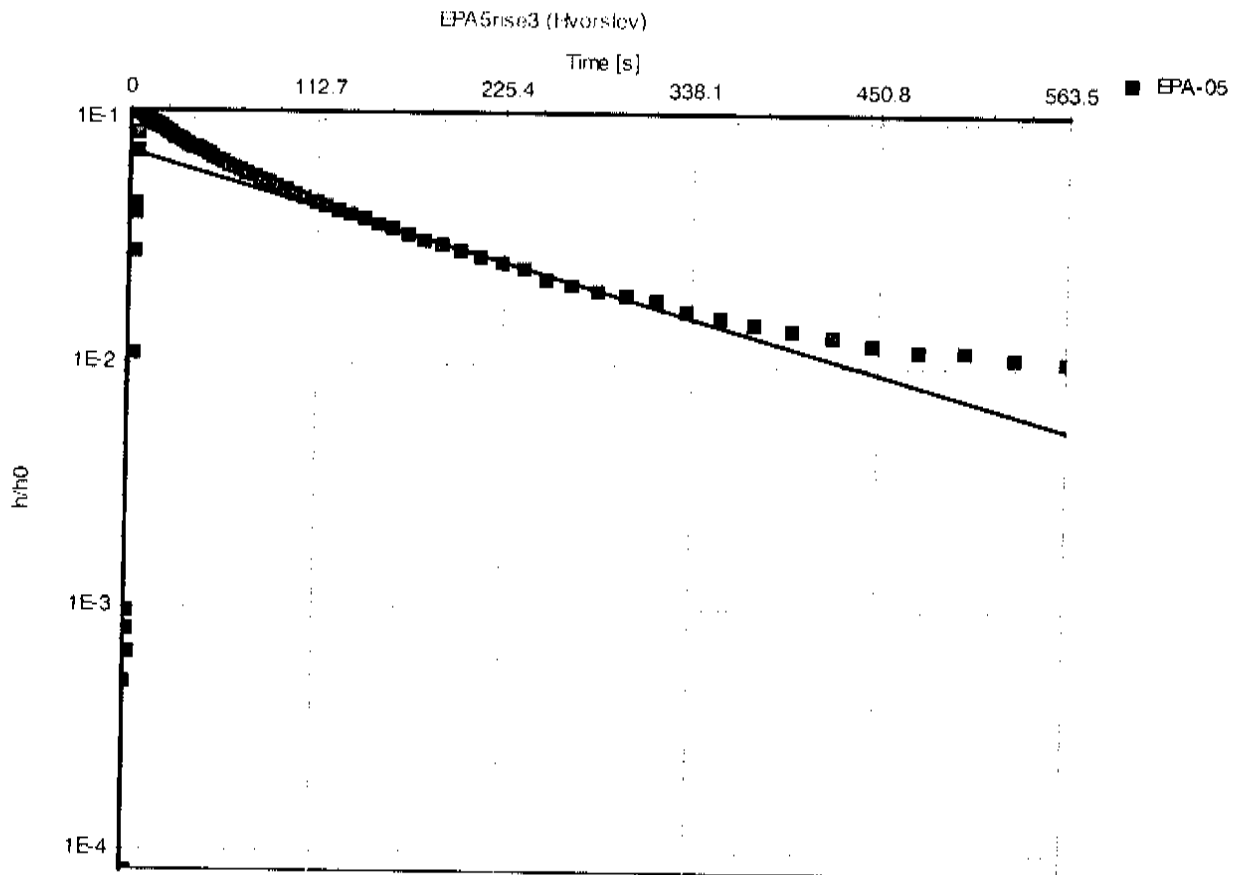
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA5rise3

Analysis method: Hvorslev

Analysis results:

Conductivity: 2.64E-4 [cm/s]

<u>Test parameters:</u>	Test well:	EPA-05	Aquifer thickness:	14.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008

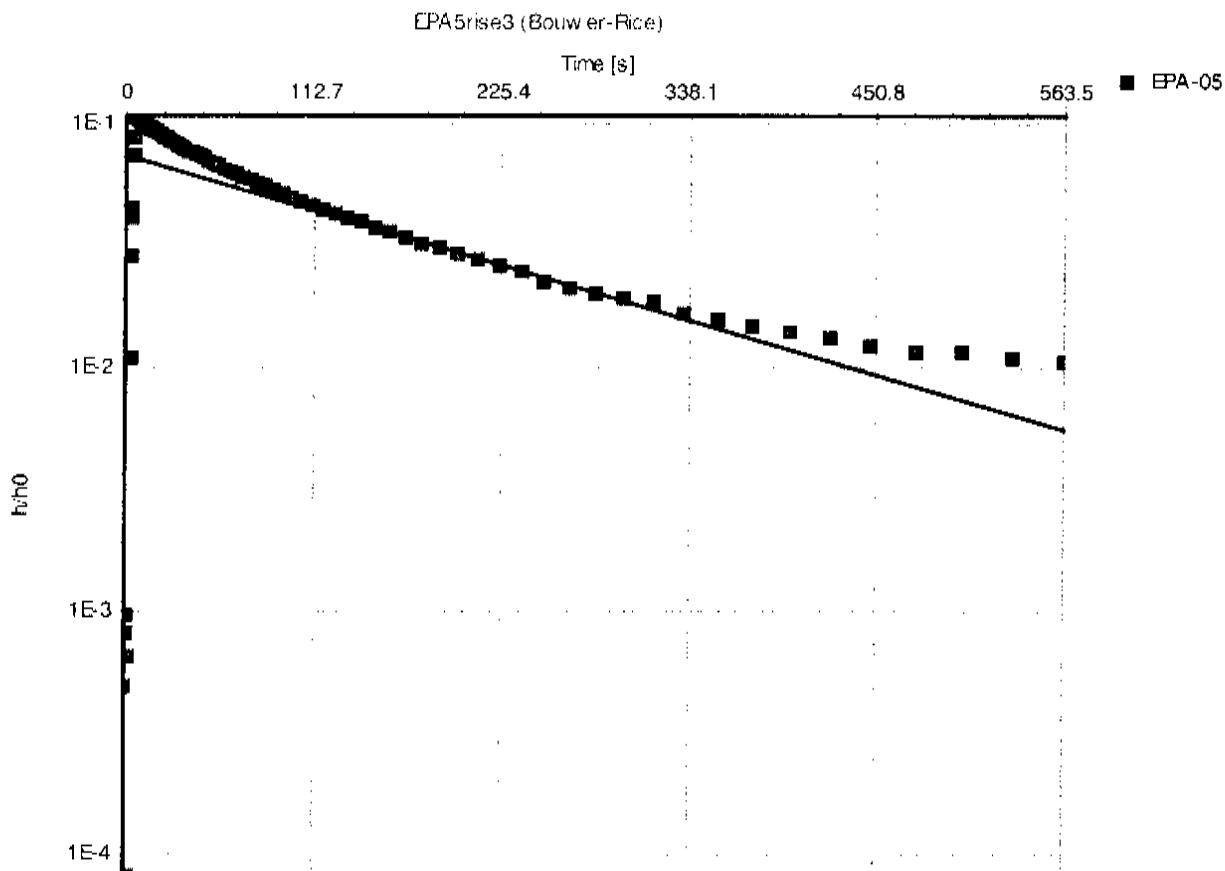


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA5rise3

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 2.56E-4 [cm/s]

Test parameters:

Test well:	EPA-05	Aquifer thickness:	14.5 [ft]
Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		
r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008

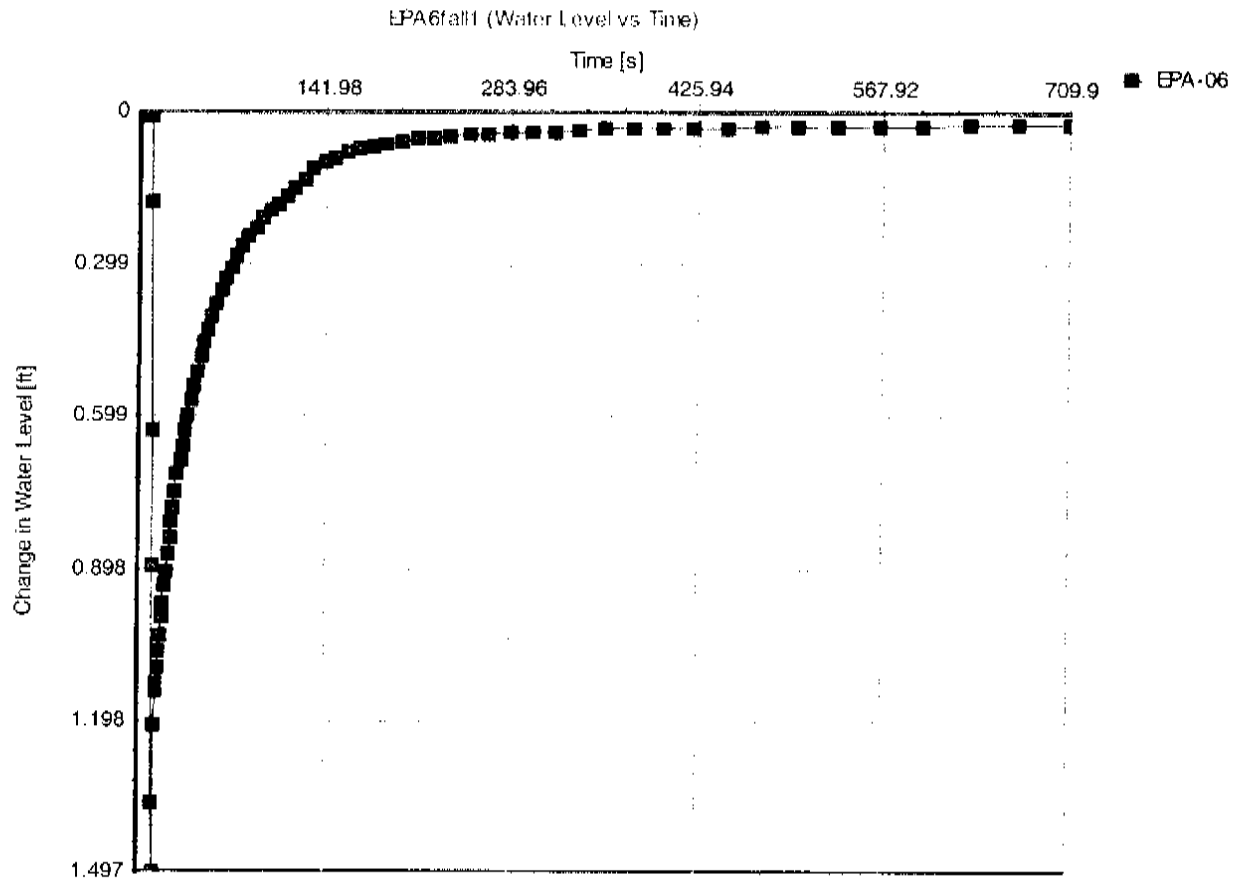


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA6fall1

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-06	Aquifer thickness:	23.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



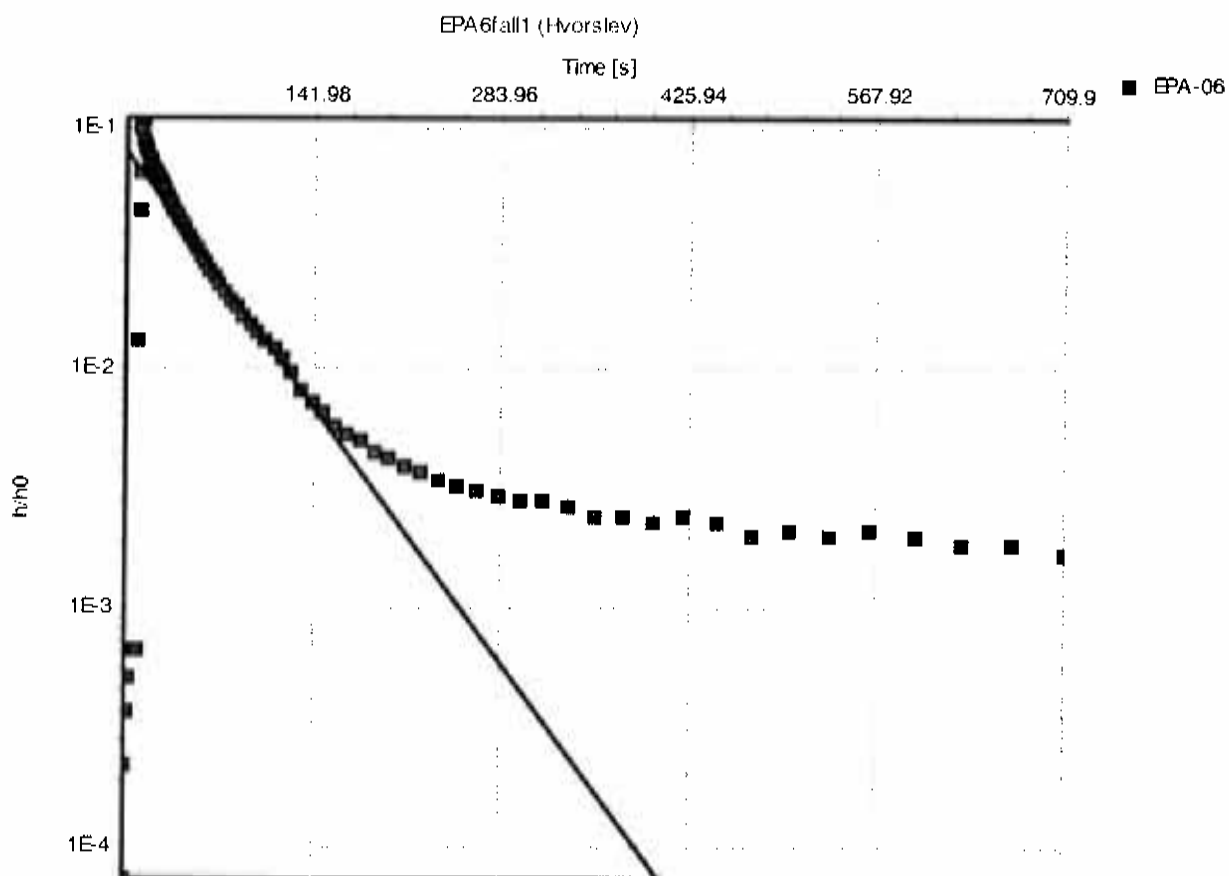
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA6fall1

Analysis method: Hvorslev

Analysis results:

Conductivity: 9.93E-4 [cm/s]

Test parameters:

Test well:	EPA-06	Aquifer thickness:	23.5 [ft]
Screen radius:	0.33333 [ft]		
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



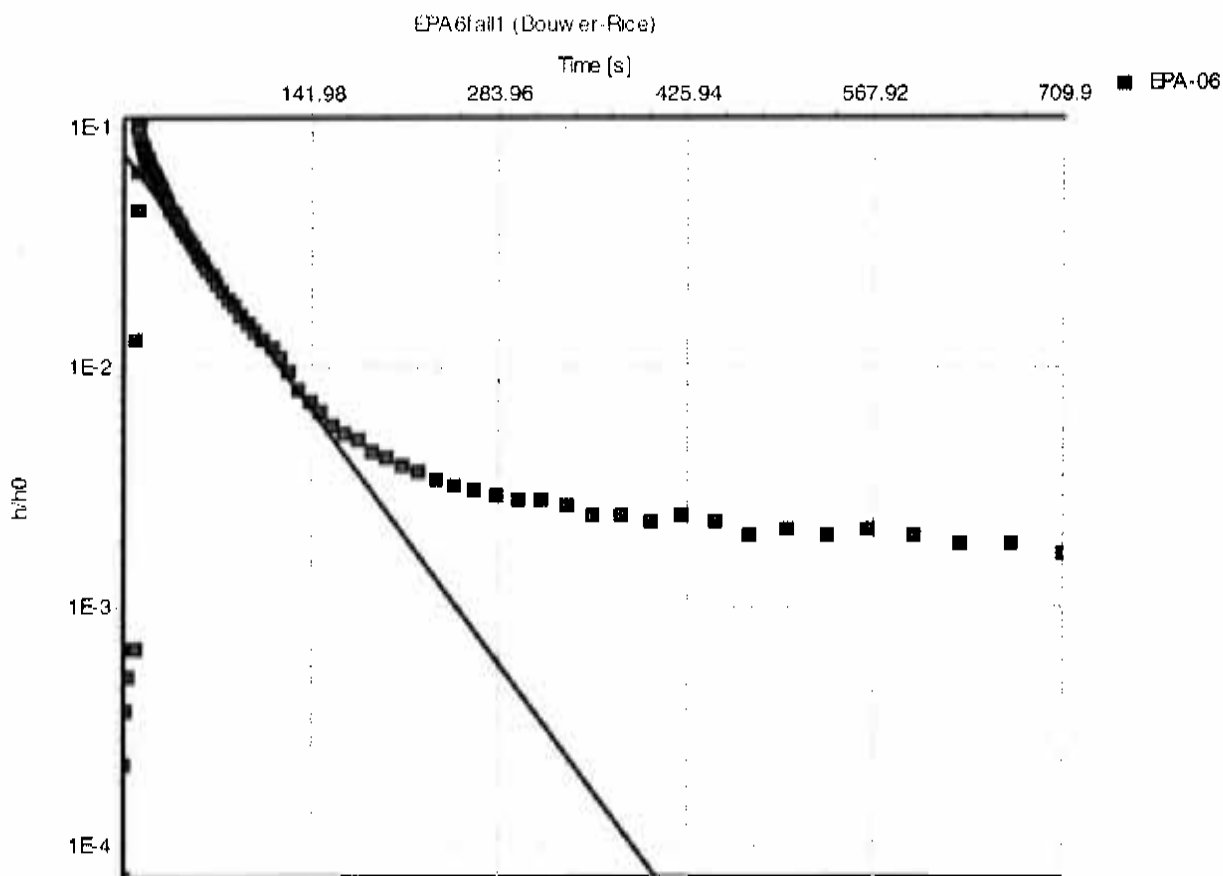
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: **EPA6fall1**

Analysis method: **Bouwer-Rice**

Analysis results:

Conductivity: 1.06E-3 [cm/s]

Test parameters:

Test well:	EPA-06	Aquifer thickness:	23.5 [ft]
Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		
r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



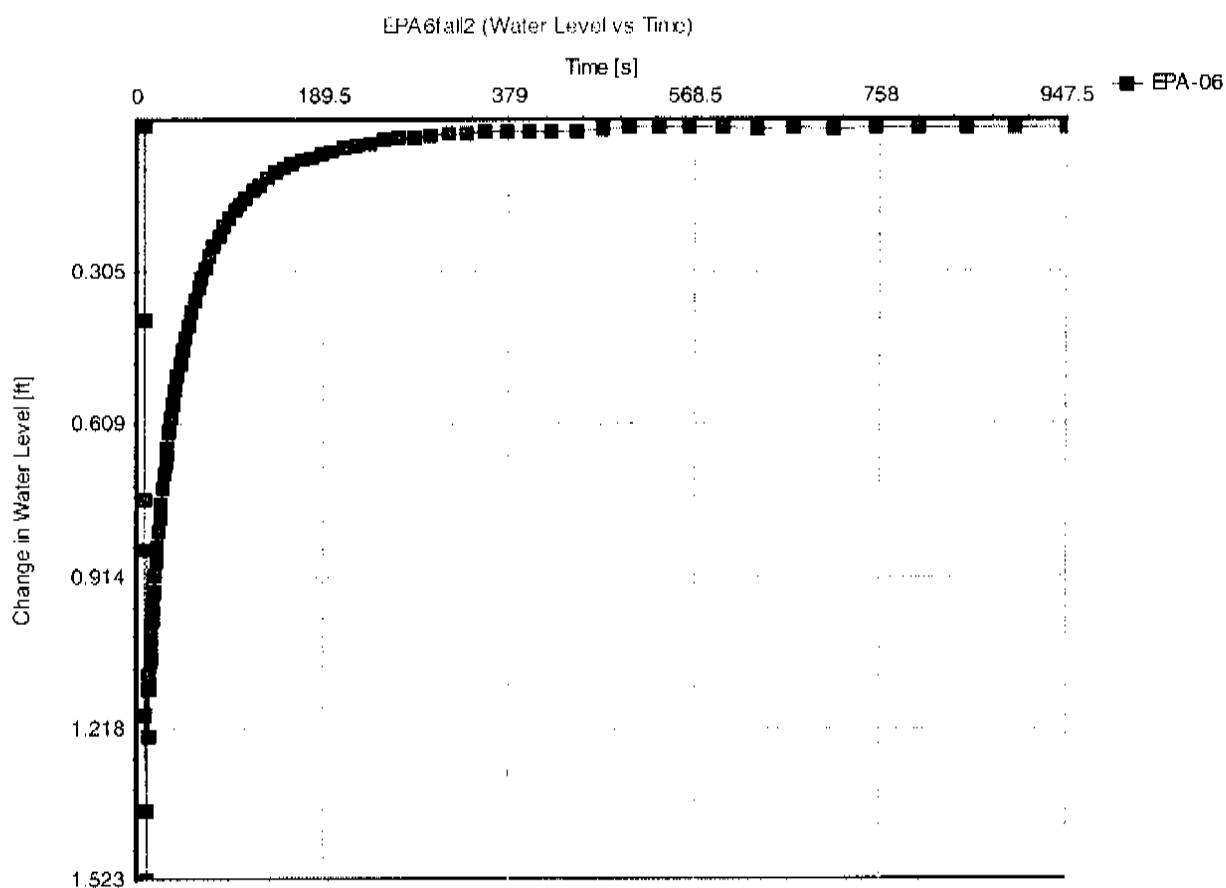
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA6fall2

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-06	Aquifer thickness:	23.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK
Date: 12/5/2008



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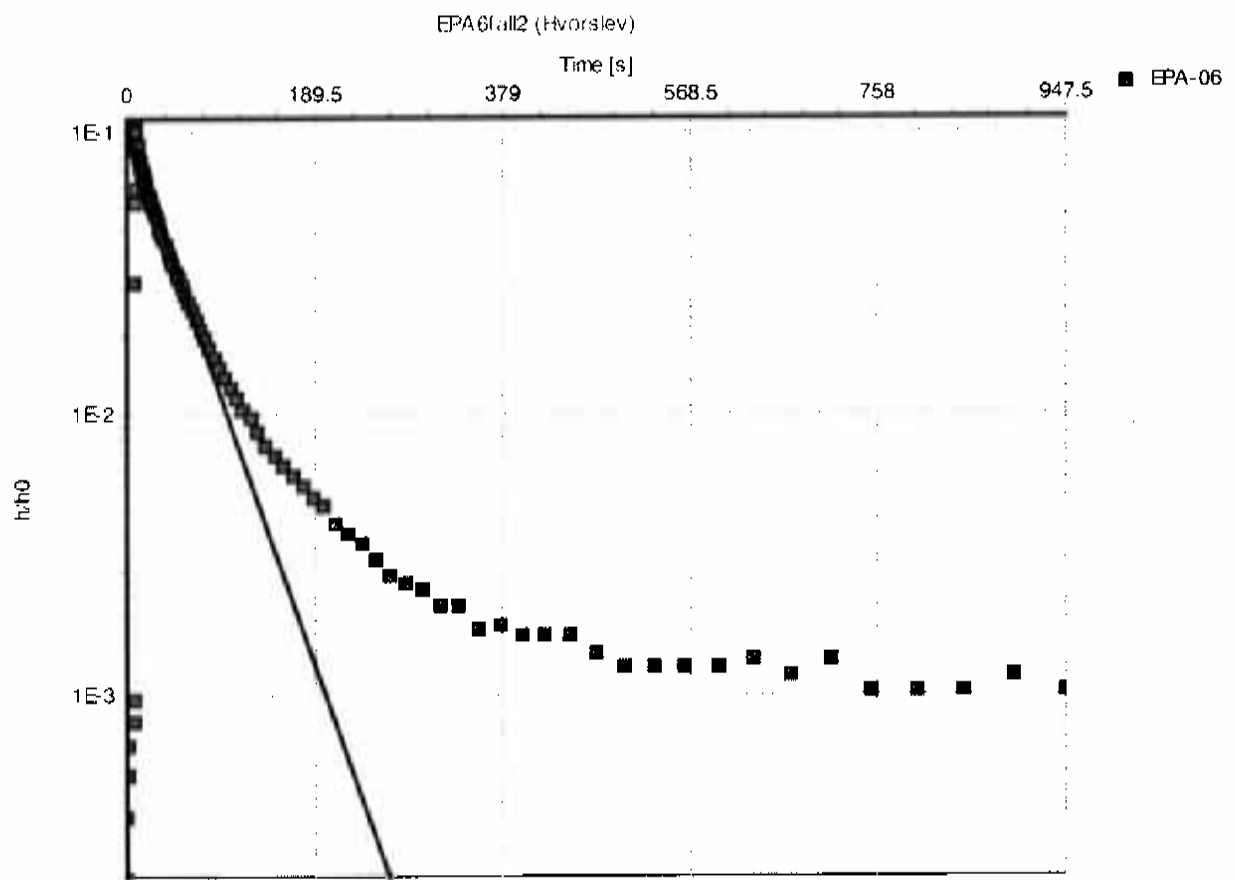
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA

Test name: EPA6fall2Analysis method: HvorslevAnalysis results:

Conductivity: 1.34E-3 [cm/s]

Test parameters:

Test well: EPA-06

Aquifer thickness: 23.5 [ft]

Screen radius: 0.33333 [ft]

Screen length: 5 [ft]

Casing radius: 0.08333 [ft]

Comments:

Evaluated by: MK

Date: 12/5/2008



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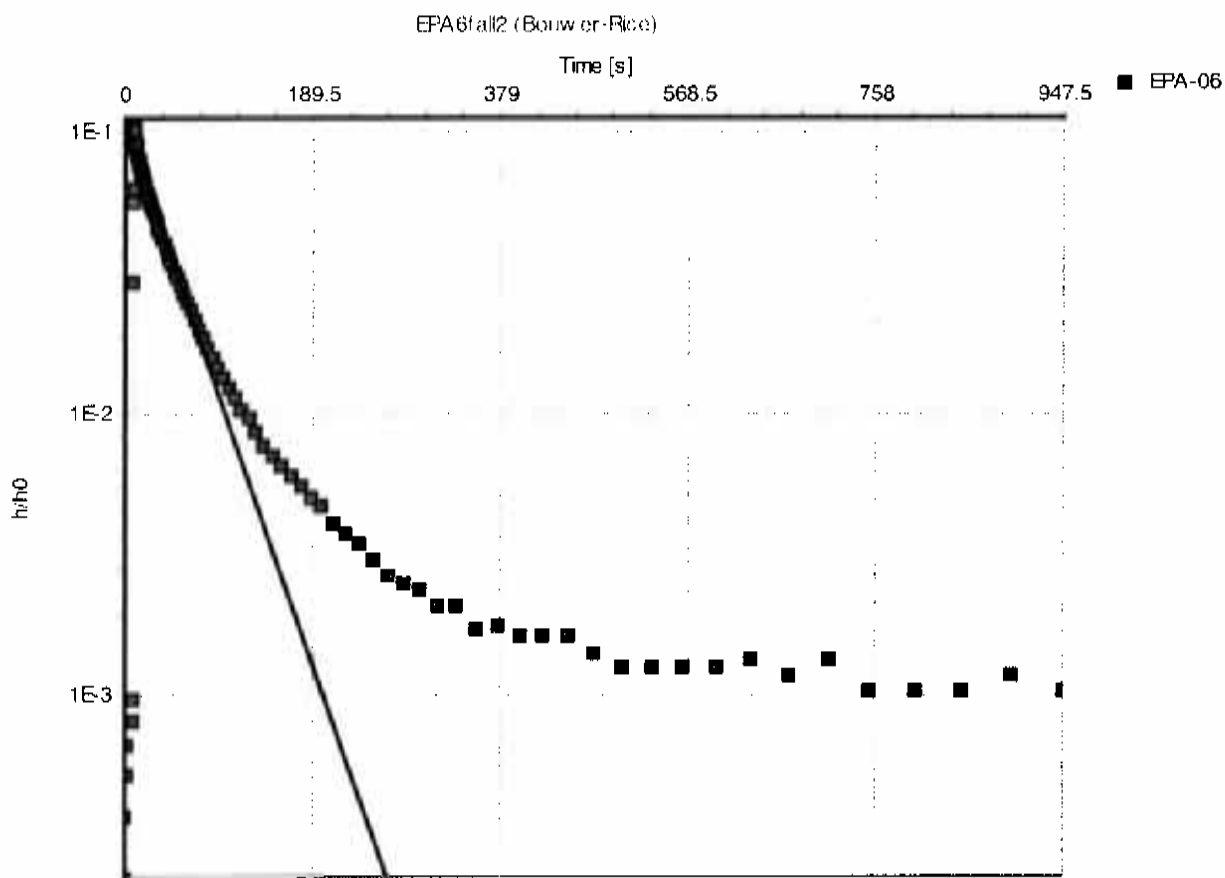
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA

Test name: EPA6fall2Analysis method: Bouwer-RiceAnalysis results:

Conductivity: 1.42E-3 [cm/s]

Test parameters:

Test well: EPA-06

Aquifer thickness: 23.5 [ft]

Screen radius: 0.33333 [ft]

Gravel pack Porosity (%) 25

Screen length: 5 [ft]

Casing radius: 0.08333 [ft]

r(eff): 0.182 [ft]

Comments:

Evaluated by: MK

Date: 12/5/2008



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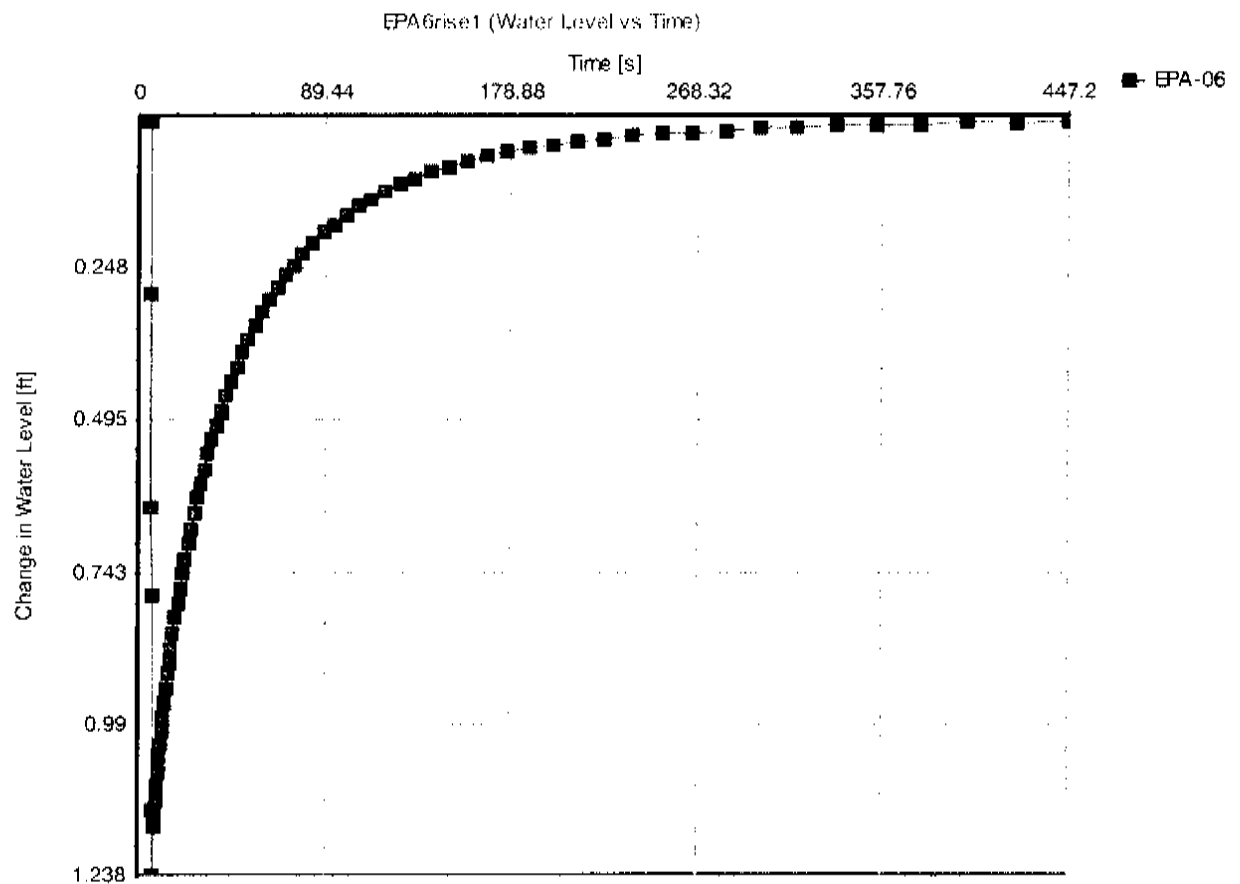
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA



Test name: EPA6rise1

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-06	Aquifer thickness:	23.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



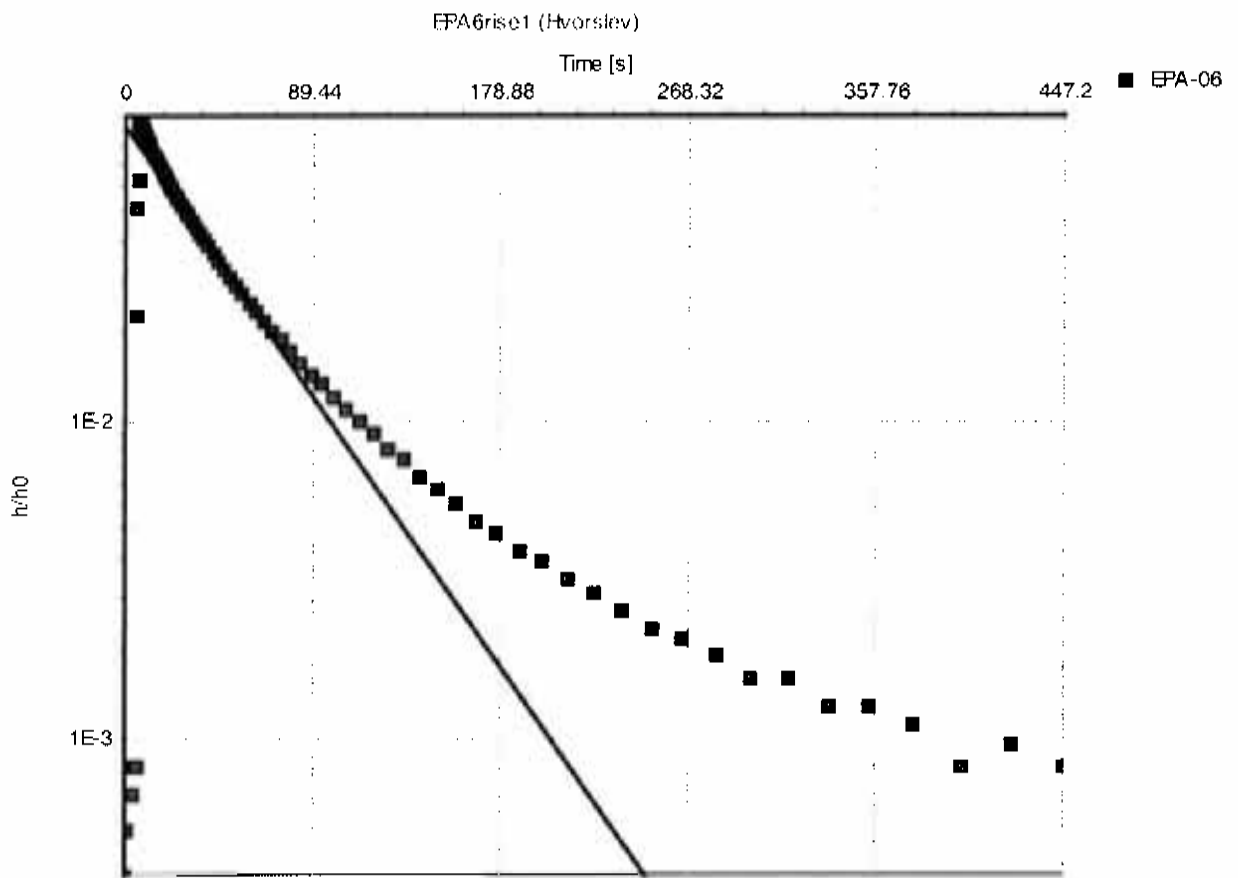
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA6rise1

Analysis method: Hvorslev

Analysis results:

Conductivity: 1.26E-3 [cm/s]

<u>Test parameters:</u>	Test well:	EPA-06	Aquifer thickness:	23.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



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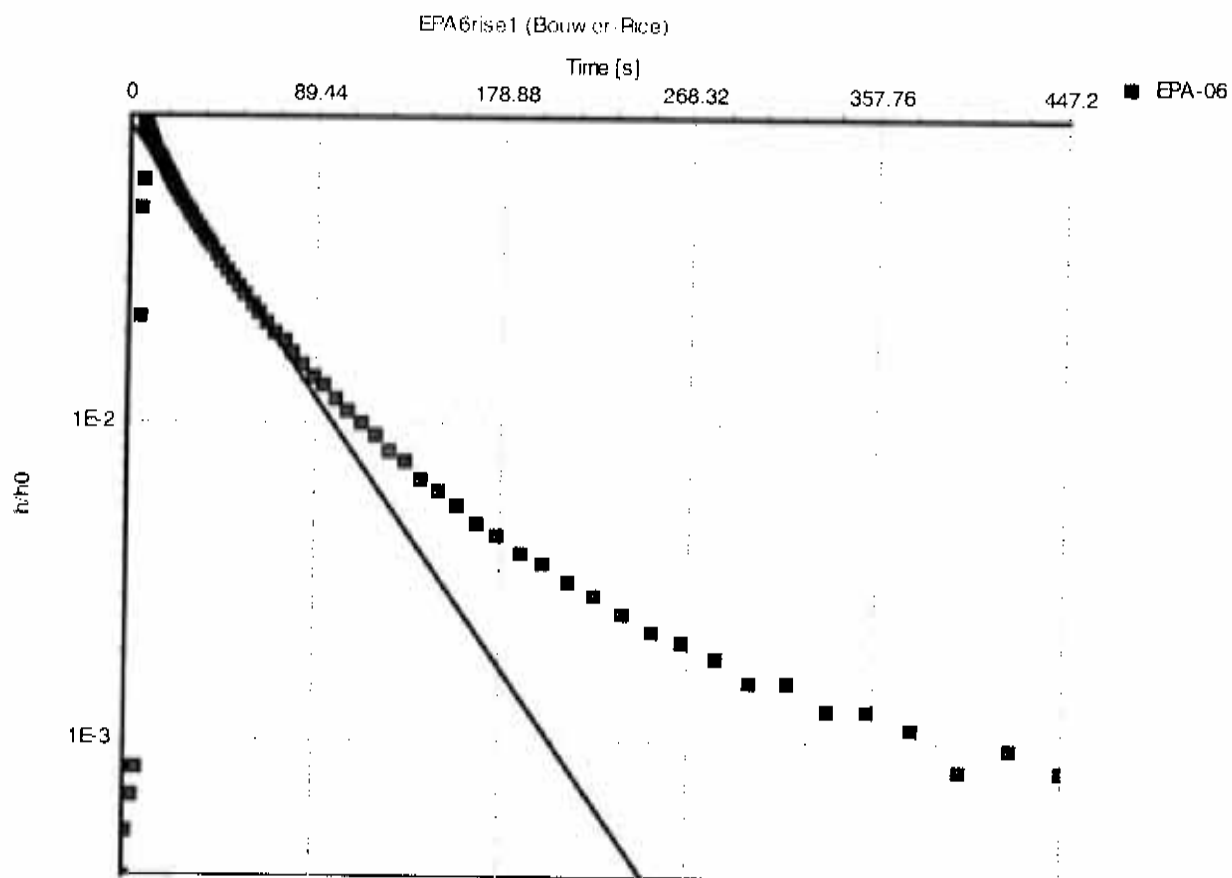
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA

Test name: EPA6rise1Analysis method: Bouwer-RiceAnalysis results:

Conductivity: 1.34E-3 [cm/s]

Test parameters:

Test well:	EPA-06	Aquifer thickness:	23.5 [ft]
Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		
r(cff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



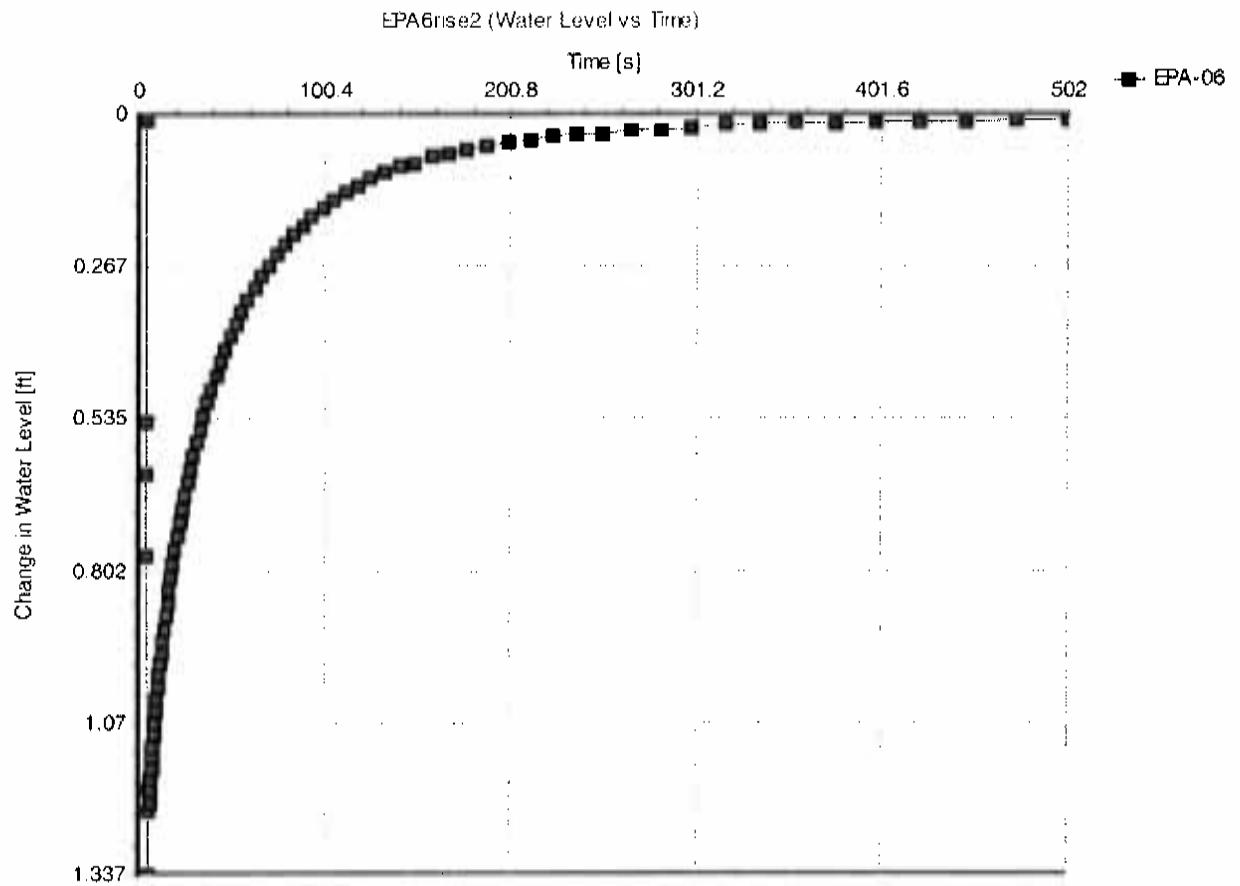
TETRA TECH, INC.

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973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA6rise2

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-06	Aquifer thickness:	23.5 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008

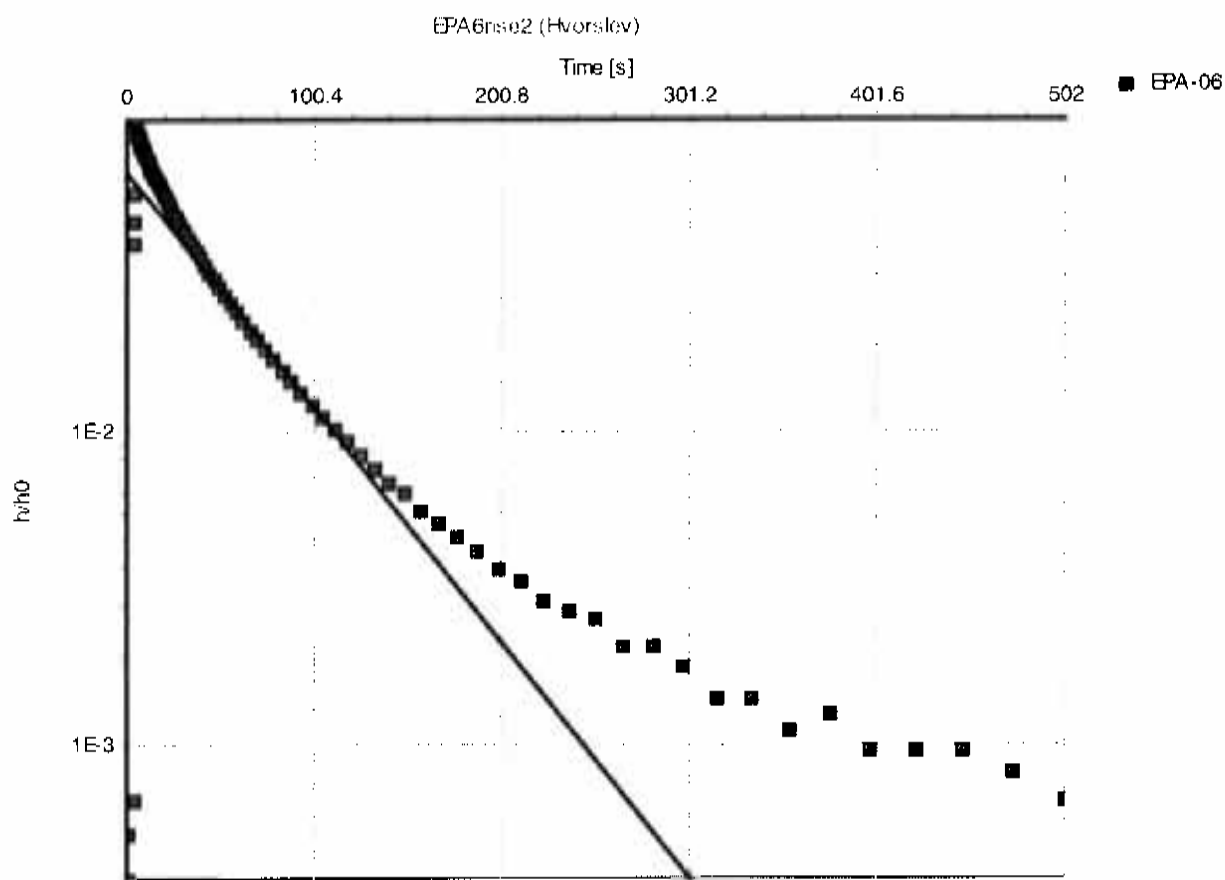


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973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA6rise2

Analysis method: Hvorslev

Analysis results:

Conductivity: 9.90E-4 [cm/s]

Test parameters:

Test well:	EPA-06	Aquifer thickness:	23.5 [ft]
Screen radius:	0.33333 [ft]		
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008

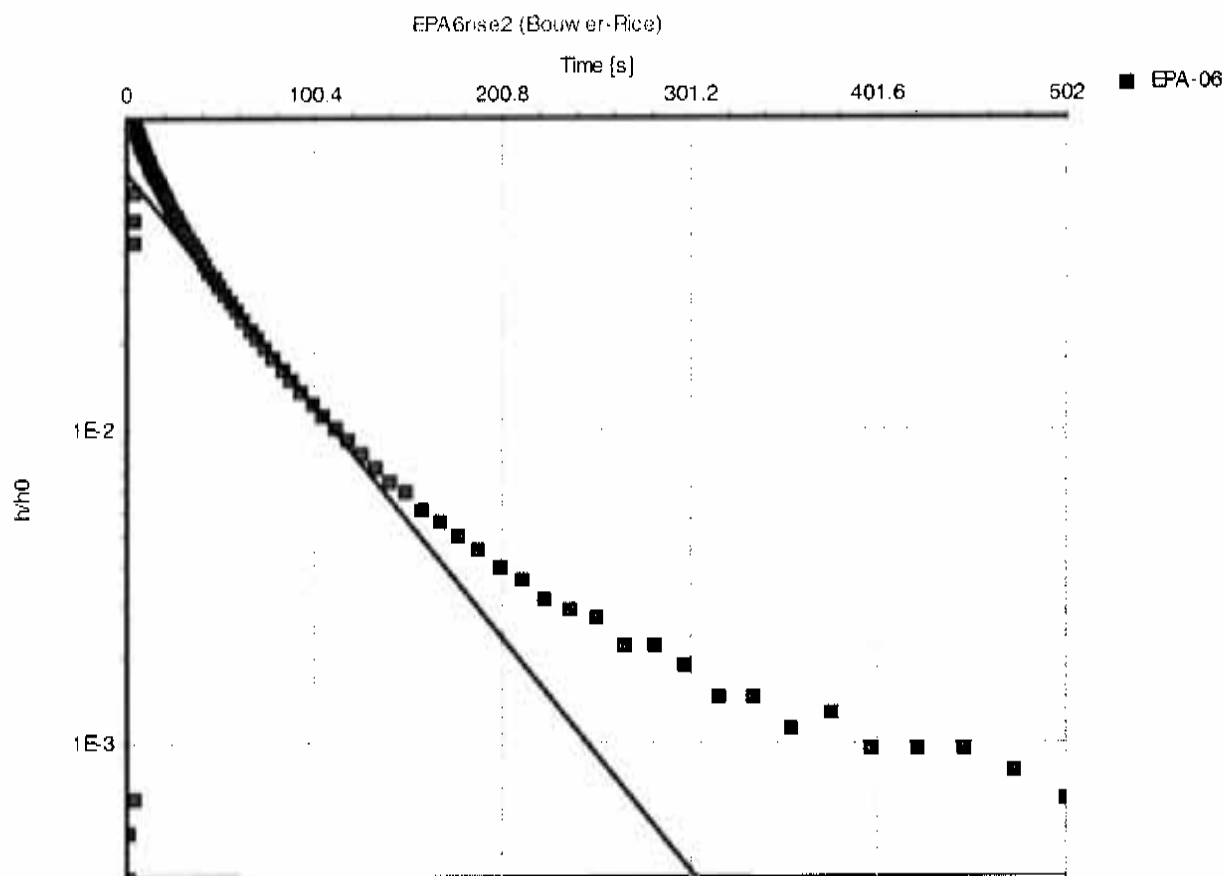


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973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA6rise2

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 1.04E-3 [cm/s]

<u>Test parameters:</u>	Test well:	EPA-06	Aquifer thickness:	23.5 [ft]
	Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		
	r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



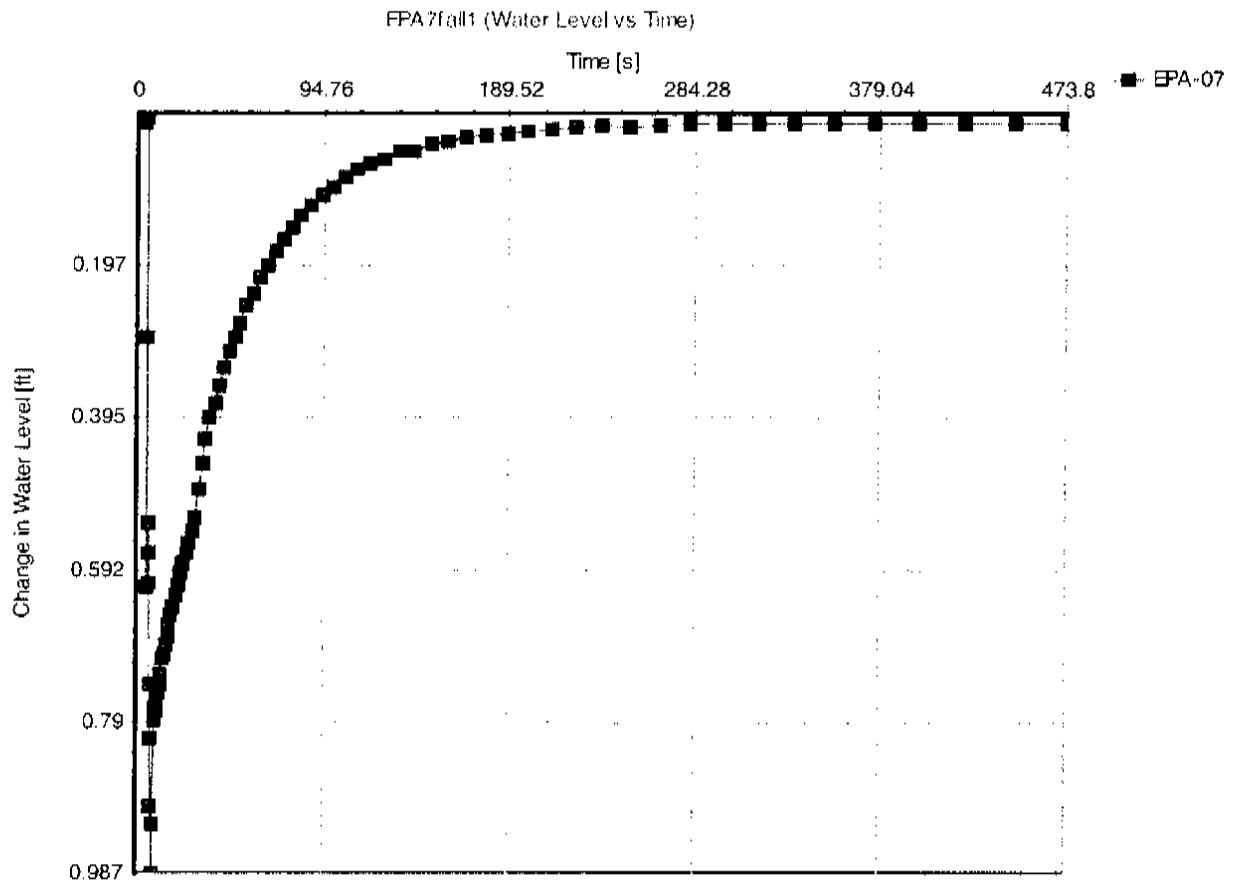
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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA7fall1

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-07	Aquifer thickness:	6 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008

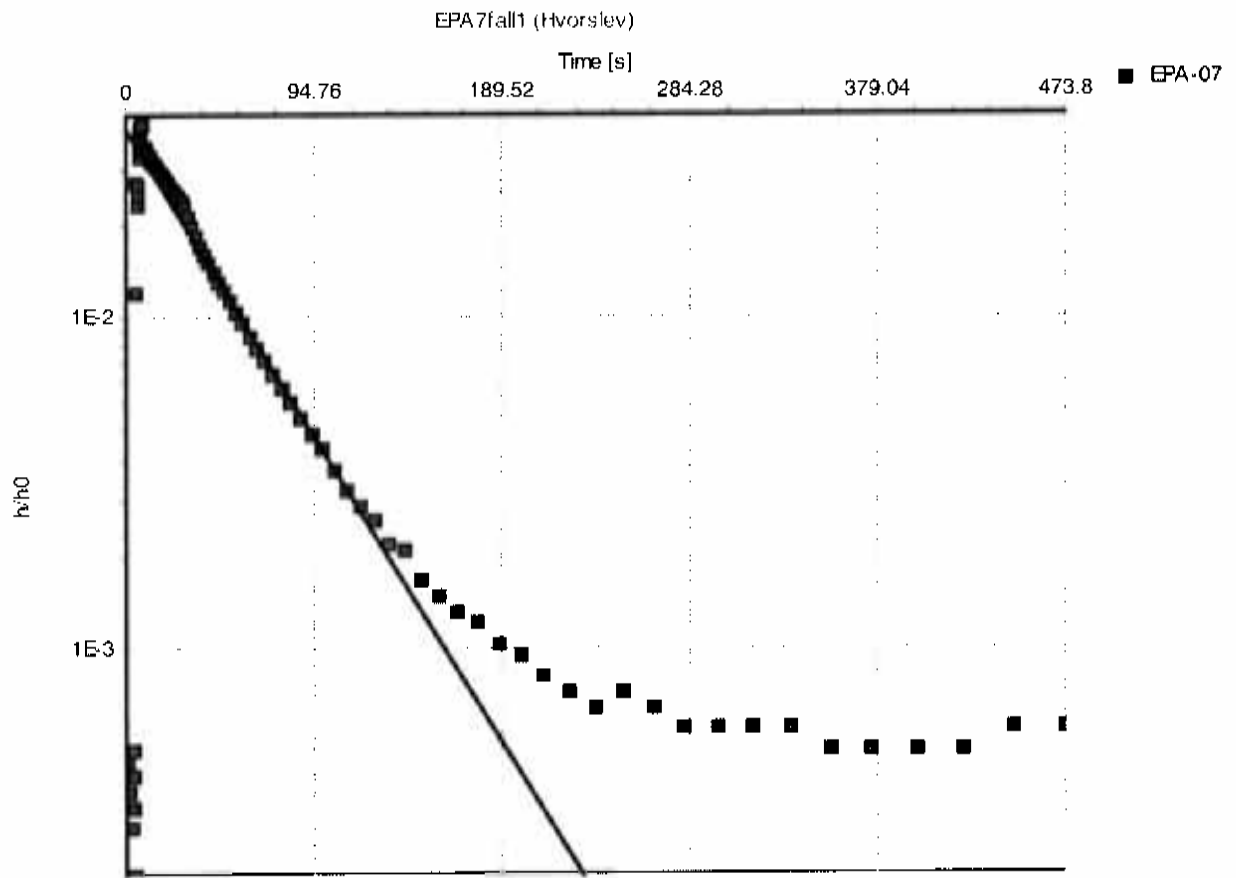


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973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA7fall1

Analysis method: Hvorslev

Analysis results:

Conductivity: 1.30E-3 [cm/s]

Test parameters:

Test well:	EPA-07	Aquifer thickness:	6 [ft]
Screen radius:	0.33333 [ft]		
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008

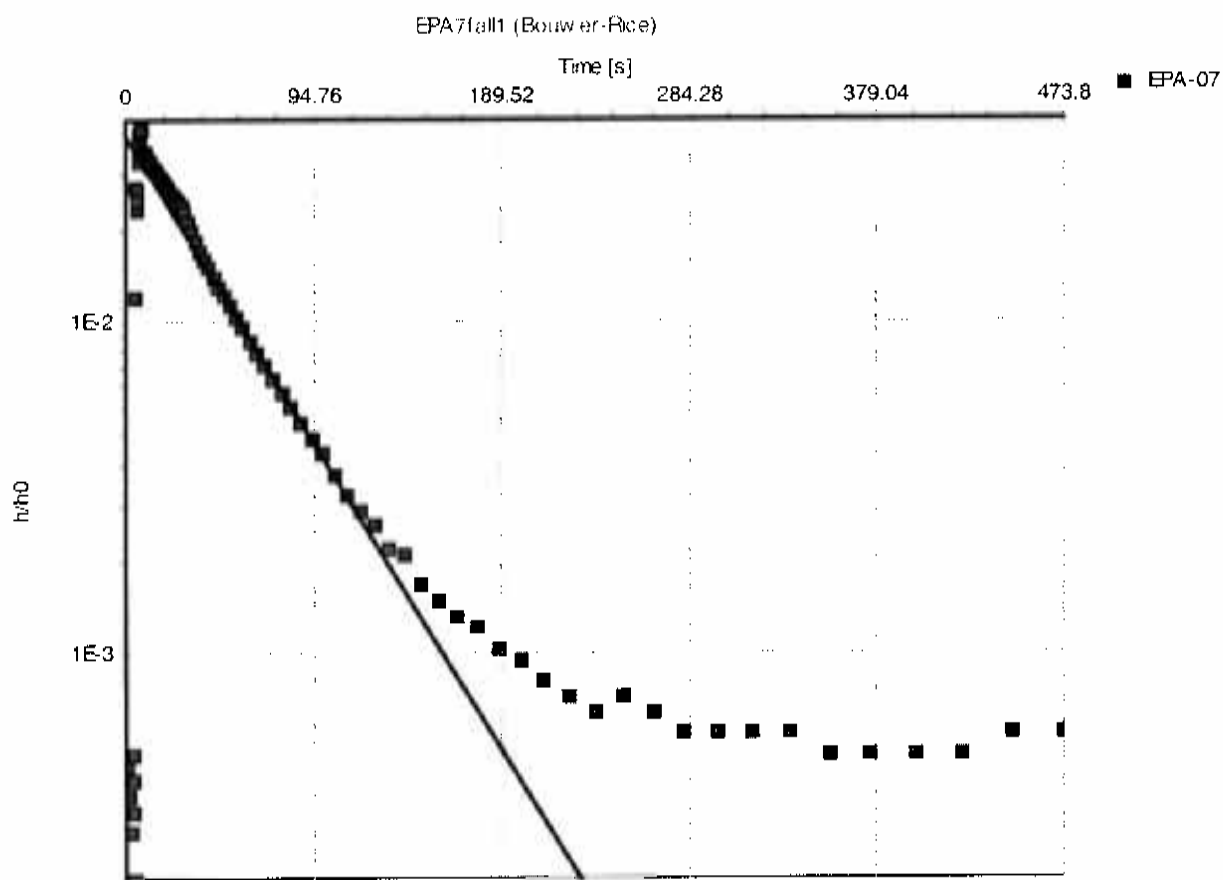


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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA7fall1

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 1.02E-3 [cm/s]

Test parameters:

Test well:	EPA-07	Aquifer thickness:	6 [ft]
Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		
r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

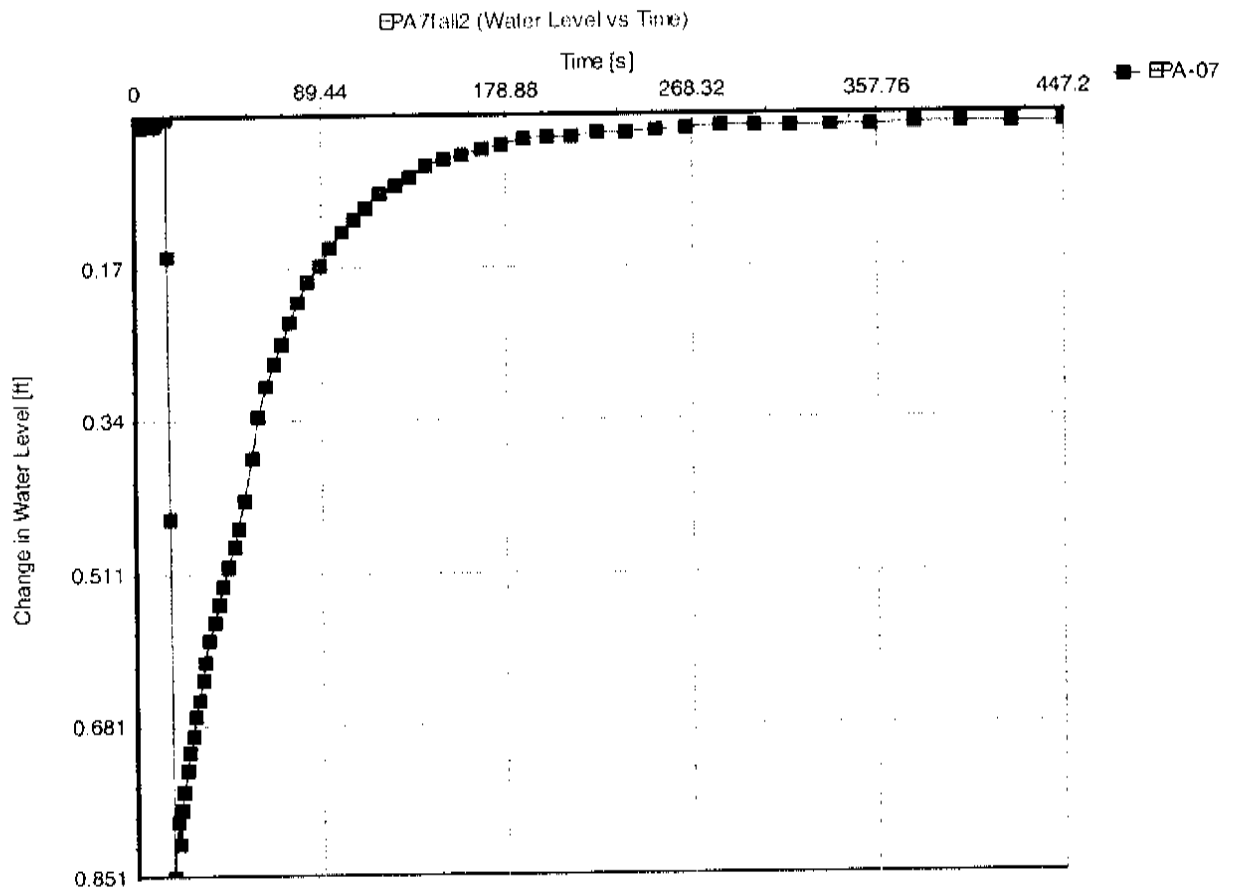
Date: 12/5/2008



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Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA7fall2

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-07	Aquifer thickness:	6 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK
Date: 12/10/20



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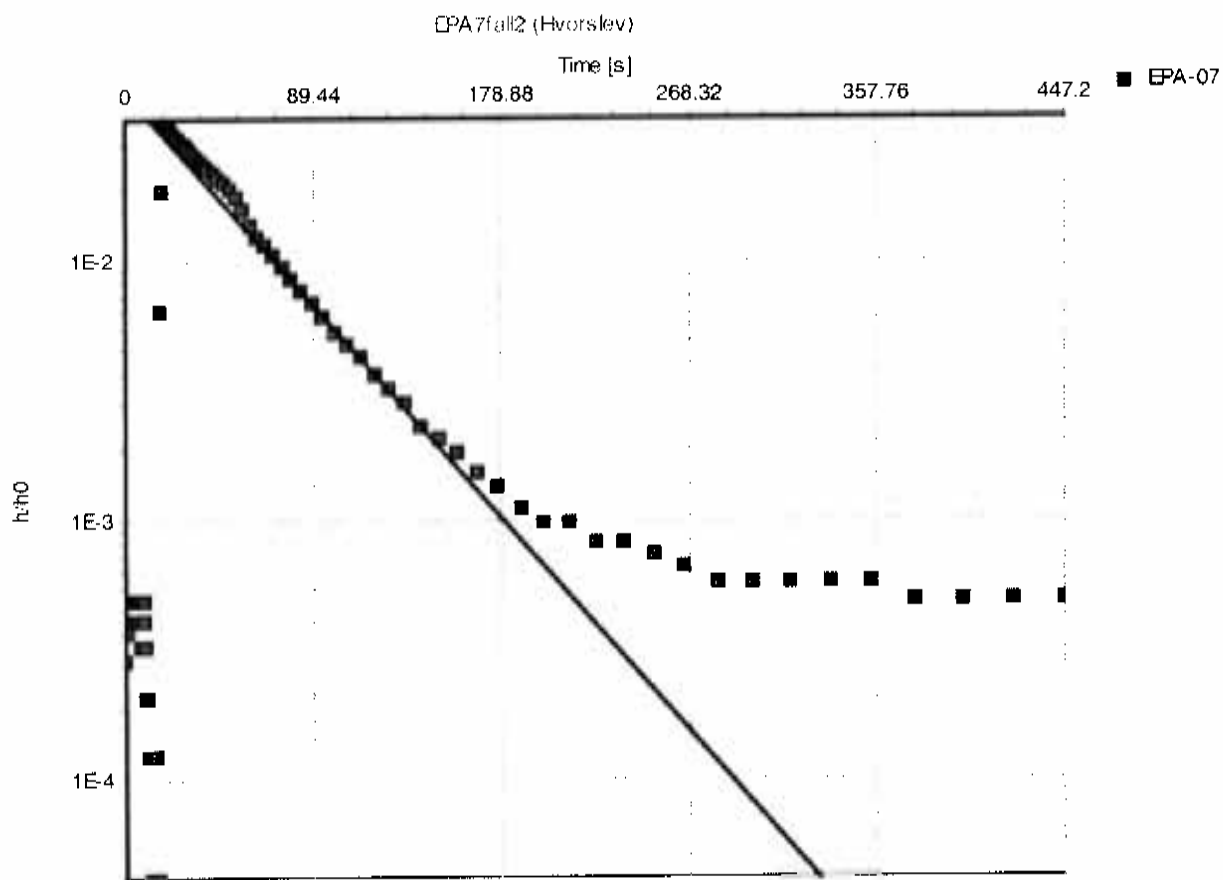
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA

Test name: EPA7fall2Analysis method: HvorslevAnalysis results:

Conductivity: 1.22E-3 [cm/s]

Test parameters:

Test well: EPA-07

Aquifer thickness: 6 [ft]

Screen radius: 0.33333 [ft]

Screen length: 5 [ft]

Casing radius: 0.08333 [ft]

Comments:

Evaluated by: MK

Date: 12/10/20



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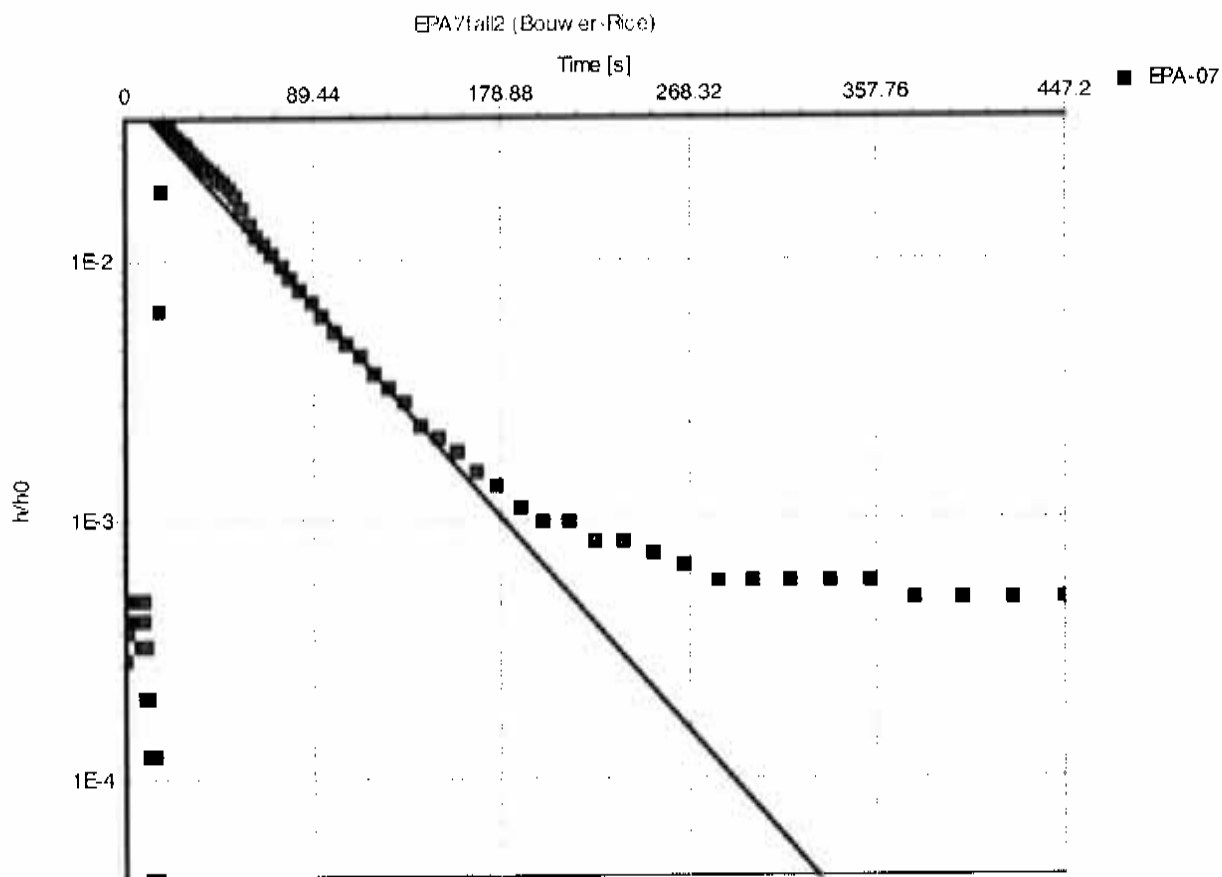
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA

Test name: EPA7fall2Analysis method: Bouwer-RiceAnalysis results:

Conductivity: 9.58E-4 [cm/s]

Test parameters:

Test well:	EPA-07	Aquifer thickness:	6 [ft]
Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		
r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/10/20



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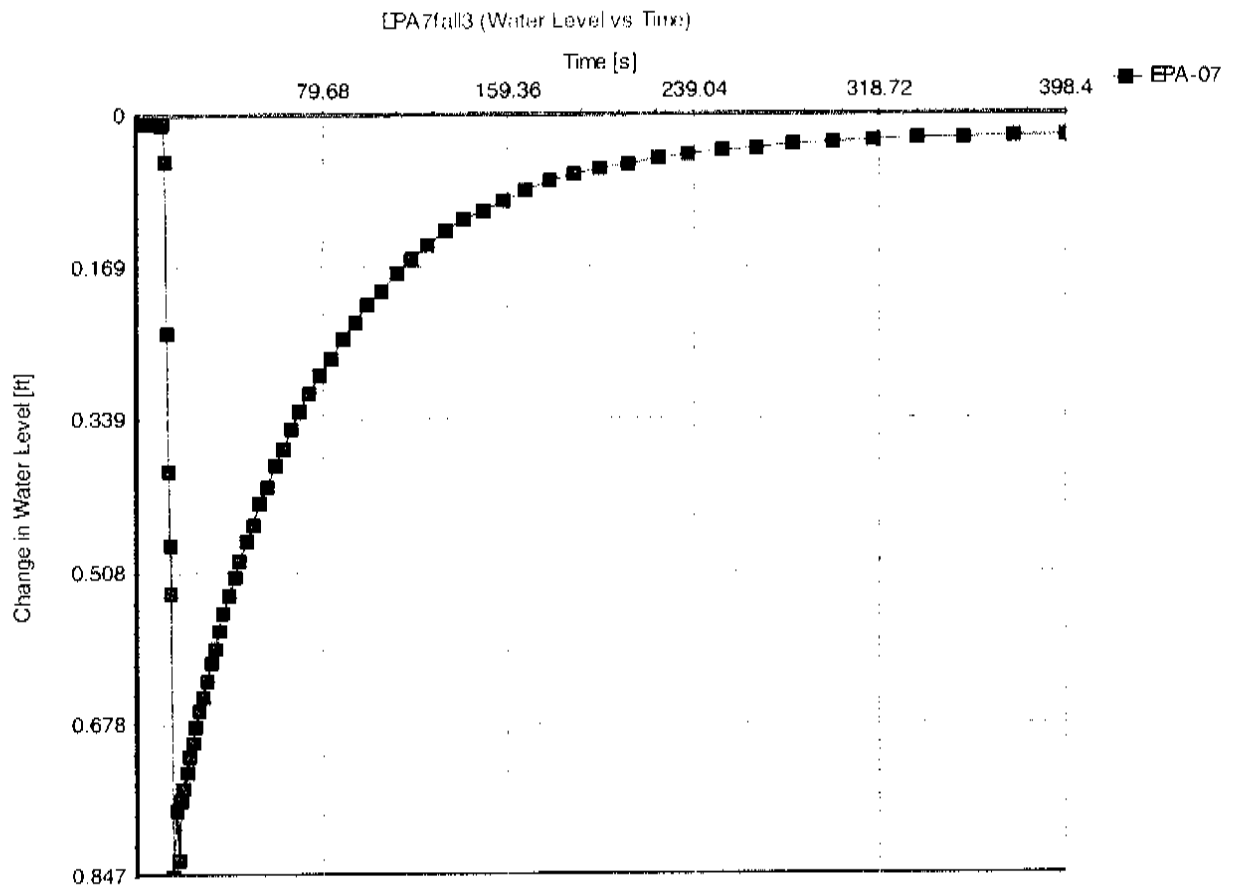
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA



Test name: EPA7fall3

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-07	Aquifer thickness:	6 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



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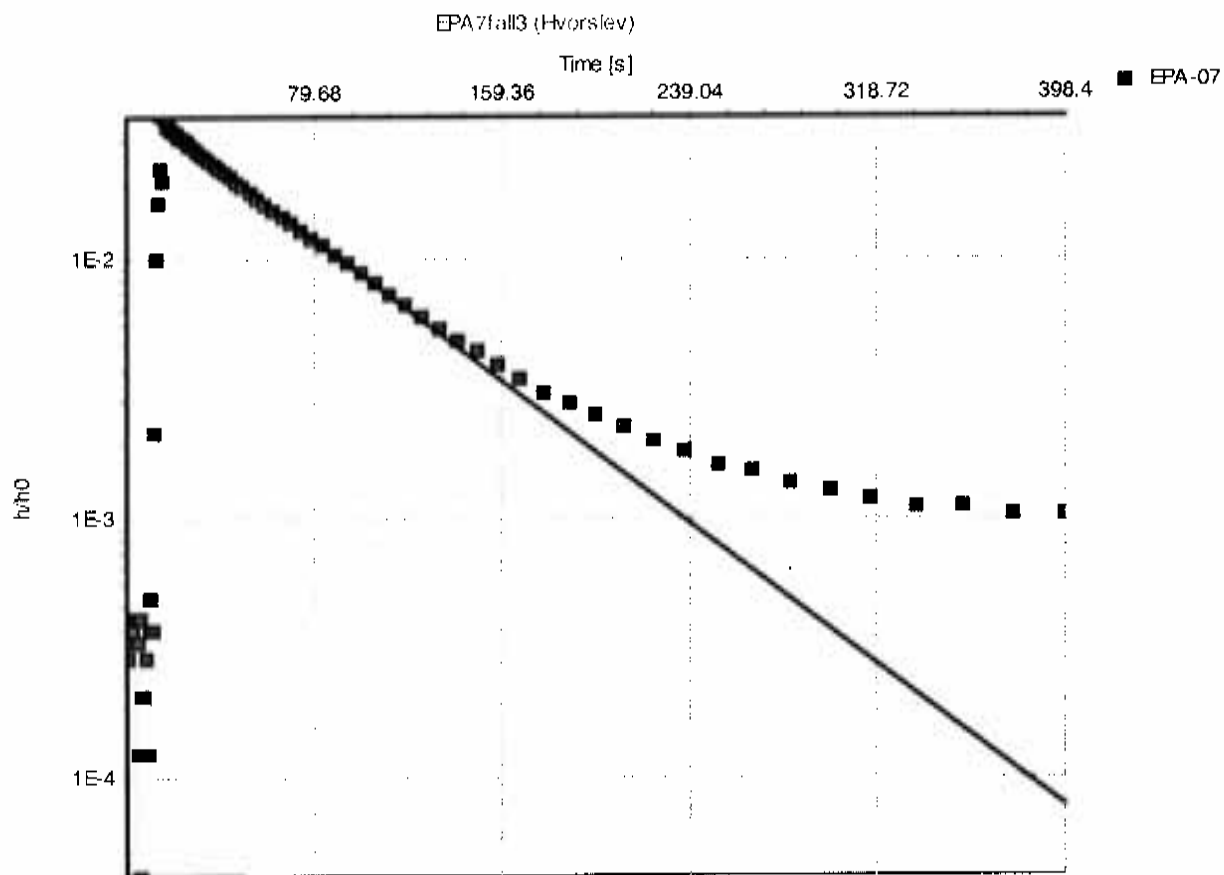
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA

Test name: EPA7fall3Analysis method: HvorslevAnalysis results:

Conductivity: 9.08E-4 [cm/s]

Test parameters:

Test well: EPA-07

Aquifer thickness: 6 [ft]

Screen radius: 0.33333 [ft]

Screen length: 5 [ft]

Casing radius: 0.08333 [ft]

Comments:

Evaluated by: MK

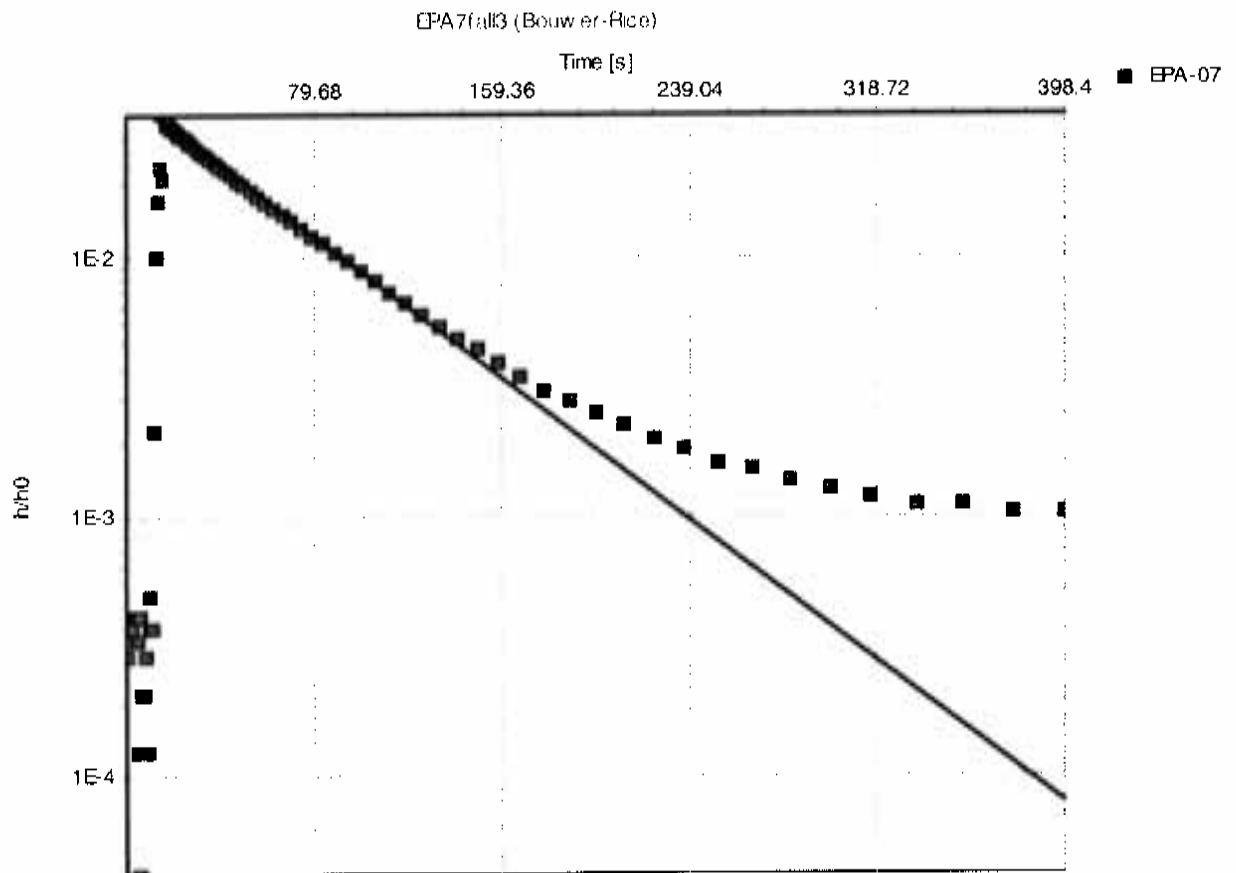
Date: 12/5/2008



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1000 The American Road
Morris Plains, NJ 07960
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA7fall3

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 7.11E-4 [cm/s]

Test parameters:

Test well:	EPA-07	Aquifer thickness:	6 [ft]
Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		
r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



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Morris Plains, NJ 07950

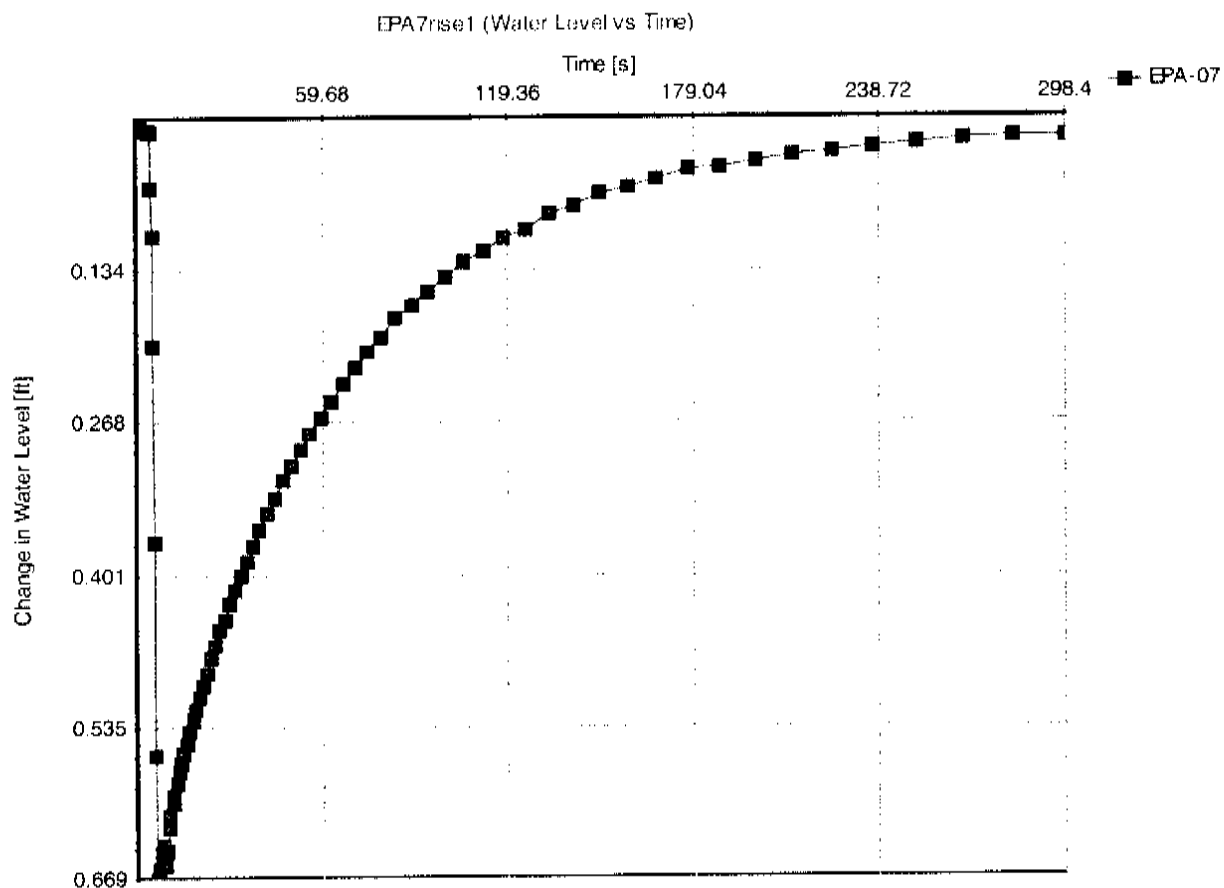
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA

Test name: EPA7rise1Analysis method: Water Level vs TimeAnalysis results:

<u>Test parameters:</u>	Test well:	EPA-07	Aquifer thickness:	6 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008

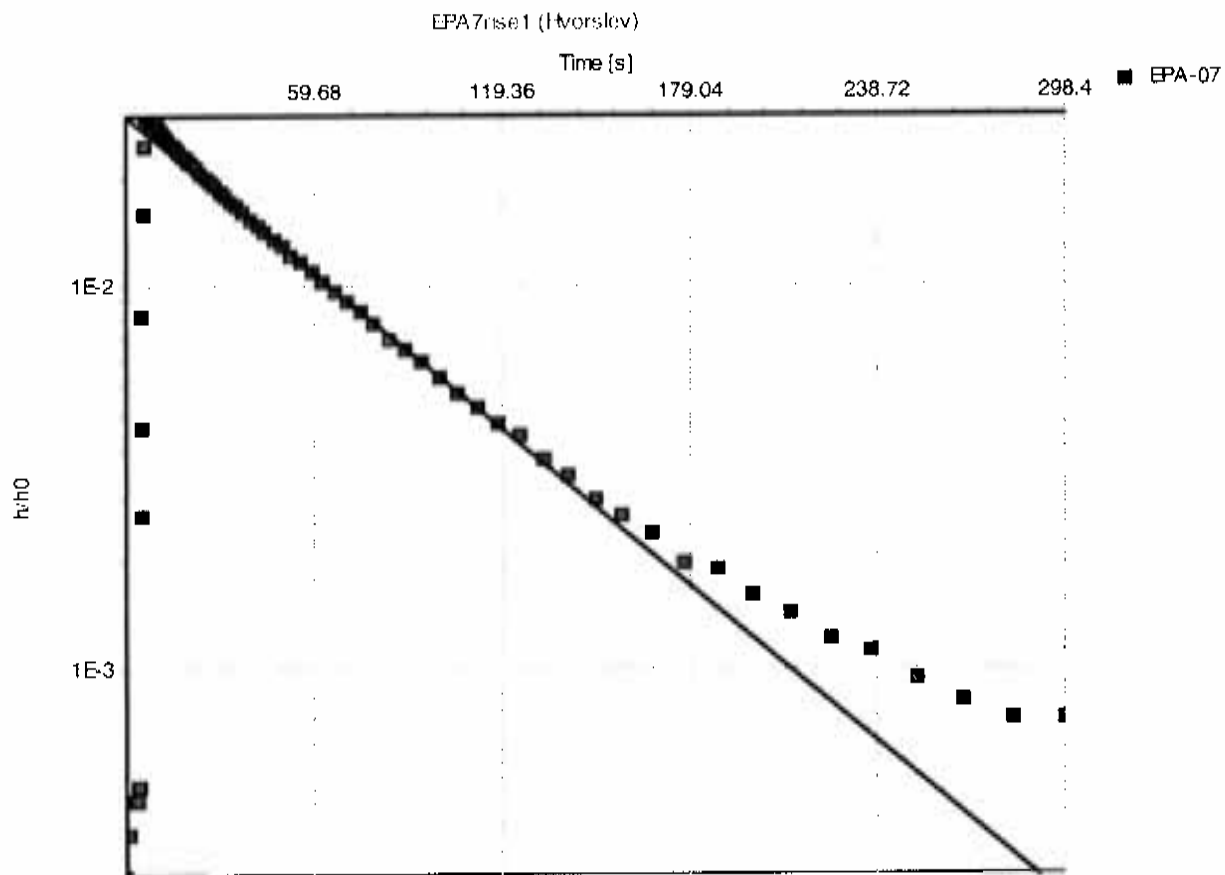


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1000 The American Road
Morris Plains, NJ 07950
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA7rise1

Analysis method: Hvorslev

Analysis results:

Conductivity: 9.06E-4 [cm/s]

Test parameters:

Test well: EPA-07

Aquifer thickness: 6 [ft]

Screen radius: 0.33333 [ft]

Screen length: 5 [ft]

Casing radius: 0.08333 [ft]

Comments:

Evaluated by: MK

Date: 12/5/2008



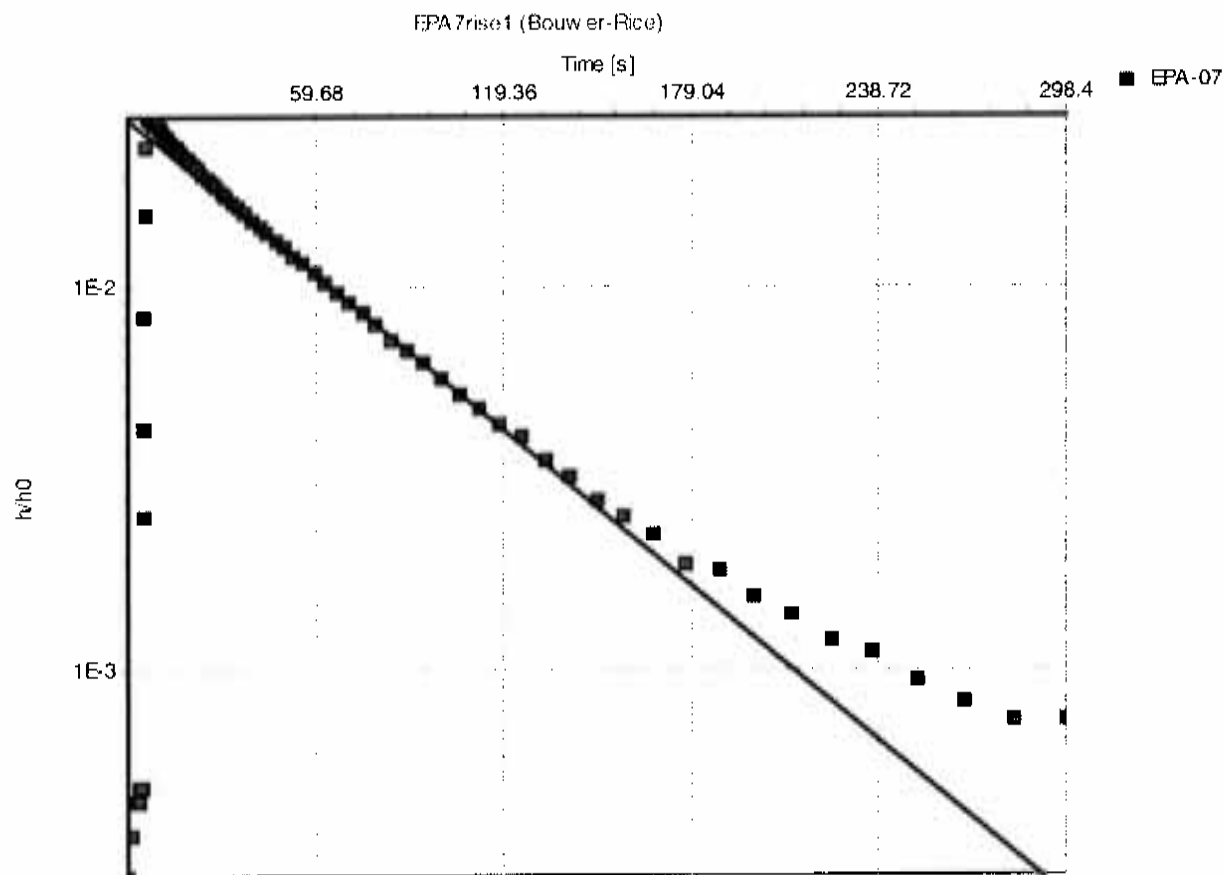
TETRA TECH, INC.

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1000 The American Road
Morris Plains, NJ 07950
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA7rise1

Analysis method: Bouwer-Rice

Analysis results:

Conductivity: 7.07E-4 [cm/s]

Test parameters:

Test well:	EPA-07	Aquifer thickness:	6 [ft]
Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		
r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



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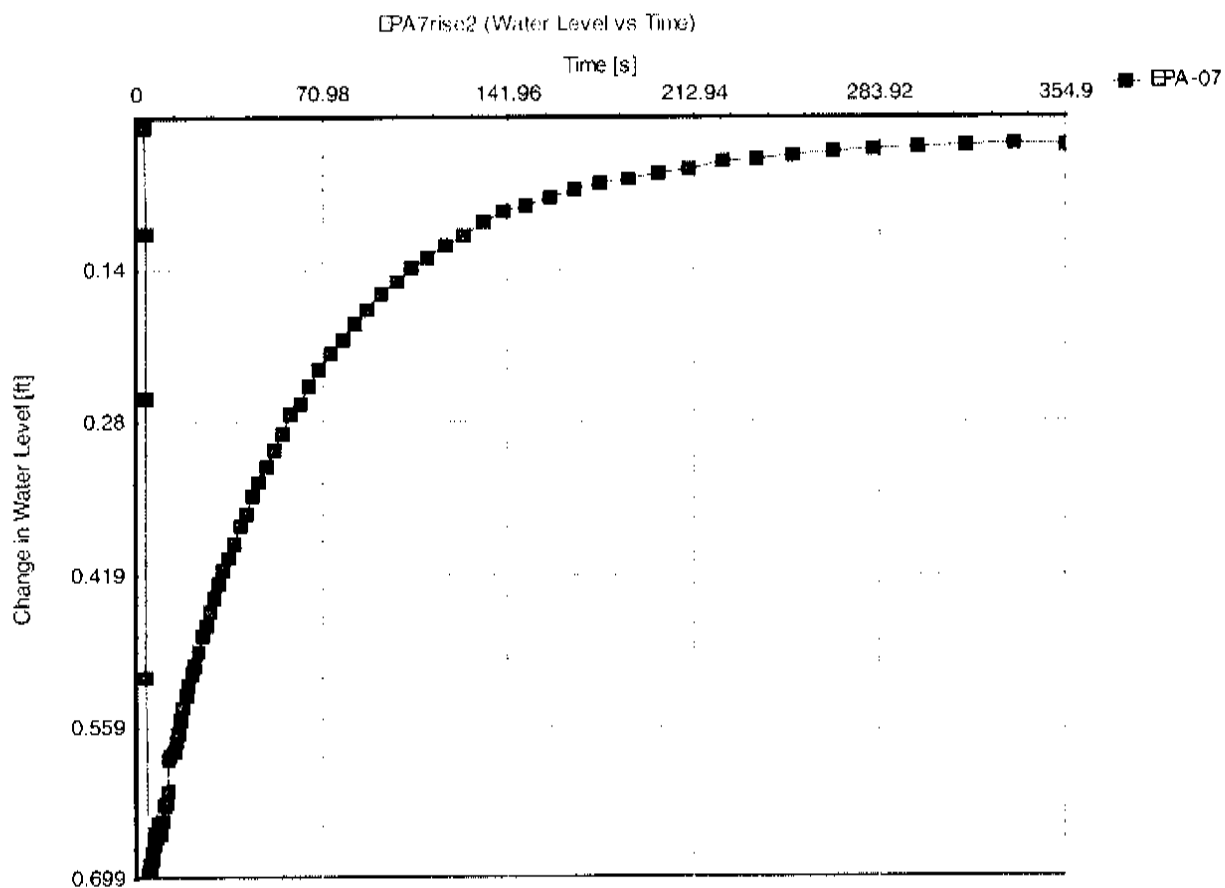
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA



Test name: EPA7rise2

Analysis method: Water Level vs Time

Analysis results:

<u>Test parameters:</u>	Test well:	EPA-07	Aquifer thickness:	6 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



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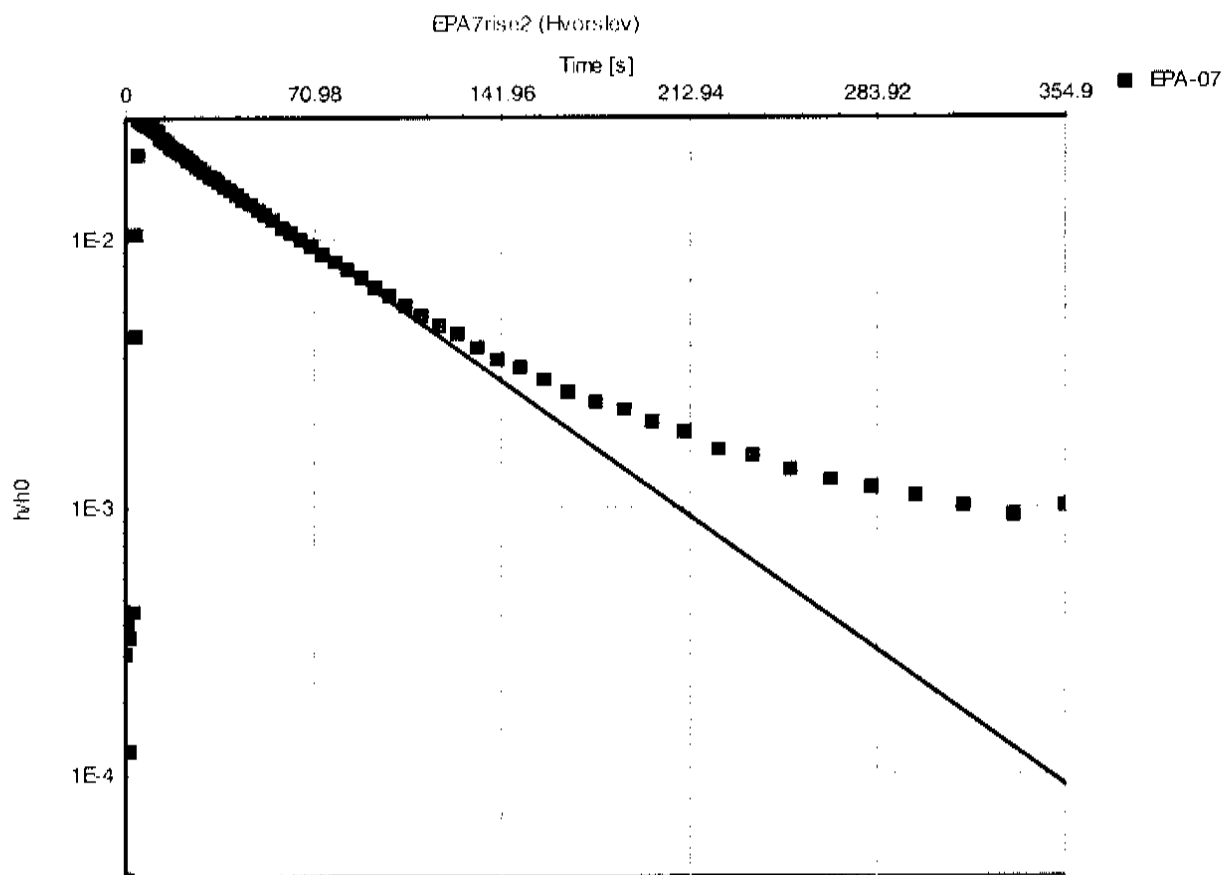
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA

Test name: EPA7rise2Analysis method: HvorslevAnalysis results:

Conductivity: 9.40E-4 [cm/s]

Test parameters:

Test well: EPA-07

Aquifer thickness: 6 [ft]

Screen radius: 0.33333 [ft]

Screen length: 5 [ft]

Casing radius: 0.08333 [ft]

Comments:

Evaluated by: MK

Date: 12/5/2008



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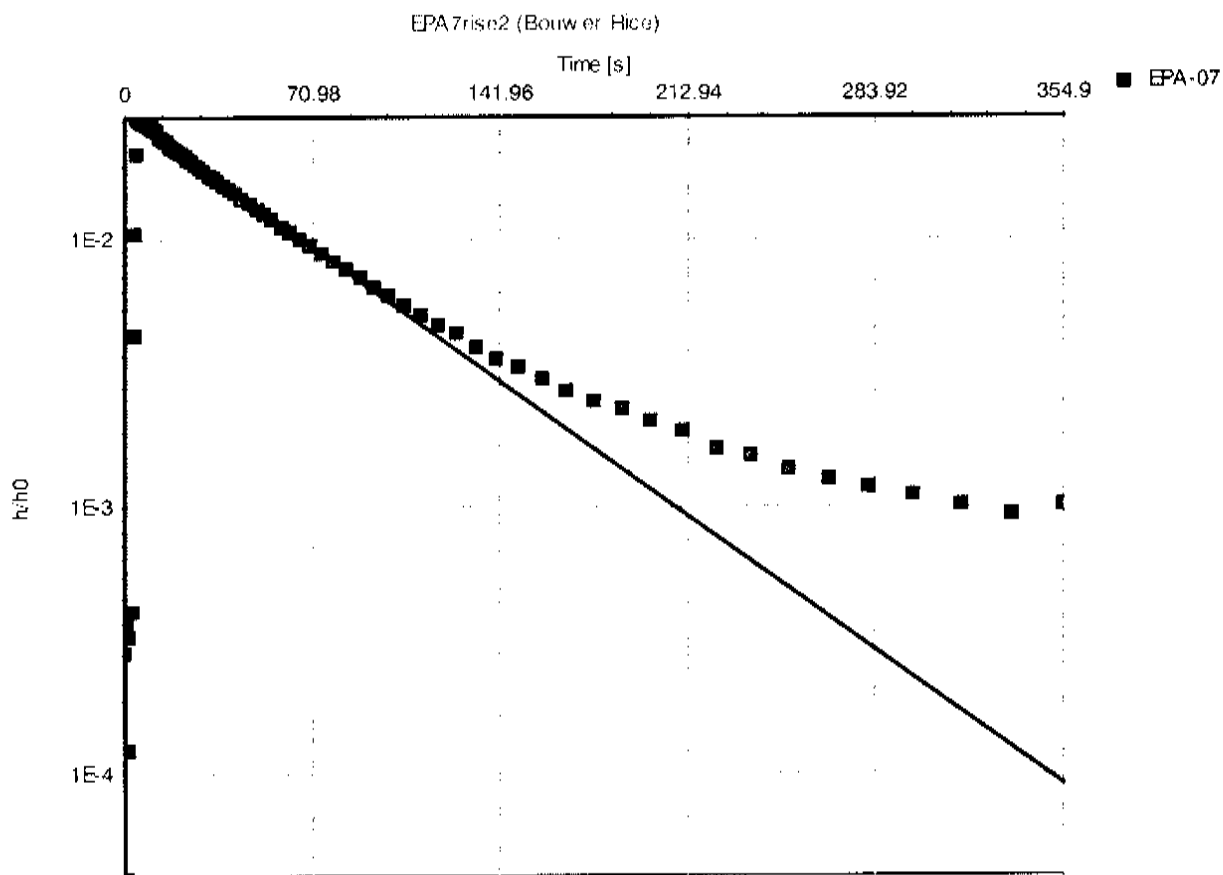
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA

Test name: EPA7rise2Analysis method: Bouwer-RiceAnalysis results:

Conductivity: 7.39E-4 [cm/s]

Test parameters:

Test well: EPA-07

Aquifer thickness: 6 [ft]

Screen radius: 0.33333 [ft]

Gravel pack Porosity (%) 25

Screen length: 5 [ft]

Casing radius: 0.08333 [ft]

r(eff): 0.182 [ft]

Comments:

Evaluated by: MK

Date: 12/6/2008



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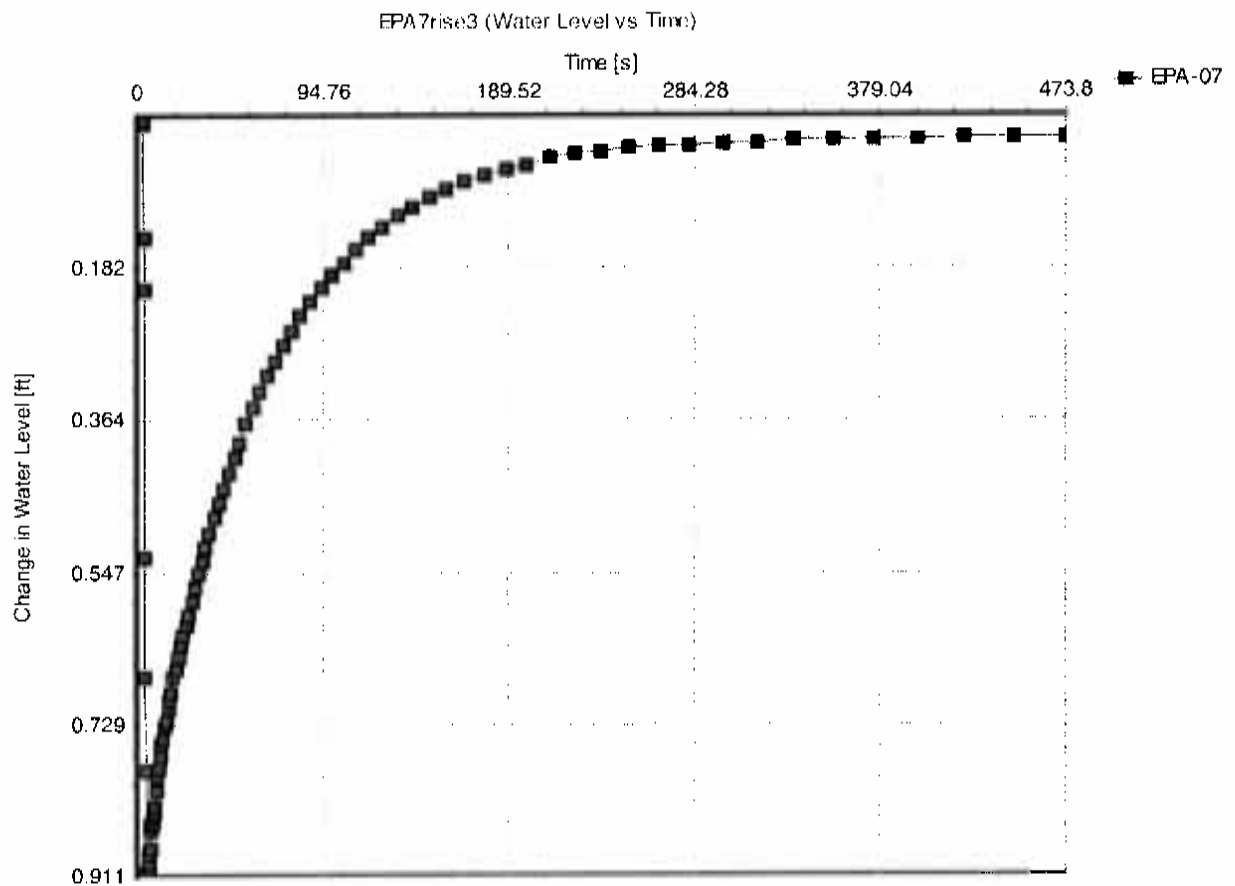
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA

**Test name:** EPA7rise3**Analysis method:** Water Level vs Time**Analysis results:**

Test parameters:	Test well:	EPA-07	Aquifer thickness:	6 [ft]
	Screen radius:	0.33333 [ft]		
	Screen length:	5 [ft]		
	Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



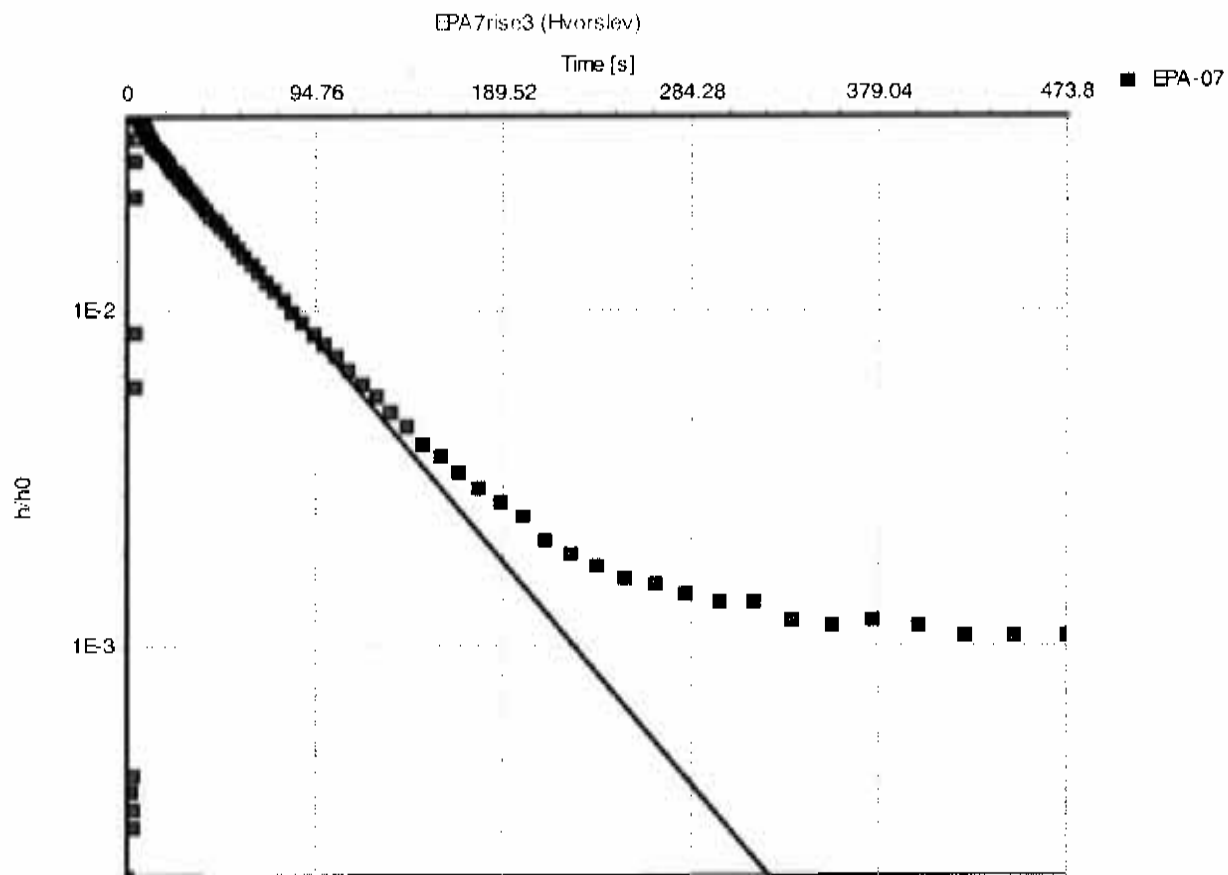
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Morris Plains, NJ 07950
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site
No: 106-1945.2149
Client: USEPA



Test name: EPA7rise3

Analysis method: Hvorslev

Analysis results:

Conductivity: 9.25E-4 [cm/s]

Test parameters:

Test well:	EPA-07	Aquifer thickness:	6 [ft]
Screen radius:	0.33333 [ft]		
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2008



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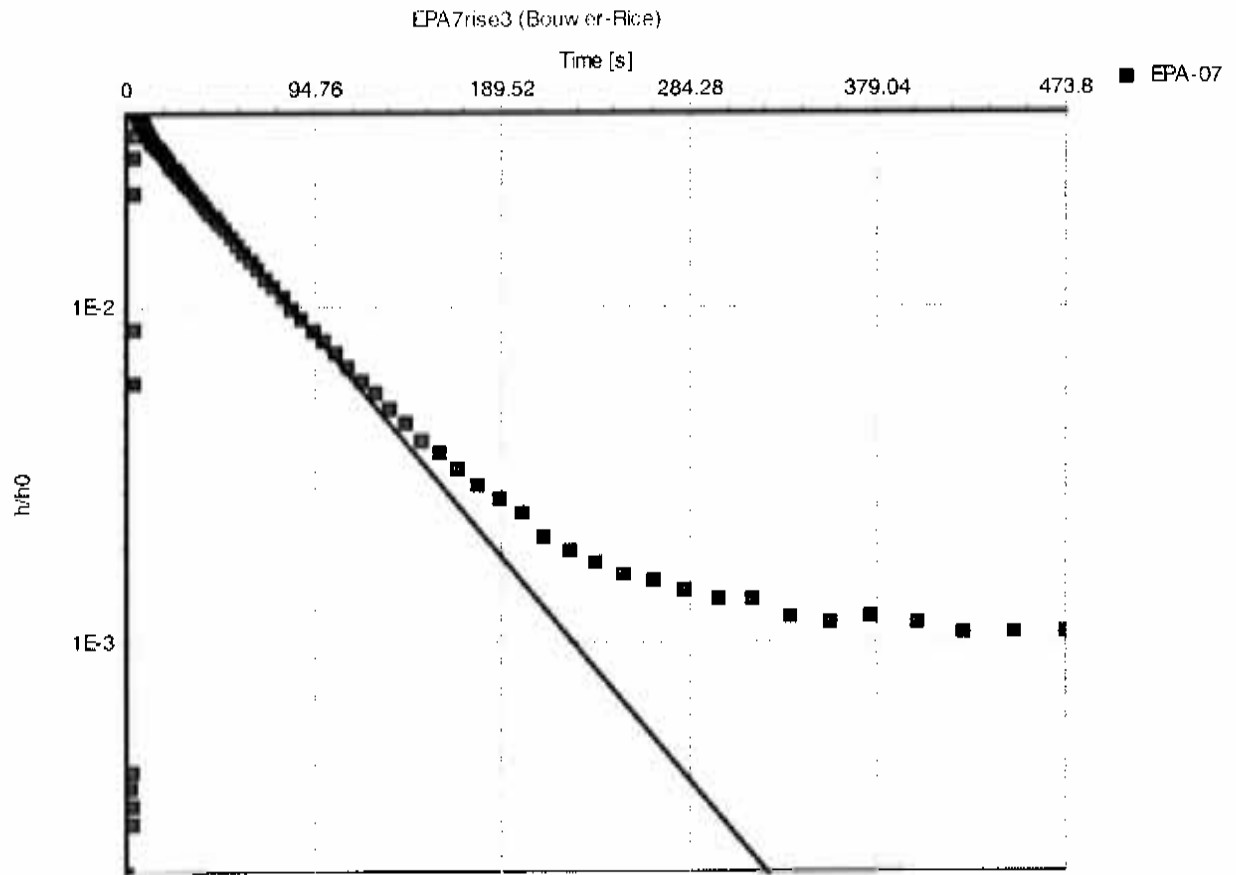
973-630-8000

Slug Test Analysis Report

Project: Ellenville Scrap Iron and Metal Site

No: 106-1945.2149

Client: USEPA

Test name: EPA7rise3Analysis method: Bouwer-RiceAnalysis results:

Conductivity: 7.30E-4 [cm/s]

Test parameters:

Test well:	EPA-07	Aquifer thickness:	6 [ft]
Screen radius:	0.33333 [ft]	Gravel pack Porosity (%)	25
Screen length:	5 [ft]		
Casing radius:	0.08333 [ft]		
r(eff):	0.182 [ft]		

Comments:

Evaluated by: MK

Date: 12/5/2006

Summary of Slug Test Data - Ellenville Scrap Iron and Metal Site
34 Cape Avenue, Ellenville, NY

Individual Monitoring Well Hydraulic Conductivity Values

Well	Test	Hydraulic Conductivity			
		Hvorslev (1951)		Bouwer and Rice (1976, 1989)	
		cm/sec	ft/day	cm/sec	ft/day
EPA-03	EPA3fall1	9.11E-04	2.58E+00	7.67E-04	2.17E+00
	EPA3fall2	1.12E-03	3.18E+00	9.41E-04	2.67E+00
	EPA3fall3	8.42E-04	2.39E+00	7.11E-04	2.02E+00
	Geometric Mean (Falling Head)	9.51E-04	2.70E+00	8.01E-04	2.27E+00
	EPA3rise1	1.71E-04	4.85E-01	1.44E-04	4.08E-01
	EPA3rise2	9.50E-05	2.69E-01	7.97E-05	2.26E-01
	EPA3rise3	1.33E-04	3.77E-01	1.11E-04	3.15E-01
	Geometric Mean (Rising Head)	1.29E-04	3.67E-01	1.08E-04	3.07E-01
	Geometric Mean (F. and R. Head)	3.51E-04	9.94E-01	2.95E-04	8.35E-01
EPA-04	EPA4fall1	3.55E-04	1.01E+00	3.39E-04	9.61E-01
	EPA4fall2	2.71E-04	7.68E-01	2.57E-04	7.29E-01
	EPA4fall3	3.05E-04	8.65E-01	2.95E-04	8.36E-01
	Geometric Mean (Falling Head)	3.08E-04	8.74E-01	2.95E-04	8.37E-01
	EPA4rise1	3.18E-04	9.02E-01	2.99E-04	8.48E-01
	EPA4rise2	3.20E-04	9.07E-01	2.99E-04	8.48E-01
	EPA4rise3	3.13E-04	8.87E-01	2.97E-04	8.42E-01
	Geometric Mean (Rising Head)	3.17E-04	8.99E-01	2.98E-04	8.46E-01
	Geometric Mean (F. and R. Head)	3.13E-04	8.86E-01	2.97E-04	8.41E-01
EPA-05	EPA5fall1	2.98E-04	8.45E-01	2.89E-04	8.19E-01
	EPA5fall2	3.14E-04	8.90E-01	3.04E-04	8.62E-01
	EPA5fall3	3.11E-04	8.82E-01	2.99E-04	8.48E-01
	Geometric Mean (Falling Head)	3.08E-04	8.72E-01	2.97E-04	8.43E-01
	EPA5rise1	2.15E-04	6.10E-01	2.08E-04	5.90E-01
	EPA5rise2	2.59E-04	7.34E-01	2.50E-04	7.09E-01
	EPA5rise3	2.64E-04	7.48E-01	2.56E-04	7.26E-01
	Geometric Mean (Rising Head)	2.45E-04	6.94E-01	2.37E-04	6.72E-01
	Geometric Mean (F. and R. Head)	2.74E-04	7.78E-01	2.65E-04	7.52E-01
EPA-06	EPA6fall1	9.93E-04	2.82E+00	1.06E-03	3.01E+00
	EPA6fall2	1.34E-03	3.80E+00	1.42E-03	4.03E+00
	Geometric Mean (Falling Head)	1.15E-03	3.27E+00	1.23E-03	3.48E+00
	EPA6rise1	1.26E-03	3.57E+00	1.34E-03	3.80E+00
	EPA6rise2	9.90E-04	2.81E+00	1.04E-03	2.95E+00
	Geometric Mean (Rising Head)	1.12E-03	3.17E+00	1.18E-03	3.35E+00
EPA-07	Geometric Mean (F. and R. Head)	1.14E-03	3.22E+00	1.20E-03	3.41E+00
	EPA7fall1	1.30E-03	3.69E+00	1.02E-03	2.89E+00
	EPA7fall2	1.22E-03	3.46E+00	9.58E-04	2.72E+00
	EPA7fall3	9.08E-04	2.57E+00	7.11E-04	2.02E+00
	Geometric Mean (Falling Head)	1.13E-03	3.20E+00	8.86E-04	2.51E+00
	EPA7rise1	9.06E-04	2.57E+00	7.07E-04	2.00E+00
	EPA7rise2	9.40E-04	2.66E+00	7.39E-04	2.10E+00
	EPA7rise3	9.25E-04	2.62E+00	7.30E-04	2.07E+00
	Geometric Mean (Rising Head)	9.24E-04	2.62E+00	7.25E-04	2.06E+00
	Geometric Mean (F. and R. Head)	1.02E-03	2.90E+00	8.01E-04	2.27E+00

Summary of Hydraulic Conductivity Values

Well	Test	Hydraulic Conductivity			
		Hvorslev (1951)		Bouwer and Rice (1976, 1989)	
		cm/sec	ft/day	cm/sec	ft/day
Summary	Geometric Mean (Falling Head)	6.52E-04	1.85E+00	5.98E-04	1.69E+00
	Geometric Mean (Rising Head)	4.01E-04	1.14E+00	3.66E-04	1.04E+00
	Geometric Mean (F. and R. Head)	5.11E-04	1.45E+00	4.68E-04	1.33E+00
	Minimum Value (F. and R. Head)	9.50E-05	2.69E-01	7.97E-05	2.26E-01
	Maximum Value (F. and R. Head)	1.34E-03	3.80E+00	1.42E-03	4.03E+00