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.

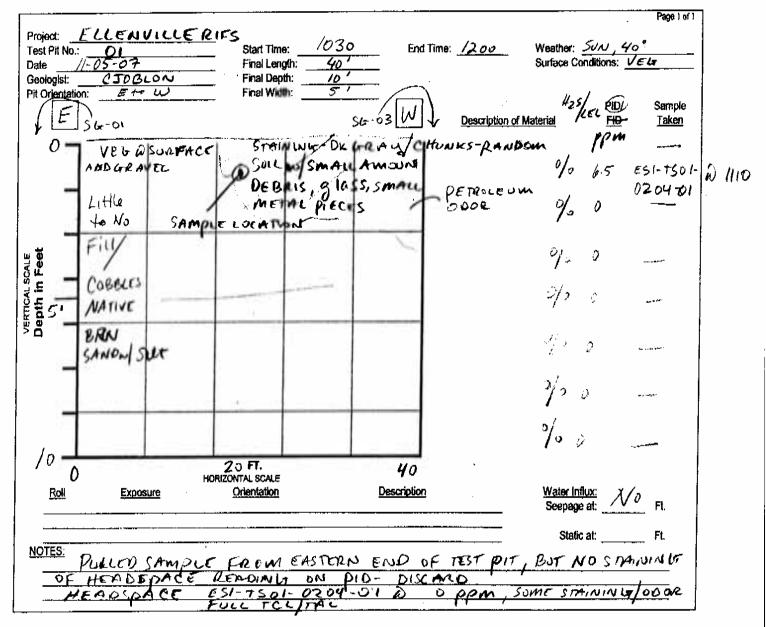


Remaining debris on the lower plateau as observed during HDR site visit in December, 2009.

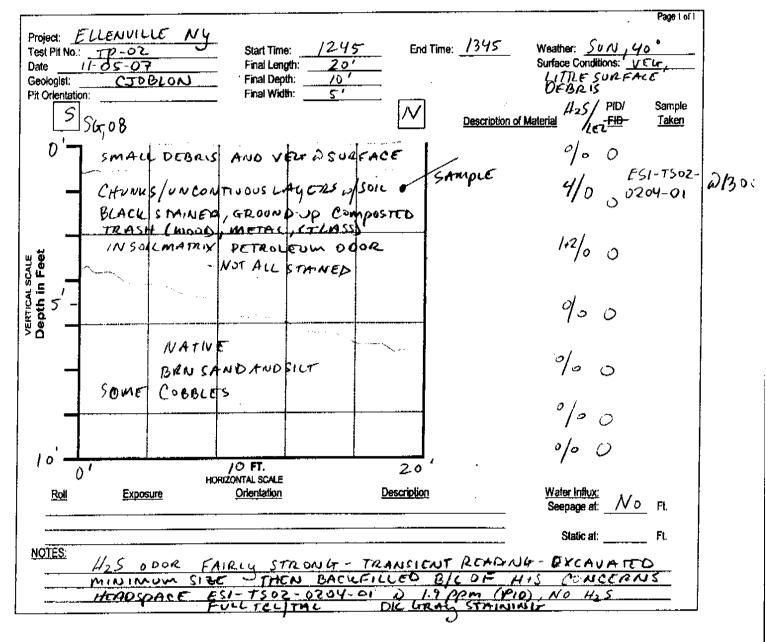
APPENDIX B

**TEST PIT LOGS** 

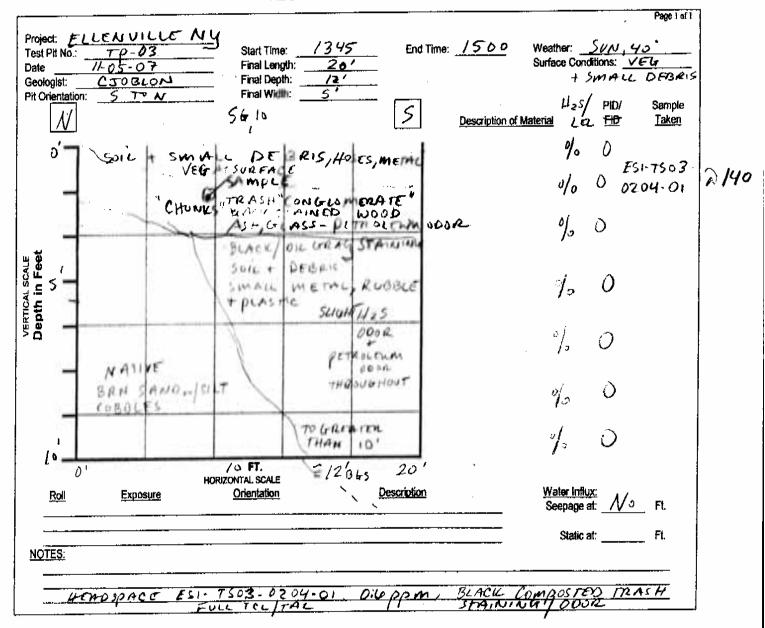
### FIGURE 5-4 TEST PIT/TRENCH LOG (TYPICAL) ELLENVILLE SCRAP IRON AND METAL SITE



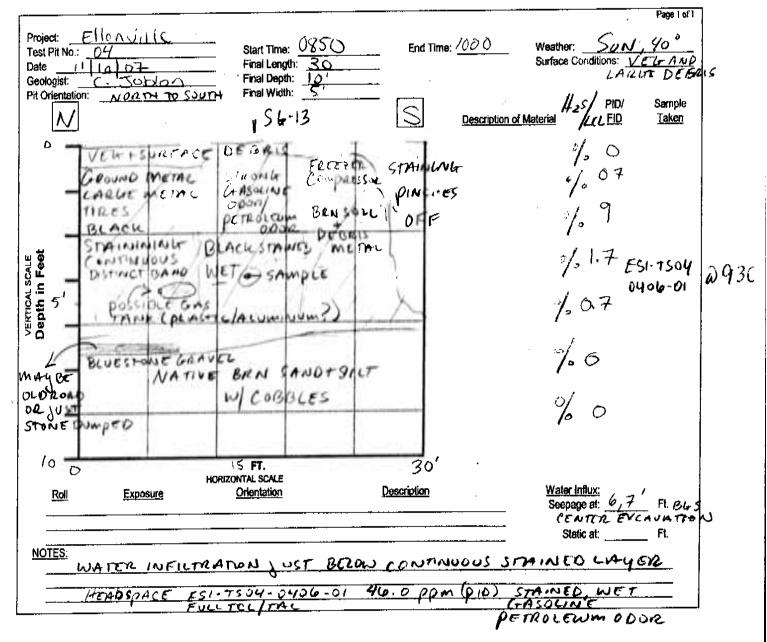
### FIGURE 5-4 TEST PIT/TRENCH LOG (TYPICAL) ELLENVILLE SCRAP IRON AND METAL SITE



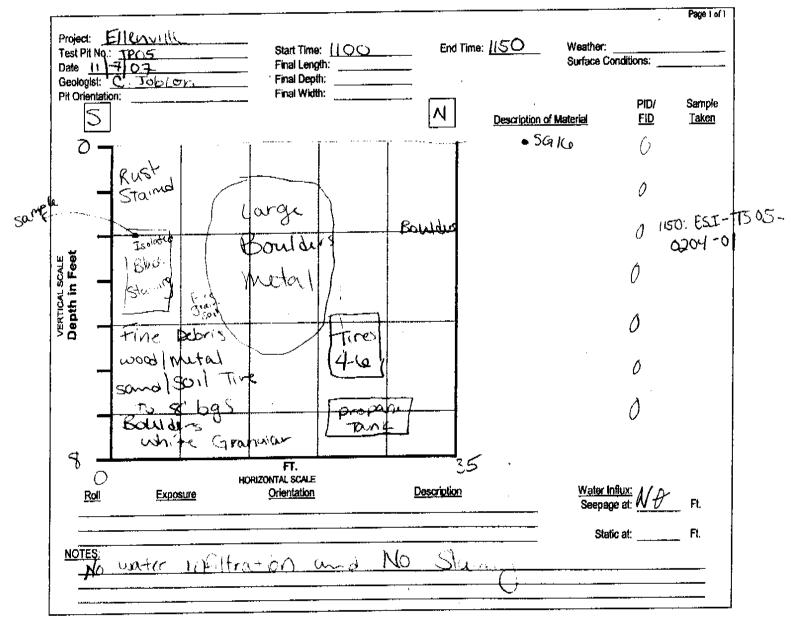
## FIGURE 5-4 TEST PIT/TRENCH LOG (TYPICAL) ELLENVILLE SCRAP IRON AND METAL SITE



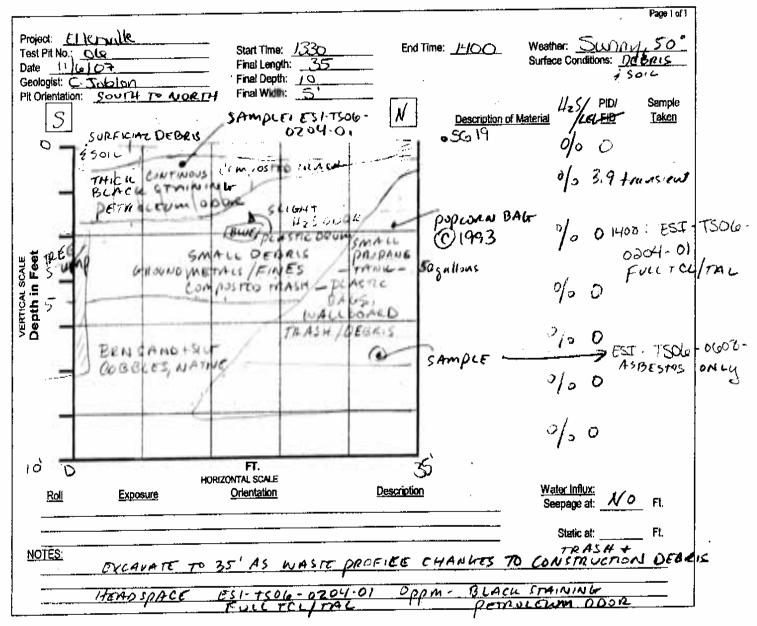
## FIGURE 5-4 TEST PIT/TRENCH LOG (TYPICAL) ELLENVILLE SCRAP IRON AND METAL SITE



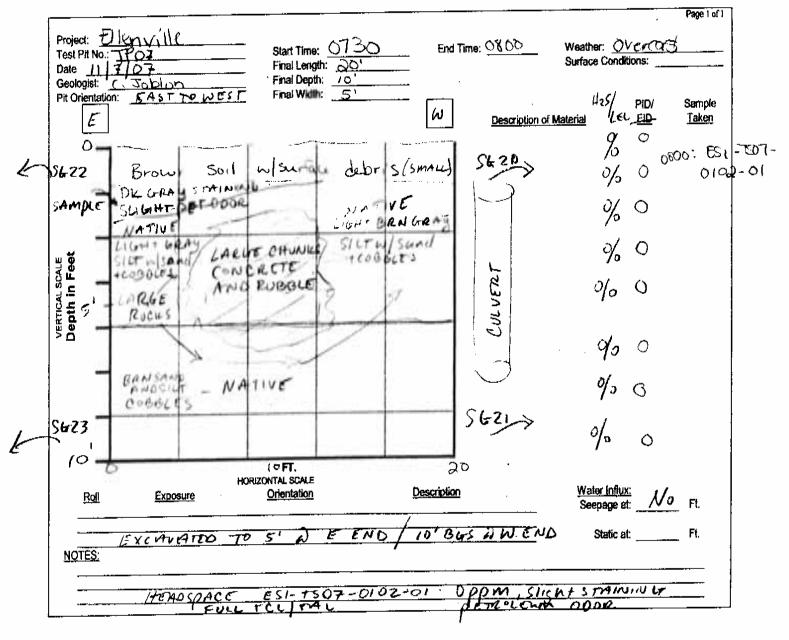
## FIGURE 5-4 TEST PIT/TRENCH LOG (TYPICAL) ELLENVILLE SCRAP IRON AND METAL SITE



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

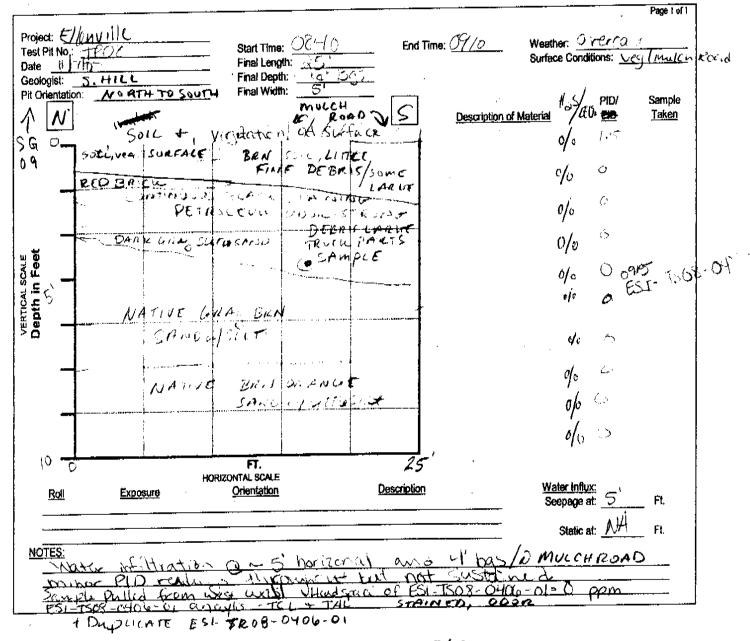


# FIGURE 5-4 TEST PIT/TRENCH LOG (TYPICAL) ELLENVILLE SCRAP IRON AND METAL SITE



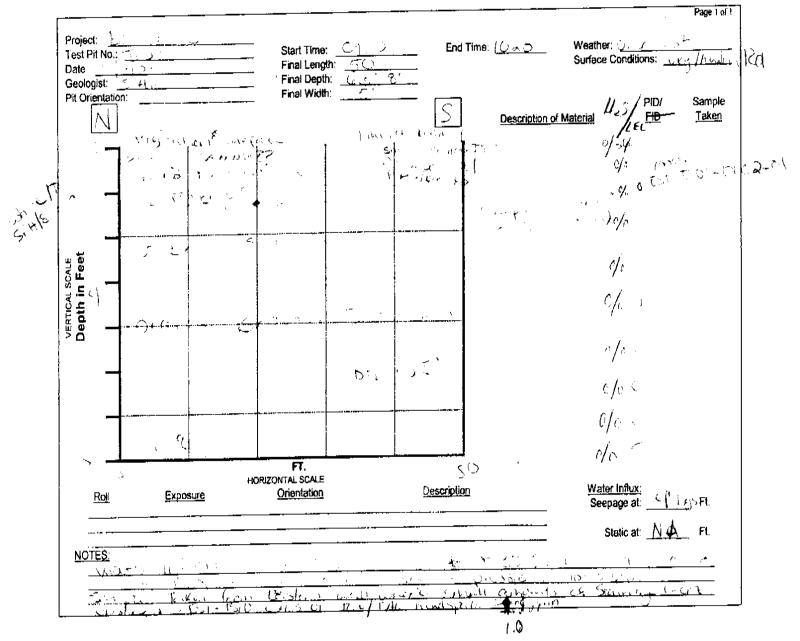
### FIGURE 5-4 TEST PIT/TRENCH LOG (TYPICAL) ELLENVILLE SCRAP IRON AND METAL SITE

#### TETRA TECH EC, INC. TEST PIT/TRENCH LOG

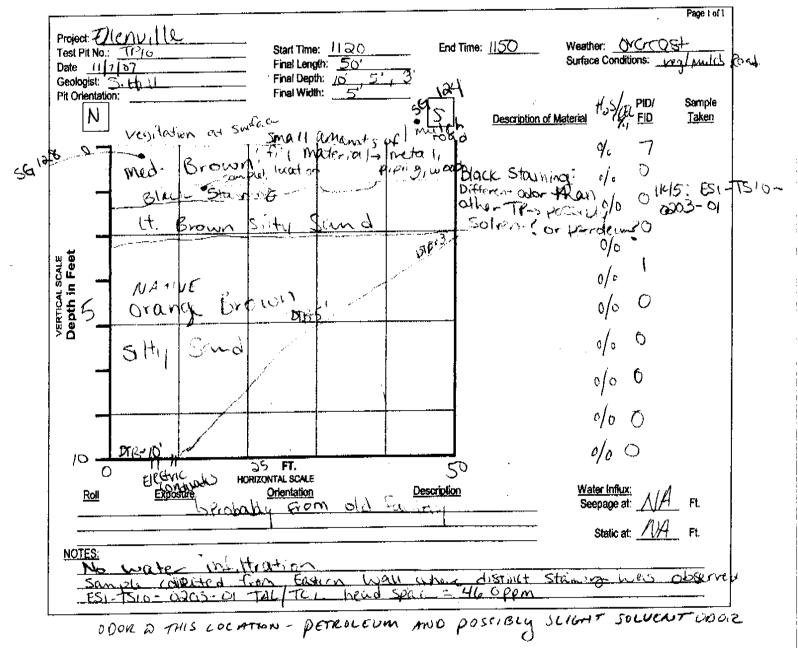


- NOTE STAINING TO DEPTH OF APPROX 5'D SOUTH END - LENGTH OF 25' TO EXCANATE FROM SG-09 TO START OF MOUNDIDEBRIS TO SOUTH

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



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



**APPENDIX C** 

**DIRECT PUSH BORING LOGS** 

		, F	Project Name	e: Ellenville Scrap Iron	Site Id: D	P-001				
			[ownship/Rar		Coordinat	te X: 518	177.96			
	. Williams		ogged By: S	. Hill	Coordinate Y: 1052804.65					
4		•	rilling Metho	od: Geoprobe	Total Depth: 10.00'					
					Date Sta	rted: 11/	12/07			
Remo					Date Con			)7	· · · · · · · · · · · · · · · · · · ·	
in th collec 0730	e soil et gra (11/	core oundw 13/0	e. Driller ad ater sample 7) collect wa	n 2—4' because of rock lvanced to 15' bgs to . 1500 (11/12/07) and ater sample ESI—HW01—00 bace = 0.0 ppm.						
Depth	Recovery %	USCS Code	Graphic Log	Material Description		Date	PID	e	Notes	
	70	OL		· · · · ·		11/12/2007	0.00			
	, ,		┝┭╜┯╵┯╵┣╸╠┑	0—0.5': Dark brown Organic soil,	dry.	11/12/2007	0 ppm 0 ppm			
1-				0.5-1': Medium brown Silty SANI	D,	-	0 ppm 0 ppm			
		SM		organics, moist.						
2-				1-2': Dark brown Silty SAND wit	h ankhi				2-4.5': 14:15	
				-	n cooples,					
7				dry.					collect soil sample	
3-		SP		2-4.5': Dark brown poorly grade	d SAND,				ESI-DP01-02-04-01	
		5		dry.					(MS/MSD).	
4										
			0-0-0-0	4.5-5': Gray GRAVEL, dry.						
5-	60			5-6.5': Gray GRAVEL, dry.			0			
	БŲ		1 1				0 ppm			
		GW					0 ppm			
6-			p.o. O. o.				0 ppm			
				6.5-8': Brown poorly graded SAN	ND with		0 ppm		Approximate groundwater level	
7-		SP		gravel, wet.					© 6.5' bgs.	
8-				8–10': Brown Silty SAND.						
				O TO, DIOWN SILLY SAND.						
9-		SM								
10-			╞╢┈╧╵╧╵╧╷┥	End of Boring						
11-										
12-										
13-										
14 -										

and and an init of the second s	an 'n Your avool	P	roject Name	e: Ellenville Scrap Iron	Site Id: D	P-002					
And	Township/Range:					Coordinate X: 518268.28					
			ogged By: S		Coordinate Y: 1052732.17 Total Depth: 10.00'						
		🕨 🕴 D	rilling Metho	od: Geoprobe							
Autopoor manage	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Name and Party of the Party of			Date Sta						
Remo		<b>.</b>			Date Con	npleted: 1	1/13/0	)7			
colled	ct wa	ter so	place temp omple ESI-H .0 ppm.	oorary well point. 10:00 1W02—0010—01. Soil Sample							
F	very %	Code	Graphic Log	Material Description					Notes		
Depth	Recovery	nscs	Grapt	·		Date	OId	FID			
	40	<b>C</b> 14				11/13/2007	0 ppm				
		SM		0—1": Dark brown Organic Silty :			0 ppm 0 ppm				
1-			· · · · · · · · · · · · · · · · · · ·	some root material, glass pieces	s, moist.		0 ppm 0 ppm		1-5': 09:30 collect		
				1-5': Light brown SAND with gr	avel, dry.		о ррт		sample ESIDP02030501.		
2-											
							0 ppm				
3-		SP									
4 -							0 ppm				
5-	70			5—10': Gray brown Silty SAND, s	aturated.		0 ppm		Approximate		
6-							0 ppm		groundwater level Ø 5' bgs.		
7											
,		SM									
8-							0 ppm				
9-							0 ppm				
10-		:		End of Boring			0 ppm				
11											
12-											
13-											
14 -											

and the second		P	roject Name	e: Ellenville Scrap Iron	Site Id: D	P-003						
Diana ja	Township/Range: Coordina						oordinate X: 518101.53					
		L	ogged By: S	. Hill	Coordinate Y: 1052837.78							
ŝ.	. S	D	rilling Metho	od: Geoprobe	Total Depth: 10.00'							
	and a state of the second				rted: 11/	13/07						
Remo					npleted: 1	1/13/0	7					
14:30	) colle	ect a	i bgs and s queous sam adspace = (	set temporary well point. ple ESI—HW03—0013—01. 0.0 ppm.								
Depth	Recovery %	USCS Code	Graphic Log	Material Description		Dote	QIA	FID	Notes			
	80											
	00			0—1.5': Dark brown Silty SAND w	vith	11/13/2007	0 ppm					
1 1-		SM		organics, moist.			0 ppm	•				
				+	val dev		0 ppm					
2-		GW			-		0 ppm					
			م م م	2.2-2.7': Reddish brown SAND w	nth Gravel,		- <b>F</b> F					
				dry.								
3-				2.7–5: Brown / light brown poo	rly							
				groded SAND, with gravel, dry.								
4-												
5-												
	70			5—7': Brown / light brown well—sc	orted SAND		0 ppm		5-10': 14:00 collect			
6-		SP		with gravel, dry.					soil sample ESI-DP03 -0608-01.			
7-				7—8: Brown Silty SAND, moist.			0 ppm					
8-				8—10: Brown Silty SAND, saturat	ed.		0 ppm		Approximate			
									groundwater level			
9-									<b>@</b> 8' bgs.			
10-			·····	End of Boring			0 ppm					
11-												
12-												
13-												
14-												

		л <del>і — — — — — — — — — — — — — — — — — — —</del>	e: Ellenville Scrap Iron	Site Id: D	P-004				
Drilling Method: Geoprobe     Total Depth: 6.00'       Remarks: No temporary well point installed or aqueous sample collected from this location because refusal was hit before groundwater was encountered. Soil Sample     Date Started: 11/14/07       Image: Started:				4					
Remarks:       Date Started: 11/14/07         Remarks:       Date Started: 11/14/07         No temporty well point installed or aqueous sample callected from this location because refusal was into before groundwater was encountered. Soil Somple Headspace = 0.0 ppm.       Date Completed: 11/14/07         Image: Started in this location because refusal was into before groundwater was encountered. Soil Somple Headspace = 0.0 ppm.       Material Description       Image: Started into the started intothe started into the started into the started into the started int									
Remarks: No temporary well point installed or aqueous sample collected from this location because refusal was hit before groundwater was encountered. Soil Somple Headspace = 0.0 ppm.       Date Completed: 11/14/07		Drilling Metho	d: Geoprobe						
No temporary well point installed or aqueous sample collected from this location because refusal was hit before groundwater was encountered. Soil Somple Headspace = 0.0 ppm.		<u> </u>							
40       OH       0-1': Dark brown Silty SAND, organics.       11/14/2007       0 ppm 0 ppm 0 ppm       1-5': 8:50 collect sample ESI-DP04- 0204-01.         2-	No temporar collected fro hit before g	om this location groundwater was	because refusal was	Date Com	npleted: 1	1/14/0			
1       0-1': Dark brown Silty SAND, organics.       0 ppm         1-5': Medium brown Silty SAND with       0 ppm         2-       1-5': Medium brown Silty SAND with         3-       SM         4-       5-         5-       100         56': Medium brown Silty SAND with         gravel, dry.         5-6': Medium brown Silty SAND with         9pm         0 ppm         0 ppm         0 ppm         5-6': Medium brown Silty SAND with         9pm		USCS Code Graphic Log	Material Description		Date	Old	НD	Notes	
9-       10-       11-       12-       13-       14-	1- 2- 3- 4- 5- 100 6- 7- 8- 9- 10- 11- 12- 13-	SM	1—5': Medium brown Silty SAND gravel, dry. 5—6': Medium brown Silty SAND gravel, dry.	with	11/14/2007	0 ppm 0 ppm 0 ppm 0 ppm 0 ppm 0 ppm		5–6': 6' bgs hit	

, janätaisen kiikkon (kiik		Project Name	e: Ellenville Scrap Iron	Site Id: D	P-005				
		Township/Rar	Coordinate X: 517283.00						
	enni i	Logged By: S	. Hill	Coordinate Y: 1053249.14					
	1. Ver	Drilling Metho	od: Geoprobe	Total Depth: 10.00'					
A CONTRACT OF CONTRACTOR	and a start of the			Date Sta					
Remarks				Date Com	npleted: 1	1/14/0	)7		
Advance	ed to 1 Follect	5 bgs and s	set temporary well point. ple ESI-HW05-0012-01						
(MS/MS	D). So	pil Sample He	eadspace = 0.0 ppm.						
			T			}	r		
6	0	60J							
Depth	Code 6		Material Departation					Notes	
Depth	5 8	Graphic	Material Description		e.			Notes	
	USCS	E			Date	입	Ê		
		╺╾╉╾╓┈╍╖┈╶╓╴							
6(	0 OL	╞╍║╼╍╟╾╽	0-0.5': Dark brown Organic soil,	silty SAND	11/14/2007	0 ppm			
1-			moist.	and armag		0 ppm 0 ppm			
	SP					0 ppm			
			0.5-2': Medium brown poorly gro	lded	-				
2			SAND with gravel, moist.						
			2-5": Tan GRAVEL with sand, dr	у.					
3				-					
4	GP	▶.●. ●. ●							
5 60			5—6': Tan GRAVEL with sand, dr	y.		0 ppm		5-6': 10:50 collect	
						0 ppm		soil sample ESI-DP05-	
6-						0 ppm 0 ppm			
			6-8': Medium brown poorly grade	ed SAND,		Uppm		050701.	
			with gravel, moist to wet.						
7-	SP							Approximate	
								groundwater level	
8-			8-10': Brown Silty SAND, with gr	avel.				@ 7'bgs.	
			saturated.						
9-	SM								
10-		┝┹┄┷╶┺╌┖╾╿╼┤	End of Boring						
			-						
11-									
						ĺ			
12-									
13-									
14 -									

(	*****	8		e: Ellenville Scrap Iron	Site Id: D	P-006			· · · ·		
873. AND			ownship/Rar		Coordinat			,			
	Berry of		ogged By: S		Coordinate Y: 1053157.81						
🛎 🗫 Drilling Method: Geoprobe						th: 7.00					
And the owner of the						Started: 11/14/07					
collect hit be	mpor ted f fore	rom groui	this location	stalled or aqueous sample a because refusal was encountered. Soil Sample	Date Con	npleted: 1	1/14/0	7			
Depth	Recovery %	USCS Code	Graphic Log	Material Description		Date	QId	FID	Notes		
1- 2- 3- 4-	100	SP SP GP SP SP		0-0.5': Dark brown Silty SAND, organics. 0.5-3.5': Medium brown (some poorly graded SAND with Gravel. 3.5-4': Tan GRAVEL with some 4-5': Medium brown (some reds graded SAND with Gravel. 5-5.5': Medium brown (some re graded SAND with Gravel. 5.5-6': Tan GRAVEL with some 6-7': Medium brown (some reds graded SAND with Gravel. End of Boring	reds) Sand. 5) poorly ds) poorly Sand.	11/14/2007	0 ppm 0 ppm 0 ppm 0 ppm 0 ppm 0 ppm 0 ppm		5.5-6': 12:05 collect soil sample ESI-DP06- 0507-01, 6-7': 2 attempts hit refusal at 7' bgs.		
14 -											

-		P	roject Name	e: Ellenville Scrap Iron	Site Id: D	P-007						
S							nate X: 517238.21					
							Coordinate Y: 1053169.92					
			rilling Metho	d: Geoprobe		Total Depth: 7.00'						
	Date Sta							. –				
Remo		arv v	vell point ing	stalled or aqueous sample	Date Con	npleted: 1	1/14/0	)/				
colle	cted (	from	this location	) because refusal was								
			ndwater was .0 ppm.	encountered. Soil Sample								
пеца	ispace	U	.u ppm.									
						_		_				
	8	Code	Log					1				
	Recovery		Graphic	Material Description					Notes			
Depth	l S	USCS	de la			Date	0					
ă	œّ	∋	ō			പ്	Old	E E				
	60					11/14/2007	0 ppm					
		SM		0—1': Dark brown Silty SAND wit	h organics.	]	0 ppm					
1-							0 ppm					
		SP		1—2': Medium to dark brown poo	orly graded		0 ppm					
2-				SAND with little Gravel, trace silt	t.							
				2-3.5': Tan GRAVEL with some								
3-		GP		2 JUL ION GRAVEL WITH SUME	JUNU.							
			▶.●. ●.●.									
				3.5-5': Yellow brown Silty poorly	graded							
4 –				SAND with Gravel.								
5-	100			5-7': Medium brown (some reds)	Silty poorly		0 ppm		5-7': Refusal at			
	100	SM		graded SAND with Gravel.								
6-				graded SAND with Gravel.			0 ppm		7' bgs; 14:10 collect			
	•						0 ppm		soil sample ESI-DP07-			
							o ppin		0507-01.			
7-			┟┚┈┵╴┖╴╙╌╢╌┥	End of Boring			0 ppm					
8-												
	1											
9-												
10-												
11-												
12-												
13-												
14												
			l									

- Product Hans I'd ray (Station Vorder Laboratory	P	roject Name	: Ellenville Scrap Iron	Site Id: D	P-008			NII - 1 - IIIII - IIII - III - IIII - III - IIII - III	
		wnship/Ran		Coordinat					
		ogged By: S.		Coordinat			3		
	D	rilling Metho	d: Geoprobe	Total Depth: 9.50					
Same and the second				Date Started: 11/14/07					
Remarks:		مال معتسة لمع		Date Con	npleted: 1	1/14/0	7		
collected fro	ryw smrt	ell point ins his location	stalled or aqueous sample because refusal was						
hit before g	rour	idwater was	encountered. Soil Sample						
Headspace =	= 0.	0 ppm.							
24	Code	Log							
Depth Recovery	ပိ		Material Description					Notes	
Depth Recov	uscs	Graphic	Material Description			-			
Re Del	Ω	5			Date	DID	ЫD		
50			0-1.5': Medium brown Silty SANI	) with	11/14/2007	0 ppm			
1-	SM		some Organics, little gravel, mois		0 ppm				
					0 ppm				
			1.5-4': Medium brown poorly gro		0 ppm				
2-			SAND with little Gravel.			- pp			
3-									
	ŚP								
4			4-5': Poorly graded SAND with	aravel.					
			· · · · · · · · · · · · · · · · · · ·						
5- 44			5-5.5': Medium brown poorly gro	ided SAND					
		┎╶╼╶╼╴╺	with Gravel.			0 ppm		5.5—9.5': Refusal	
6-			5.5-6': Reddish GRAVEL with so	ne Sand.				at 9.5' bgs; 14:20	
			67': Tan GRAVEL with some Sa	ınd.				collect soil sample	
7-			7-9.5': Medium brown poorly graded			0 ppm		ESI-DP08-0709-01.	
				E SAND WITH				E31-DF08-0709-01.	
1 1 1	GP		some Gravel.						
8-						0 ppm			
		•							
9-		▶. ● : ● . ●							
			End of Boring			0 ppm			
10-			cc						
11-									
				1					
12-									
17									
13-									
14-									
· · · · · · · · · · · · · · · · · · ·									

ť	Project Name: Ellenville Scrap Iron				Site Id: DP-009					
		1.0	ownship/Ran		Coordinat					
			ogged By: S.		Coordinat			5		
	N.	D	rilling Metho	d: Geoprobe	Total Depth: 7.00'					
Contract and a					Date Started: 11/14/07					
Rema					Date Con	npleted: 1	1/14/0	)7		
collec hit be	ted f efore	irom groui	this location	stalled or aqueous sample because refusal was encountered. Soil Sample						
Depth	Recovery %	USCS Code	Graphic Log	Material Description	1	Date	DIG	ED	Notes	
	E 0									
1- 2-	50	SM	0 0	0—0.5': Dark brown Silty SAND Organics. 0.5—5': Well graded SAND with (		11/14/2007	0 ppm 0 ppm 0 ppm 0 ppm			
3-		sw	0 0 0 0							
5-	100			5—7': Medium brown poorly grad with little Gravel.	ed SAND		0 ppm		5-7': Refusol at 7' bgs: 15:40 Collect	
6-		SP					0 ppm		soil sample ESI-DP09-	
7-				End of Boring						
8-										
9-										
10-		:								
11-										
12-										
13-										
14 -										

(*************************************	99/6744 - NAC2			: Ellenville Scrap Iron	Site Id: D				······································
	221 2		ownship/Ran		Coordinat				
	s) see		ogged By: S.		Coordinat			3	
4	8	D	rilling Metho	d: Geoprobe	Total Dep				" <b>.</b>
	· <u></u>				Date Sta	rted: 11/	14/07		
Rema					Date Con	npleted: 1	1/14/0	)7	
collec hit be	ted fi efore	rom t grour	this location	tailed or aqueous sample because refusal was encountered. Soil Sample					
Depth	Recovery %	USCS Code	Graphic Log	Material Description		Date	DIA	FID	Notes
1	75	ŜМ		0-0.5': Dark brown Silty SAND wit 0.5-5': Medium brown poorly graded		11/14/2007	0 ppm 0 ppm 0 ppm 0 ppm		
			┞┤┤└└╎┥	some Gravel.					
2-									
3-									
4 -									
		SP							
_									
5-	100			5-7': Medium brown poorly graded	SAND with		0 ppm		5-7': Refusal at
	1			some Gravel.					7° bgs; 1720 Collect
6-							0 ppm		soil sample ESI-DP10-
									0507-01.
-									0507-01.
7-				End of Boring					
8-	ŀ				í				
9-									
10-	Í	-						:	
11-									
10									
12-	ļ								
13-									
14			I						

and the second s	anthigh Lath, Alvef	P	roject Name	e: Ellenville Scrap Iron	Site Id: D	P-011			••••••••••••••••••••••••••••••••••••••		
M-S			ownship/Rar		Coordinat						
	S ALLEN		ogged By: S.		Coordinat			5			
A.		D	rilling Metho	d: Geoprobe	Total Depth: 10.00'						
Revenue (no.	n mutanya mata	<u></u>			Date Started: 11/14/07						
Rema			• • •		Date Con	npleted: 1	1/14/0	7			
At 17	':40 d	collec	ted aqueous	set a temporary well point. s sample ESI—HW11—07 space = 0.0 ppm.							
Depth	Recovery %	USCS Code	Graphic Log	Material Description		Date	PID	FID	Notes		
		•••••									
	100	SM		0—1': Dark brown Silty SAND, m	oist.	11/14/2007	0 ppm 0 ppm				
1-			μцг	0.5–5': Medium brown poorly gr			0 ppm				
							0 ppm				
2-				with some Gravel, moist.							
27	ĺ										
3-											
4 -											
_											
5-	40			5—10': Medium brown poorly gra	ded SAND		0 ppm		5–10': 17:40 Collect		
		SP		with some Gravel, moist, wet at	9.5' bgs.				soil sample ESI-DP11-		
6-					_				0709-01.		
									0/00 011		
-7											
7-							0 ppm				
8-							0 ppm				
9-											
		:							Approximate		
10-				End of Boring			0 ppm		groundwater level		
				-					@ 9.5' bgs.		
11-											
.,											
12-											
13-											
14-											

				e: Ellenville Scrap Iron	Site Id: D					
2 1 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SG4		ownship/Rar	-	Coordinat					
		¥8	ogged By: S.		Coordinat			2		
34	1000	D	rilling Metho	d: Geoprobe	Total Depth: 7.00'					
No. or and					Date Started: 11/15/07					
Rema			ali ocint ca	t or aqueous sample	Date Con	npleted: 1	1/15/0	)/		
collec	ted f	rom	this location oter was en	because refusal was hit						
Depth	Recovery %	USCS Code	Graphic Log	Material Description	L	Date	PID	09	Notes	
							· · · · · · · · · · · · · · · · · · ·			
	50	SM		0—0.8': Dark brown Silty SAND v	vith	11/15/2007	0 ppm			
1-			<mark>┢╴╨╶┷┥╸</mark> ┝┥	Organics.			0 ppm 0 ppm			
		GP	₽●●●	_	I		0 ppm			
2-				0.8—1.2': Tan GRAVEL with some						
27				1.2–1.4': Reddish GRAVEL with s	ome Sand.					
				1.4—5': Medium brown poorty gro						
3-				with some Gravel.						
4-										
		SP								
5-				5-7': Medium brown poorly grad			0			
	100				eu JANU		0 ppm		5-7': Refusal at	
				with some Gravel.					7' bgs; 11:45 collect	
6-			, ,,				0 ppm		soil sample ESI-DP12-	
									050701.	
7-				End of Boring						
8-										
9-										
10-										
11-										
12-										
	ſ									
13-										
14-										

			-	e: Ellenville Scrap Iron	Site Id: D						
	1948) 1		ownship/Rar		Coordinat						
		20	ogged By: S		Coordinat						
		D	rilling Metho	d: Geoprobe	Total Depth: 15.00'						
<u> </u>					Date Sta		•				
Remo		harin	- to 10' L	s. 11/19/07 at 12:45	Date Con	npleted: 1	1/15/0	7			
collec	ncea st aqu	ueous	sample ESI	-HW13-0019-01.							
	y %	Code	Log								
	Ver		hic	Material Description					Notes		
Depth	Recovery	nscs	Graphic			Date	a				
ă	ď	Ď	<u>ර</u>			്	Old	FID			
	50	SM				11/15/2007	Q ppm				
				0—0.5': Dark brown Organic silty	/ SAND,		Öpprn Opprn				
1–				moist.			0 ppm				
				0.5-3': Gray brown GRAVEL with a	ray brown GRAVEL with some Sand,						
2-		GP		moist.							
1											
3-			▐▁▁▁▁▁								
				3—5': Medium brown poorly grad							
İ				with some Gravel, little silt, mois	st.						
4 -											
5-	90			5—10': Medium brown poorly gra	ded SAND.		0 ppm				
	30			with some Gravel, little silt, mois			- ""				
6-				war some orgver, nittle sitt, mois							
7-		SP					0 ppm				
					i		o ppin				
8-											
07							0 ppm				
9-							0 ppm				
10-	90			10-11': Medium brown poorly gro	ded SAND		0 ppm		10–11': 12:10 collect		
	50						0 ppm				
11				with some Gravel, little silt, mois			0 ppm		soil somple ESI-DP13-		
11				11-13': Red brown Silty SAND wi	th Gravel,		0 ppm		0911-01.		
				saturated.					Approximate		
12-		SM							groundwater level		
									@ 11'bgs.		
13-			╟⊥└└╎	13-13.5: Dark brown poorly graded :	SAND with						
		<u> </u>									
- A (		SP		little Silt, very hard, wet.							
14-				13.5-14': Green brown poorly grad	ed SAND,						
	4		• • • • · · · • · · · • · · · · · · · ·	······	I				· · · · · · · · · · · · · · · · · · ·		

Coordinate X: 517592.35 Coordinate Y: 1052919.16					
otes					

		P	roject Name	e: Ellenville Scrap Iron	Site Id: D	P-014			······································	
	Nes.		ownship/Rar		Coordinate X: 0.00					
	a an		ogged By: S.		Coordinat					
		D	rilling Metho	od: Geoprobe	Total Depth: 10.00'					
	Same and party	-			Date Started: 11/14/07					
point	nced at 1	5'bg	iole to 15' b s. On 11/1 e ESI-HW14-	ogs and set temporary well 9/07 at 11:55 collected -0015—01.	Date Con	npleted: 1	1/14/0	)7		
Depth	Recovery %	USCS Code	Graphic Log	Material Description		Date	Old	FID	Notes	
	70					11/14/2007	0 ppm			
1- 2- 3-	70			0—1': Dark brown Silty SAND wil and little Gravel. 1—5': Medium brown Silty SAND little Gravel, moist.	-	11/14/2007	0 ppm			
4- 5-	60	SM		5–8.5': Medium brown Silty SAND	with little		0 ppm 0 ppm 0 ppm		5-8.5': 1550 Collect	
6-				Gravel, moist.			0 ppm		soil sample ESI-DP14- 0608-01.	
8-				8.5—10': Light brown Sandy SILT,			0 ppm		Approximate groundwater level	
9-		ML		u.o∽io, Light biown sundy sici,	saturatea.		0 ppm		@ 8.5' bgs.	
10-				End of Boring						
12-										
13-										
14 -										

	ander for ander	P;	roject Name	: Ellenville Scrap Iron	Site Id: D	P-015					
- 10 <b>- 1</b> 0 - 10 - 10 - 10 - 10 - 10 - 10 - 10	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Та	ownship/Ran	ige:	Coordinat	e X: 517	898.43				
	Mark and	Lo	ogged By: S.	Hill	Coordinat	e Y: 105.	2700.25	<u>,</u>			
	(Terr	Dr	rilling Metho	d: Geoprobe	Total Depth: 10.00'						
		∕_			Date Started: 11/16/07						
Rema					Date Com	npleted: 1	1/16/0	7			
point	at 1	5′bgs	ole to 15 b s. On 11/1! ESI-HW15-	ogs and set temporary well 9/07 at 13:15 collected -0015—01.							
Depth	Recovery %	USCS Code	Graphic Log	Material Description		Date	Old	Ð	Notes		
	60					11/16/2007	0				
				0—2.5': Medium brown poorly gr	aded	11/16/2007	0 ppm				
1-		SP		SAND with some Gravel, moist.			0 ppm				
2-							0 ppm				
			╞╶╼╺╸╸	2.5–3': Gray GRAVEL, dry.			0 ppm				
3-		GP		3-5': Medium brown poorly graded	SAND with						
4 -		SM/SP		little Silt and some gravel, mois							
5-	70			5—8.5': Medium brown poorly grade little Silt and some Gravel, mois			0 ppm		5-8.5': 0905: Collect soil sample ESI-DP15-		
6-							0 ppm		0709–01.		
7-		SP					0 ppm				
8-				8.5–9': Gray GRAVEL, dry.			0.000		Approximate		
9-		GP		9—10': Gray GRAVEL with some San	d and little		0 ppm		groundwater level @ 9' bgs.		
10-				Silt, saturated. End of Boring							
11-											
12-											
13–											
14-											

		P	roject Name	: Ellenville Scrap Iron	Site Id: D	P-016				
		T	ownship/Ran	nge:	Coordinate X: 517984.64					
	Real Property		ogged By: S.		Coordinat			)		
	19 and 19	D	rilling Metho	d: Geoprobe	Total Depth: 10.00'					
					Date Started: 11/15/07					
Remo				1 h h	Date Com	npleted: 1	1/15/0	7		
point	at 1	5' bas	ole to 15 b s. On 11/19 ESI-HW16-	ogs and set temporary well 9/07 at 12:30 collected -0015-01.		1				
Depth	Recovery %	USCS Code	Graphic Log	Material Description		Date	0		Notes	
Ď	Ъе	Sn	Ū			<u> </u>	DIA	E		
	40					11/15/2007	0 ppm			
		OL		0—1.5': Brown Organic Soil, mois	st.		0 ppm			
1-							0 ppm			
		00	لم ا بسرا است ا بسرا ا بط ا	1.5—2': Gray GRAVEL, dry.						
2-		GP		2—3': Light brown poorly graded	SAND		0 ppm			
		SP	,	with little Gravel.						
3-				3-4': Gray GRAVEL with some poorly g	raded Sand.					
		GP		· · · · · · · · · · · · · · · · · · ·						
4-		U.		A 5' Modium brown poorly graded	CAND with					
				4-5': Medium brown poorly graded	SAND WITH					
				little Gravel, dry.						
5-	80			5—7": Medium brown poorly graded	SAND with		0 ppm		5-7.5': 1615: collect	
		SP		little Gravel, dry.			•		soil sample ESI-DP16-	
6-		эг					0 ppm		0507-01.	
							0			
7-				7-7.5': Medium brown poorly gro	aded		0 ppm		Approximate	
				SAND with little Silt.			0 ppm		groundwater level	
8-				7.5—10': Brown SiLT with little Sand	, soturated.		o ppin		og 7.5'bgs.	
9-		ML								
10-	•			End of Boring						
11-										
12-										
13-										
14-										

		Pi	roject Name	e: Ellenville Scrap Iron	Site Id: D	P-017				
	1	To	ownship/Rar	nge:	Coordinat	e X: 0.00	)			
	i tilsgebri ma	Lo	ogged By: S.	Hill	Coordinat	e Y: 0.00	)			
<u> </u>		Di	rilling Metho	d: Geoprobe	Total Depth: 15.00'					
					Date Started: 11/16/07					
Rema		, ·		· · · · · · · · · · · · · · · · · · ·	Date Com	npleted: 1	1/16/0	7		
point	at 2	0' bg:	s. On 11/1	ogs and set temporary well 6/07 at 14:00 collected						
aqueo	ous s	ample	ESI-HW17-	-0020-01.						
		, <u></u>				r		r		
	8	e	6o J							
	2	Code							Nakar	
Ę	ove		phic	Material Description		υ			Notes	
Depth	Recovery	nscs	Graphic			Date	DIG	FID		
						·····				
	70	FI	┞╴╾╶┰╵┝╾╻╾	0—0.5': Dark brown Mulch.		11/16/2007	0 ppm 0 ppm			
1-		SM/SP		   0.5—1': Dark brown Organic SAN		0 ppm 0 ppm				
				little Silt and Gravel, moist.						
2-		GP		1-2.5': Light brown / gray GRA	VEL with					
				some Sand, dry.						
3-		CL4		-	المحام ومرابع					
		SM		2.5—3.5': Medium brown Silty pool	ny gradea					
				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		0 ppm		5-10': 1350: collect	
				poorly graded Sand, dry.					soil sample ESI-DP17-	
6-									0911-01.	
7-			)				0 ppm			
		GP	• • •							
8-							0 ppm			
9-							0 ppm			
							~ PP'''			
10-				10 11's Light Frame / annu OBANEL	with ears		0			
	90			10—11': Light brown / gray GRAVEL	with some		0 ppm 0 ppm			
				poorly graded Sand, dry.			0 ppm		Approximote	
11-			···· ··· ··· ··· ···	11-15': Brown poorly graded SAND	) with little		0 ppm		groundwater level	
				Silt and gravel.					© 11' bgs.	
12-									w 11 Dys.	
13-		SP								
14-										
┟────┸					· · · ·					

	9.3909.23 <u>37</u> 380-	P	roject Name	: Ellenville Scrap Iron	Site Id: D	P-017				
Sec.	<u>ৰ পান্য</u>	18	ownship/Ran		Coordinat					
			ogged By: S.		Coordinat					
2		Di	rilling Method	d: Geoprobe	Total Depth: 15.00'					
	ai. 1aii - 1.				Date Started: 11/16/07					
Rema	irks:				Date Com	npleted: 1	1/16/0	17		
point aqueo	at 2 ous si	ooren 0' bg: ample	s. On 11/16 ESI-HW17-	gs and set temporary well 5/07 at 14:00 collected 0020-01.						
Depth	Recovery %	USCS Code	Graphic Log	Material Description	ı	Date	PID	민	Notes	
15-			_`_` <u>_</u> `_``	End of Boring						
16-										
17-										
18-										
19-										
20-										
21-										
22-										
23-										
24-										
25-										
26-										
27-										
28-										

and the second	endoneis) y w verma	Pı 🐔	roject Name	: Ellenville Scrop Iron	Site Id: D	P-018		••		
	3	Τc	ownship/Ran	ige:	Coordinat	e X: 517	799.84			
	s an	Lo	ogged By: S.	Amrozowicz	Coordinat	e Y: 105:	2925.30	)		
. 滋		D	rilling Metho	d: Geoprobe	Total Dep	th: 15.00	<u>}'</u>		• •	
Comessaria	a native a state of the				Date Started: 12/03/07					
Rema	irks:				Date Com	npleted: 1	2/03/0	)7		
0945	orary colle	well ct oq	point set at ueous samp	t 15' bgs. On 12/05/07 at le ESI—HW18—0015—01.						
	ر م	Code	. bol							
Depth	Recovery	uscs c	Graphic Log	Material Description		Date	입니	FID	Notes	
	8							- <b>Lui</b> u		
	68			 ○—4': Brown to tan brown Silty	SAND on	12/3/2007	0 ppm		0-4': No staining,	
1–										
']				structure, glass, trace cs, moist	I.		0 ppm		no odor.	
							- 64			
2		SM								
	:						0 ppm			
3-						-	o ppin			
4 -										
			₽.●.●.●	4–5': Gray brown poorly graded	GRAVEL,		0 ppm		4—5': No staining,	
		GP	<b>)</b> , • • •	moist to dry.					no odor.	
5-	68			5—10': Light brown poorly graded	SAND with		0 ppm			
				Gravel, max. grain size = 2" angu	ular, moist;					
6-				gravel lense from 8—9.1' bgs.						
7-							0 ppm			
8-							0 ppm			
9-							0 ppm			
10-	78	SP		10–11': Light brown / brown poo			0 ppm 0 ppm		10-11': 13:20 Collect	
				SAND with Gravel, max. grain size =	2" angular,		0 ppm		Soil Sample ESI-DP18-	
11-				moist.			0 ppm		1114-01 for VOC, SVOC,	
				11–15': Brown fine-medium SAND,	homogenous,				metal, pesticide.	
12-				occasional silt and clay lense, w					Approximate	
									groundwater level	
1 7										
13-									© 11.7' bgs.	
14 -										
I.			<u> </u>				L			

			Ellenville Scrap Iron		P-018				
Same		ownship/Ran		Coordinate X: 517799.84					
¥.	Lo	ogged By: S.	Amrozowicz	Coordinat			)		
	, Di	rilling Metho	d: Geoprobe	Total Depth: 15.00'					
1999 AN 1947 TAN				Dote Started: 12/03/07					
ks:				Date Com	npleted: 1	2/03/0	)7		
rary collec	well ct aq	point set at ueous samp	15 bgs. On 12/05/07 at le ESI-HW18-0015-01.						
Recovery %	USCS Code	Graphic Log	Material Description		Date	PID	FID	Notes	
			End of Boring						
				Ĩ		,			
r -	ollec	ary well collect aq bo bo collect aq	ary well point set at collect aqueous sample & e o S	Paragram     Point set at 15' bgs. On 12/05/07 at soliect aqueous sample ESI-HW18-0015-01.       Point set at 15' bgs. On 12/05/07 at soliect aqueous sample ESI-HW18-0015-01.       Point set at 15' bgs. On 12/05/07 at soliect aqueous sample ESI-HW18-0015-01.       Point set at 15' bgs. On 12/05/07 at soliect aqueous sample ESI-HW18-0015-01.       Point set at 15' bgs. On 12/05/07 at soliect aqueous sample ESI-HW18-0015-01.       Point set at 15' bgs. Material Description       Point set at 15' bgs. On 12/05/07 at soliect aqueous sample ESI-HW18-0015-01.	Date Com       ary well point set at 15' bgs. On 12/05/07 at       collect aqueous sample ESI-HW18-0015-01.       Solution       Solution       Material Description	Stary well point set at 15' bgs. On 12/05/07 at collect aqueous sample ESI-HW18-0015-01.     Date Completed: 1       Material Description     00       SO S	S:     Date Completed: 12/03/0       rary well point set at 15' bgs. On 12/05/07 at collect aqueous sample ESI-HW18-0015-01.     Date Completed: 12/03/0       Note: Solid Collect aqueous sample ESI-HW18-0015-01.     Material Description       Note: Solid Collect aqueous sample ESI-HW18-0015-01.     Pate Completed: 12/03/0       Note: Solid Collect aqueous sample ESI-HW18-0015-01.     Pate Completed: 12/03/0       Note: Solid Collect aqueous sample ESI-HW18-0015-01.     Pate Completed: 12/03/0       Note: Solid Collect aqueous sample ESI-HW18-0015-01.     Pate Collect aqueous sample ESI-HW18-0015-01.       Note: Solid Collect aqueous sample ESI-HW18-0015-01.     Pate Collect aqueous sample ESI-HW18-0015-01.       Note: Solid Collect aqueous sample ESI-HW18-0015-01.     Pate Collect aqueous sample ESI-HW18-0015-01.       Note: Solid Collect aqueous sample ESI-HW18-0015-01.     Pate Collect aqueous sample ESI-HW18-0015-01.       Note: Solid Collect aqueous sample ESI-HW18-0015-01.     Pate Collect aqueous sample ESI-HW18-0015-01.       Note: Solid Collect aqueous sample ESI-HW18-0015-01.     Pate Collect aqueous sample ESI-HW18-0015-01.       Note: Solid Collect aqueous sample ESI-HW18-0015-01.     Pate Collect aqueous sample ESI-HW18-0015-01.       Note: Solid Collect aqueous sample ESI-HW18-0015-01.     Pate Collect aqueous sample ESI-HW18-0015-01.       Note: Solid Collect aqueous sample ESI-HW18-0015-01.     Pate Collect aqueous sample ESI-HW18-0015-01.       Note: Solid Collect aqueous sample ESI-HW18-0015-01.     Pate Collect	S: ary well point set at 15' bgs. On 12/05/07 at sollect aqueous sample ESI-HW18-0015-01.     Date Completed: 12/03/07       Image: Simple ESI-HW18-0015-01.     Image: Simple ESI-HW18-0015-01.       Image: Simple ESI-HW18-0015-01.     Image: Simple ESI-HW18-0015-01.	

		Pr	oject Name	: Ellenville Scrap Iron	Site Id: DP-019					
	ar days		wnship/Ran		Coordinat					
			ogged By: S.		Coordinat		2929.95			
	1. A.	Dr	illing Metho	d: Geoprobe	Total Depth: 8.00'					
				Y MARKAN CANADA AND AND AND AND AND AND AND AND AN	Date Started: 11/16/07					
Remo					Date Corr	pleted: 1	1/16/0	7		
collec	cted fi	rom t	ell point se his location iter was end	t or aqueous sample because refusol was hit countered.					,	
Depth	Recovery %	USCS Code	Graphic Log	Material Description		Date	OH	FID	Notes	
	ьд									
	100			0-2.5": Dark brown Silty SAND,	little	11/16/2007	0 ppm			
1–				organics.			0 ppm			
2-		SM					0 ppm			
				2.5-3.5': Medium brown Silty SA	ND with		0 ppm			
3-				some Gravel, moist.						
				3.5—4.5': Gray GRAVEL, dry.						
4 -		GP								
_				4.5-5': Medium brown Silty SAND	with some		<u> </u>			
5-	100			Gravei, dry. 5—7': Medium brown Silty SAND	with come		0 ppm		5-8': 13:15 Collect soil sample ESI-DP19-	
6-				Gravel, dry.	with Some		0 ppm		060B-01; Refusal at	
	:	SM					o ppin		8' bgs. Made 2 attempts.	
7-				7—8': Silty poorly graded SAND, li	ttle Gravel.		0 ppm			
8-				End of Boring			0 ppm			
9-										
10-										
11-										
12-										
13-										
14 -										
			· · ·							

	(1997), <b>1997</b> , 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1997, 1	P	roject Name	e: Ellenville Scrap Iron	Site Id: D	P- 020				
Kara	¥6(15).		ownship/Rar	•	Coordinat	te X: 0.00	)		<b>I</b> 1	
				. Amrozowicz	Coordinat					
24		D	rilling Metho	od: Geoprobe	Total Depth: 10.00'					
					Date Started: 12/03/07					
collec	empor cted 1	rom	vell point se this location ater was en	t or aqueous sample a because refusal was hit countered.	Date Con	npleted: 1	2/03/0	07		
Depth	Recovery %	USCS Code	Graphic Log	Material Description		Date	GIA	FID	Notes	
	40	ML		0—0.3': Dark Brown organic SILT		12/3/2007	0 ppm		<u> </u>	
				0.3-5': Brown poorly graded (mea	lium-fine)		0 ppm 0 ppm			
1-				SAND with coarse Gravel (60% sand, -	40% gravel),		0 ppm			
				moist.		12/3/2007				
2-										
3-										
4										
5-	45	60		5-8': Tan Brown poorly graded (me	dium-fine)	12/3/2007	0 ppm		5-10': 14:00 Soil	
		SP		SAND with some coarse Gravel, i	-				Somple ESI0P20071001	
6-									collected. Refusal at	
									10' bgs. 2 attempts.	
7-							0 ppm		No temporary well installed.	
8-				8—10': Gray poorly graded (medium-	-fine) SAND		0 ppm			
				with some coarse Gravel, moist.						
9-										
10-				End of Boring			0 ppm			
11-										
12-										
13										
14-							Ē			

1		P	roject Name	e: Ellenville Scrap Iron	Site Id: D	P-021				
			ownship/Ran		Coordinate X: 518332.14					
	Mir in e			Amrozowicz	Coordinat			}		
	3	D	rilling Metho	d: Geoprobe	Total Depth: 3.00'					
					Date Started: 12/03/07 Date Completed: 12/03/07					
collec	mpor ted f	rom I	ell point se this location ater was end	t or aqueous sample because refusal was hit countered.	Date Com		2/03/0	<u> </u>	•••••	
Depth	Recovery %	nscs code	Graphic Log	Material Description		Date	Old	FID	Notes	
	50					12/3/2007	0 ppm			
	- · ·			0–2.5': Brown Silty SAND with s	ome		0 ppm		0-2.5*: 14:45 Soil	
1-		SP		Gravel, wet at 1.5' bgs.			o ppin		Sample ESI-DP21-	
2-							0 ppm		0103-01 collected, MS/MSD.	
				2,5—3': Gray SILT with Gravel, so	ome		0 ppm		2.5-3': Three	
3-		ML		black organic staining, dry.					refusals 3', 3.4', 3.2'.	
4				End of Boring					5.2.	
5-										
6-										
7-	E I									
8-										
9-										
10-										
11-										
12-										
13-										
14										

	Τd	ownship/Rar			P-022				
1 No.			-	Coordinate X: 518136.29					
	Ľ	ogged By:S.	Amrozowicz	Coordinat					
1 - A Star	D	rilling Metho	d: Geoprobe	Total Depth: 15.00'					
Capaging and endowing the base of the state of the	<u></u>			Date Started: 12/03/07					
Remarks:				Date Completed: 12/03/07					
collected fr	om 1	vell point se this location ater was end	t or aqueous sample i because refusal was met countered.						
54	Code	pod							
ery			Material Description					Notes	
Depth Recovery	uscs	Graphic Log			Date	PID	FID		
43			0.5' Dode brown Sondy SthT wi	th come	12/3/2007	5.2 ppm		0–5': 15:45 Soil	
			0-5": Dark brown Sandy SILT wit						
1-			Gravel, moist, increasing gravel o	at				Sample collected	
			4.5–5' bgs.					ESI-0P22-0204-01.	
2-						8.1 ppm		Sweet odor.	
	ML								
3-						22.3 ppm			
4 -						12.4 ppm			
5- <sub>50</sub>			5—10': Brown poorly graded SAND w	ith Gravel,		8.3 ppm			
			some silt, max. grain size = 2", no	structure,					
6-			moist then moist to dry.						
7 -						2.1 pprn			
8-						0.8 ppm			
9-						0.7 ppm			
10-	SP		10-14.7': Red brown / gray alternation			1.1 ppm		10—14.7': 16:00 Soil Sample ESI—DP22—1315—	
11-			graded SAND with Gravel and Silt; to moist to dry, gravel at bottom o			0.3 ррлі		01 at 1600 and duplicate ESI-DR22-1315-01	
12-						0.2 ppm		collected at 16:05.	
13						0.3 ppm		Refusol at 15'.	
14-									

Township/Range:     Coordinate X: 518136.29       Logged By: S. Amrozowicz     Coordinate X: 518136.79       Driling Method: Geoprobe     Date Started: 12/03/07       Date Completed: 12/03/07     Date Completed: 12/03/07       Image: Date Started: 12/03/07     Date Started: 12/	and the second second	ligidesi da angingangan g			: Ellenville Scrap Iron	Site Id: DP-022					
Drilling Method: Geoprobe     Total Depth: 15.00'       Remarks: No temporary well point set or aqueous sample collected from this location because refuel was method before groundwater was encountered.     Date Completed: 12/03/07       Image: State in this location because refuel was method.     Image: State in this location because refuel was method.     Image: State in this location because refuel was method.       Image: State in this location because refuel was method.     Image: State in this location because refuel was method.     Image: State in this location because refuel was method.       Image: State in this location because refuel was method.     Image: State in this location.     Image: State in this location.     Image: State in this location.       Image: State in this location.     Image: State in this location.     Image: State in this location.     Image: State in this location.     Image: State in this location.       Image: State in this location.     Image: State in this location.     Image: State in this location.     Image: State in this location.     Image: State in this location.       Image: State in this location.     Image: State in this location.     Image: State in this location.     Image: State in this location.     Image: State in this location.       Image: State in this location.     Image: State in this location.     Image: State in this location.     Image: State in this location.     Image: State in this location.       Image: State in this location.     Image: State in this location.     Image: State in this location.	alar ista Laite ista										
Remorks:     Date Storted: 12/03/07       Remorks:     Date Storted: 12/03/07       Date Completed: 12/03/07       Date Complete: 12/03/07       Date Complete: 12/03/07		07) <sup>1</sup> 5726									
Permitta: No temportry well point set or aqueous sample collected from this location because refusal was met before groundwater was encountered.     Date Completed: 12/03/07       Image: State of the stat			D	rilling Metho	d: Geoprobe						
No. temporary well point set or aquecus sample collected from this location because refusal was met before groundwater was encountered.       Notes	AND										
15-       GP       14.7-15': Gray GRAVEL (fractured cobbles). End of Boring       0.1 pm         16-       Image: Second secon	No te collec	empor ted f	rom	this location	because refusal was met		ipieteu.	12/03/0			
15-       GP       End of Boring       0.1 ppm         16-       Image: Constraint of Boring       Image: Constraint of Boring       Image: Constraint of Boring         17-       Image: Constraint of Boring       Image: Constraint of Boring       Image: Constraint of Boring         18-       Image: Constraint of Boring       Image: Constraint of Boring       Image: Constraint of Boring         19-       Image: Constraint of Boring       Image: Constraint of Boring       Image: Constraint of Boring         20-       Image: Constraint of Boring       Image: Constraint of Boring       Image: Constraint of Boring         20-       Image: Constraint of Boring       Image: Constraint of Boring       Image: Constraint of Boring         20-       Image: Constraint of Boring       Image: Constraint of Boring       Image: Constraint of Boring       Image: Constraint of Boring         20-       Image: Constraint of Boring       Image: Constraint of Boring       Image: Constraint of Boring       Image: Constraint of Boring         21-       Image: Constraint of Boring       Image: Constraint of Boring       Image: Constraint of Boring       Image: Constraint of Boring         22-       Image: Constraint of Boring       Image: Constraint of Boring       Image: Constraint of Boring       Image: Constraint of Boring         23-       Image: Constraint of Boring       Ima	Depth			Graphic Log	Material Descriptio	n	Date	DIA	FID	Notes	
15-       GP       End of Boring       0.1 ppm         16-       I       I       III         17-       I       III       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII					14.7—15': Gray GRAVEL (fractu	ed cobbles).					
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	15-		GP			-		0.1 ppm			
18-       I	16-										
19-       Image: I	17-										
20-	18-										
21-       22-         22-       23-         23-       24-         25-       26-	19-										
22-         23-         24-         25-         26-	20-										
23-     24-       25-     26-	21-										
24 -       25 -       26 -	22-										
2526-	23-										
26-	24-										
	25-										
27-	26-										
	27-										
28-	28-										

Logged By: S. Amrozowicz Coordinate		372.98					
		Coordinate X: 517872.98					
📕 🏾 🖉 Drilling Method: Geoprobe 🛛 🔹 Total Depth:	Coordinate Y: 1053206.20						
	Total Depth: 7.50'						
	Date Started: 12/04/07						
Remarks: Date Comple	leted: 1	2/04/0	)7				
No temporary well point set or aqueous sample collected from this location because refusal was hit before groundwater was encountered.							
Depth Depth Craphic Log Craphic Log Craphic Log Craphic Log	Date	Qid	FID	Notes			
	2/4/2007	0 ppm		······································			
56 ML 0-0.9': Dark brown Gravelly SILT, some	-1 -1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	0 ppm		0-0.9': Sweet odor.			
1-1 IIII medium-fine Sand, maximum grain size =		0 ppm 0 ppm					
0.5" rounded, wet.		o hhiu					
2 0.9-5': Tan brown / dark brown mottled							
poorly graded SAND (medium-fine), some							
3- Silt, gravel (beginning around 4.5' bgs).							
no structure.							
SP SP							
5- 80 5-6: Brown poorly graded SAND (medium-fine),		0 ppm					
homogenous, wet.							
6- 6-7.5': Red- Brown / Brown poorly		0 ppm		6-7.5': Sample ESI-			
graded SAND (coarse-fine) with silt and				DP23-0608-01 collected.			
7 gravel, mps: 2", cobble fragments, moist to	]			7–7.5': Slight odor.			
dry, trace black ash-like material around 7' bgs.		8.7 ppm		7.5': Refusal.			
8- End of Boring							
End of Boring							
9-							
10-							
11-							
12-							
13-							
	ŀ						
14-							

	074 (mar 1988) 19	P	<sup>o</sup> roject Name	e: Ellenville Scrap Iron	Site Id: D	P-024				
a ar			Fownship/Rar	•	Coordinat					
	i siji saz			. Amrozowicz	Coordinat					
		D	Drilling Metho	od: Geoprobe	Total Dep					
Contraction of the	rear di Way li tini aya da u				Date Started: 12/04/07 Date Completed: 12/04/07					
Remo		<b>b</b> la			Date Con	npleted:	2/04/0	)7		
point	ncea . On	i 12/3	5/07 at 103	bgs and set temporary well 30 collect aqueous sample						
ESI-I	HW24	-0020	0-01 for VC	30 collect aqueous sample OCs and Metals and Cyanide.						
		1	_		1 <u> </u>					
	8	Code	БоЛ							
	Recovery		<u>्</u>	Material Description					Notes	
Depth	20	uscs	Graphic			e l				
De	Re	S N	. 5			Date	DID	E		
	20	<u> </u>				12/4/2007	0 ppm			
				0-5': Dark Brown gravelly SILT with	medium					
1-				fine Sand, some organics, stag,		1				
				plastic, no structure, moist.	· · •					
2-				plastic, no structure, moist.			0 ppm			
2										
		ML								
3-										
		ľ					0 ppm			
4-										
5-	0			5—10': No recovery, wood in tip	of spoon.	12/4/2007	0 ppm			
6-										
7-										
									i	
8-										
					i					
9-										
10-	~~			1015's Too to Draws aroundly CAND		12 /4 /2007	0			
	22			10—15': Tan to Brown gravelly SAND, no	o structure,	12/4/2007	0 ppm			
				moist (40% gravel, 60% sand).				ŀ		
11-							0 ppm			
12-							0 ppm			
		SP								
13-		56								
							0 ppm			
14-							0 ppm			
			· · · · ·							

and the second second	enternetis ett. 1993	P	roject Name	: Ellenville Scrap Iron	Site Id: D	P-024				
			ownship/Ran		Coordinat		780.81			
	: Antonio			Amrozowicz	Coordinate Y: 1053147.06					
	No.	D	rilling Metho	d: Geoprobe	Total Depth: 20.00'					
Research	an, and the basis in				Date Sta	rted: 12/	04/07			
Rema	irks:				Date Com	npleted: 1	2/04/0	)7		
point.	. On	12/5	5/07 at 103	ogs and set temporary well 30 collect aqueous sample 36s and Metals and Cyanide.						
Depth	Recovery %	USCS Code	Graphic Log	Material Description		Date	Old	FID	Notes	
15-	83			15—17': Tan to Brown gravelly SAND, no moist.	o structure,	12/4/2007	0 ppm	-	15—17': Sample ESI— DP24—1517—01 and	
16							0 ppm		duplicate ESI-DR24- 1517-01 collected.	
17-				17—20': Poorly graded SAND, inc fine gravel from 19—20' bgs, we			0 ppm		Approximate groundwater level	
18-									© 17'bgs.	
19-										
20-				End of Boring						
21										
22-										
23-										
24-										
25-										
26-										
27-										
28-									· · ···	

Logged By: S. Amrozowicz Drilling Method: Geoprobe	Site Id: D	P-025					
Drilling Method: Geoprobe marks: temporary well point set or aqueous sample llected from this location because refusal was hit		Coordinate X: 517659.09					
Drilling Method: Geoprobe marks: temporary well point set or aqueous sample llected from this location because refusal was hit	Coordinat			3			
marks: temporary well point set or aqueous sample llected from this location because refusal was hit	Total Depth: 6.00'						
temporary well point set or aqueous sample llected from this location because refusal was hit	Date Started: 12/04/07						
llected from this location because refusal was hit	Date Com	pleted: 1	2/04/0	)7			
K     application       K     application       Material Description       K   <		Date	Did	FID	Notes		
			۵.	<u> </u>			
16 1- 1- with Gravel, scrap metal and debr		12/4/2007	0.2 ppm		0-5': Odar.		
2-			4,7 ppm				
3- м.							
4-1					4-6': Sample		
					ESI-DP25-0406-01		
5-100	some	:	12.1 ppm		collected.		
line line line line line line line line		i			5-6': Odor.		
End of Boring							
7-							
8-							
9-							
ο-							
2 -							
4-							
		l					

and the second	1999 - A. C.	N Pr	oject Name	: Ellenville Scrap Iron	Site Id: D	P-026					
	Sec.		wnship/Ran		Coordinate X: 517621.41						
	nê se	Lo	gged By: S.	Amrozowicz	Coordinat		3322.21				
2		Dr	illing Metho	d: Geoprobe	Total Depth: 1.50'						
	da waxaa da ahaa da ah				Date Started: 12/04/07						
collec	mpore ted fr	rom t	ell point se his location ter was end	t or aqueous sample because refusal was hit countered.	Date Corr	npleted: 1	2/04/0	)7			
Depth	Recovery %	USCS Code	Graphic Lag	Material Description	I	Date	DIG	FID	Notes		
1-	67	ML		0—1.5': Black / brown SILT with material, brick, metal, and other		12/4/2007	0.2 ppm		0-1': Collect sample ESI-DP26-0001-01.		
2-				moist to wet. End of Boring					1.5': 3rd attempt refusal.		
3–											
4											
5 -											
6-											
7-											
8-											
9-											
10-											
11-											
12-											
13-											
14-											

and and a state of the second s	an the second second	Pi	oject Name	: Eltenville Scrap Iron	Site Id: D	P-027					
d TEATTY		To	wnship/Ran	ige:	Coordinat	e X: 517	507.54				
	1			Amrozowicz	Coordinat	e Y: 105	3357.81				
- A				d: Geoprobe	Total Depth: 9.50'						
Nontractory annexed	anan an				Dote Started: 12/04/07						
Remo					Date Corr	pleted: 1	2/04/0	)7			
On 12	2/5/0	)7 ot	vell point at 1115 aqueo bilected.	t 9.5' bgs due to refusal. ous sample ESI—HW—27—							
Depth	Recovery %	USCS Code	Graphic Log	Material Description		Date	QId	٥IJ	Notes		
1-	55	ML		0—1.2': Brown Gravelly SILT, with organics, trace clay, little sand.		12/4/2007	0 ppm 0 ppm				
							0 ppm 0 ppm				
				1.2-5': Gray to orange brown me			0 ppm				
2-				SAND with pockets of gravel at	4-4.5', wet						
3-		SP		to 1' then moist.							
4 -		58									
5-	70			5-5.5': Gray to orange brown me SAND, moist.			Oppm Oppm Oppm Oppm Oppm				
6-			<b>P C U C</b>	5.5—9.5': Gray to brown Sandy G	RAVEL, wet	·					
				at 8' bgs.							
7-									7-9': ESI-DP27-		
		GP							0709-01.		
8-			) • • •						Approximate groundwater level		
9-				End of Boring					@ 8' bgs. 9.5': Third attempt		
10-									refusal.		
11-											
12-											
13-											
14-											

( and the second se		P	roject Name	: Ellenville Scrap Iron	Site Id: D	P-028				
		3	ownship/Ran		Coordinat					
				Amrozowicz	Coordinat			7		
46		D	rilling Metho	d: Geoprobe	Total Dep					
					Date Started: 12/04/07					
Remo					Date Con	npleted: 1	2/04/0	)7		
Set t	:empo 2 / 5 / (	rary v 77 nt	vell point at 1215 gauea	t 13' bgs due to refusal. ous sample ESI-HW28-00						
13-0	1 was	colle	ected.							
				<b>-</b>	l	I				
	8	ę	Log							
	Š	Code							Notes	
÷	Recovery		Graphic	Material Description					Notes	
Depth	Sec	nscs	, d			Date	민료	E D H		
	<u> </u>							L,L.,		
	65	ML	┞┙┶┥┶┥┶┤┷			12/4/2007	0 ppm			
				0-0.3': Brown SILT with organic			0 ppm			
1-				0.3—5': Brown / gray / light bro	wn poorly		0 ppm 0 ppm			
				graded fine to medium SAND, G	ravel.					
2-						1				
7		SP								
3-										
4										
5-										
	80			5-10': Brown poorly graded GRAVEL			0 ppm			
				some gray and red gravel, wet at	9.4' bgs.					
6-			Þ. • . • . • .							
7-							0 ppm			
8-			▶.♥.♥.♥.				0 ppm		8—10': Sample ESI—	
			▶,, <b>*</b> , ●, *						DP28-0810-01	
9-		GP	▶.●.♥.●						collected.	
			<b>) * • • *</b>						Approximate	
			) • • •						groundwater level	
10-	72			10-13': Brown poorly graded GRAVEL	with Sand,		0 ppm		© 9.4' bgs.	
				some gray and red gravel.					wт руз.	
11-							0 ppm			
							• • •			
10			▶.●.●.●.							
12-							0 ppm			
13-				End of Boring			0 ppm		13': Refusal.	
14-										

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       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.       Date Completed: 12/04/07         No temporary groundwater was encountered.       Material Description       age of a completed: 12/04/07         Yea       Boo of a completed       So of a completed       age of a completed         Yea       Boo of a completed       Age of a completed       age of a completed         Yea       Boo of a completed       Age of a completed       age of a completed         Yea       Boo of a completed       Age of a completed       age of a completed         Yea       Boo of a completed       Age of a completed       age of a completed         Yea       Boo of a completed       Age of a completed       age of a completed         Yea       Boo of a completed       Age of a completed       age of a completed	7
Drilling Method: Geoprobe       Total Depth: 4.00'         Remarks:       Date Started: 12/04/07         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         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         No temporary groundwater was encountered.       Material Description	7
Remarks:     Date Started: 12/04/07       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       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	7
Remarks:     Date Completed: 12/04/07       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       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	7
No temporary well point set or aqueous sample collected from this location because refusal was hit before groundwater was encountered.         before groundwater was encountered.	·
ل الم الم الم الم الم الم الم الم الم ال	
Date Dept	Notes
	正 
81 0-4': Brown / gray Silty GRAVEL, to sandy 12/4/2007 0 ppm	
1	1.3': Slight sweet odor at bgs.
2- 3- 3- 27 ppm	1-3': Sample 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-	

and the second		P	roject Name	: Ellenville Scrap Iron	Site Id: DP 030						
are en	vana vana Vana vana		ownship/Ran		Coordinat						
				Amrozowicz	Coordinat						
- 25		D	rilling Metho	d: Geoprobe	Total Depth: 9.00'						
Transferration	anta antara antara	NECESSION .			Date Started: 12/04/07 Date Completed: 12/04/07						
Rema		arv w	ell point set	t or aqueous sample	Date Com	ipieted:	2/04/1	.,			
collec	ted f	rom 1	this location	because refusal was hit							
befor	e gro	undwo	ster was end	countered.							
								r	1		
	%	ø	5			Ì					
		Code	Log								
E .	Recovery		Graphic	Material Description		0			Notes		
Depth	ecc	nscs				Date	OIL	밑			
	œ					د	ш.	·•-			
	33	МL	티니니니니	0-0.4': Brown gravelly SILT, wet.		12/4/2007	0 ppm				
							0.1 ppm				
1-				0.4-3.8': Tan / brown medium-fine :	SAND, moist.		0.3 ppm Oppm				
2-		SP									
3-											
				3.8-5': Sandy GRAVEL, moist to (	irv. plastic.						
4					.,, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
, r			7.0. • •								
5-	65		▶. ● : ● . ●	5—9': Brown / gray poorly graded (	GRAVEL with		0 ppm				
				Sond and silt, sand lense at 8.2-8.	6', moist to						
6-				dry, moist sond lense.			0 ppm				
		GP									
7-									7-9': Sample ESI-		
									DP30-0709-01 collected.		
8-							0 ppm				
9-			<b>₽. ●`_₽₽</b> _●	End of Boring			0 ppm		9': Second attempt refusal.		
10-								[			
_								- - -			
1 1											
11-											
								:			
12-											
13-											
14-											
L											

A	internation under	P	roject Name	: Ellenville Scrap Iron	Site Id: E	PA-01					
		Τc	ownship/Ran	nge:	Coordinat	e X: 517		·····			
	2000		ogged By: C.		Coordinat			7			
. 2		Dr	rilling Metho	d: Hollow Stem Auger	Total Dep				• • • • • • • • • • • • • • • • • • • •		
	angen an	_			Date Started: 04/08/08						
Rema	irks:				Date Completed: 04/08/08						
		1				T	1	I			
Depth	Recovery %	USCS Code	Graphic Log	Material Descriptior	)	Date	CIId	FID	Notes		
Ŏ	<u>a</u>	ñ					<u> </u>				
			0	0—21.5': Fine—coarse SAND son	ne Gravel	4/8/2008	0 ppm	0			
1-				and silt. Subrounded Gravel, till,	moist to	i i					
			0	10' wet at 10'.							
2-											
3-			0								
			0			ĺ	i				
4 -											
5-											
			0								
6-											
			0								
7-											
8-			0								
			0								
9-											
			0								
10-											
			0								
<sub>11</sub> _		SW/SW									
11-			0								
12											
			0								
13-			0								
14 -			0								

		P	roject Name	: Ellenville Scrap iro	n	Site Id: El	PA-01			
		Та	ownship/Ran	ige:		Coordinat				
			ogged By: C.			Coordinat			7	
20	1.50	D D	rilling Metho	d: Hollow Stem Auge	er	Total Dep				
<u> </u>						Date Star			0.0	
Rema	irks:					Date Com	ipleted: (	14/08/	08	
										1
Depth	Recovery %	USCS Code	Graphic Log	Material [	)escription		Date	DIA	FID	Notes
	-									
15-			0							
16-			o							
17-		1	0							
18-			0							
19-			0							
20-			0							
21-			°	21.5-27': Competent	bedrock			0 ppm	O	
22-			$\supset \bigcirc$	2.0 27. Competent	oguj ook.			o bhui	J	
23-			$\square \bigcirc$							
24-		8E	$\left \begin{array}{c} \\ \\ \\ \end{array}\right  \right\rangle \left( \right)$							
25-			$\supset \bigcirc$							
26-			$\left \begin{array}{c} \\ \\ \\ \end{array}\right  \right\rangle $							
27-				End of	Boring					
28-										

Tomath/Renge:         Coordinate X: 518132.27           Logac By: C.Jobion         Coordinate X: 518132.27           Tomation:         Coordinate X: 518132.27           Remarks:         Coordinate X: 518132.06           Air Rotary to 19' (seel up to 16') competent bedrack,         Date Completed: 04/08/08           ISA and Air Rotary to 19' (seel up to 16') competent bedrack,         Date Completed: 04/08/08           ISA and Air Rotary to 19' (seel up to 16') competent bedrack,         Bate Completed: 04/08/08           ISA         ISA is 0 to 10' (seel up to 16') competent bedrack,         Bate Completed: 04/08/08           ISA         ISA is 0 to 10' (seel up to 16') competent bedrack,         Isa is 0 to 10' (seel up to 16') competent bedrack,           ISA         ISA is 0 to 10' (seel up to 16') competent bedrack,         Isa is 0 to 10' (seel up to 16') competent bedrack,           ISA         ISA is 0 to 10' (seel up to 16') competent bedrack,         Isa is 0 to 10' (seel up to 16') competent bedrack,           ISA         ISA         Isa is 0 to 10' (seel up to 16') competent bedrack,         Isa is 0 to 10' (seel up to 16') competent bedrack,           ISA         ISA         Isa is 0 to 10' (seel up to 16') competent bedrack,         Isa is 0 to 10' (seel up to 16') (seel up to 10' (seel up to 16') (seel up to 10' (seel up to 16') (see		than market t	Pi	roject Name	e: Ellenville Scrap Iron	Site Id: E	PA-02				
Logged By C.Joblion         Coordinate Y: 105143.06           Remarks:         Total Deskri 19.00'           Remarks:         Date Started: 04/08/08           Remarks:         Date Started: 04/08/08           TSA and Arr Rotary to 19' (seal up to 16') competent bedrack, ISA and Arr Rotary to 18' (seal up to 16') competent bedrack, ISA and Arr Rotary to 18' (seal up to 16') competent bedrack, ISA and Arr Rotary to 18' (seal up to 16') competent bedrack, ISA and Arr Rotary to 18' (seal up to 16') competent bedrack, ISA and Arr Rotary to 18' (seal up to 16') competent bedrack, ISA and Arr Rotary to 18' (seal up to 16') competent bedrack, ISA and Arr Rotary to 18' (seal up to 16') competent bedrack, ISA and Arr Rotary to 18' (seal up to 16') competent bedrack, ISA and Arr Rotary to 19' (seal up to 16') competent bedrack, ISA and Arr Rotary to 19' (seal up to 16') competent bedrack, ISA and Arr Rotary to 19' (seal up to 16') competent bedrack, ISA and Arr Rotary to 19' (seal up to 16') competent bedrack, ISA and Arr Rotary to 19' (seal up to 16') competent bedrack, ISA and Arr Rotary to 19' (seal up to 10-10') Brown fine-medum SAND with some         4/8/2088         0 ppm         0           1-         0         0         0         0         0         0         0         0           2-         0         0         0         0         0         0         0         0         0           3-         0         0         0         0         0         0         0         0         0         0         0			-			Coordinat	e X: 518	132.27			
Drilling Method: Hollow Stam Auger         Total Depth: 19.00'           Remarks:         Date Started: 04/08/08           Air Rotary to 19' (seel up to 16') competent bedrock.         Date Started: 04/08/08           ISA and Air Rotary to 19' (seel up to 16') competent bedrock.         Notes           Image: Started: 04/08/08         Date Started: 04/08/08           Image: Started: 04/08/08         Image: Started: 04/08/08           Image: Started: 04/08/08		d fame				Coordinat	e Y: 105	3143.06			
Date Completed: 04/08/08           Date Compl	is										
Air Retary to 19' (sed) up to 16') competent bedrock,         HSA and Air Rotary to 16' BCS. Well-construction over.         Notes         Notes         Description       Description         Description       Description       Description         Description <thdescription< th="">       Description</thdescription<>		Second States of States and									
$\frac{1}{4}$ $\frac{1}{2}$	Rema	irks:				Date Con	npleted: (	)4/08/(	38		
1-       0       0       0-10': Brown fine-medium SAND with some Gravel and silt.       4/8/2008       0 ppm       0         2-       0       0       0       0       0       0       0         3-       0       0       0       0       0       0       0         4-       0       0       0       0       0       0       0         5-       0       0       0       0       0       0       0         6-       0       0       0       0       0       0       0         7-       0       0       0       0       0       0       0         9-       0       0       0       0       0       0       0       0         10-16': Wet ot 11-12':       0       0       0       0       0       0       0       0       0         12-       0	Air R HSA	otary and A	to 19 Air Ro	9' (seal up tary to 16'	to 16') competent bedrock, BGS. <del>Well cons</del> tr <del>uction over.</del>	¢		1			
1- 1- 2- 3- 4- 5- 6- 7- 8- 9- 9- 10- 10- 10- 10- 10- 10- 10- 10	Depth			Graphic Log	Material Description	1	Date	Oid	Ð	Notes	
1- 1- 2- 3- 4- 5- 6- 7- 8- 9- 9- 10- 10- 10- 10- 10- 10- 10- 10							4/8/2008	0			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					0-10': Brown fine-medium SAND	with some	10/2000	U ppm			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1-				Gravel and silt.						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$											
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2										
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							-				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				•     ·			1				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3-										
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				0							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 –										
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$											
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5										
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$											
7 - 8 - 8 - 8 - 8 - 8 - 8 - 9 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0				0							
7 - $8  5x/5w$ $0$	6-				н 1						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				<b>•</b>							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	7										
9 - 10 - 10 - 10 - 16': Gray weathered Shale, moist. 4/8/2008 0 ppm 0 10 - 16': Wet at 11 - 12'. $11 - 12 - 13 - 10 - 16': Gray weathered Shale, moist. 4/8/2008 0 ppm 0 10 - 16': Wet at 11 - 12'.$				· 'o			1				
9 - 10 - 10 - 10 - 16': Gray weathered Shale, moist. 4/8/2008 0 ppm 0 10 - 16': Wet at 11 - 12'. $11 - 12 - 13 - 10 - 16': Gray weathered Shale, moist. 4/8/2008 0 ppm 0 10 - 16': Wet at 11 - 12'.$	8_		en leur				1				
9- $0$ $10-16$ ': Gray weathered Shale, moist. $4/8/2008$ $0  ppm$ $0$ $10-16'$ : Wet at $11-12'$ . $11 0$ $0$ $0$ $10-16'$ : Wet at $11-12'$ . $12 0$ $0$ $0$ $10-16'$ : Wet at $11-12'$ . $13 0$ $0$ $0$ $0$ $0$ $14 0$ $0$ $0$ $0$ $0$			SM/SW	0							
10 - 10 - 10 - 16':  Gray weathered Shale, moist. $4/8/2008  0  ppm  0  10 - 16':  Wet at  11 - 12'.$ $11 - 12 - 0  0  0  0  0  0  0  0  0  0$											
10-       0       10-16': Gray weathered Shale, moist.       4/8/2008       0 ppm       0       10-16': Wet at 11-12'.         11-       0       0       0       0       0       0       0         12-       0       0       0       0       0       0       0       0         13-       0       0       0       0       0       0       0       0         14-       0       0       0       0       0       0       0       0	9-										
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$											
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	10				   10—16': Grav weathered Shale. r	noist.	4/8/2008	0 ppm	Q	10-16': Wet at 11-12'.	
12 - 13 - 14 - 14 - 14				0			, .,	F F <sup>are</sup>			
12 - 13 - 14 - 14 - 14	11										
				0							
	12-										
	13-										
	14-			0	l						

		N Pi	roject Name	: Ellenville Scrap Iron	Site Id: El	PA-02					
200.200	<u>44</u> 00	Тс	ownship/Ran	ge:	Coordinat						
1	<b>.</b>		ogged By: C.		Coordinat						
<i>*</i>		Dr	rilling Metho	d: Hollow Stem Auger	Total Depth: 19.00'						
				· · · · · · · · · · · · · · · · · · ·	Date Started: 04/08/08						
Remark	ks:				Date Completed: 04/08/08						
Air Rot HSA ar	tory nd A	to 19 Air Ro	9' (seal up tary to 16'	to 16') competent bedrock, BGS. <del>Well- construction over:</del>		1		1	1		
	Recovery %	USCS Code	Graphic Log	Material Description		Date	DIA	FID	Notes		
15-			0								
16-			┝╶╴┷┝╵┥	16-19': Gray Sandstone.		4/8/2008	0 ppm	Ó			
			$  \frown \bigcirc$	r -							
17-											
	1	BE	$ \langle \rangle  $								
18-			$  - \bigcirc$			]					
			$ \bigcirc$								
19-			╞╰═╯┈╺═╍┙	End of Boring							
20-											
21											
<b>2</b> 17											
22 -											
23-											
24 -											
25-											
<sup>25</sup>											
26-											
27-											
28-		:									
		•			······						

A CONTRACTOR		N Pr	oject Nome	: Ellenville Scrap Iron	Site Id: E	PA-03				
	i Mile	Тс	wnship/Ran	ge:	Coordinat					
	Maria I.		ogged By: R.		Coordinate Y: 1052781.68					
<u>N</u>		Dr	illing Metho	d: Hollow Stem Auger	Total Depth: 22.00'					
	and a state of the	<u> </u>			Date Started: 04/15/08					
Remo	rks:				Date Com	npleted: (	4/16/0	)8		
						T	1		1	
Depth	Recovery %	USCS Code	Graphic Log	Material Description	n	Date	PID	FID	Notes	
ă	Å	ň	Ö			Ō	<u>م</u>	<u> </u>		
1- 2- 3- 4- 5-			0 0 0 0 0	0-4': Dark brown fine-medium some silt. 4-12': Fine-medium SAND with and medium-coarse rounded gr	some Silt	4/15/2008	0 ppm 0 ppm	0	4—12': Air Rotary 4—12'.	
6- 7- 8- 9-		SM/SW	0 0							
		,	•							
10-			0							
11			0							
12-			0	12-18': Brown medium-coarse some Silt.	SAND and		0 ppm	0	12–18': HSA 12–18'.	
13-			0							
14-			0							

				: Ellenville Scrap Iron	Site Id: Ef						
-62		Тс	wnship/Ran	ge:	Coordinate						
			ogged By: R.		Coordinate			}			
		Dr	rilling Metho	d: Hollow Stem Auger	Total Depth: 22.00'						
Responsible states					Date Started: 04/15/08 Date Completed: 04/16/08						
Remar	ks:				Date Com	pietea:	<u>)4/16/(</u>	28			
								1			
Depth	Recovery %	USCS Code	Graphic Log	Material Descriptio	n	Date	Ũd	ED CI	Notes		
15-			o								
16-			0								
17-			•								
18-			╞╶╼╶╴┝╴╵┑	18-20': Weathered Bedrock.			0 ppm	o	18—20': Air Rotary 18—22'.		
			$\square$		:						
19-			$\square$								
			$  \frown \lor  $								
20-		BE	$\square \square$	20-22': Bedrock.			0 ppm	0			
			$\square$								
21-	-		$\square$								
			$\cap$								
22-			╞╲╧╯═╺═╲┥	End of Boring							
23-											
24-											
25-											
26-											
27-							;				
~'									4		
28-											
20											
L			۰								

		Pr	oject Name	e: Ellenville Scrap Iron	Site Id: E		1.100				
			wnship/Rar		Coordinat						
	Alexan il		ogged By: R.		Coordinat						
4	<b>*</b> (****	Dr	illing Metho	d: Hollow Stem Auger	Total Depth: 27.00'						
-		_			Date Started: 04/15/08						
Rema	irks:				Date Con	npleted: C	04/15/0	8			
						1					
Depth	Recovery %	USCS Code	Graphic Log	Material Description	ı	Date	PID	FID	Notes		
						-					
			<b>.</b>	0—3': Dark brown fine-medium	Sand with	4/15/2008	0 ppm	0			
1-				some Silt, trace fill (glass fragr							
		E.									
2-		Fl									
3-				3—12': Fine—coarse rounded GR	AVEL.		0 ppm	0	3—12": Air Rotary		
			0000						to 12". Water at 12".		
4			000								
5-											
E I											
6-			$p_{10}$								
7-			p.o. O.o.								
		GW	$b \circ \circ \circ$								
8-			þ.o. O.o.								
			000								
9-			6000								
			000								
			0000								
10-			0 0 0								
11-											
12-				12-19.5': Brown medium-coarse	SAND with		0 ppm	0			
			0	some Silt.							
13-			0								
14-			0								
<b>'</b>											

1		Pr	oject Name	: Ellenville Scrap Iron	Site Id: Ef					
86.5-Ye			wnship/Ran		Coordinat					
			gged By: R.		Coordinat					
<u> </u>	Start Start	Dr	illing Method	d: Hollow Stem Auger	Total Depth: 27.00' Date Started: 04/15/08					
Compensation of the										
Rema	rks:				Date Com	pleted: L	94/15/0	8		
Depth	Recovery %	USCS Code	Graphic Log	Material Description	งก	Date	OId	FID	Notes	
<u> </u>		<u>ر</u>							· · · · · · · · · · · · · · · · · · ·	
15										
15-			0							
16		SW/SW	0							
``										
17-			0							
18-			0							
19-			0							
20-				19.5—20.5': Weathered Bedroci	ς.		0 ppm	0		
21-			$\bigcirc$	20.5-27': Bedrock.			0 ppm	0	20.5-27': Air Rotary to 27'. Total depth	
22-			$\bigcirc$						at 27'.	
23-		ßE	$\bigcirc \bigcirc$							
24-		-	$\bigcirc \bigcirc$							
25-			$\square \bigcirc$							
26 -			$\square \bigcirc$							
27-				End of Boring						
28-										

A CONTRACTOR OF				: Ellenville Scrap Iron	Site Id: E				
	#5 <u>1</u>		wnship/Ran		Coordinat				
	799 <b>0</b> 000	Lo	gged By: C.	Joblon	Coordinat			)	
<b>ئ</b> ىز		Dr	illing Metho	d: Hollow Stem Auger	Total Dep				
		<u> </u>			Date Stor				11-11 - 11-11
Remo	rks:				Date Con	npleted: (	4/10/0	8	
						[			
ء	Recovery %	S Code	Graphic Log	Material Description	on				Notes
Depth	Reco	nscs	Grap			Date	СŀЧ	FID	
1-			0	0—17': COBBLES, subrounded and fine sands.	Gravel	4/10/2008	0 ppm	0	:
2-			0						
3-			o						
4 -			0						
5-			0						
			0						
6-			0						
7-			0						
8-			0						
9-			0						
10-			0					;	
11			0						
12-			0						
13-			0						
14-		SW/SW	0						

		P	roject Name	: Ellenville Scrap Iron	Site Id: El	PA-05			•••••
a an			ownship/Rar		Coordinat		770.56		
	<u>Base and an</u>		ogged By: C.	Joblon	Coordinat	e Y: 105	2439.40	)	
<u>.</u>		D	rilling Metho	d: Hollow Stem Auger	Total Dep				
					Date Star				
Remo	irks:				Date Com	pleted: (	04/10/0	08	
								t	
Depth	Recovery %	USCS Code	Graphic Log	Material Descriptio	'n	Date	DId	ЪD	Notes
								<u> </u>	
15-			0						
16-			0						
17-			0	17-27': SAND and cobbles.			0 ppm	0	
18-			0						
19-			0						
20-			0						
20									
21-			0						
22-			0						
23-			• •						
24-			0						
25-			0						
26-			0						
27-		8E		27-35': Competent Bedrock.			0 ppm	0	
28-				End of Boring					

and the same time		P	roject Name	e: Ellenville Scrap Iron	Site Id: E	PA-06			
Sec. Sec.	9. <b>8</b> 7	Τ	ownship/Rar	nge:	Coordinat				
		L	ogged By: R	McPherson	Coordinat	te Y: 105	2769.78	3	
38		D	rilling Metho	d: Hollow Stem Auger	Total Dep				
	-19.5 <b></b>				Date Sta				
Remo	irks:				Date Con	npleted: (	04/10/	08	
			T	1			1	<b>r</b>	<b>.</b>
Depth	Recovery %	USCS Code	Graphic Log	Material Description	ı	Date	Old	FID	Notes
				· · · · · · · · · · · · · · · · · · ·		1			· · · · · · · · · · · · · · · · · · ·
	i			0-15': Dark brown fine-coarse	SAND with	4/9/2008	0 ppm	0	
1-			0	some Gravel and silt. Subround		[			
				till, moist to 10' wet at 10'.					
2			0	in, moist to to wet ut to.					
3-			0						
						]			
			0			Ì			
4									
			0						
5-									
			· · o · · ·						
6-									
			0						
7-									
			Q						
			· · <sup>*</sup> · <b>   </b> . <b> </b> ·			]			
8-		:							
			0						
9-									
			0				!		
10-									
			•						
11-									
''			•						
12-			· •						
13-			0						
14-			0						

Remorks	5:	Lo		nge: .McPherson od: Hollow Stem Auger		e Y: 105 th: 35.00 ted: 04/	2769.78 )'	3				
24	s:				Total Dep Date Star	th: 35.00 ted: 04/	)'	3				
24	s:	Dr	illing Metho	od: Hollow Stem Auger	Date Star	ted: 04/						
24	s:	<u></u>					09/08					
24	s: 				Date Com	كالمعاهداته	Date Started: 04/09/08 Date Completed: 04/10/08					
						ipietea: t	04/10/0	08				
	1						Γ					
i e	و 1	Code	Graphic Log	Material Description	n	-			Notes			
Depth Recoverv		USCS	Graph			Date	QId	FID				
15-	SM	i/sw	0	15–30': Fine-medium SAND with s	ome Cobbles.		0 ppm	0				
16			0									
17-			<b>o</b>									
18-			`` <b>o</b>									
19-			O									
20-			0									
21-			0									
22-			0									
23-			0									
24-			0									
25-			0									
26 27-			0									
28-			0									

Township/Ronge:         Coordinate X: 517455.84           Logged By R.McPherson         Coordinate Y: 1032769.78           Drilling Method: Holow Stem Auger         Total Deptit: 35.00'           Date Completed: 04/10/08         Date Completed: 04/10/08           Remarks:         Date Completed: 04/10/08           1         1           1         1           29         30-35': Bedrock.           31-         1           32-         86           33-         95           34-         1           35-         1           36-         1           37-         86           38-         1           39-         1           40-         1           42-         1		astronic and	Pi	roject Name	: Ellenville Scrap Iron	Site Id: E	PA-06			
Logged By: R.McPherson         Coordinate Y: 1952769.78           Drilling Method: Hollow Stem Auger         Total Depth: 35.30'           Date Started: 04/00/08           Base         0           1         0 <t< td=""><td></td><td>1996 (A)</td><td></td><td></td><td></td><td></td><td></td><td>435.84</td><td></td><td></td></t<>		1996 (A)						435.84		
Drilling Method: Hol ow Stem Auger         Total Depth: 35.00'           Dark Storted: 04/09/08         Date Completed: 04/10/08           Date Completed: 04/10/08         Date Completed: 04/10/08           Image: Storted: 04/09/08         Date Completed: 04/10/08           Image: Storted: 04/09/08         Date Completed: 04/10/08           Image: Storted: 04/09/08         Image: Storted: 04/10/08           Image: Storted: 04/09/08         Image: Storted: 04/10/08           Image: Storted: 04/07/08         Image: Storted: 04/07/08           Image: Store         Image: Store      <		- 27 ( SUS	L	ogged By: R.	McPherson				3	
Remarks:       Date Completed: 04/10/08	<i>i</i>		D	rilling Metho	d: Hollow Stem Auger					
$ \begin{array}{ c c c c c } \hline 1 & 1 & 1 & 1 & 1 \\ \hline 1 & 1 & 1 & 1 \\ \hline 1 & 1 $		101. ANI A.								
29-       30-       30-       30-35': Bedrock.       04/10/08       0 ppm       0         31-       9E       0       0       0       0       0         32-       9E       0       0       0       0       0         33-       9E       0       0       0       0       0         34-       0       0       0       0       0       0         35-       0       0       0       0       0       0         36-       0       0       0       0       0       0         37-       0       0       0       0       0       0       0         38-       0       0       0       0       0       0       0       0         39-       0       0       0       0       0       0       0       0         40-       0       0       0       0       0       0       0       0         41-       0       0       0       0       0       0       0       0	Remo	irks:				Date Con	npleted: (	04/10/0	08	
29-       30-       30-       30-35': Bedrock.       04/10/08       0 ppm       0         31-       9E       0       0       0       0       0         32-       9E       0       0       0       0       0         33-       9E       0       0       0       0       0         34-       0       0       0       0       0       0         35-       0       0       0       0       0       0         36-       0       0       0       0       0       0         37-       0       0       0       0       0       0       0         38-       0       0       0       0       0       0       0       0         39-       0       0       0       0       0       0       0       0         40-       0       0       0       0       0       0       0       0         41-       0       0       0       0       0       0       0       0								1		
30-       30-       30-35': Bedrock.       04/10/08       0 ppm       0         31-       9E       0       0       0       0       0         32-       9E       0       0       0       0       0         33-       9E       0       0       0       0       0         34-       0       0       0       0       0       0         35-       0       0       0       0       0       0         36-       0       0       0       0       0       0         37-       0       0       0       0       0       0       0         38-       0       0       0       0       0       0       0       0         40-       0       0       0       0       0       0       0       0         41-       0       0       0       0       0       0       0       0       0	Depth		USCS Code	Graphic Log	Material Descripti	on	Date	DId	ED	Notes
30-       30-35': Bedrock.       04/10/06       0 ppm       0         31-       0       0       0       0       0         32-       0       0       0       0       0       0         33-       0       0       0       0       0       0       0         34-       0       0       0       0       0       0       0       0         36-       0       0       0       0       0       0       0       0         38-       0       0       0       0       0       0       0       0         39-       0       0       0       0       0       0       0       0         40-       0       0       0       0       0       0       0       0         41-       0       0       0       0       0       0       0       0       0	29-									
32-       BE       Image: Constrained in the second	30-				30-35': Bedrock.		04/10/08	0 ppm	0	
33-       BE       Image: Constrained on the second	31-			$\supset \bigcirc$						
33-       Image: Constraint of Boring         34-       Image: Constraint of Boring         35-       Image: Constraint of Boring         36-       Image: Constraint of Boring         37-       Image: Constraint of Boring         38-       Image: Constraint of Boring         39-       Image: Constraint of Boring         40-       Image: Constraint of Boring         41-       Image: Constraint of Boring	32-			$\bigcirc \bigcirc$						
35-     End of Boring       36-	33-		BE	$\bigcirc \bigcirc$						
35-     End of Boring       36-     Image: Constraint of Boring       37-     Image: Constraint of Boring       38-     Image: Constraint of Boring       39-     Image: Constraint of Boring       40-     Image: Constraint of Boring       41-     Image: Constraint of Boring	34 -			$\bigcirc \bigcirc$						
37-       38-       39-       40-       41-	35-			Ω	End of Boring					
38 - 39 - 40 - 41 - 41 - 41 - 41 - 41 - 41 - 41	36-									
39-       40-       41-	37-									
40-41-	38-									
41-	39-									
	40-									
42-	41-									
	42-									

and the second s				e: Ellenville Scrap Iron	Site Id: E				
	1. age 1		ownship/Rar		Coordinat				
			ogged By: R		Coordinat			7	
र्ज		D	rilling Metho	od: Hollow Stem Auger	Total Dep				
ALC: NO.	<i>4</i>				Date Sta			<u>.</u>	
Rema	irks:				Date Con	npleted: (	04/09/0	08	
				-			<b>1</b>		
Depth	Recovery %	USCS Code	Graphic Log	Material Descriptio	'n	Date	Old	0	Notes
ð	až –	ő	5			Ŏ	<u> </u>	0 <u>-</u>	
1-				0—8': Brown fine—coarse SAND Gravel and some silt, till.	with little	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							
'				· · · · · · · · · · · · · · · · · · ·		L			

and the second second		Pr	roject Name	: Ellenville Scrap Iron	Site Id: E	PA-07			
		To	wnship/Ran	nge:	Coordinat				
	38 <b>8</b> 000		ogged By: R.		Coordinat			7	
1		Dr	illing Metho	d: Hollow Stem Auger	Total Dep				
		_			Date Star				
Remo	rks:				Date Com	npleted: (	04/09/0	08	1. I. M.
				r		T			<b>T</b>
Depth	Recovery %	USCS Code	Graphic Log	Material Descript	ìon	Date	DIA	FID	Notes
				······································			-		
15-				15—27.5': Brown fine—coarse SA	ND with some		0 ppm	0	
				subrounded Gravel and some	silt, till, wet				
16-									
17-									
18-									
19-									
20-									
21-									
21-									
22-									
	:								
23-									
24-									
							1		
25-							ł		
26-									
27-									
20				27.5–33': Competent Bedroc	k.		0 ppm	0	27.5—33': Air Rotary to 33'.
28-			$  \cap \lor$						
<b>I</b> .		L		<b>I</b>				•	uffen art i 11.000

Township/Renge:         Coordinate X: 517402.53           Logged By: R.McPherson         Coordinate X: 103492.77           Drilling Mthod: Hollow Stem Auger         Total Depth: 33.00"           Remarks:         Date Completed: 04/09/08           #         #	for the second s		Pr	oject Name:	: Ellenville Scrap Iron	Site Id: EF	PA-07			
Drilling Method: Hollow Stem Auger         Total Depth: 33.00°           Date Started: 04/09/08         Date Completed: 04/09/08           0ate Completed: 04/09/08         Date Completed: 04/09/08           1         1           1         1           29         1           30         1           31         1           32         1           33         1           34         1           35         1           36         1           37         1           38         1           39         1           41         1		1. M.	To	wnship/Ran	ge:					
Notes         Bate Started: 04/09/08           Eermarks:         Date Started: 04/09/08           1         1     <									,	
Remarks:     Date Completed: $04/09/08$ $\frac{5}{48}$ $\frac{9}{92}$ $\frac{9}{32}$ $\frac{9}{32}$ Moterial Description $\frac{9}{8}$ $\frac{9}{2}$ $\frac{9}{2}$ Notes       29- $31 BE$ $0$ $0$ $0$ $1$ $1$ $1$ 31- $BE$ $0$ $0$ $0$ $0$ $1$ $1$ $1$ 32- $0$ $0$ $0$ $0$ $0$ $0$ $0$ 33- $  0$ $0$ $0$ $1$ $1$ 34- $1$ $1$ $1$ $1$ $1$ $1$ $36 1$ $1$ $1$ $1$ $1$ $37 1$ $1$ $1$ $1$ $1$ $38 1$ $1$ $1$ $1$ $1$ $39 1$ $1$ $1$ $1$ $1$ $40 1$ $1$ $1$ $1$ $1$	<u>, 1</u>		Dr	illing Method	d: Hollow Stem Auger					
$\frac{1}{40}$ $\frac{9}{62}$ $\frac{9}{29}$ $\frac{9}{29}$ Moterial Description $\frac{9}{62}$ $\frac$			◢							
29-       30-       BE       0       0         31-       32-       0       0       0         33-        End of Boring       1       1         34-       -        End of Boring       1       1         35-       -       -       -       End of Boring       1       1         36-       -       -       -       -       1       1       1         38-       -       -       -       -       -       1 <td>Remar</td> <td>rks:</td> <td></td> <td></td> <td></td> <td>Date Com</td> <td>pleted: 0</td> <td>4/09/0</td> <td>08</td> <td></td>	Remar	rks:				Date Com	pleted: 0	4/09/0	08	
29-       30-       BE       0       0         31-       32-       0       0       0         33-        End of Boring       1       1         34-       -        End of Boring       1       1         35-       -       -       -       End of Boring       1       1         36-       -       -       -       -       1       1       1         38-       -       -       -       -       -       1 <th></th>										
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Depth		USCS Code	Graphic Log	Material Description	n i	Date	DIA	FID	Notes
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	29-									
31-       0       0         32-       0       0         33-        End of Boring         34-       -       -         35-       -       -         36-       -       -         37-       -       -         38-       -       -         39-       -       -         40-       -       -         41-       -       -				$ \bigcirc  $						
31-       0       0         32-       0       0         33-        End of Boring         34-       -       -         35-       -       -         36-       -       -         37-       -       -         38-       -       -         39-       -       -         40-       -       -         41-       -       -	30-									
32-			8E							
32-	31-			$  \bigcirc $						
33-       Image: Constrained of Boring         34-       Image: Constrained of Boring         35-       Image: Constrained of Boring         36-       Image: Constrained of Boring         36-       Image: Constrained of Boring         37-       Image: Constrained of Boring         38-       Image: Constrained of Boring         39-       Image: Constrained of Boring         40-       Image: Constrained of Boring         41-       Image: Constrained of Boring				$ \bigcirc \_ $						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	32			$\square$						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				$ \bigcirc \neg $						
35-	33			4	End of Boring					
36-         37-         38-         39-         40-         41-	34									
36-         37-         38-         39-         40-         41-										
37-       38-       39-       40-       41-	35-									
37-       38-       39-       40-       41-	70									
38 - 39 - 40 - 41 - 41 - 41 - 41 - 41 - 41 - 41	35-									
38 - 39 - 40 - 41 - 41 - 41 - 41 - 41 - 41 - 41	37-									
39-       40-       41-										
40-41-	38-									
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41-	39-									
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	40-									
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42-										
	42-									
	76									
	I									

**APPENDIX D** 

MONITORING WELL BORING LOGS

A	internation under	P	roject Name	: Ellenville Scrap Iron	Site Id: E	PA-01			
		Τc	ownship/Ran	nge:	Coordinat	e X: 517		·····	
	2000		ogged By: C.		Coordinat			7	
. 2		Dr	rilling Metho	d: Hollow Stem Auger	Total Dep				• • • • • • • • • • • • • • • • • • • •
	angen an	_			Date Sta				
Rema	irks:				Date Con	npleted: (	)4/08/	08	
		1				T	1	I	
Depth	Recovery %	USCS Code	Graphic Log	Material Descriptior	)	Date	CIId	FID	Notes
Ŏ	<u>a</u>	ñ					<u> </u>		
			0	0—21.5': Fine—coarse SAND son	ne Gravel	4/8/2008	0 ppm	0	
1-				and silt. Subrounded Gravel, till,	moist to	i i			
			0	10' wet at 10'.					
2-									
3-			0						
			0			ĺ	i		
4 -									
5-									
			0						
6-									
			0						
7-									
8-			0						
			0						
9-									
			0						
10-									
			0						
<sub>11</sub> _		SW/SW							
11-			0						
12									
			0						
13-			0						
14 -			0						

		P	roject Name	: Ellenville Scrap iro	n	Site Id: El	PA-01			
		Та	ownship/Ran	ige:		Coordinat				
			ogged By: C.			Coordinat			7	
20	1.50	D D	rilling Metho	d: Hollow Stem Auge	er	Total Dep				
<u> </u>						Date Star			0.0	
Rema	irks:					Date Com	ipleted: (	14/08/	08	
										1
Depth	Recovery %	USCS Code	Graphic Log	Material [	)escription		Date	DIA	FID	Notes
	-									
15-			0							
16-			o							
17-		1	0							
18-			0							
19-			0							
20-			0							
21-			°	21.5-27': Competent	bedrock			0 ppm	O	
22-			$\supset \bigcirc$	2.0 27. Competent	oguj ook.			o bhui	J	
23-			$\square \bigcirc$							
24-		8E	$\left \begin{array}{c} \\ \\ \\ \end{array}\right  \right\rangle \left( \right)$							
25-			$\supset \bigcirc$							
26-			$\left \begin{array}{c} \\ \\ \\ \\ \end{array}\right  > O$							
27-				End of	Boring					
28-										

Tomath/Renge:         Coordinate X: 518132.27           Logac By: C.Jobion         Coordinate X: 518132.27           Tomation:         Coordinate X: 518132.27           Remarks:         Coordinate X: 518132.06           Air Rotary to 19' (seel up to 16') competent bedrack,         Date Completed: 04/08/08           ISA and Air Rotary to 19' (seel up to 16') competent bedrack,         Date Completed: 04/08/08           ISA and Air Rotary to 19' (seel up to 16') competent bedrack,         Bate Completed: 04/08/08           ISA         ISA is 0 to 10' (seel up to 16') competent bedrack,         Bate Completed: 04/08/08           ISA         ISA is 0 to 10' (seel up to 16') competent bedrack,         Isa contact is 04/08/08           ISA         ISA is 0 to 10' (seel up to 16') competent bedrack,         Isa contact is 04/08/08           ISA         ISA is 0 to 10' (seel up to 16') competent bedrack,         Isa contact is 04/08/08           ISA         ISA is 0 to 10' (seel up to 16') competent bedrack,         Isa contact is 04/08/08           ISA         ISA is 0 to 10' (seel up to 16') competent bedrack,         Isa contact is 04/08/08           ISA         ISA is 0 to 10' (seel up to 16') competent bedrack,         Isa contact is 04/08/08         Isa contact is 04/08/08           ISA         ISA is 0 to 10' (seel up to 16') competent bedrack,         Isa contact is 04/08/08         Isa contact is 04/08/08		than market t	Pi	roject Name	e: Ellenville Scrap Iron	Site Id: E	PA-02				
Logged By C.Joblion         Coordinate Y: 105143.06           Remarks:         Total Deskri 19.00'           Remarks:         Date Started: 04/08/08           Remarks:         Date Started: 04/08/08           TSA and Arr Rotary to 19' (seal up to 16') competent bedrack, ISA and Arr Rotary to 18' (seal up to 16') competent bedrack, ISA and Arr Rotary to 18' (seal up to 16') competent bedrack, ISA and Arr Rotary to 18' (seal up to 16') competent bedrack, ISA and Arr Rotary to 18' (seal up to 16') competent bedrack, ISA and Arr Rotary to 18' (seal up to 16') competent bedrack, ISA and Arr Rotary to 18' (seal up to 16') competent bedrack, ISA and Arr Rotary to 18' (seal up to 16') competent bedrack, ISA and Arr Rotary to 18' (seal up to 16') competent bedrack, ISA and Arr Rotary to 19' (seal up to 16') competent bedrack, ISA and Arr Rotary to 19' (seal up to 16') competent bedrack, ISA and Arr Rotary to 19' (seal up to 16') competent bedrack, ISA and Arr Rotary to 19' (seal up to 16') competent bedrack, ISA and Arr Rotary to 19' (seal up to 16') competent bedrack, ISA and Arr Rotary to 19' (seal up to 10-10') Brown fine-medum SAND with some         4/8/2088         0 ppm         0           1-         0         0         0         0         0         0         0         0           2-         0         0         0         0         0         0         0         0         0           3-         0         0         0         0         0         0         0         0         0         0         0			-			Coordinat	e X: 518	132.27			
Drilling Method: Hollow Stam Auger         Total Depth: 19.00'           Remarks:         Date Started: 04/08/08           Air Rotary to 19' (seel up to 16') competent bedrock.         Date Started: 04/08/08           ISA and Air Rotary to 19' (seel up to 16') competent bedrock.         Notes           Image: Started: 04/08/08         Date Started: 04/08/08           Image: Started: 04/08/08         Date Started: 04/08/08           Image: Started: 04/08/08         Image: Started: 04/08/08           Image: Started: 04/08/08		d fame				Coordinat	e Y: 105	3143.06			
Date Completed: 04/08/08           Date Compl	is										
Air Retary to 19' (sed) up to 16') competent bedrock,         HSA and Air Rotary to 16' BCS. Well-construction over.         Notes         Notes         Description       Description         Description       Description       Description         Description <thdescription< th="">       Description</thdescription<>		Second States of States and									
$\frac{1}{4}$ $\frac{1}{2}$	Rema	irks:				Date Con	npleted: (	)4/08/(	38		
1-       0       0       0-10': Brown fine-medium SAND with some Gravel and silt.       4/8/2008       0 ppm       0         2-       0       0       0       0       0       0       0         3-       0       0       0       0       0       0       0         4-       0       0       0       0       0       0       0         5-       0       0       0       0       0       0       0         6-       0       0       0       0       0       0       0         7-       0       0       0       0       0       0       0         9-       0       0       0       0       0       0       0       0         10-16': Wet ot 11-12':       0       0       0       0       0       0       0       0       0         12-       0	Air R HSA	otary and A	to 19 Air Ro	9' (seal up tary to 16'	to 16') competent bedrock, BGS. Well-construction over.	¢		1			
1- 1- 2- 3- 4- 5- 6- 7- 8- 9- 9- 10- 10- 10- 10- 10- 10- 10- 10	Depth			Graphic Log	Material Description	1	Date	Oid	Ð	Notes	
1- 1- 2- 3- 4- 5- 6- 7- 8- 9- 9- 10- 10- 10- 10- 10- 10- 10- 10							4/8/2008	0			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$					0-10': Brown fine-medium SAND	with some	10/2000	U ppm			
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1-				Gravel and silt.						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$											
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2										
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$							-				
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				0							
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7 - 8 - 8 - 8 - 8 - 8 - 8 - 9 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0				0							
7 - $8  5x/5w$ $0$	6-				н 1						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				<b>•</b>							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	7										
9 - 10 - 10 - 10 - 16': Gray weathered Shale, moist. 4/8/2008 0 ppm 0 10 - 16': Wet at 11 - 12'. $11 - 12 - 13 - 10 - 16': Gray weathered Shale, moist. 4/8/2008 0 ppm 0 10 - 16': Wet at 11 - 12'.$				· 'o			1				
9 - 10 - 10 - 10 - 16': Gray weathered Shale, moist. 4/8/2008 0 ppm 0 10 - 16': Wet at 11 - 12'. $11 - 12 - 13 - 10 - 16': Gray weathered Shale, moist. 4/8/2008 0 ppm 0 10 - 16': Wet at 11 - 12'.$	8_		en leur				1				
9- $0$ $10-16$ ': Gray weathered Shale, moist. $4/8/2008$ $0  ppm$ $0$ $10-16'$ : Wet at $11-12'$ . $11 0$ $0$ $0$ $10-16'$ : Wet at $11-12'$ . $12 0$ $0$ $0$ $10-16'$ : Wet at $11-12'$ . $13 0$ $0$ $0$ $0$ $14 0$ $0$ $0$ $0$			SM/SW								
10 - 10 - 10 - 16':  Gray weathered Shale, moist. $4/8/2008  0  ppm  0  10 - 16':  Wet at  11 - 12'.$ $11 - 12 - 0  0  0  0  0  0  0  0  0  0$											
10-       0       10-16': Gray weathered Shale, moist.       4/8/2008       0 ppm       0       10-16': Wet at 11-12'.         11-       0       0       0       0       0       0       0         12-       0       0       0       0       0       0       0       0         13-       0       0       0       0       0       0       0       0         14-       0       0       0       0       0       0       0       0	9-										
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$											
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	10				   10—16': Grav weathered Shale. r	noist.	4/8/2008	0 ppm	Q	10-16': Wet at 11-12'.	
12 - 13 - 14 - 14 - 14				0			, .,	F F <sup>are</sup>			
12 - 13 - 14 - 14 - 14	11										
				0							
	12-										
	13-										
	14-			0	l						

		N Pi	roject Name	: Ellenville Scrap Iron	Site Id: El	PA-02			
200.200	<u>44</u> 00	Тс	ownship/Ran	ge:	Coordinat				· · · · ·
1	<b>.</b>		ogged By: C.		Coordinat				
<i>*</i>		Dr	rilling Metho	d: Hollow Stem Auger	Total Dep				
				· · · · · · · · · · · · · · · · · · ·	Date Star				
Remark	ks:				Date Com	pleted: C	04/08/0	08	
Air Rot HSA ar	tary nd A	to 19 Air Ro	9' (seal up tary to 16'	to 16') competent bedrock, BGS. <del>Well- construction over:</del>		1		1	1
	Recovery %	USCS Code	Graphic Log	Material Description		Date	DIA	FID	Notes
15-			0						
16-			┝╶╴┷┝╹┥	16-19': Gray Sandstone.		4/8/2008	0 ppm	Ó	
			$  \frown \bigcirc$	r -					
17-									
	1	BE	$ \langle \rangle  $						
18-			$  - \bigcirc$			]			
			$ \bigcirc$						
19-			╞╰═╯┈╺═╍┙	End of Boring					
20-									
21									
<b>2</b> 17									
22 -									
23-									
24 -									
25-									
<sup>25</sup>									
26-									
27-									
28-		:							
		•			······				

A CONTRACTOR		N Pr	oject Nome	: Ellenville Scrap Iron	Site Id: E	PA-03				
	e mere	Тс	wnship/Ran	ge:	Coordinat					
	Maria I.		ogged By: R.		Coordinat					
<u>N</u>		Dr	illing Metho	d: Hollow Stem Auger	Total Dep					
	and a state of the	<u> </u>			Date Started: 04/15/08					
Remo	rks:				Date Com	npleted: (	4/16/0	)8		
						T	1		1	
Depth	Recovery %	USCS Code	Graphic Log	Material Description	n	Date	PID	FID	Notes	
ă	Å	ň	Ö			Ō	<u>م</u>	<u> </u>		
1- 2- 3- 4- 5-			0 0 0 0 0	0-4': Dark brown fine-medium some silt. 4-12': Fine-medium SAND with and medium-coarse rounded gr	some Silt	4/15/2008	0 ppm 0 ppm	0	4—12': Air Rotary 4—12'.	
6- 7- 8- 9-		SM/SW	0000							
		,	•							
10-			0							
11			0							
12-			0	12-18': Brown medium-coarse some Silt.	SAND and		0 ppm	0	12–18': HSA 12–18'.	
13-			0							
14-			0							

				: Ellenville Scrap Iron	Site Id: Ef						
-62		Тс	wnship/Ran	ge:	Coordinate						
			ogged By: R.		Coordinate			}			
		Dr	rilling Metho	d: Hollow Stem Auger	Total Dep						
Responsible states					Date Started: 04/15/08 Date Completed: 04/16/08						
Remar	ks:				Date Com	pietea:	<u>)4/16/(</u>	28			
								1			
Depth	Recovery %	USCS Code	Graphic Log	Material Descriptio	n	Date	Ũd	ED CI	Notes		
15-			o								
16-			0								
17-			•								
18-			╞╶╼╶╴┝╴╵┑	18-20': Weathered Bedrock.			0 ppm	o	18—20': Air Rotary 18—22'.		
			$\square$		:						
19-			$\square$								
			$  \frown \lor  $								
20-		BE	$\square \square$	20-22': Bedrock.			0 ppm	0			
			$\square$								
21-	-		$\square$								
			$\cap$								
22-			╞╲╧╯═╺═╲┥	End of Boring							
23-											
24-											
25-											
26-											
27-							:				
~'									4		
28-											
20											
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		Pr	oject Name	e: Ellenville Scrap Iron	Site Id: E		1.100		
			wnship/Rar		Coordinat				
	Alexan ist -		ogged By: R.		Coordinat				
4	1	Dr	illing Metho	d: Hollow Stem Auger	Total Dep				
-		_			Date Sta				
Rema	irks:				Date Con	npleted: C	04/15/0	8	
						1			
Depth	Recovery %	USCS Code	Graphic Log	Material Description	ı	Date	PID	FID	Notes
						-			
			<b>.</b>	0—3': Dark brown fine-medium	Sand with	4/15/2008	0 ppm	0	
1-				some Silt, trace fill (glass fragr					
		E.							
2-		Fl							
3-				3—12': Fine—coarse rounded GR	AVEL.		0 ppm	0	3—12": Air Rotary
			0000						to 12". Water at 12".
4			000						
5-									
E I									
6-			$p_{10}$						
7-			p.o. O.o.						
		GW	$b \circ \circ \circ$						
8-			þ.o. O.o.						
			000						
9-			6000						
			000						
			0000						
10-			0 0 0						
11-									
12-				12-19.5': Brown medium-coarse	SAND with		0 ppm	0	
			0	some Silt.					
13-			0						
14-			0						
<b>'</b>									

1		Pr	oject Name	: Ellenville Scrap Iron	Site Id: Ef					
86.5-Ye			wnship/Ran		Coordinat					
			gged By: R.		Coordinat					
<u>.</u>	Start Start	Dr	illing Method	d: Hollow Stem Auger	Total Dep					
Compensation of the					Date Started: 04/15/08 Date Completed: 04/15/08					
Rema	rks:				Date Com	pleted: L	94/15/0	8		
Depth	Recovery %	USCS Code	Graphic Log	Material Description	งก	Date	OId	FID	Notes	
<u> </u>		<u>ر</u>							· · · · · · · · · · · · · · · · · · ·	
15										
15-			0							
16		SW/SW	0							
``										
17-			0							
18-			0							
19-			0							
20-				19.5—20.5': Weathered Bedroci	ς.		0 ppm	0		
21-			$\bigcirc$	20.5-27': Bedrock.			0 ppm	0	20.5-27': Air Rotary to 27'. Total depth	
22-			$\bigcirc$						at 27'.	
23-		ßE	$\bigcirc \bigcirc$							
24-		-	$\bigcirc \bigcirc$							
25-			$\square \bigcirc$							
26 -			$\square \bigcirc$							
27-				End of Boring						
28-										

A CONTRACTOR OF				: Ellenville Scrap Iron	Site Id: E				
	#5 <u>1</u>		wnship/Ran		Coordinat				
	799 <b>0</b> 000	Lo	gged By: C.	Joblon	Coordinat			)	
<b>ئ</b> ىز		Dr	illing Metho	d: Hollow Stem Auger	Total Dep				
		<u></u>			Date Stor				11-11 - 11-11
Remo	rks:				Date Con	npleted: (	4/10/0	8	
						[			
ء	Recovery %	S Code	Graphic Log	Material Description	on				Notes
Depth	Reco	nscs	Grap			Date	CI-d	FID	
1-			0	0—17': COBBLES, subrounded and fine sands.	Gravel	4/10/2008	0 ppm	0	:
2-			0						
3-			o						
4 -			0						
5-			0						
			0						
6-			0						
7-			0						
8-			0						
9-			0						
10-			0					;	
11			0						
12-			0						
13-			0						
14-		SW/SW	0						

		P	roject Name	: Ellenville Scrap Iron	Site Id: El	PA-05			•••••
a an			ownship/Rar		Coordinat		770.56		
	<i>9</i> 7		ogged By: C.	Joblon	Coordinat	e Y: 105	2439.40	)	
<u>.</u>		D	rilling Metho	d: Hollow Stem Auger	Total Dep				
					Date Star				
Remo	irks:				Date Com	pleted: (	04/10/0	08	
								t	
Depth	Recovery %	USCS Code	Graphic Log	Material Descriptio	'n	Date	DId	ЪD	Notes
								<u> </u>	
15-			0						
16-			0						
17-			0	17-27': SAND and cobbles.			0 ppm	0	
18-			0						
19-			0						
20-			0						
20									
21-			0						
22-			0						
23-			• •						
24-			0						
25-			0						
26-			0						
27-		8E		27-35': Competent Bedrock.			0 ppm	ο	
28-				End of Boring					

and the same time		P	roject Name	e: Ellenville Scrap Iron	Site Id: E	PA-06			
Sec. Sec.	9. <b>8</b> 7	Τ	ownship/Rar	nge:	Coordinat				
		L	ogged By: R	McPherson	Coordinat	te Y: 105	2769.78	3	
38		D	rilling Metho	d: Hollow Stem Auger	Total Dep				
	-19.5 <b></b>				Date Sta				
Remo	irks:				Date Con	npleted: (	04/10/	08	
			T	1			1	<b>r</b>	<b>.</b>
Depth	Recovery %	USCS Code	Graphic Log	Material Description	ı	Date	Old	FID	Notes
				· · · · · · · · · · · · · · · · · · ·		1			· · · · · · · · · · · · · · · · · · ·
	i			0-15': Dark brown fine-coarse	SAND with	4/9/2008	0 ppm	0	
1-			0	some Gravel and silt. Subround		[			
				till, moist to 10' wet at 10'.					
2			0	in, moist to to wet ut to.					
3-			0						
						]			
			0			Ì			
4									
			0						
5-									
			· · o · · ·						
6-									
			0						
7-									
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			· · <sup>*</sup> · <b>   </b> . <b> </b> ·			]			
8-		:							
			0						
9-									
			0				!		
10-									
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11-									
''			•						
12-			· •						
13-			0						
14-			0						

Remorks	5:	Lo		nge: .McPherson od: Hollow Stem Auger		e Y: 105 th: 35.00 ted: 04/	2769.78 )'	3				
24	s:				Total Dep Date Star	th: 35.00 ted: 04/	)'	3				
24	s:	Dr	illing Metho	od: Hollow Stem Auger	Date Star	ted: 04/						
24	s:	<u></u>					09/08					
24	s: 				Date Com	كالمعاهداته	Date Started: 04/09/08 Date Completed: 04/10/08					
						ipietea: t	04/10/0	08				
	1						Γ					
i e	و 1	Code	Graphic Log	Material Description	n	-			Notes			
Depth Recoverv		USCS	Graph			Date	QId	FID				
15-	SM	i/sw	0	15–30': Fine-medium SAND with s	ome Cobbles.		0 ppm	0				
16			0									
17-			<b>o</b>									
18-			`` <b>o</b>									
19-			O									
20-			0									
21-			0									
22-			0									
23-			0									
24-			0									
25-			0									
26 27-			0									
28-			0									

Township/Ronge:         Coordinate X: 517455.84           Logged By R.McPherson         Coordinate Y: 1032769.78           Drilling Method: Holow Stem Auger         Total Deptit: 35.00'           Date Completed: 04/10/08         Date Completed: 04/10/08           Remarks:         Date Completed: 04/10/08           1         1           1         1           29         30-35': Bedrock.           31-         1           32-         86           33-         1           34-         1           35-         1           36-         1           37-         86           38-         1           39-         1           40-         1           42-         1		astronic and	Pi	roject Name	: Ellenville Scrap Iron	Site Id: E	PA-06			
Logged By: R.McPherson         Coordinate Y: 1952769.78           Drilling Method: Hollow Stem Auger         Total Depth: 35.30'           Date Started: 04/00/08           Base         0           1         0 <t< td=""><td></td><td>1996 (A)</td><td></td><td></td><td></td><td></td><td></td><td>435.84</td><td></td><td></td></t<>		1996 (A)						435.84		
Drilling Method: Hol ow Stem Auger         Total Depth: 35.00'           Dark Storted: 04/09/08         Date Completed: 04/10/08           Date Completed: 04/10/08         Date Completed: 04/10/08           Image: Storted: 04/09/08         Date Completed: 04/10/08           Image: Storted: 04/09/08         Date Completed: 04/10/08           Image: Storted: 04/09/08         Image: Storted: 04/10/08           Image: Storted: 04/09/08         Image: Storted: 04/10/08           Image: Storted: 04/07/08         Image: Storted: 04/07/08           Image: Store         Image: Store      <		- 27 ( SUS	L	ogged By: R.	McPherson				3	
Remarks:       Date Completed: 04/10/08	<i>i</i>		D	rilling Metho	d: Hollow Stem Auger					
$ \begin{array}{ c c c c c } \hline 1 & 1 & 1 & 1 & 1 \\ \hline 1 & 1 & 1 & 1 \\ \hline 1 & 1 $		101. ANI A.								
29-       30-       30-       30-35': Bedrock.       04/10/08       0 ppm       0         31-       9E       0       0       0       0       0         32-       9E       0       0       0       0       0         33-       9E       0       0       0       0       0         34-       0       0       0       0       0       0         35-       0       0       0       0       0       0         36-       0       0       0       0       0       0         37-       0       0       0       0       0       0       0         38-       0       0       0       0       0       0       0       0         39-       0       0       0       0       0       0       0       0         40-       0       0       0       0       0       0       0       0         41-       0       0       0       0       0       0       0       0	Remo	irks:				Date Con	npleted: (	04/10/0	08	
29-       30-       30-       30-35': Bedrock.       04/10/08       0 ppm       0         31-       9E       0       0       0       0       0         32-       9E       0       0       0       0       0         33-       9E       0       0       0       0       0         34-       0       0       0       0       0       0         35-       0       0       0       0       0       0         36-       0       0       0       0       0       0         37-       0       0       0       0       0       0       0         38-       0       0       0       0       0       0       0       0         39-       0       0       0       0       0       0       0       0         40-       0       0       0       0       0       0       0       0         41-       0       0       0       0       0       0       0       0								1		
30-       30-       30-35': Bedrock.       04/10/08       0 ppm       0         31-       9E       0       0       0       0       0         32-       9E       0       0       0       0       0         33-       9E       0       0       0       0       0         34-       0       0       0       0       0       0         35-       0       0       0       0       0       0         36-       0       0       0       0       0       0         37-       0       0       0       0       0       0       0         38-       0       0       0       0       0       0       0       0         40-       0       0       0       0       0       0       0       0         41-       0       0       0       0       0       0       0       0       0	Depth		USCS Code	Graphic Log	Material Descripti	on	Date	DId	ED	Notes
30-       30-35': Bedrock.       04/10/06       0 ppm       0         31-       0       0       0       0       0         32-       0       0       0       0       0       0         33-       0       0       0       0       0       0       0         34-       0       0       0       0       0       0       0       0         36-       0       0       0       0       0       0       0       0         38-       0       0       0       0       0       0       0       0         39-       0       0       0       0       0       0       0       0         40-       0       0       0       0       0       0       0       0         41-       0       0       0       0       0       0       0       0       0	29-									
32-       BE       Image: Constrained in the second	30-				30-35': Bedrock.		04/10/08	0 ppm	0	
33-       BE       Image: Constrained on the second	31-			$\supset \bigcirc$						
33-       Image: Constraint of Boring         34-       Image: Constraint of Boring         35-       Image: Constraint of Boring         36-       Image: Constraint of Boring         37-       Image: Constraint of Boring         38-       Image: Constraint of Boring         39-       Image: Constraint of Boring         40-       Image: Constraint of Boring         41-       Image: Constraint of Boring	32-			$\bigcirc \bigcirc$						
35-     End of Boring       36-	33-		BE	$\bigcirc \bigcirc$						
35-     End of Boring       36-     Image: Constraint of Boring       37-     Image: Constraint of Boring       38-     Image: Constraint of Boring       39-     Image: Constraint of Boring       40-     Image: Constraint of Boring       41-     Image: Constraint of Boring	34 -			$\bigcirc \bigcirc$						
37-       38-       39-       40-       41-	35-			Ω	End of Boring					
38 - 39 - 40 - 41 - 41 - 41 - 41 - 41 - 41 - 41	36-									
39-       40-       41-	37-									
40-41-	38-									
41-	39-									
	40-									
42-	41-									
	42-									

and the second s				e: Ellenville Scrap Iron	Site Id: E				
	1. age 1		ownship/Rar		Coordinat				
			ogged By: R		Coordinat			7	
र्ज		D	rilling Metho	od: Hollow Stem Auger	Total Dep				
ALC: NO.	<i>4</i>				Date Sta			<u>.</u>	
Rema	irks:				Date Con	npleted: (	04/09/0	08	
				-			<b>1</b>		
Depth	Recovery %	USCS Code	Graphic Log	Material Descriptio	'n	Date	Old	0	Notes
ð	až –	ő	5			Ŏ	<u> </u>	0 <u>-</u>	
1-				0—8': Brown fine—coarse SAND Gravel and some silt, till.	with little	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							
'				· · · · · · · · · · · · · · · · · · ·		L			

and the second second		Pr	roject Name	: Ellenville Scrap Iron	Site Id: E	PA-07			
		To	wnship/Ran	nge:	Coordinat				
	38 <b>8</b> 000		ogged By: R.		Coordinat			7	
		Dr	illing Metho	d: Hollow Stem Auger	Total Dep				
		_			Date Star				
Remo	rks:				Date Com	npleted: (	04/09/0	08	1. I. M.
				r		T			<b>T</b>
Depth	Recovery %	USCS Code	Graphic Log	Material Descript	ìon	Date	DIA	FID	Notes
				······································			-		
15-				15—27.5': Brown fine—coarse SA	ND with some		0 ppm	0	
				subrounded Gravel and some	silt, till, wet				
16-									
17-									
18-									
19-									
20-									
21-									
21-									
22-									
	:								
23-									
24-									
							1		
25-							ł		
26-									
27-									
20				27.5–33': Competent Bedroc	k.		0 ppm	0	27.5—33': Air Rotary to 33'.
28-			$  \cap \lor$						
<b>I</b> .		L		<b>I</b>				•	uffen art i 11.000

Township/Renge:         Coordinate X: 517402.53           Logged By: R.McPherson         Coordinate X: 103492.77           Drilling Mthod: Hollow Stem Auger         Total Depth: 33.00"           Remarks:         Date Completed: 04/09/08           #         #	for the second s		Pr	oject Name:	: Ellenville Scrap Iron	Site Id: EF	PA-07					
Drilling Method: Hollow Stem Auger         Total Depth: 33.00°           Date Started: 04/09/08         Date Completed: 04/09/08           0ate Completed: 04/09/08         Date Completed: 04/09/08           1         1           1         1           29         1           30         1           31         1           32         1           33         1           34         1           35         1           36         1           37         1           38         1           39         1           41         1		1. M.	To	wnship/Ran	ge:							
Notes         Bate Started: 04/09/08           Eermarks:         Date Started: 04/09/08           1         1     <									,			
Remarks:     Date Completed: $04/09/08$ $\frac{5}{48}$ $\frac{9}{92}$ $\frac{9}{32}$ $\frac{9}{32}$ Moterial Description $\frac{9}{8}$ $\frac{9}{2}$ $\frac{9}{2}$ Notes       29- $31 BE$ $0$ $0$ $0$ $1$ $1$ $1$ 31- $BE$ $0$ $0$ $0$ $0$ $1$ $1$ $1$ 32- $0$ $0$ $0$ $0$ $0$ $0$ $0$ 33- $  0$ $0$ $0$ $1$ $1$ 34- $1$ $1$ $1$ $1$ $1$ $1$ $36 1$ $1$ $1$ $1$ $1$ $37 1$ $1$ $1$ $1$ $1$ $38 1$ $1$ $1$ $1$ $1$ $39 1$ $1$ $1$ $1$ $1$ $40 1$ $1$ $1$ $1$ $1$	<u>, 1</u>		Dr	illing Method	d: Hollow Stem Auger							
$\frac{1}{40}$ $\frac{9}{62}$ $\frac{9}{29}$ $\frac{9}{29}$ Moterial Description $\frac{9}{62}$ $\frac$			◢									
29-       30-       BE       0       0         31-       32-       0       0       0         33-        End of Boring       1       1         34-       -        End of Boring       1       1         35-       -       -       -       End of Boring       1       1         36-       -       -       -       -       1       1       1         38-       -       -       -       -       -       1 <td>Remar</td> <td>rks:</td> <td></td> <td></td> <td></td> <td>Date Com</td> <td>pleted: 0</td> <td>4/09/0</td> <td>08</td> <td></td>	Remar	rks:				Date Com	pleted: 0	4/09/0	08			
29-       30-       BE       0       0         31-       32-       0       0       0         33-        End of Boring       1       1         34-       -        End of Boring       1       1         35-       -       -       -       End of Boring       1       1         36-       -       -       -       -       1       1       1         38-       -       -       -       -       -       1 <th></th>												
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Depth		USCS Code	Graphic Log	Material Description	n i	Date	DIA	FID	Notes		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	29-											
31-       0       0         32-       0       0         33-        End of Boring         34-       -       -         35-       -       -         36-       -       -         37-       -       -         38-       -       -         39-       -       -         40-       -       -         41-       -       -				$ \bigcirc  $								
31-       0       0         32-       0       0         33-        End of Boring         34-       -       -         35-       -       -         36-       -       -         37-       -       -         38-       -       -         39-       -       -         40-       -       -         41-       -       -	30-											
32-			8E									
32-	31-			$  \bigcirc $								
33-       Image: Constrained of Boring         34-       Image: Constrained of Boring         35-       Image: Constrained of Boring         36-       Image: Constrained of Boring         36-       Image: Constrained of Boring         37-       Image: Constrained of Boring         38-       Image: Constrained of Boring         39-       Image: Constrained of Boring         40-       Image: Constrained of Boring         41-       Image: Constrained of Boring				$ \bigcirc \_ $								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	32			$\square$								
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$				$ \bigcirc \neg $								
35-	33			4	End of Boring							
36-         37-         38-         39-         40-         41-	34											
36-         37-         38-         39-         40-         41-												
37-       38-       39-       40-       41-	35-											
37-       38-       39-       40-       41-	70											
38 - 39 - 40 - 41 - 41 - 41 - 41 - 41 - 41 - 41	35-											
38 - 39 - 40 - 41 - 41 - 41 - 41 - 41 - 41 - 41	37-											
39-       40-       41-												
40-41-	38-											
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41-	39-											
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**APPENDIX E** 

	UNCONSOLIDATED MONITORING WE	LL CONSTRUCTION DIAGRAM (STICK-UP)	
PROJECT:	Ellenville RI/FS	WELL NUMBER:	EPA-01
PROJECT NO .:	106-1945	WELL LOCATION (STATION) ID:	EPA-01
BORING NUMBER:	EPA-01	DATE COMPLETED:	04/08/08
ELEVATION (FT):	445.5800	SURVEY DATE:	
FIELD GEOLOGIST:	C. Joblon	X COORDINATE:	517743.27000
DRILLER:	Aztech Technologies	Y COORDINATE:	1053229.87000
DRILLING METHOD:	Hollow Stem Auger	DATUM:	NAVD88
DEVELOPMENT METHOD:	Hand Bailing	START DEPTH (FT):	0.0
SUMP INSTALLED?(Y/N):	N SUMP LENGTH (FT): 0	METHOD TO MEASURE WELL DEPTH:	ground surface
		✓ Elevation of Top of Surface Casing	445.2200
		Stick-up Riser Pipe: Elevation of Top of Riser Pipe (Ft)	445.5800
		Stick-up of Surface Casing Above Ground Surface (Ft)	2.14
GROUND ELEVATION		Height of Riser Pipe (Ft)	2.5
		Type of Surface Plug Depth of Surface Plug (bgs in feet)	concrete 2.2
		Diameter of Surface Plug (Ft)	4.5
	la 19	I.D. of Surface Casing (Inches)	6
	99	Type of Surface Casing	steel
		<sup>\</sup> Depth of Surface Casing (Ft)	3
	4 8		
	у <u>р</u>	I.D. of Riser (Inches) Type of Riser	2 PVC sch 40
	g p	-Borehole Diameter (Inches)	8
	9 9		hostosito olurs
		Type of Backfill Backfill - Tremied (Y or N)	bentonite slurry Y
		Depth of Top of Seal (Ft)	11
		Elevation of Top of Seal	432.0800 bentonite-granular
		Seal - Tremied (Y or N)	Y
		Depth of Top of Filter Pack (Ft) Depth of Top of Screen (Ft)	14 16
		Elevation of Top of Screen	427.0800
	☆ → 約 → → → → → → → → → → → → → → → → →	Type of Screen:	PVC sch 40
		I.D. of Screen (Inches) Slot Size of Screen (Inches)	2 0.01
	. 이 프로 😫	Length of Screen (Ft)	5
	同三日	➤Type of Filter Pack: Filter Pack - Tremied (Y or N)	sand pack Y
		Well Construction Remarks:	
	副 == [5]		
	「「「「」「」「」」	Depth of Bottom of Screen (Ft)	21
		Í –	
		Depth of Bottom of Filter Pack (Ft)	21.5
	an an Caracteria Maria	Elevation of Bottom of Filter Pack	421.5800
		Type of Backfill Below Filter Pack	sand pack
	ل <u>ہے۔</u> ل <u>و</u>	Depth of Hole (Ft)	27
TE TETRATECH (C	NOT TO SCALE	Elevation of Hole	416.0800

	UNCONSOLIDATED MONITORING WE	LL CONSTRUCTION DIAGRAM (STICK-UP)	
PROJECT:	Ellenville RI/FS	WELL NUMBER:	EPA-02
PROJECT NO .:	106-1945	WELL LOCATION (STATION) ID:	EPA-02
BORING NUMBER:	EPA-02	DATE COMPLETED:	04/08/08
ELEVATION (FT):	442.3800	SURVEY DATE:	
FIELD GEOLOGIST:	C. Joblon	X COORDINATE:	518132.27000
DRILLER:	Aztech Technologies	Y COORDINATE:	1053143.06000
DRILLING METHOD:	Hollow Stem Auger	DATUM:	NAVD88
DEVELOPMENT METHOD:	Hand Bailing	START DEPTH (FT):	0.0
SUMP INSTALLED?(Y/N):	N SUMP LENGTH (FT): 0	METHOD TO MEASURE WELL DEPTH:	ground surface
		✓ Elevation of Top of Surface Casing	442.2700
		Stick-up Riser Pipe: Elevation of Top of Riser Pipe (Ft) Stick-up of Surface Casing Above	442.3800
		Ground Surface (Ft)	2.39
GROUND		Height of Riser Pipe (Ft)	2.5
		Type of Surface Plug Depth of Surface Plug (bgs in feet)	concrete 2.2
		Diameter of Surface Plug (Ft)	4.5
		I.D. of Surface Casing (Inches)	6
		Type of Surface Casing	steel
		<sup>1</sup> Depth of Surface Casing (Ft)	3
	у <u>р</u>	I.D. of Riser (Inches) Type of Riser	2 PVC sch 40
	J []	-Borehole Diameter (Inches)	8
	9 9		bostonito olurna
		Type of Backfill Backfill - Tremied (Y or N)	bentonite slurry Y
		Depth of Top of Seal (Ft)	6
		Elevation of Top of Seal	433.8800 bentonite-granular
		Seal - Tremied (Y or N)	Y
		Depth of Top of Filter Pack (Ft) Depth of Top of Screen (Ft)	9 11
		Elevation of Top of Screen	428.8800
		Type of Screen:	PVC sch 40
	國 🏯 國	I.D. of Screen (Inches) Slot Size of Screen (Inches)	2 0.01
	· · · · · · · · · · · · · · · · · · ·	Length of Screen (Ft)	5
		➤Type of Filter Pack: Filter Pack - Tremied (Y or N)	sand pack Y
		Well Construction Remarks:	
	ĕl <u>→ </u> 66		
	이 그 전	Depth of Bottom of Screen (Ft)	16
		ſ · · ·	
		Depth of Bottom of Filter Pack (Ft)	16
		Elevation of Bottom of Filter Pack	423.8800
		<ul> <li>Type of Backfill Below Filter Pack</li> </ul>	sand pack
	ن <u>ہے۔</u> ، ا <u>ہو</u>	Depth of Hole (Ft)	19
TETRATECH (C	NOT TO SCALE	Elevation of Hole	420.8800

	UNCONSOLIDATED MONITORING WE	LL CONSTRUCTION DIAGRAM (STICK-UP)	
PROJECT:	Ellenville Scrap Iron and Metal	WELL NUMBER:	EPA-03
PROJECT NO .:	106-1945.2149	WELL LOCATION (STATION) ID:	EPA-03
BORING NUMBER:	EPA-03	DATE COMPLETED:	04/16/08
ELEVATION (FT):	400.5700	SURVEY DATE:	
FIELD GEOLOGIST:	C. Joblon	X COORDINATE:	518294.59000
DRILLER:	Aztech Technologies	Y COORDINATE:	1052781.68000
DRILLING METHOD:	Hollow Stem Auger	DATUM:	NAVD88
DEVELOPMENT METHOD:	Submersible Pump	START DEPTH (FT):	0.0
SUMP INSTALLED?(Y/N):	N SUMP LENGTH (FT): 0	METHOD TO MEASURE WELL DEPTH:	ground surface
	<u>-</u>	Elevation of Top of Surface Casing	400.9600
	╶╵╢╤╤╂───	Stick-up Riser Pipe: Elevation of Top of Riser Pipe (Ft) Stick-up of Surface Casing Above	400.5700
		Ground Surface (Ft)	2.89
GROUND ELEVATION		Height of Riser Pipe (Ft)	2.5
I		Type of Surface Plug Depth of Surface Plug (bgs in feet)	2.2
		Diameter of Surface Plug (Ft)	4.5
	H H		
	L 19	I.D. of Surface Casing (Inches)	6
		Type of Surface Casing	steel 3
		<sup>1</sup> Depth of Surface Casing (Ft)	3
		I.D. of Riser (Inches) Type of Riser	2 PVC sch 40
	4 A	Borehole Diameter (Inches)	8
		<ul> <li>Type of Backfill</li> </ul>	bentonite slurry
		Backfill - Tremied (Y or N) Depth of Top of Seal (Ft)	Y 8
		Elevation of Top of Seal	390.0700
		Type of Seal:	bentonite-granular
	· · · · · · · · · · · · · · · · · · ·	Seal - Tremied (Y or N) Depth of Top of Filter Pack (Ft)	Y 11
	<u> 第一</u> 第一	Depth of Top of Screen (Ft)	13
		Elevation of Top of Screen	385.0700 PVC sch 40
	窗	I.D. of Screen (Inches)	2
	國 ==	Slot Size of Screen (Inches)	0.01
		Length of Screen (Ft) Type of Filter Pack:	5 sand pack
	前三口	Filter Pack - Tremied (Y or N)	Y
	劉王國	Well Construction Remarks:	
	國 — 國		
		Depth of Bottom of Screen (Ft)	18
		1 _	
		Depth of Bottom of Filter Pack (Ft) Elevation of Bottom of Filter Pack	18.5 379.5700
			373.3700
		<ul> <li>Type of Backfill Below Filter Pack</li> </ul>	sand pack
	·	Depth of Hole (Ft)	22
TE TETRATECH (C	NOT TO SCALE	<sup>1</sup> Elevation of Hole	376.0700
)			

	UNCONSOLIDATED MONITORING WE	LL CONSTRUCTION DIAGRAM (STICK-UP)	
PROJECT:	Ellenville RI/FS	WELL NUMBER:	EPA-04
PROJECT NO .:	106-1945	WELL LOCATION (STATION) ID:	EPA-04
BORING NUMBER:	EPA-04	DATE COMPLETED:	04/15/08
ELEVATION (FT):	395.9900	SURVEY DATE:	
FIELD GEOLOGIST:	R. McPherson	X COORDINATE:	518106.71000
DRILLER:	Aztech Technologies	Y COORDINATE:	1052479.34000
DRILLING METHOD:	Hollow Stem Auger	DATUM:	NAVD88
DEVELOPMENT METHOD:	Hand Bailing	START DEPTH (FT):	0.0
SUMP INSTALLED?(Y/N):	N SUMP LENGTH (FT): 0	METHOD TO MEASURE WELL DEPTH:	ground surface
- <del></del>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Elevation of Top of Surface Casing	395.3000
ĪŢ		<ul> <li>Stick-up Riser Pipe:</li> <li>Elevation of Top of Riser Pipe (Ft)</li> <li>Stick-up of Surface Casing Above</li> </ul>	395.9900
		Ground Surface (Ft)	1.81
ELEVATION		Height of Riser Pipe (Ft)	2.5 concrete
<u>-</u>		Type of Surface Plug Depth of Surface Plug (bgs in feet)	2.2
		Diameter of Surface Plug (Ft)	4.5
	4 4 <del>-</del>	I.D. of Surface Casing (Inches)	6
		Type of Surface Casing Depth of Surface Casing (Ft)	unknown 7.5
	A A		1.0
		D of Biggr (Inches)	2
		I.D. of Riser (Inches) Type of Riser	PVC sch 40
		Borehole Diameter (Inches)	8
	9 A.	Type of Backfill	bentonite slurry
		Backfill - Tremied (Y or N)	Y
		Depth of Top of Seal (Ft)	10
		Elevation of Top of Seal	383.4900 bentonite-granular
		Seal - Tremied (Y or N)	Y
		Depth of Top of Filter Pack (Ft) Depth of Top of Screen (Ft)	13 15.5
		Elevation of Top of Screen	377.9900
		Type of Screen: I.D. of Screen (Inches)	stainless steel 316 2
		Slot Size of Screen (Inches)	0.01
		Length of Screen (Ft)	5
	同三日	Type of Filter Pack: Filter Pack - Tremied (Y or N)	sand pack Y
		Well Construction Remarks:	
		Depth of Bottom of Screen (Ft)	20.5
		Depth of Bottom of Filter Pack (Ft) Elevation of Bottom of Filter Pack	21 372.4900
		<ul> <li>Type of Backfill Below Filter Pack</li> </ul>	sand pack
		Depth of Hole (Ft)	27
TETRATECH (C		Elevation of Hole	366.4900
	NOT TO SCALE	-	

	UNCONSOLIDATED MONITORING WE	LL CONSTRUCTION DIAGRAM (STICK-UP)	
PROJECT:	Ellenville RI/FS	WELL NUMBER:	EPA-05
PROJECT NO .:	106-1945	WELL LOCATION (STATION) ID:	EPA-05
BORING NUMBER:	EPA-05	DATE COMPLETED:	04/16/08
ELEVATION (FT):	402.3200	SURVEY DATE:	
FIELD GEOLOGIST:	C. Joblon	X COORDINATE:	517770.56000
DRILLER:	Aztech Technologies	Y COORDINATE:	1052439.40000
DRILLING METHOD:	Hollow Stem Auger	DATUM:	NAVD88
DEVELOPMENT METHOD:	Hand Bailing	START DEPTH (FT):	0.0
SUMP INSTALLED?(Y/N):	N SUMP LENGTH (FT): 0	METHOD TO MEASURE WELL DEPTH:	ground surface
		Elevation of Top of Surface Casing	402.3700
		<ul> <li>Elevation of Top of Riser Pipe (Ft)</li> <li>Stick-up of Surface Casing Above</li> </ul>	402.3200
		Ground Surface (Ft)	2.55
GROUND ELEVATION		Height of Riser Pipe (Ft)	2.5 concrete
1 1		Depth of Surface Plug (bgs in feet)	2.2
		Diameter of Surface Plug (Ft)	4.5
		I.D. of Surface Casing (Inches) Type of Surface Casing Depth of Surface Casing (Ft)	6 steel 3
	38	Type of Riser	PVC sch 40
	g g	Borehole Diameter (Inches)	8
		Type of Backfill Backfill - Tremied (Y or N) Depth of Top of Seal (Ft) Elevation of Top of Seal Type of Seal: Seal - Tremied (Y or N) Depth of Top of Filter Pack (Ft) Depth of Top of Screen (Ft) Elevation of Top of Screen Type of Screen: I.D. of Screen (Inches) Slot Size of Screen (Inches) Length of Screen (Ft) Type of Filter Pack: Filter Pack - Tremied (Y or N) Well Construction Remarks:	bentonite slurry Y 8 391.8200 bentonite-granular Y 11 22 377.8200 PVC sch 40 2 0.01 5 sand pack Y
		Depth of Bottom of Screen (Ft)	27
		Depth of Bottom of Filter Pack (Ft) Elevation of Bottom of Filter Pack	18.5 381.3200
		<ul> <li>Type of Backfill Below Filter Pack</li> </ul>	sand pack
TETRATECH (C	NOT TO SCALE	Depth of Hole (Ft) Elevation of Hole	22 377.8200

	UNCONSOLIDATED MONITORING WE	ELL CONSTRUCTION DIAGRAM (STICK-UP)	
PROJECT:	Ellenville RI/FS	WELL NUMBER:	EPA-06
PROJECT NO .:	106-1945	WELL LOCATION (STATION) ID:	EPA-06
BORING NUMBER:	EPA-06	DATE COMPLETED:	04/10/08
ELEVATION (FT):	410.8000	SURVEY DATE:	
FIELD GEOLOGIST:	R.McPherson	X COORDINATE:	517435.84000
DRILLER:	Aztech Technologies	Y COORDINATE:	1052769.78000
DRILLING METHOD:	Hollow Stem Auger	DATUM:	NAVD88
DEVELOPMENT METHOD:	Hand Bailing	START DEPTH (FT):	0.0
SUMP INSTALLED?(Y/N):	N SUMP LENGTH (FT): 0	METHOD TO MEASURE WELL DEPTH:	ground surface
		✓ Elevation of Top of Surface Casing	408.3000
		Stick-up Riser Pipe: Elevation of Top of Riser Pipe (Ft) Stick-up of Surface Casing Above	410.8000
GROUND		Ground Surface (Ft)	
ELEVATION		Height of Riser Pipe (Ft)	2.5 concrete
<u> </u>		Depth of Surface Plug (bgs in feet)	2.2
		Diameter of Surface Plug (Ft)	4.5
	L 19	I.D. of Surface Casing (Inches)	6
		Type of Surface Casing Depth of Surface Casing (Ft)	steel 7.5
		Depth of Surface Casing (Ft)	1.5
	H H		-
	у <u>р</u>	I.D. of Riser (Inches) Type of Riser	2 stainless steel 304
	g g	Borehole Diameter (Inches)	8
		Type of Backfill Backfill - Tremied (Y or N)	bentonite slurry Y
		Depth of Top of Seal (Ft)	18
		Elevation of Top of Seal	390.3000 bentonite-granular
		Seal - Tremied (Y or N)	Y
		Depth of Top of Filter Pack (Ft)	20
		Depth of Top of Screen (Ft) Elevation of Top of Screen	30 378.3000
	留 三海	Type of Screen:	stainless steel 316
	「「「「「「」」」を見ていていていた。	I.D. of Screen (Inches) Slot Size of Screen (Inches)	2 0.01
	e e e e e e e e e e e e e e e e e e e	Length of Screen (Ft)	5
		Type of Filter Pack: Filter Pack - Tremied (Y or N)	sand pack Y
		Well Construction Remarks:	1
	a 💳 👸		
	國王國	Depth of Bottom of Screen (Ft)	35
		T	
		Depth of Bottom of Filter Pack (Ft)	36
		Elevation of Bottom of Filter Pack	372.3000
		<ul> <li>Type of Backfill Below Filter Pack</li> </ul>	natural formation
	L L_g	Depth of Hole (Ft)	36
TE TETRATECH (	NOT TO SCALE	Elevation of Hole	372.3000

	UNCONSOLIDATED MONITORING WE	LL CONSTRUCTION DIAGRAM (STICK-UP)	
PROJECT:	Ellenville RI/FS	WELL NUMBER:	EPA-07
PROJECT NO .:	106-1945	WELL LOCATION (STATION) ID:	EPA-07
BORING NUMBER:	EPA-07	DATE COMPLETED:	04/09/08
ELEVATION (FT):	457.9700	SURVEY DATE:	
FIELD GEOLOGIST:	R. McPherson	X COORDINATE:	517402.53000
DRILLER:	Aztech Technologies	Y COORDINATE:	1053492.77000
DRILLING METHOD:	Hollow Stem Auger	DATUM:	NAVD88
DEVELOPMENT METHOD:	Hand Bailing	START DEPTH (FT):	0.0
SUMP INSTALLED?(Y/N):	N SUMP LENGTH (FT): 0	METHOD TO MEASURE WELL DEPTH:	ground surface
		Elevation of Top of Surface Casing	458.4700
14	─╰ <b>╎╤╤┼</b> ───	Stick-up Riser Pipe: Elevation of Top of Riser Pipe (Ft)	457.9700
•••••		Stick-up of Surface Casing Above Ground Surface (Ft)	3
GROUND ELEVATION		Height of Riser Pipe (Ft)	2.5
		Type of Surface Plug Depth of Surface Plug (bgs in feet)	concrete 3
		Diameter of Surface Plug (Ft)	4.5
		I.D. of Surface Casing (Inches)	6
		Type of Surface Casing	steel
		<sup>\</sup> Depth of Surface Casing (Ft)	7.5
	4 A		
		I.D. of Riser (Inches) Type of Riser	2 PVC sch 40
		-Borehole Diameter (Inches)	8
		<ul> <li>Type of Backfill</li> </ul>	bentonite slurry
		Backfill - Tremied (Y or N)	Y 17
		Depth of Top of Seal (Ft) Elevation of Top of Seal	438.4700
		Type of Seal:	bentonite-granular
		Seal - Tremied (Y or N) Depth of Top of Filter Pack (Ft)	Y 20
		Depth of Top of Screen (Ft)	22.5
		Elevation of Top of Screen	432.9700 PVC sch 40
	窗 三菌菌	I.D. of Screen (Inches)	2 PVC sch 40
	國土區	Slot Size of Screen (Inches)	0.01
		Length of Screen (Ft) Type of Filter Pack:	5 sand pack
		Filter Pack - Tremied (Y or N)	Y
		Well Construction Remarks:	
	國 — 國		
		Depth of Bottom of Screen (Ft)	27.5
		]	
		Depth of Bottom of Filter Pack (Ft) Elevation of Bottom of Filter Pack	28 427.4700
			721.4100
		<ul> <li>Type of Backfill Below Filter Pack</li> </ul>	gravel pack
TETRATECH (C		Depth of Hole (Ft)	33
It	NOT TO SCALE	<sup>1</sup> Elevation of Hole	422.4700

**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 risinghead 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 TtEC 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 X  $10^{-4}$  to 5.11 X  $10^{-4}$  centimeters per second or 1.33 to 1.45 feet per day. The minimum calculated horizontal hydraulic conductivity is 7.97 X  $10^{-5}$  centimeters per second or 0.226 feet per day, found at monitoring well EPA-03. The maximum calculated horizontal hydraulic conductivity is 1.42 X  $10^{-3}$  centimeters per second or 4.03 feet per day, found at monitoring well EPA-06. The Site-specific hydraulic conductivity

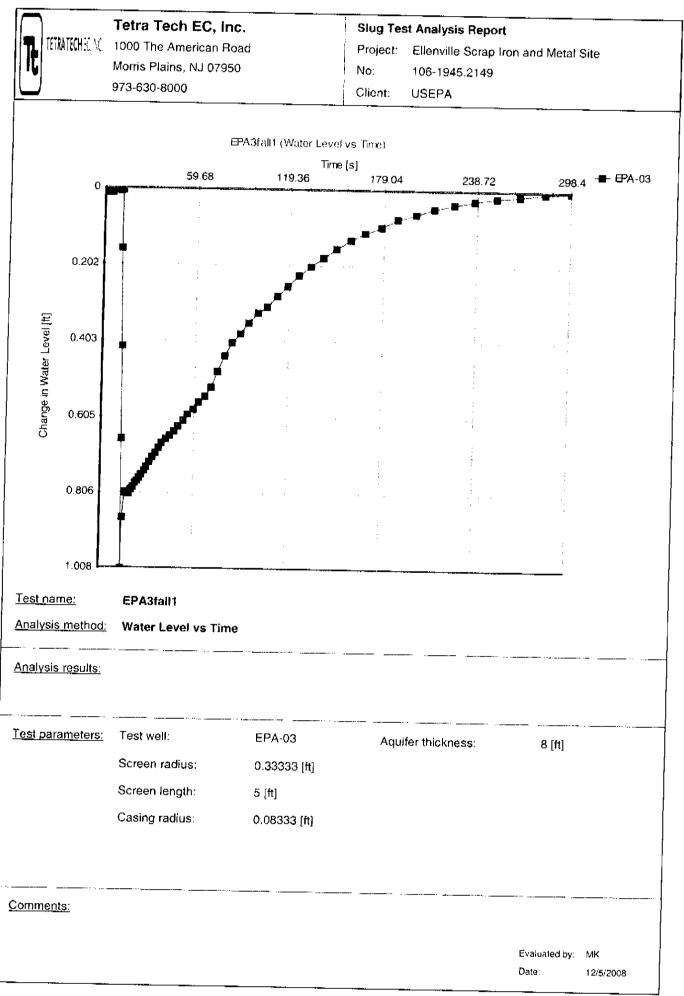
Tetra Tech EC, Inc. Proprietary Information results compare favorably with documented literature values (Fetter, 1994; Domenico and Schwartz, 1998) for the unconsolidated sediments present within the hydrostratigraphic unit at the Site. The attached table summarizes the results of the falling and rising-head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

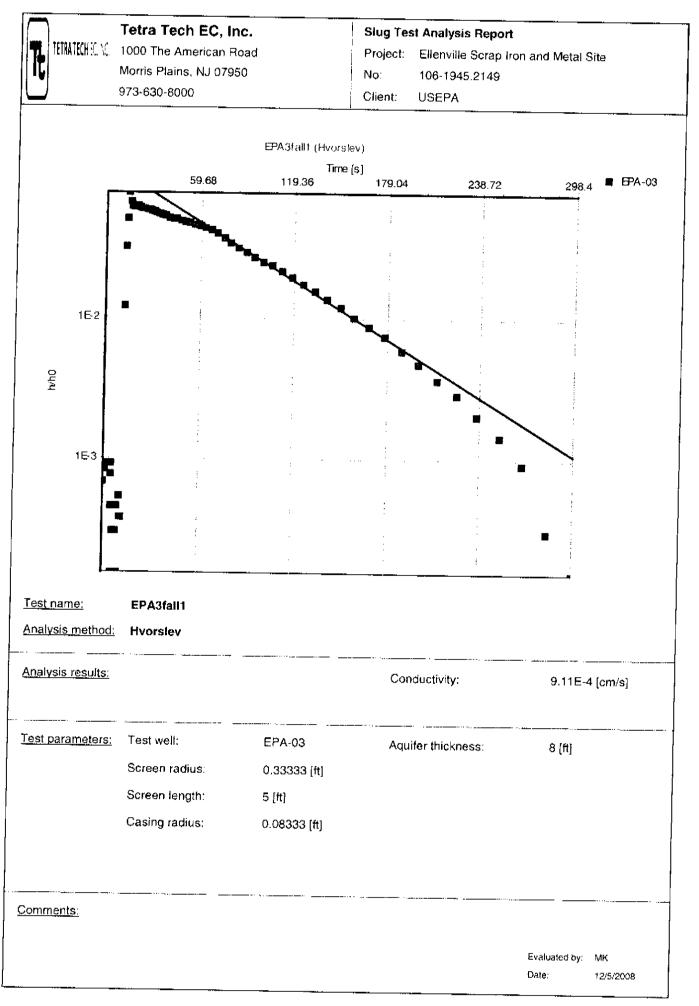
#### **References**

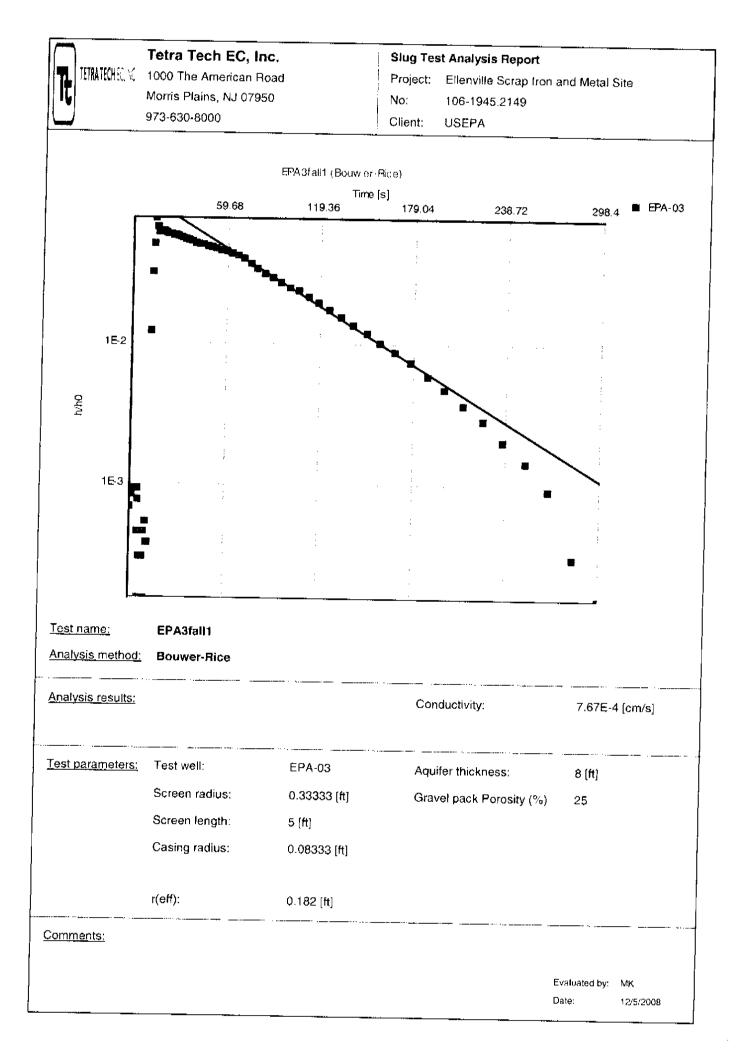
Domenico and Schwartz, 1998. Physical and Chemical Hydrogeology, 2<sup>nd</sup> Edition.

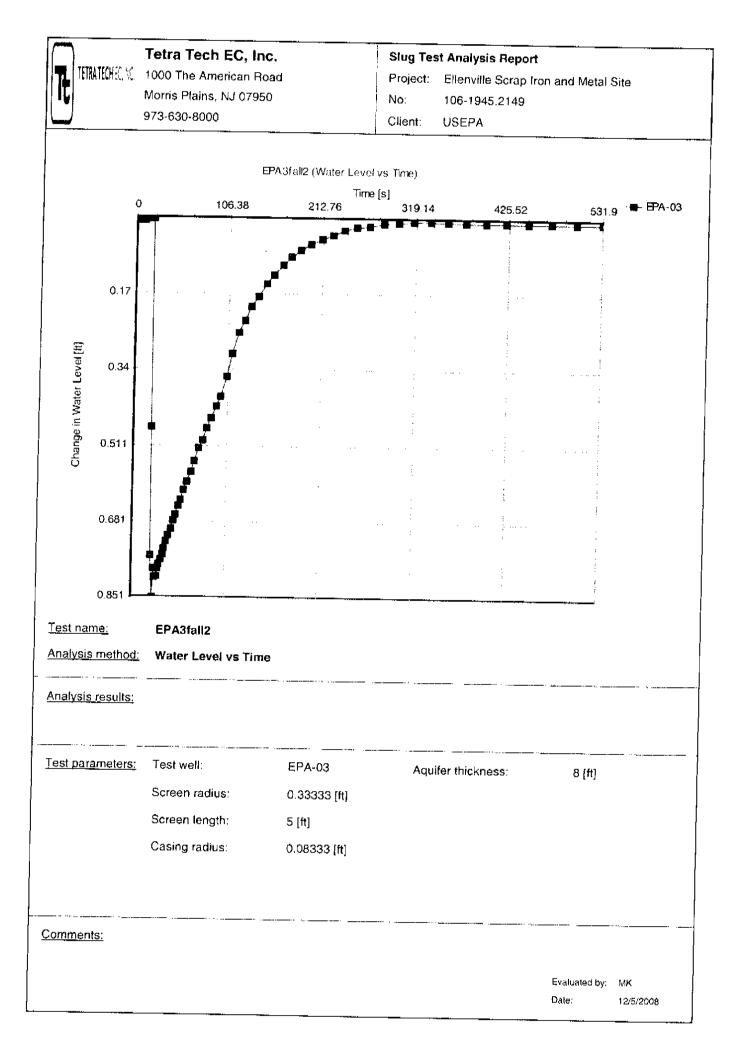
Fetter, 1994. Applied Hydrogeology, 3<sup>rd</sup> Edition.

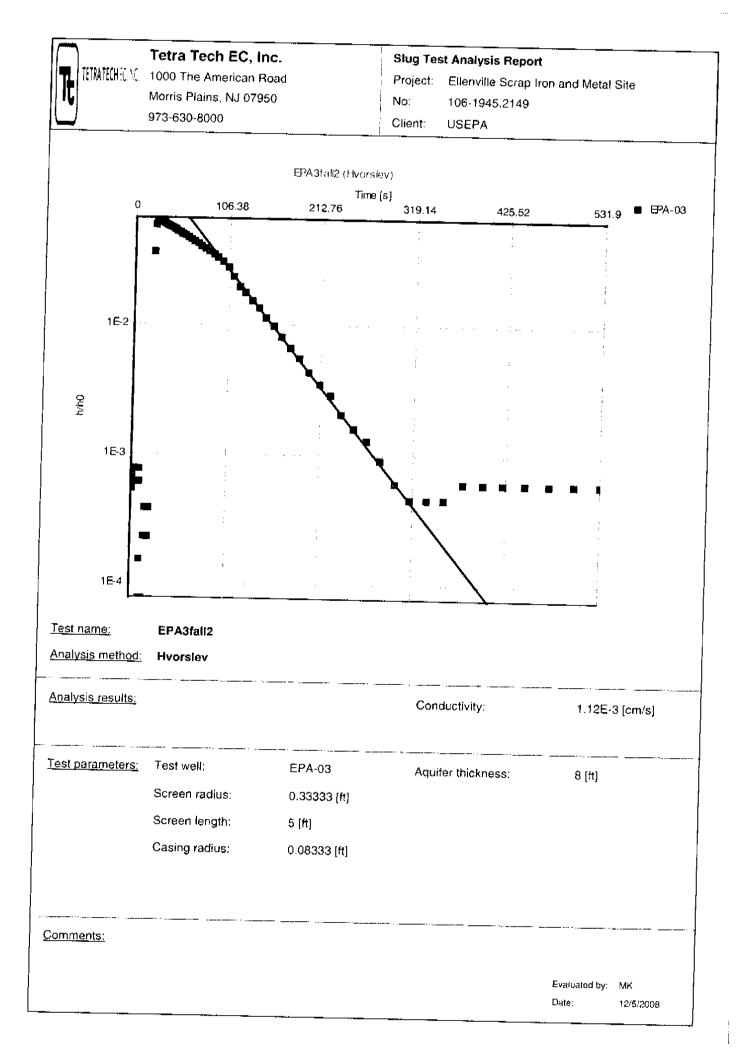
Tetra Tech EC, Inc. Proprietary Information

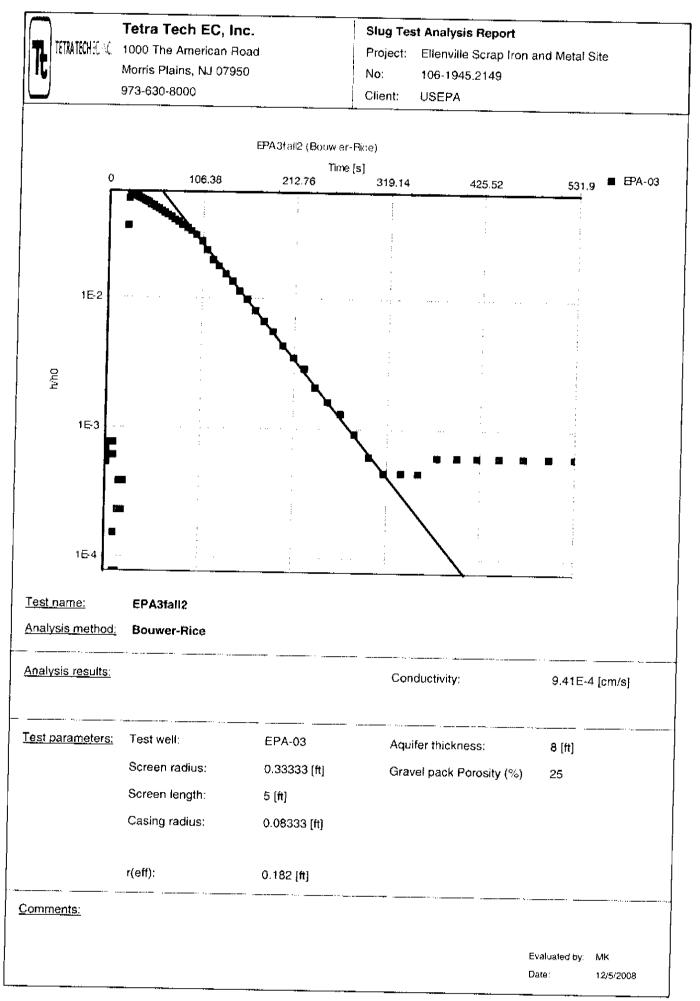


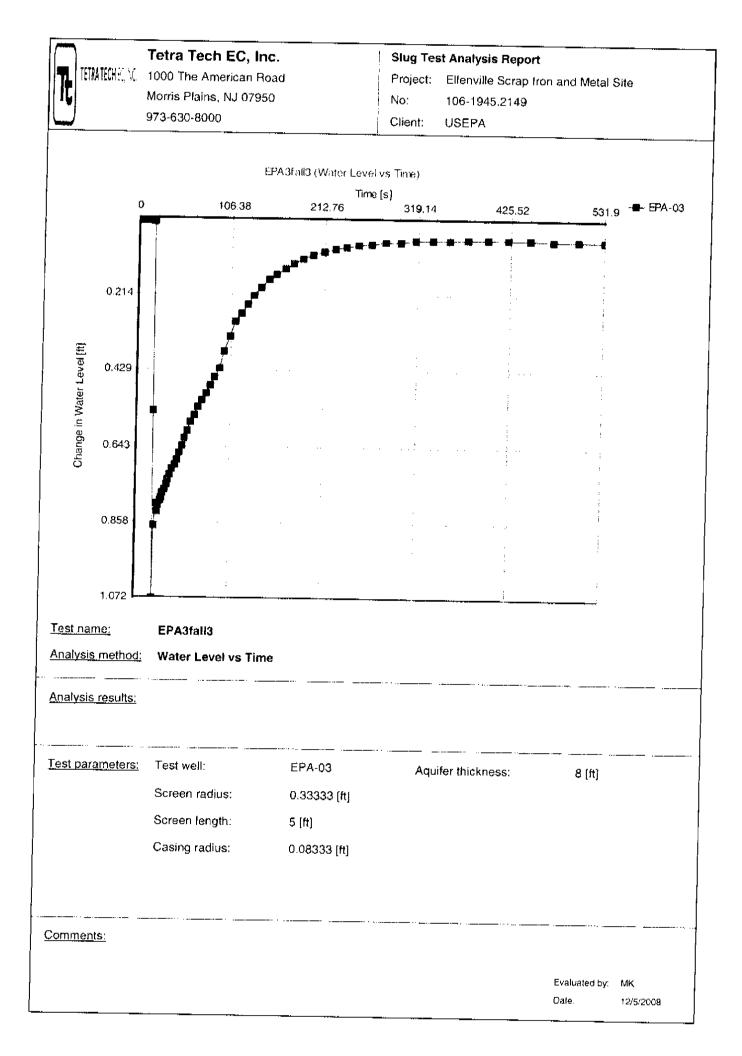


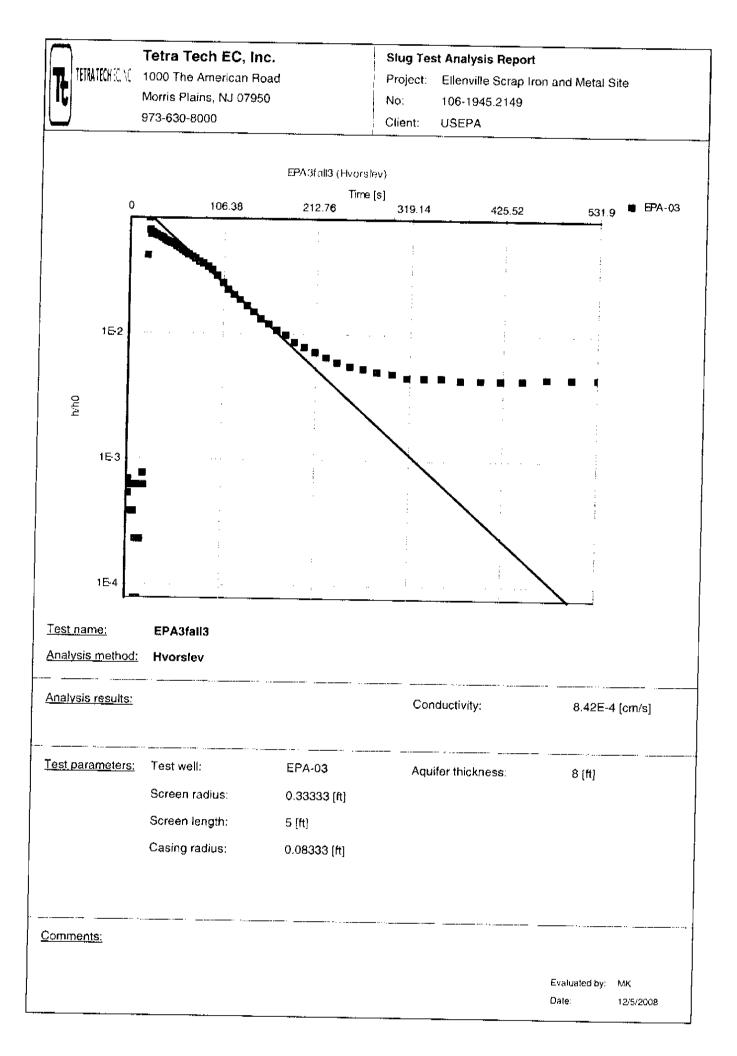


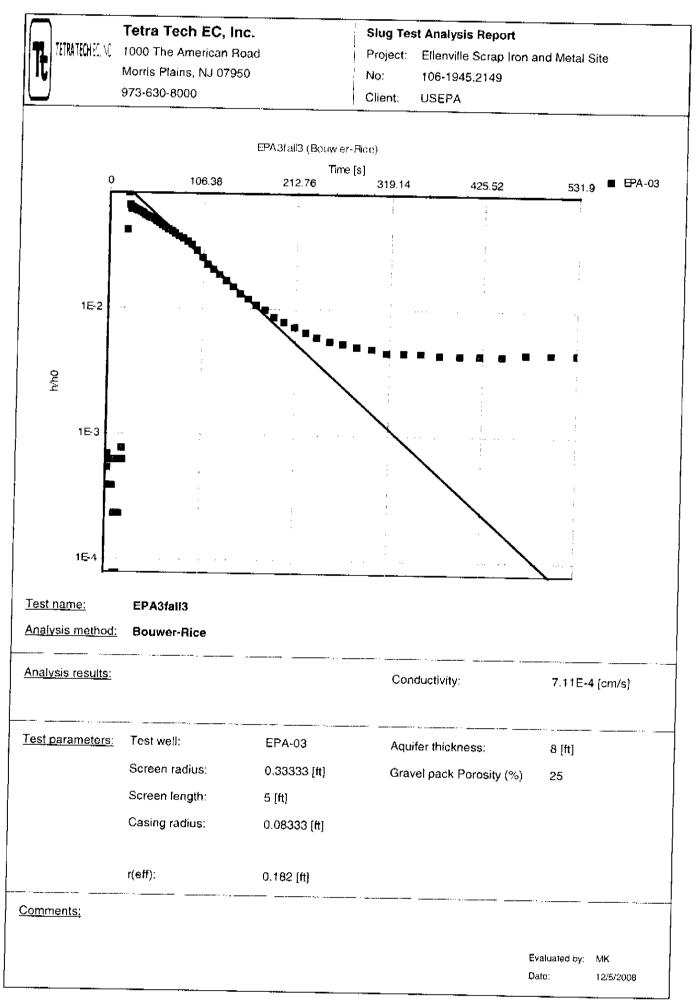


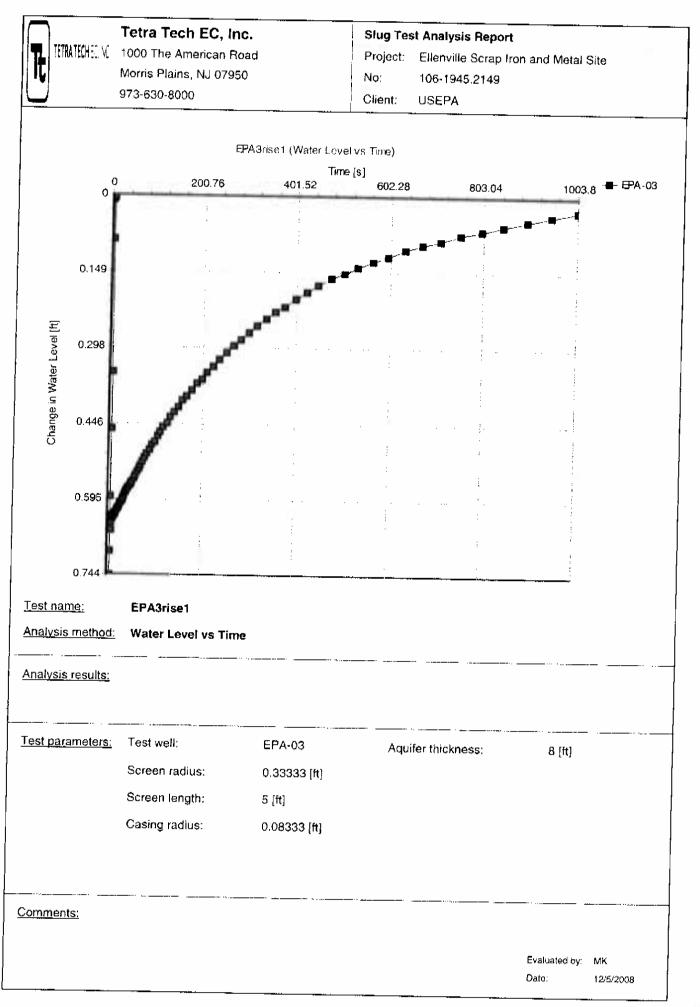


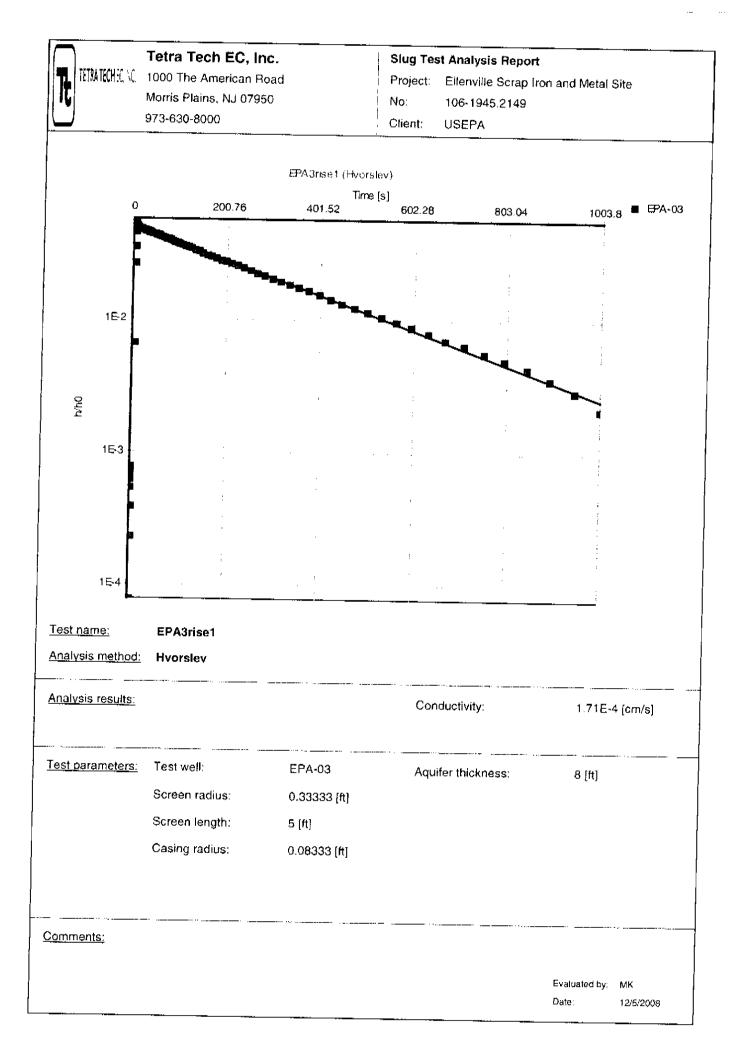


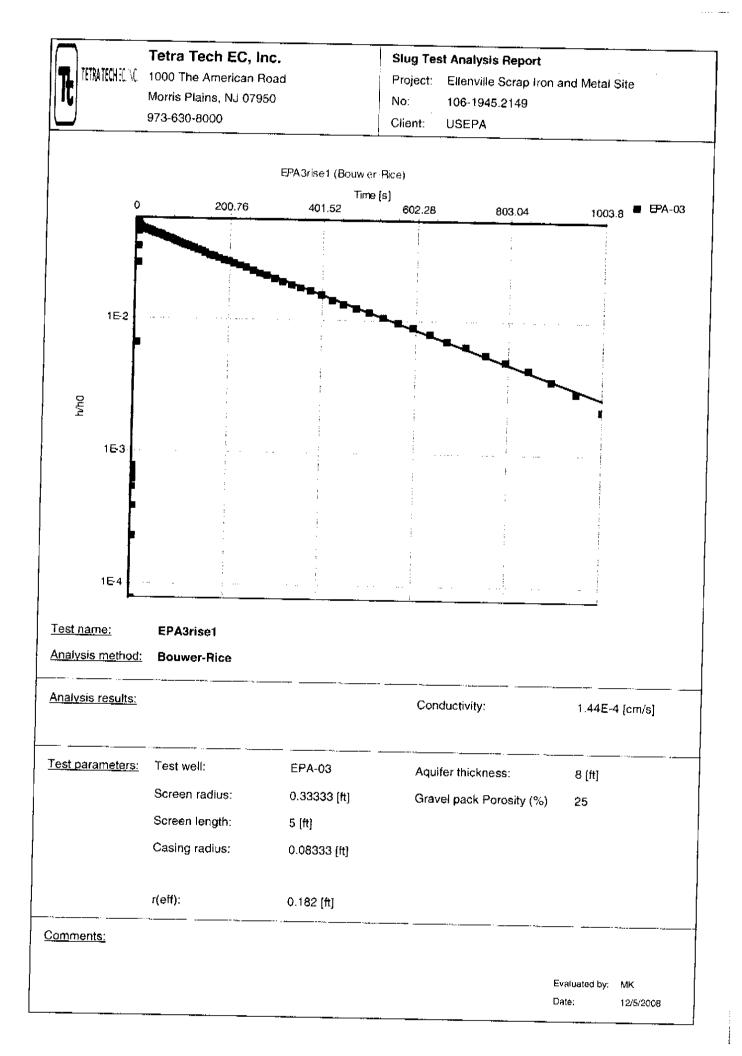


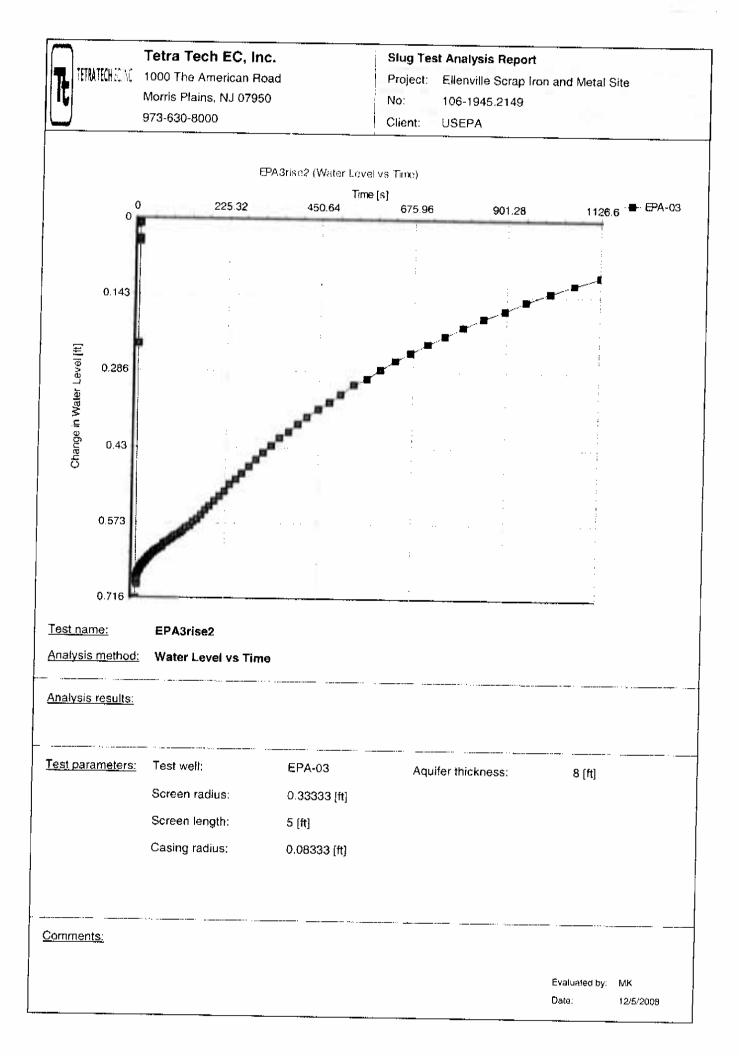


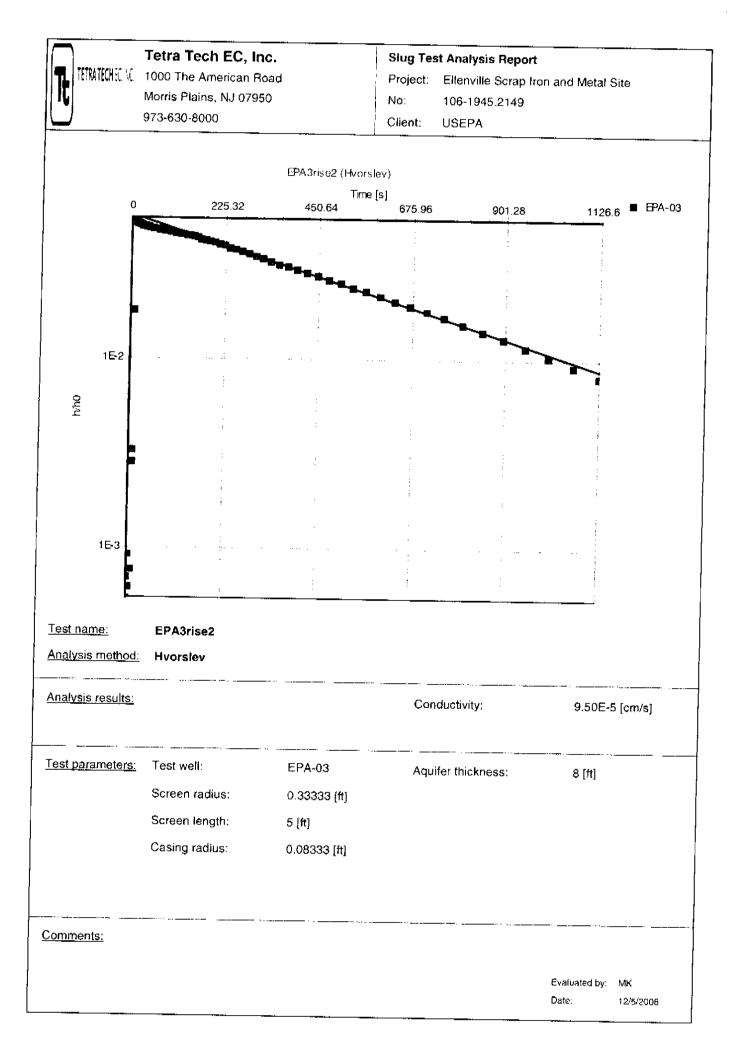


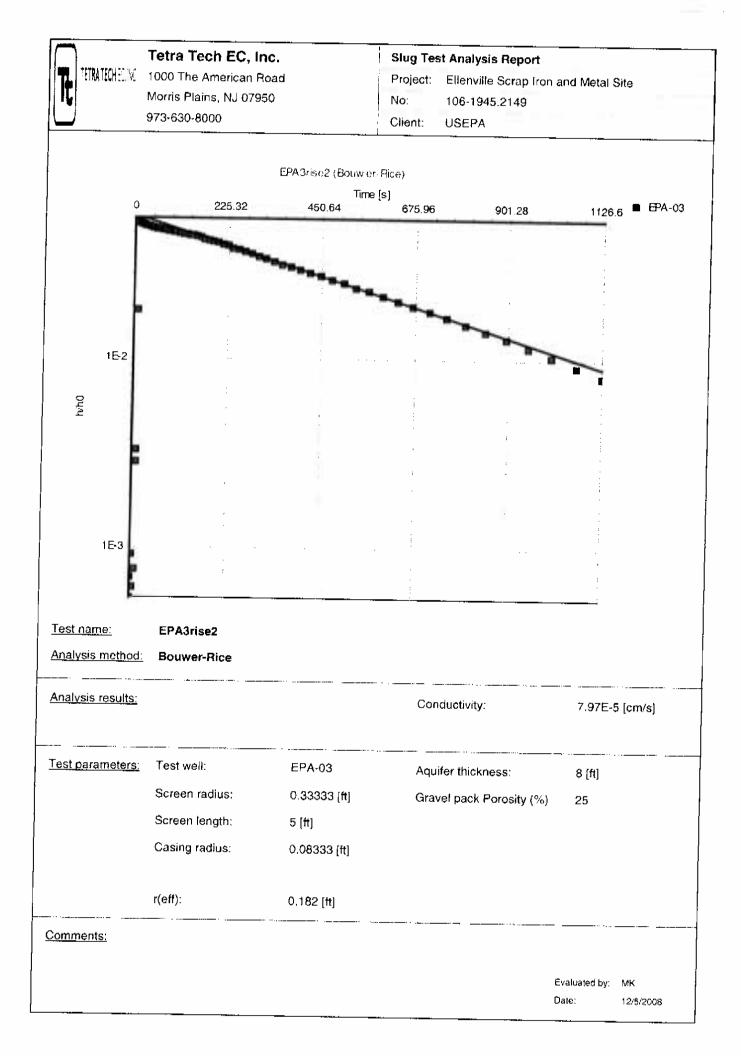


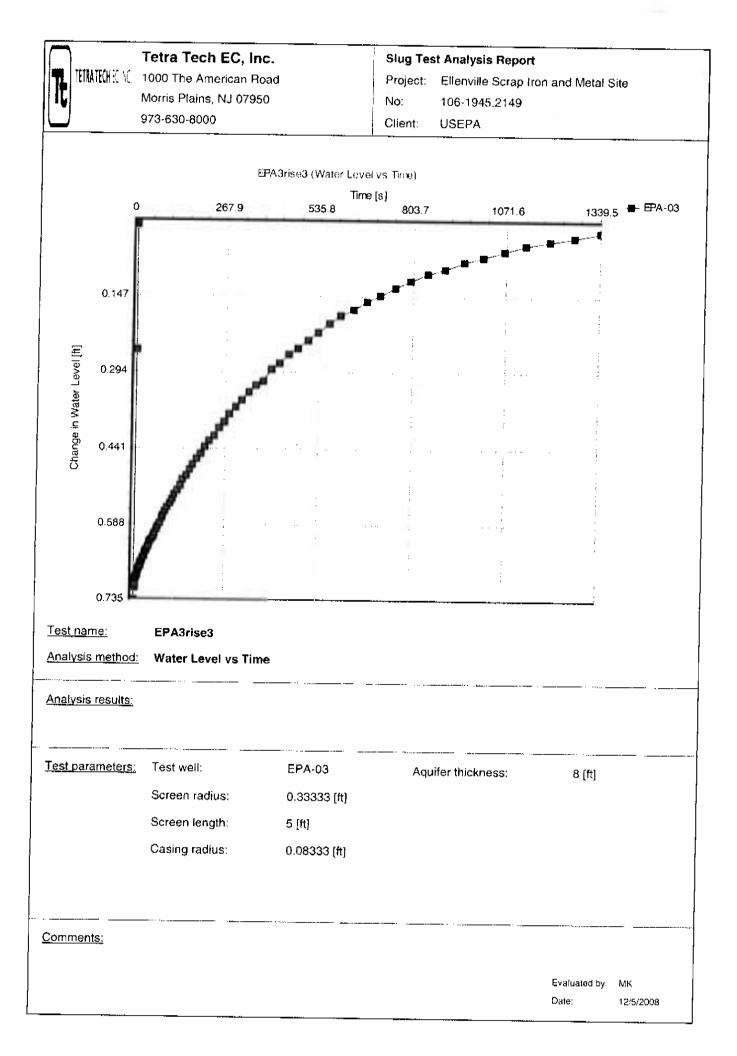


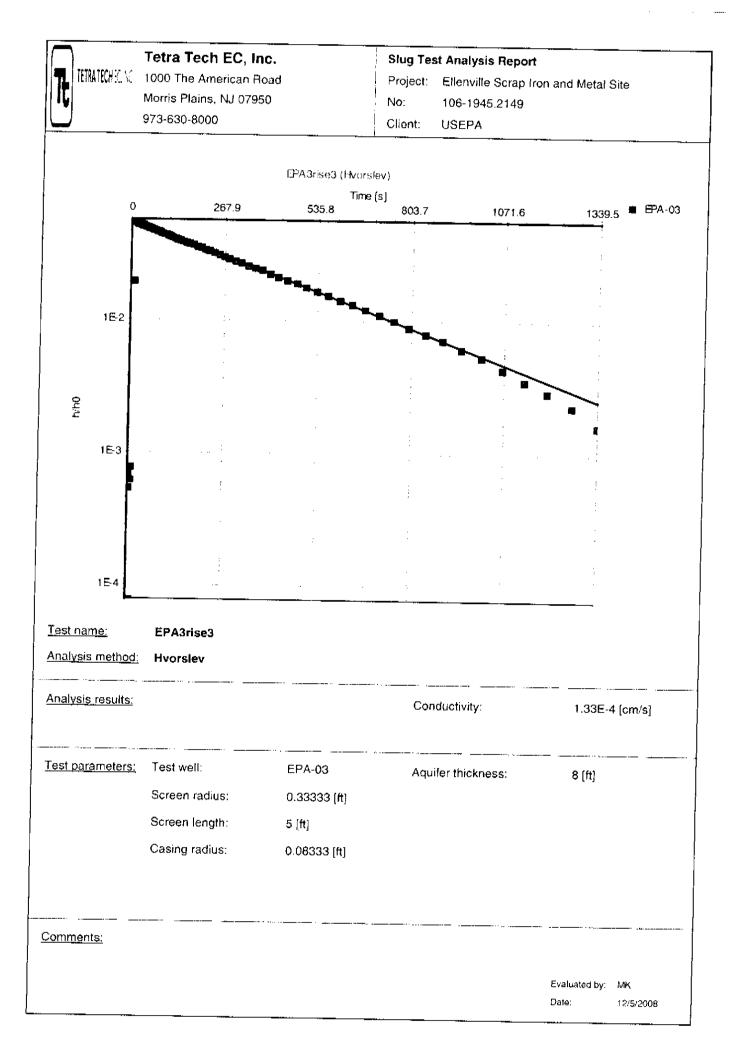


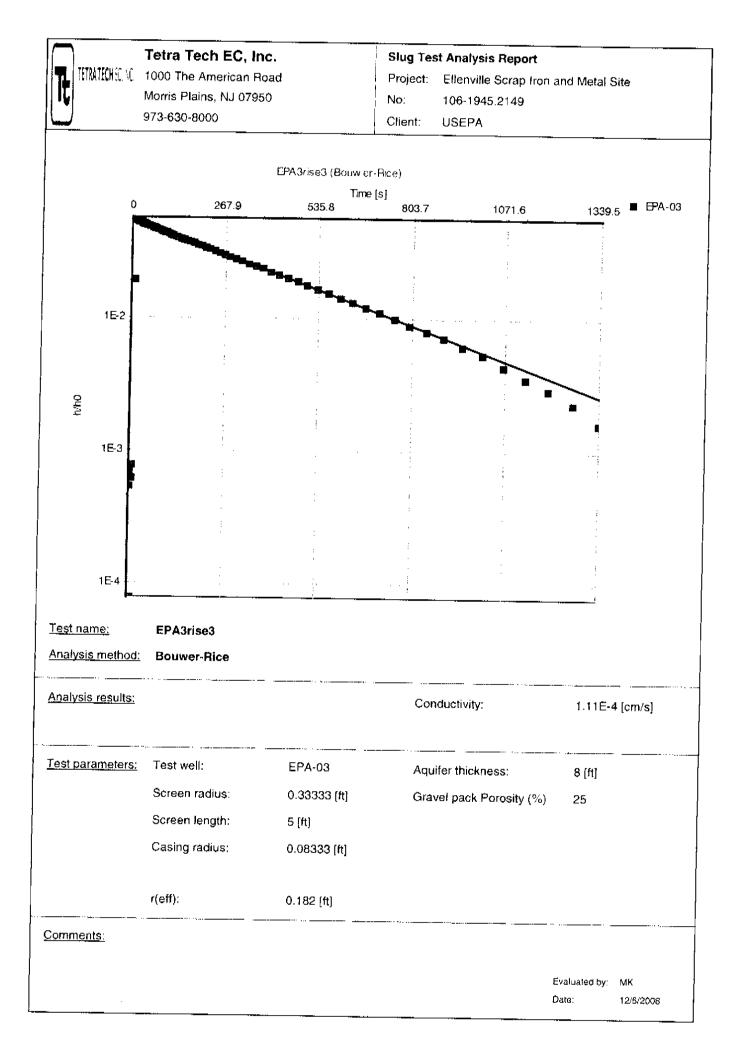


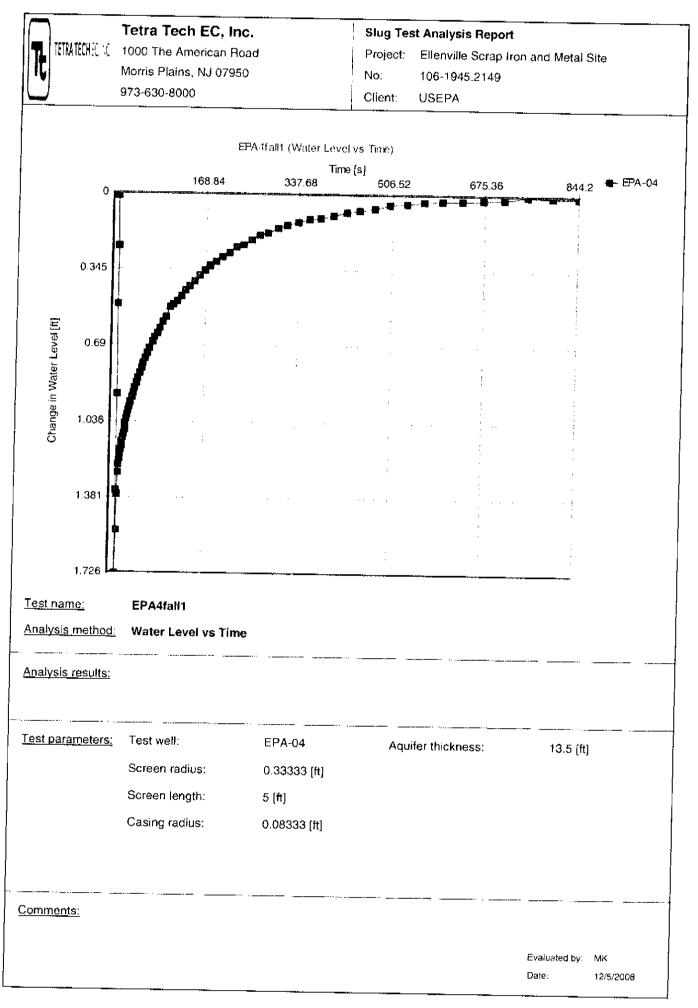


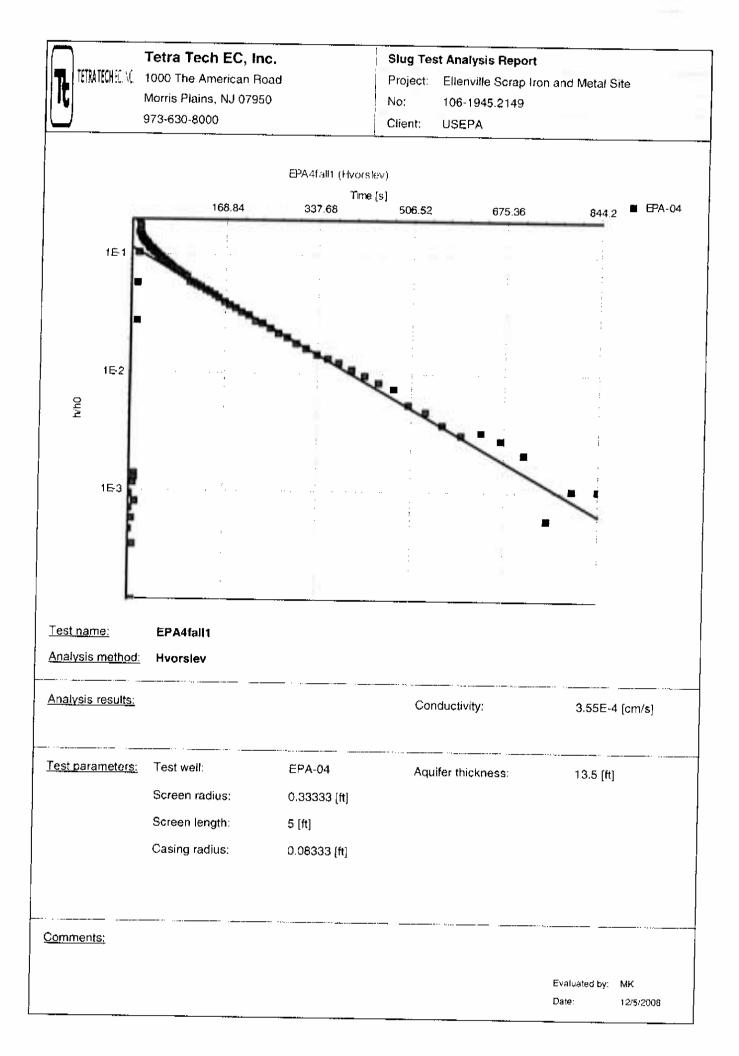


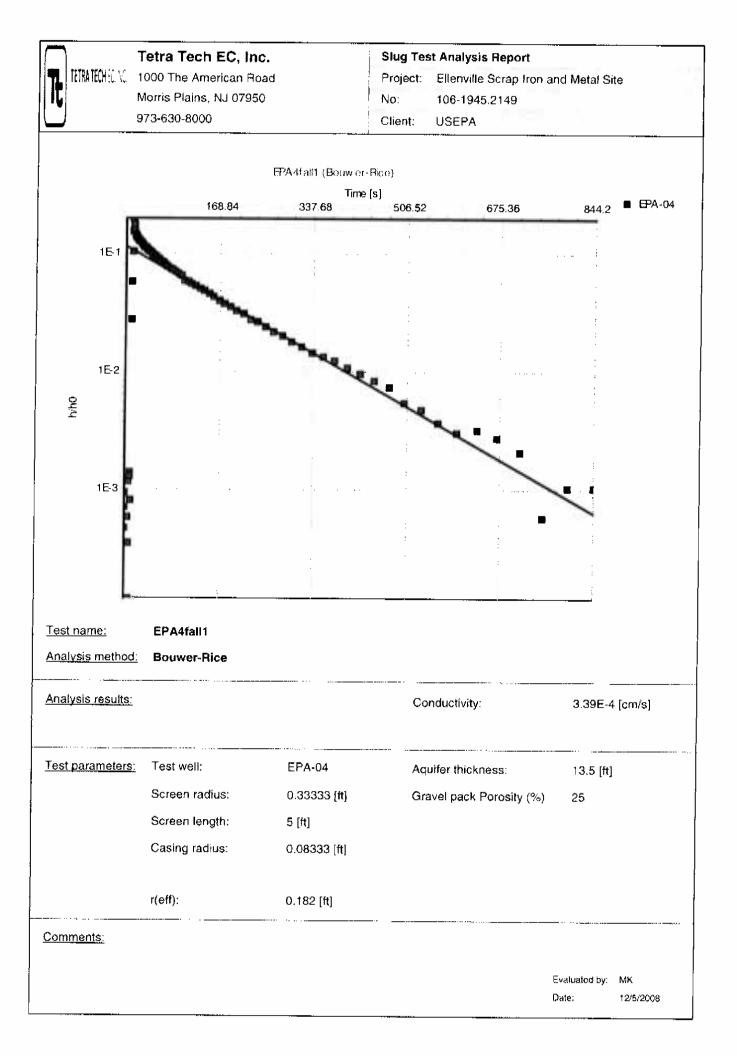


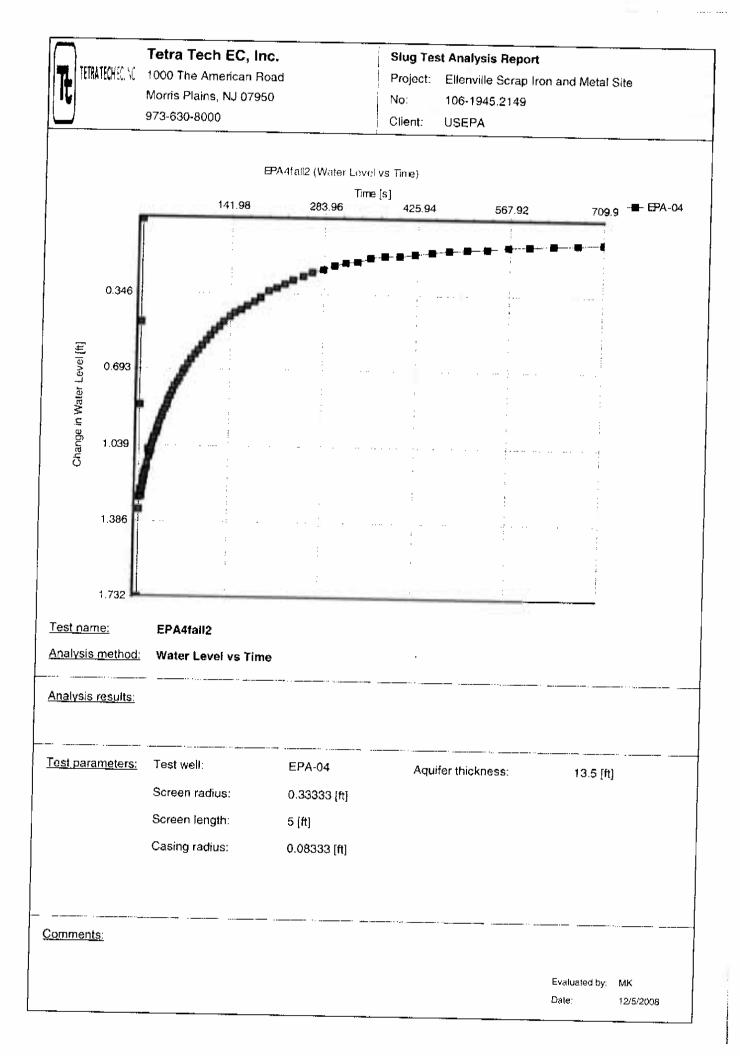


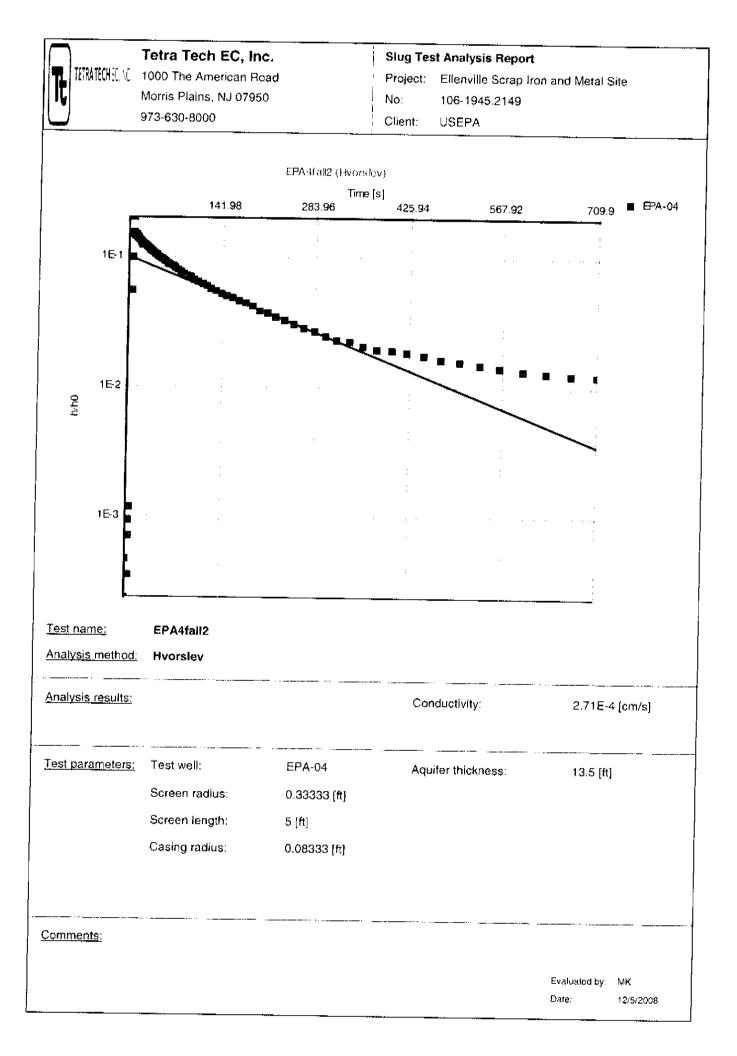


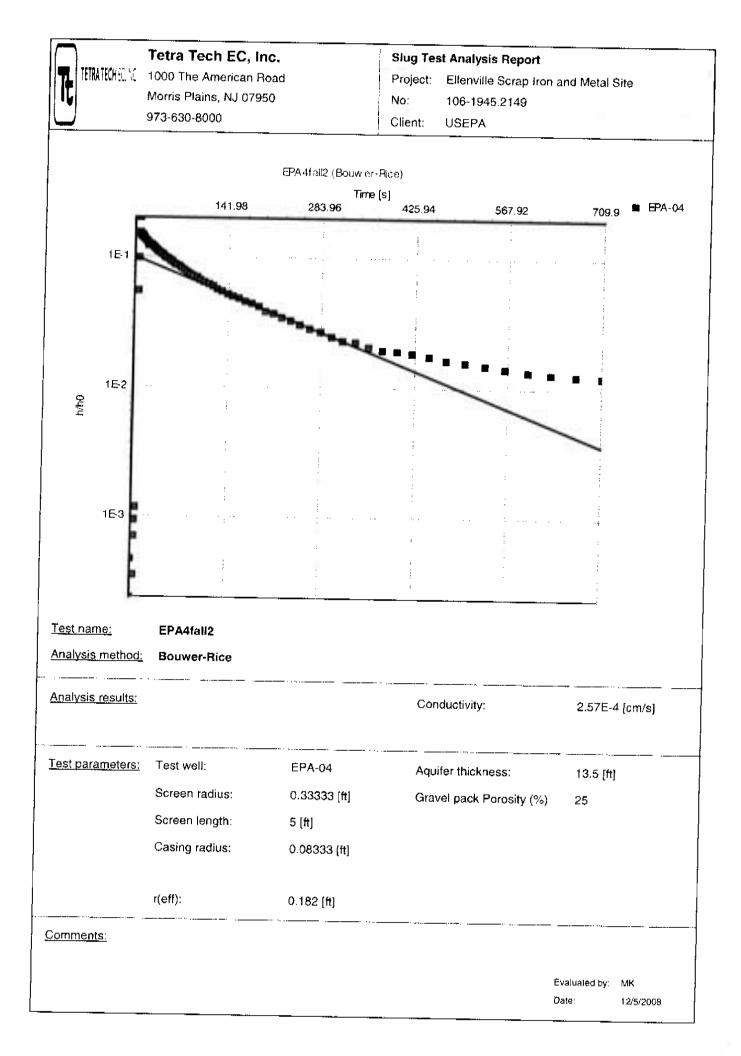


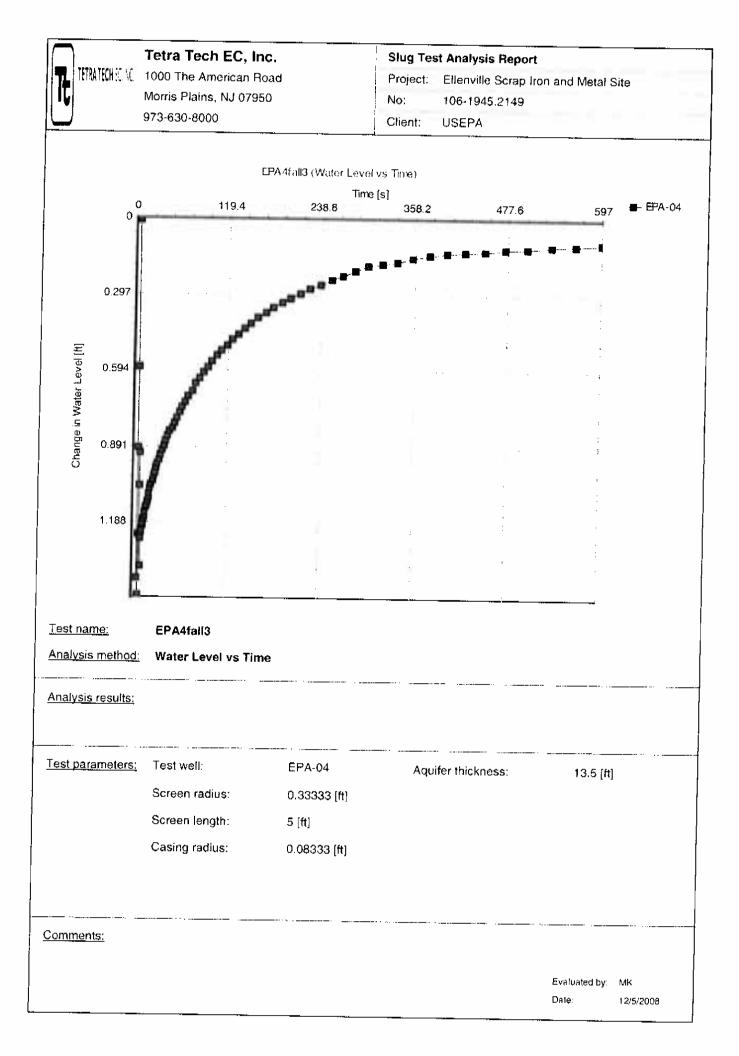


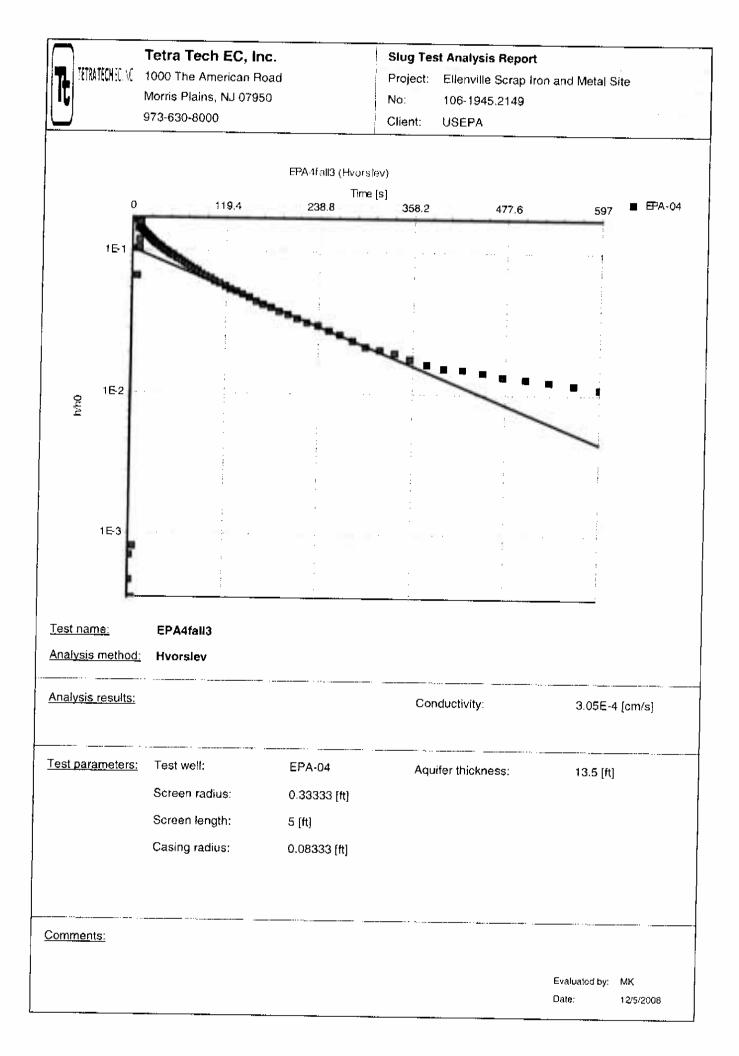


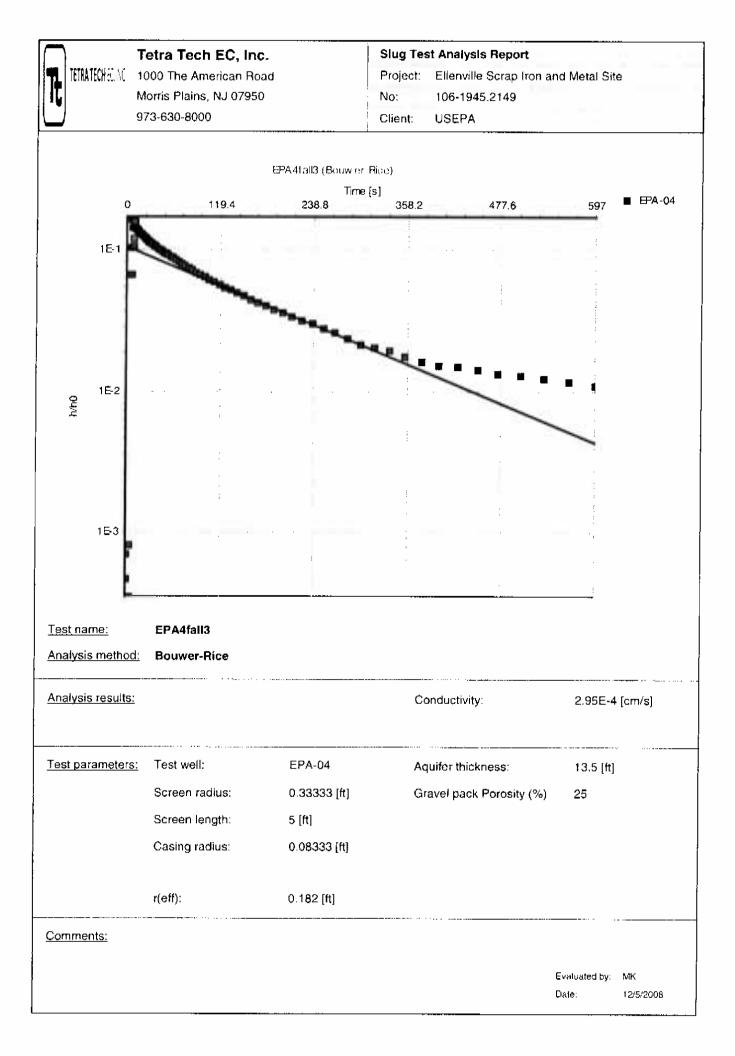


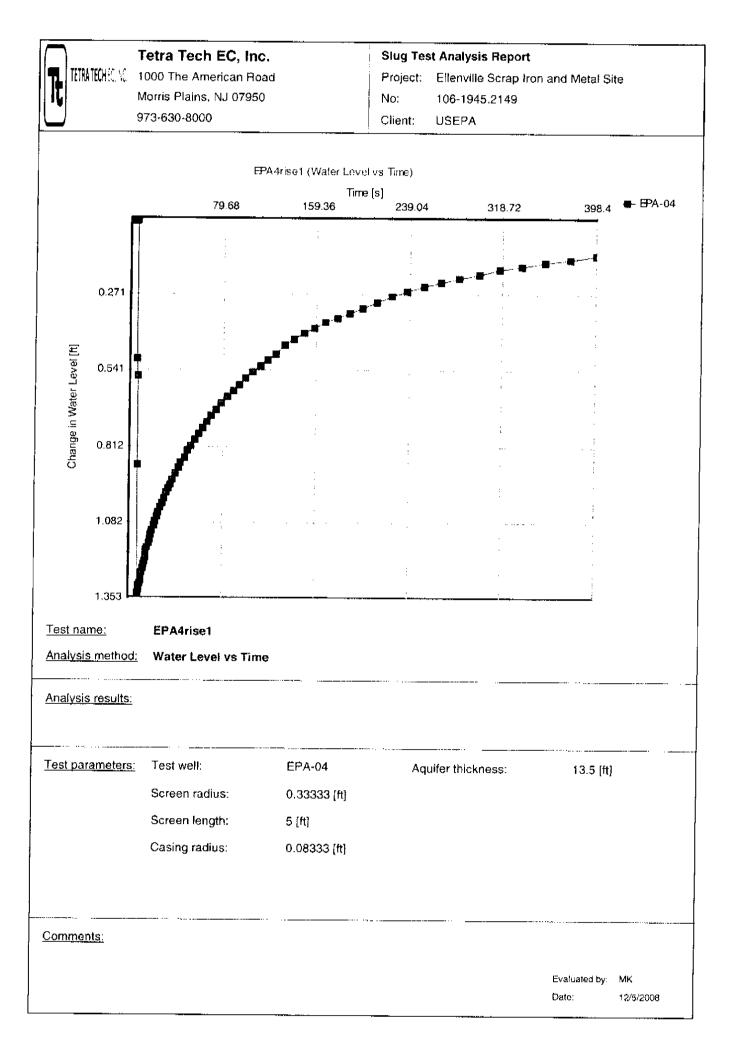


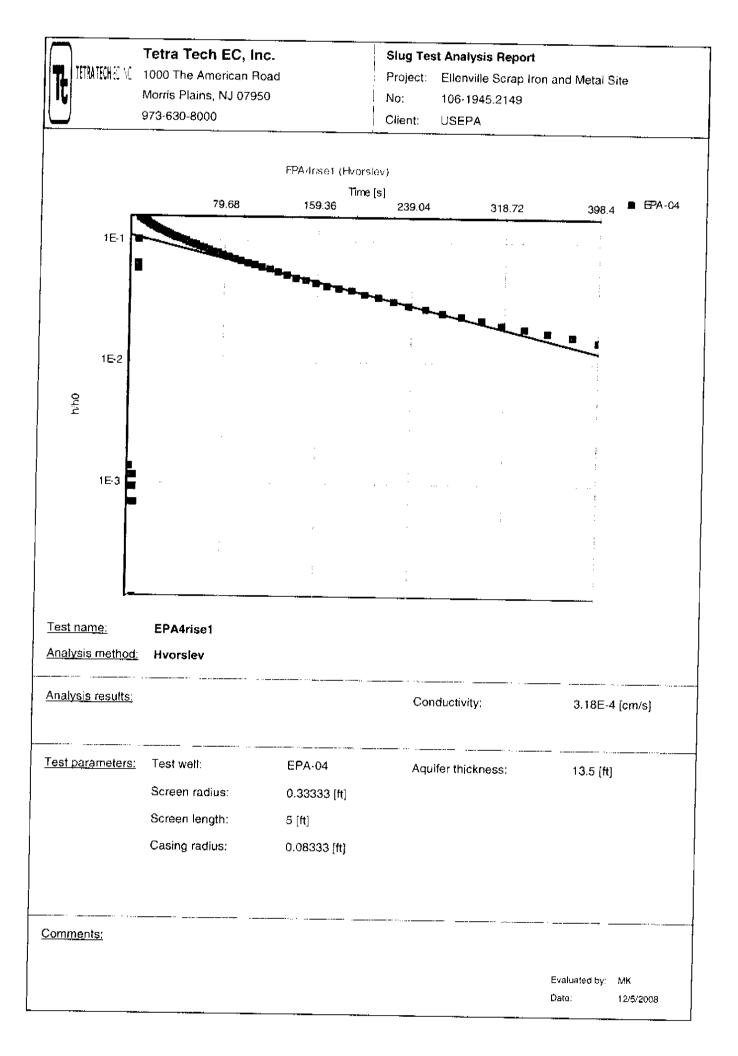


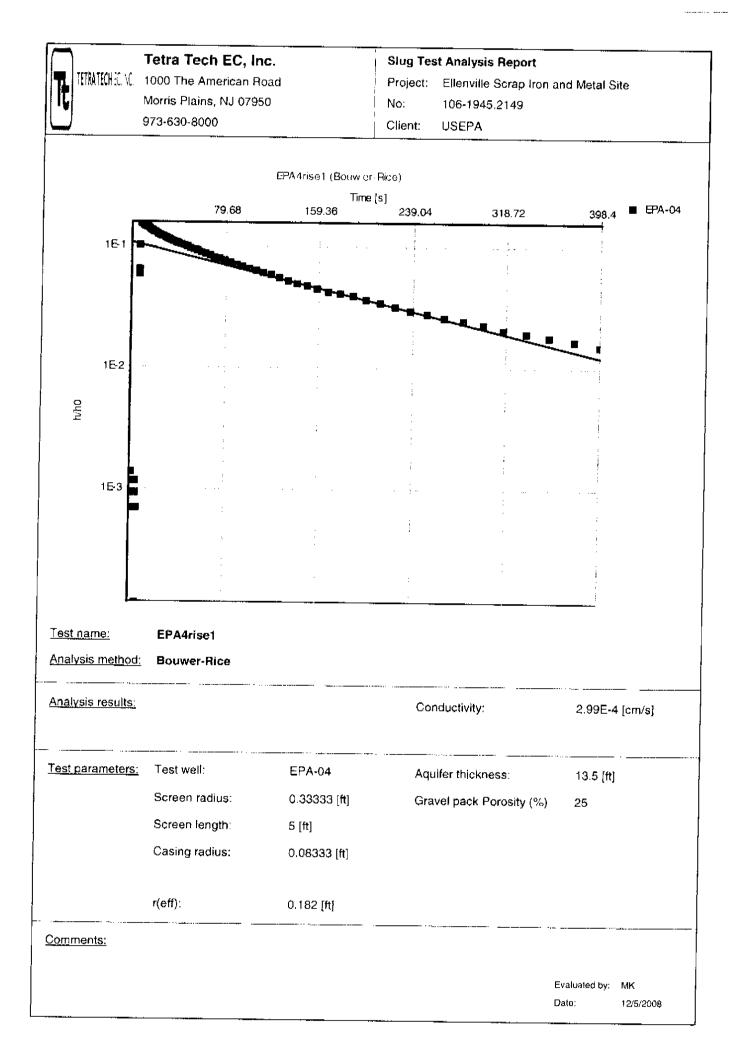


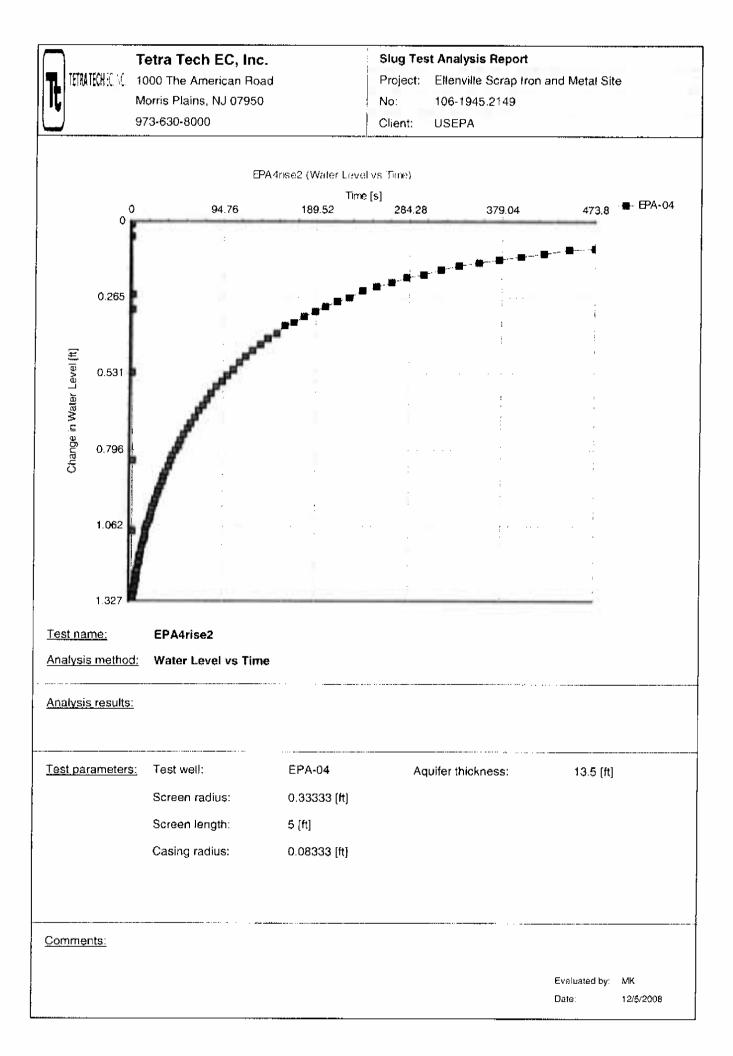


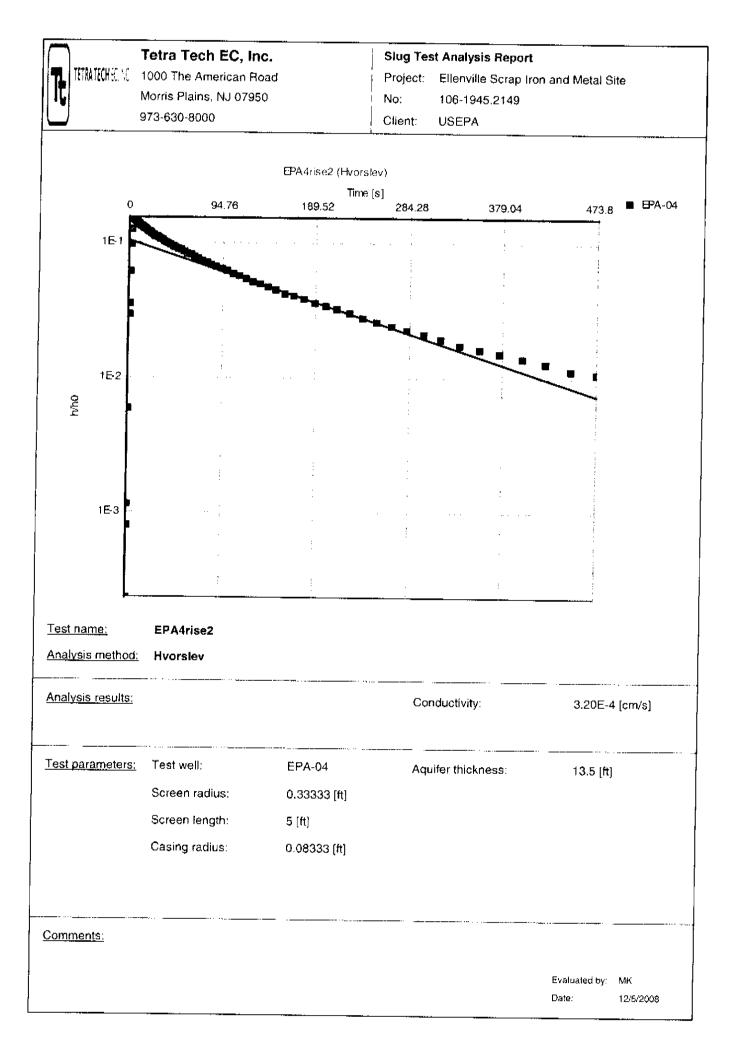


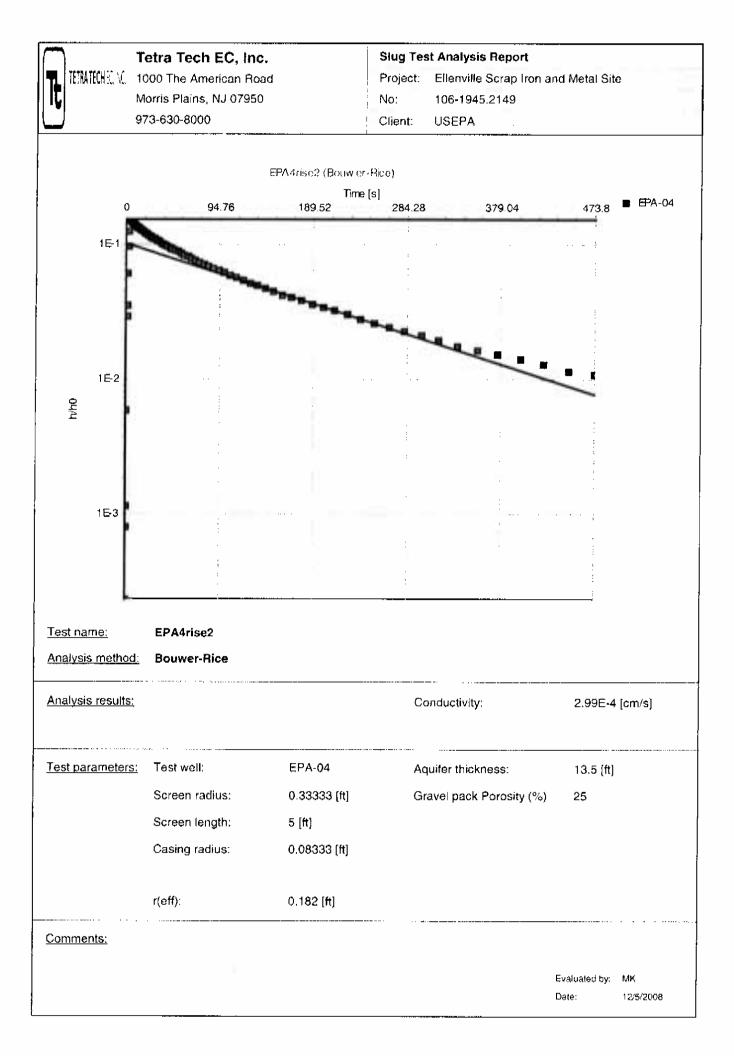


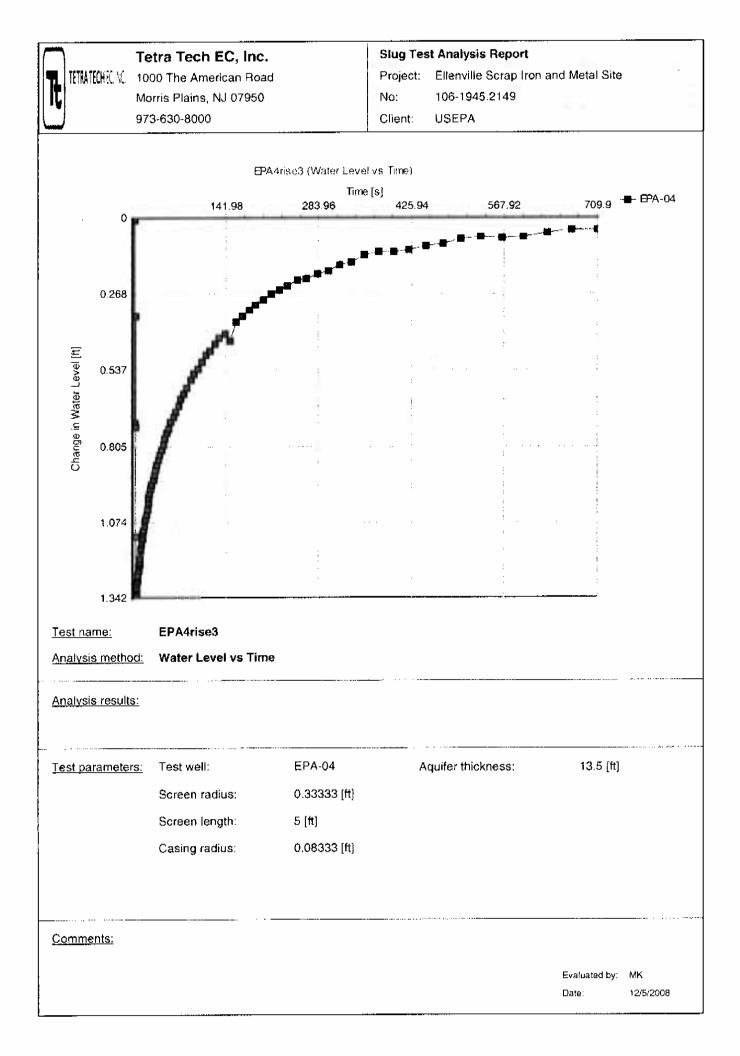


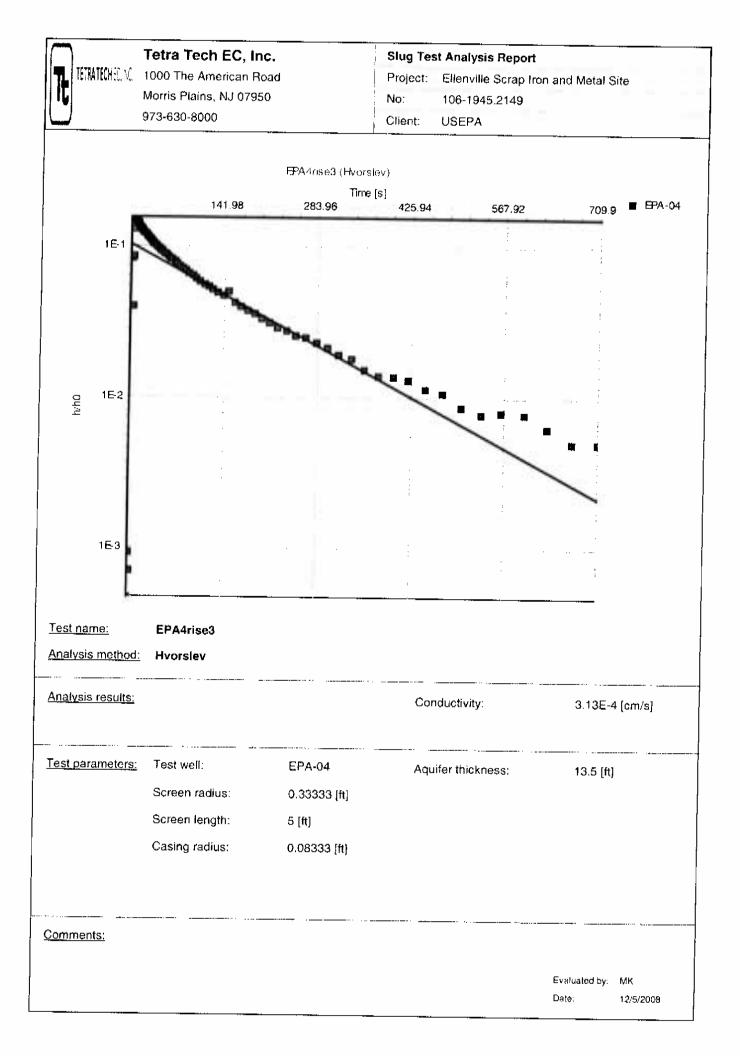


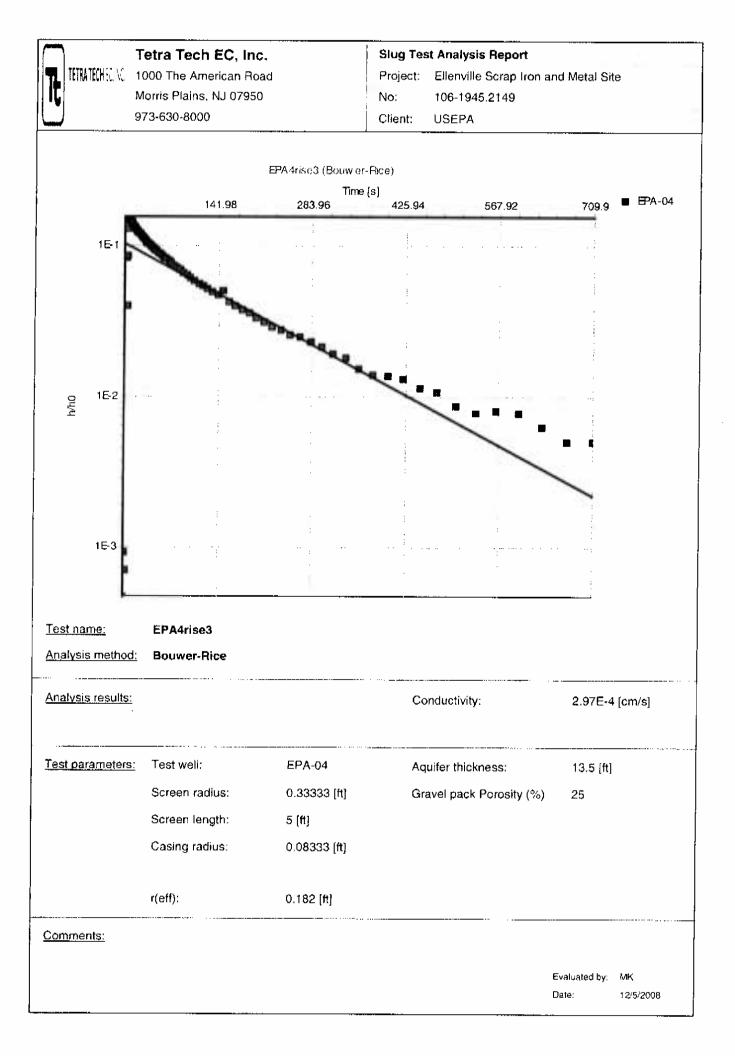


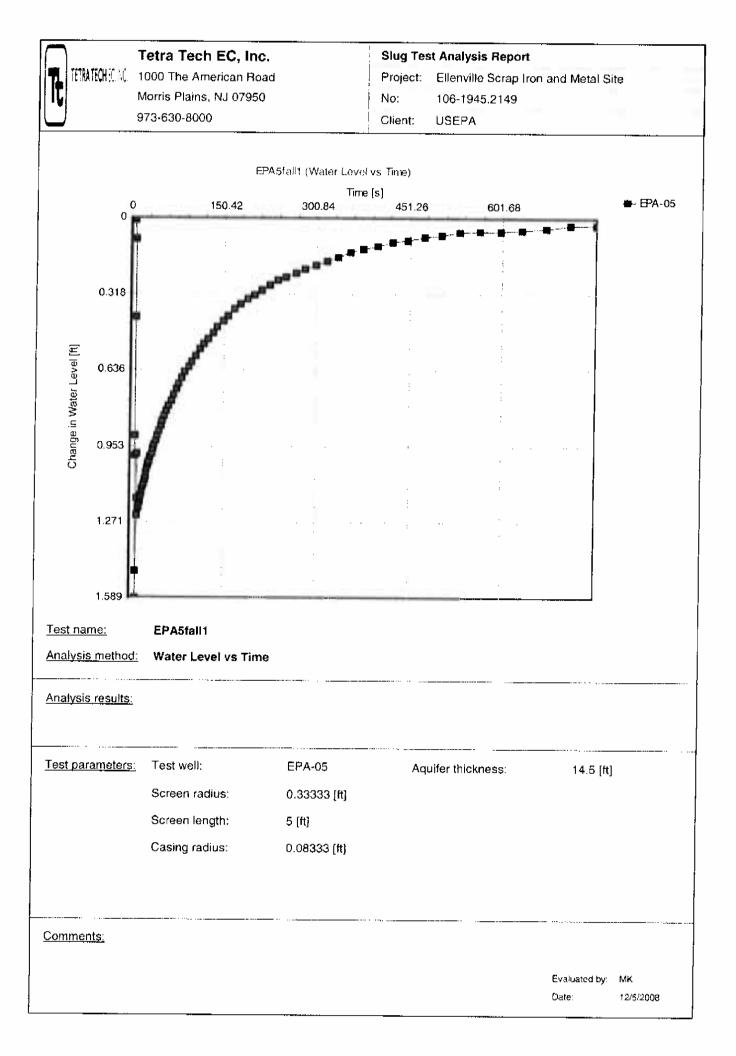


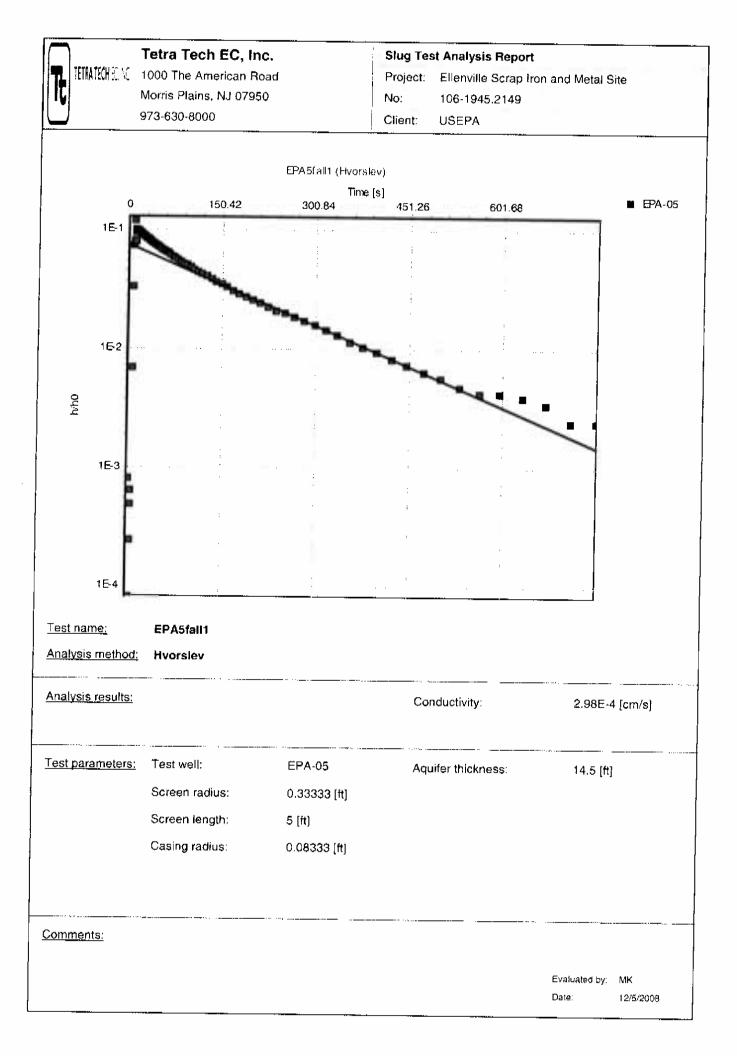


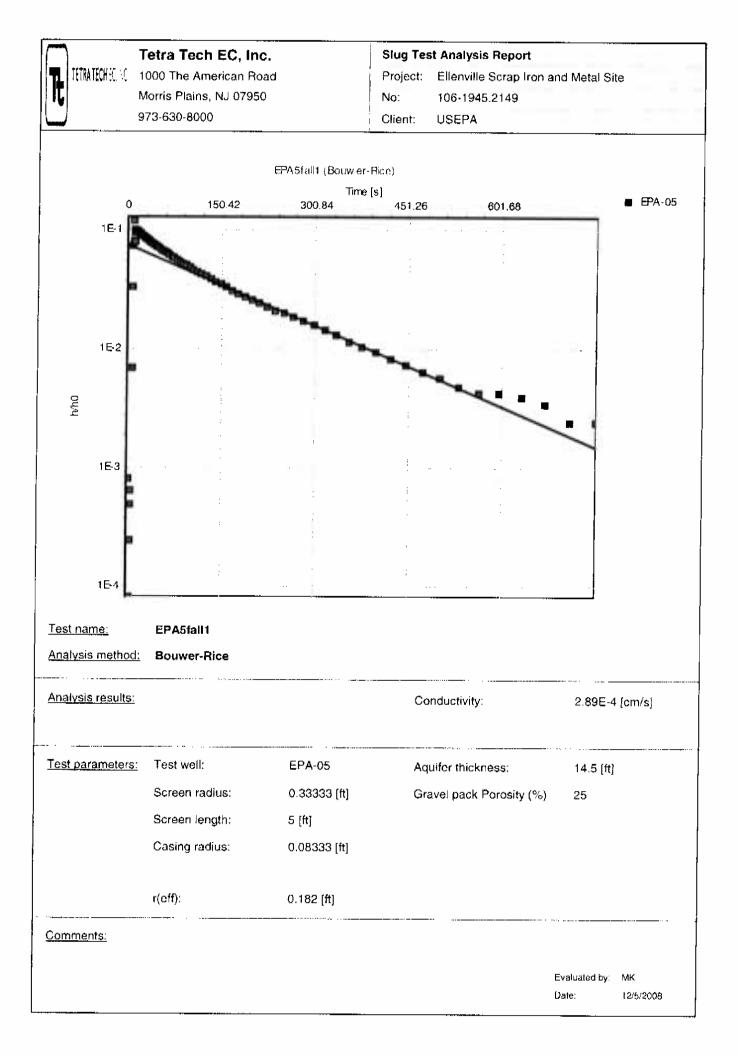


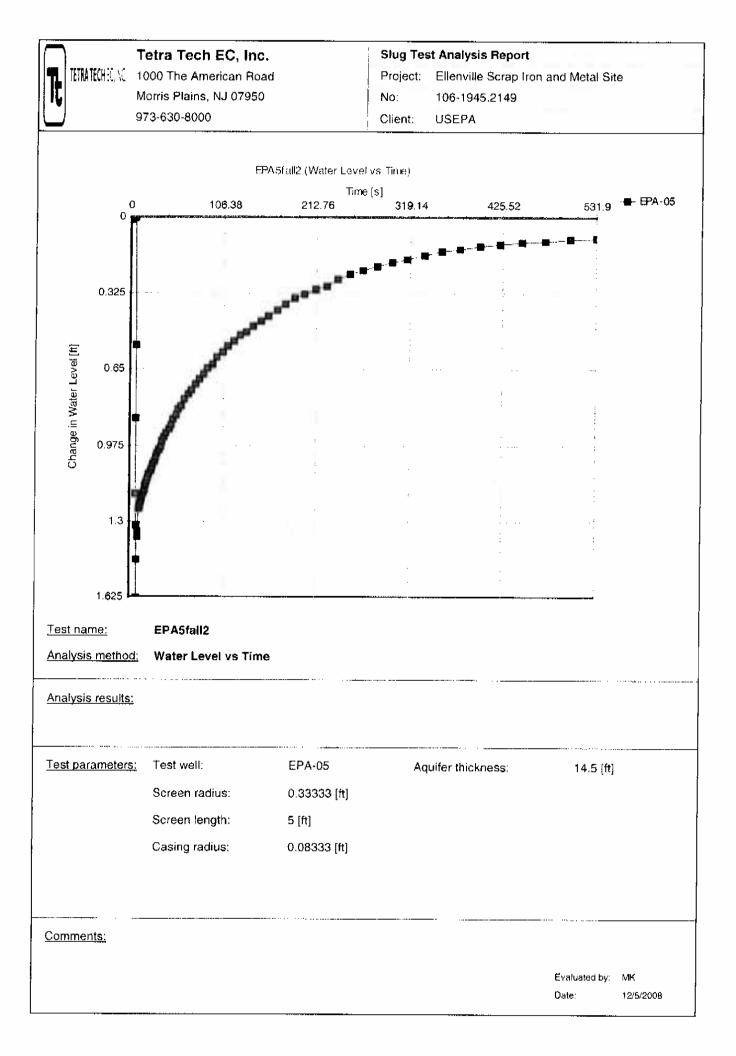


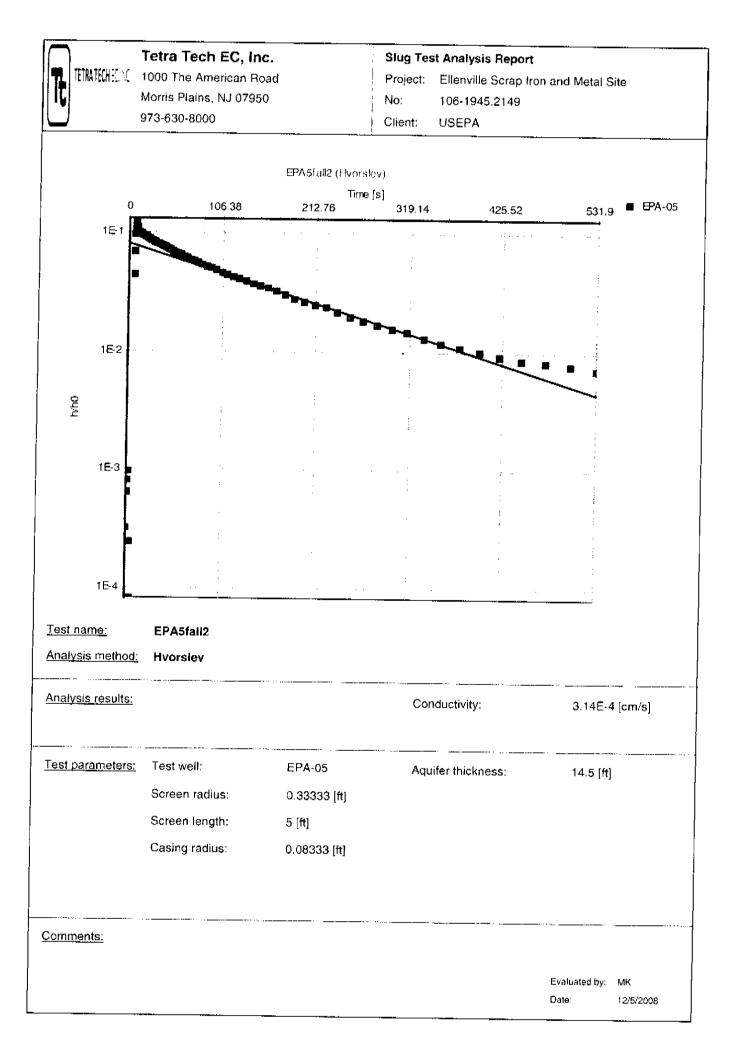


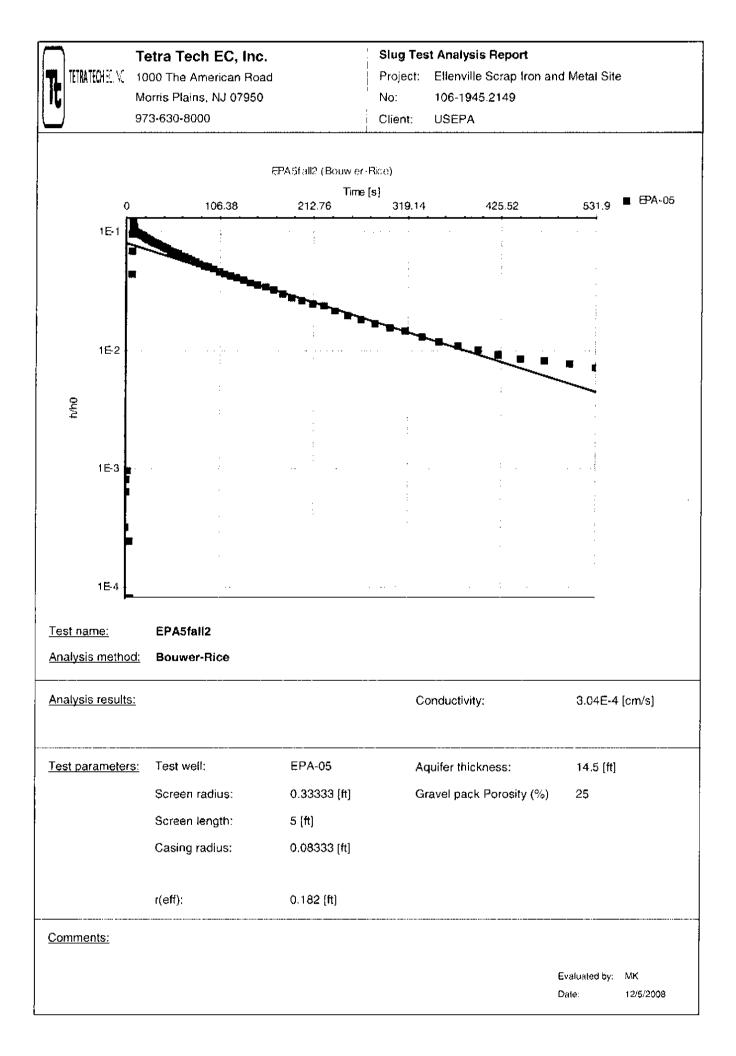


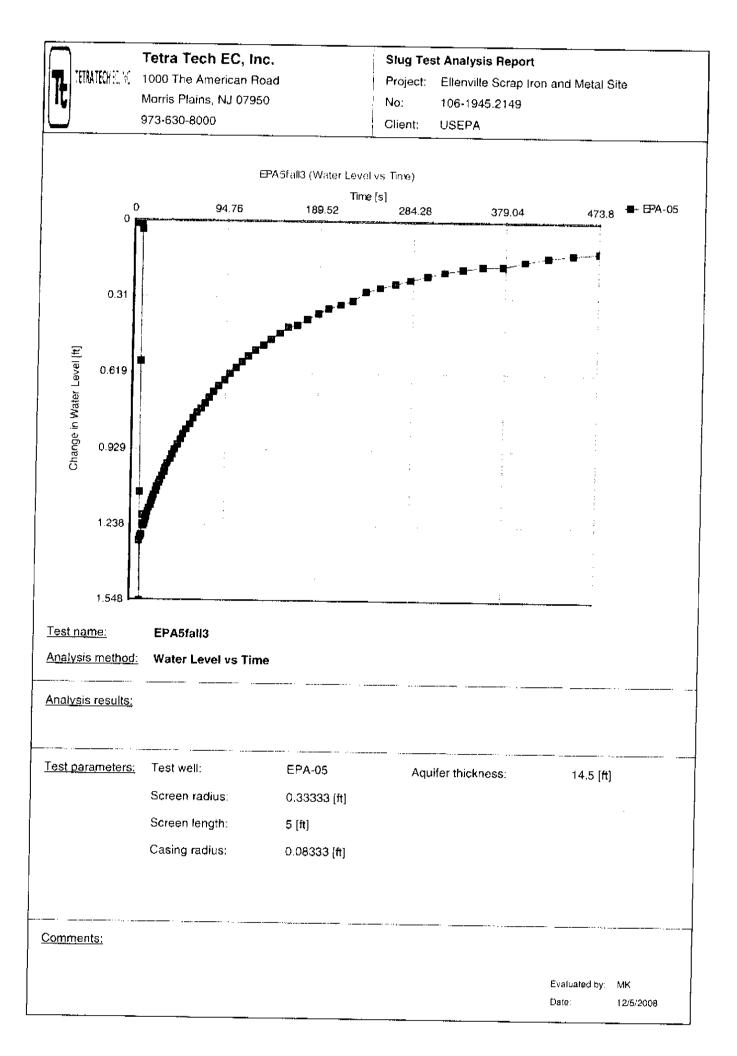


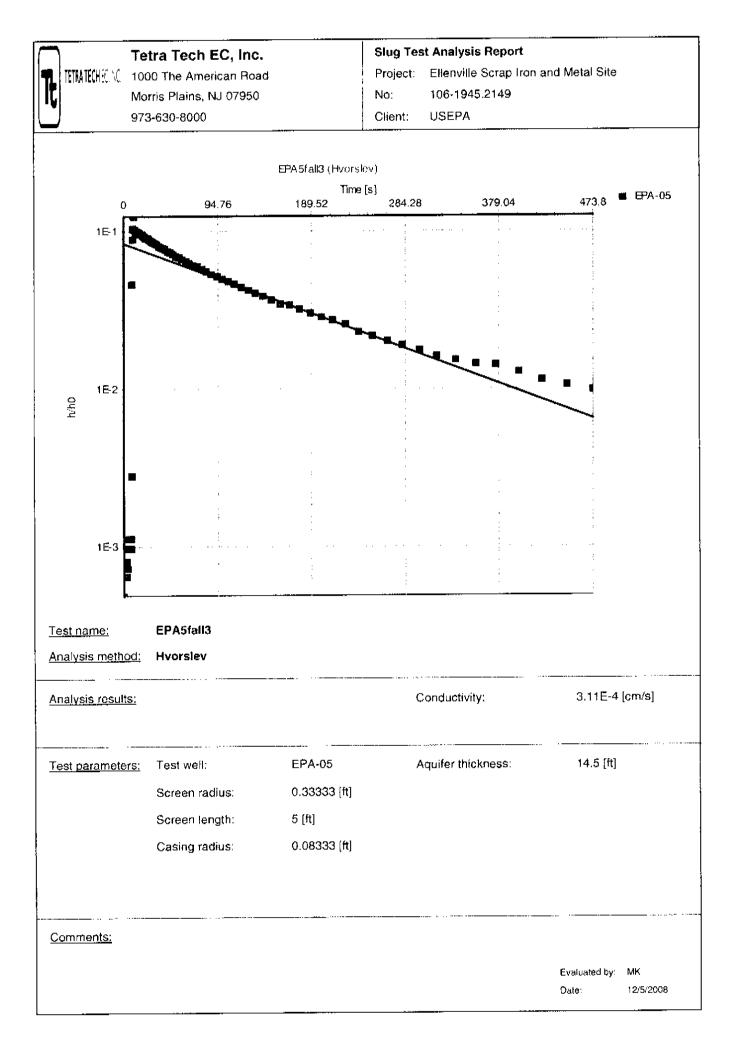


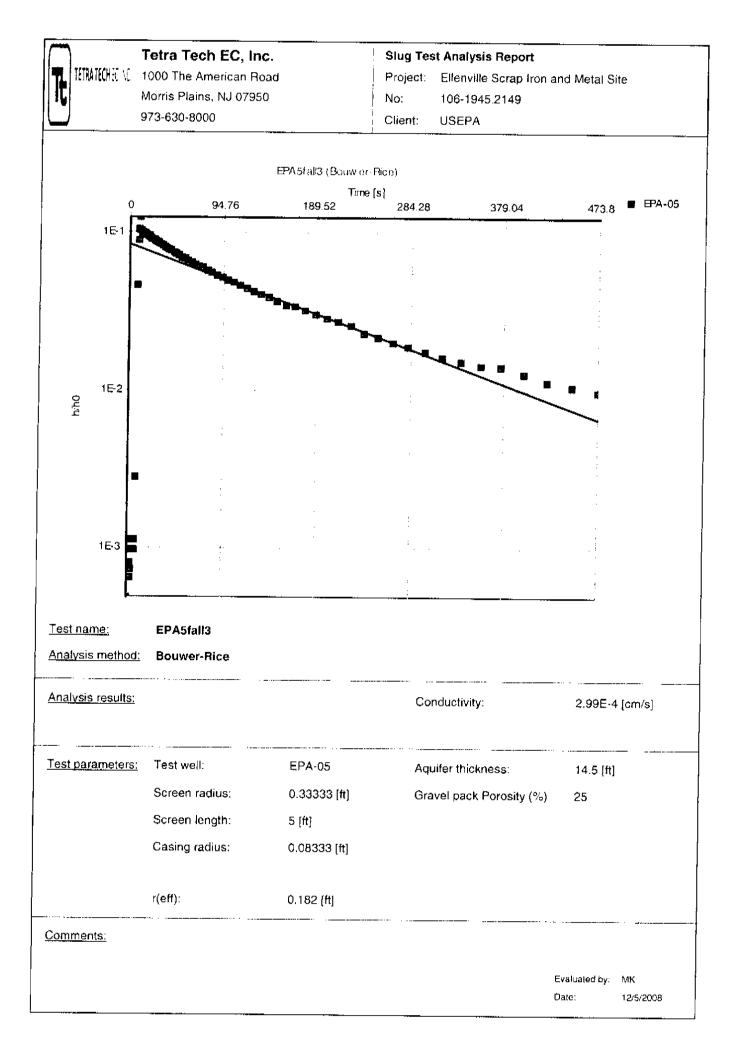


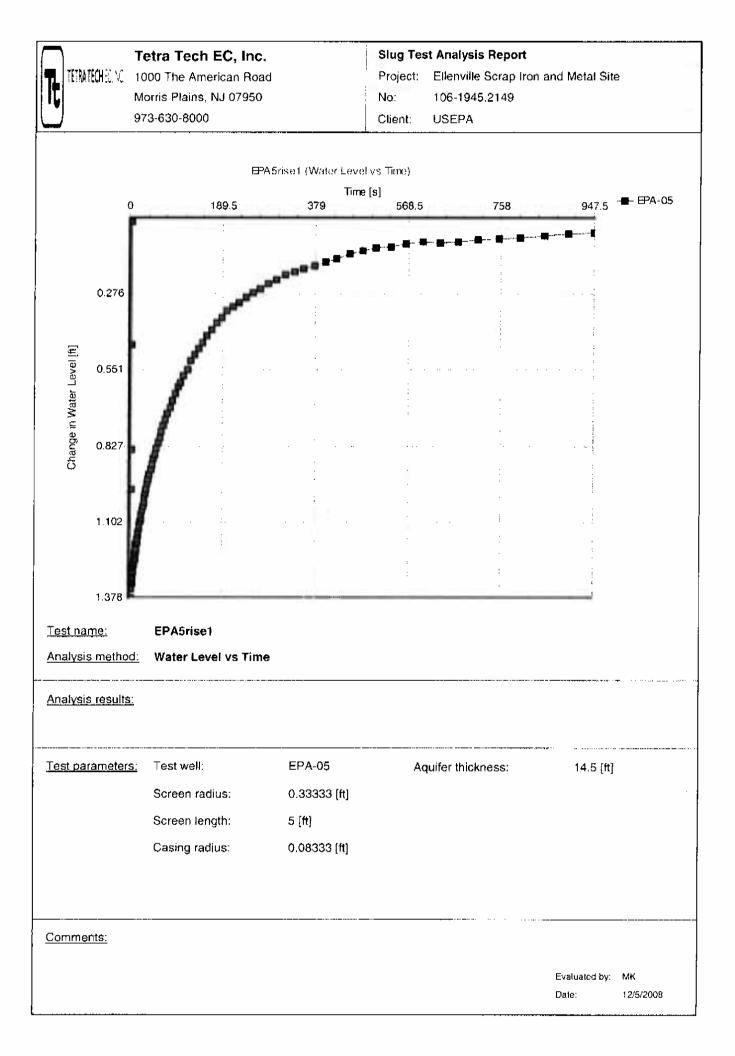


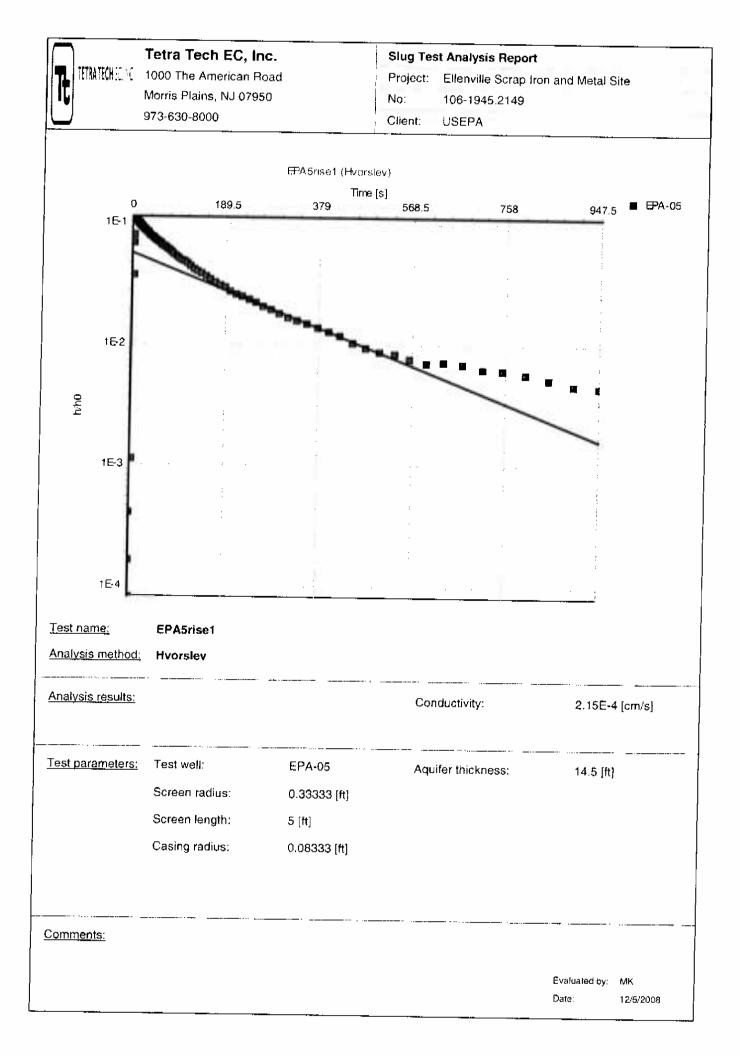


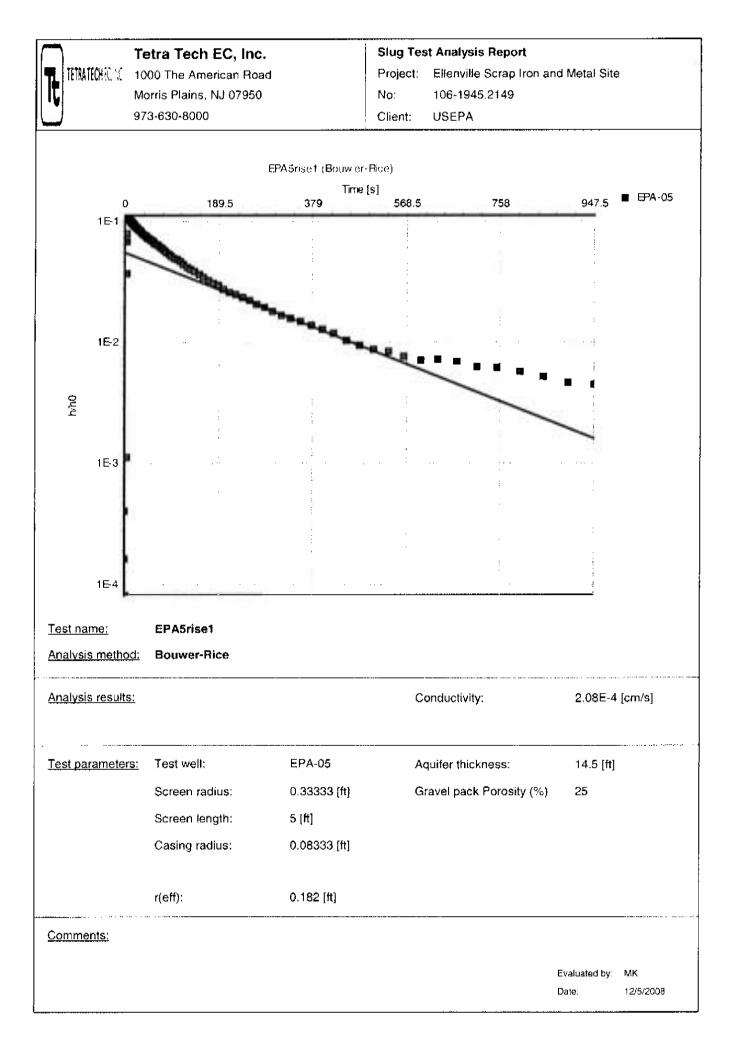


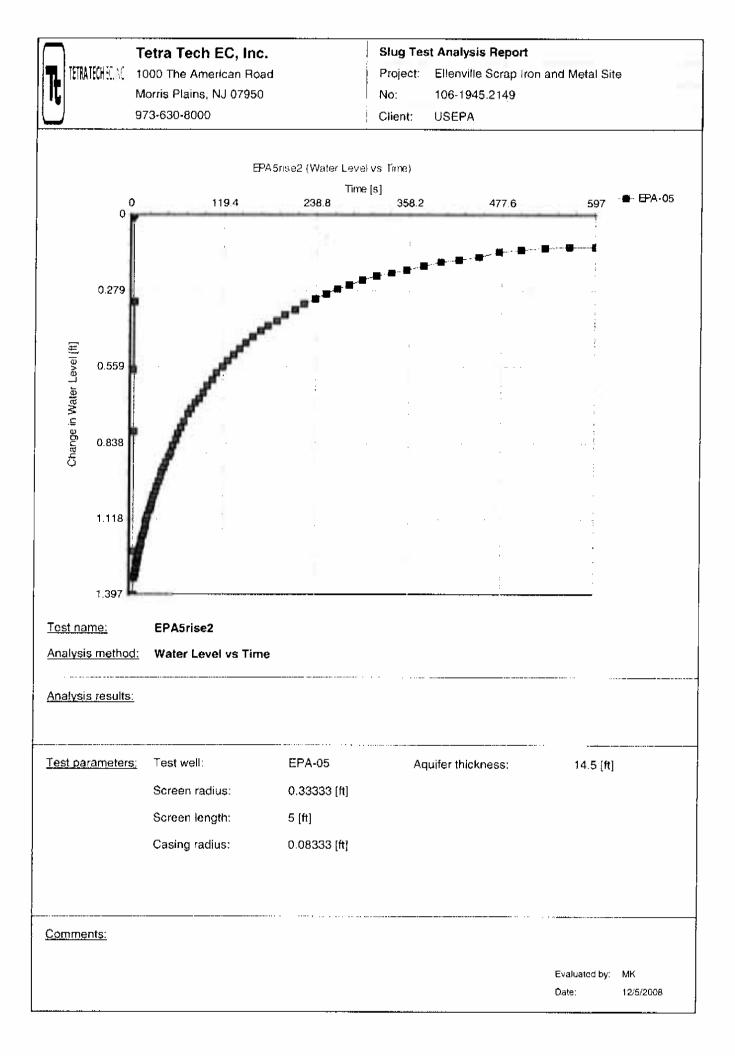


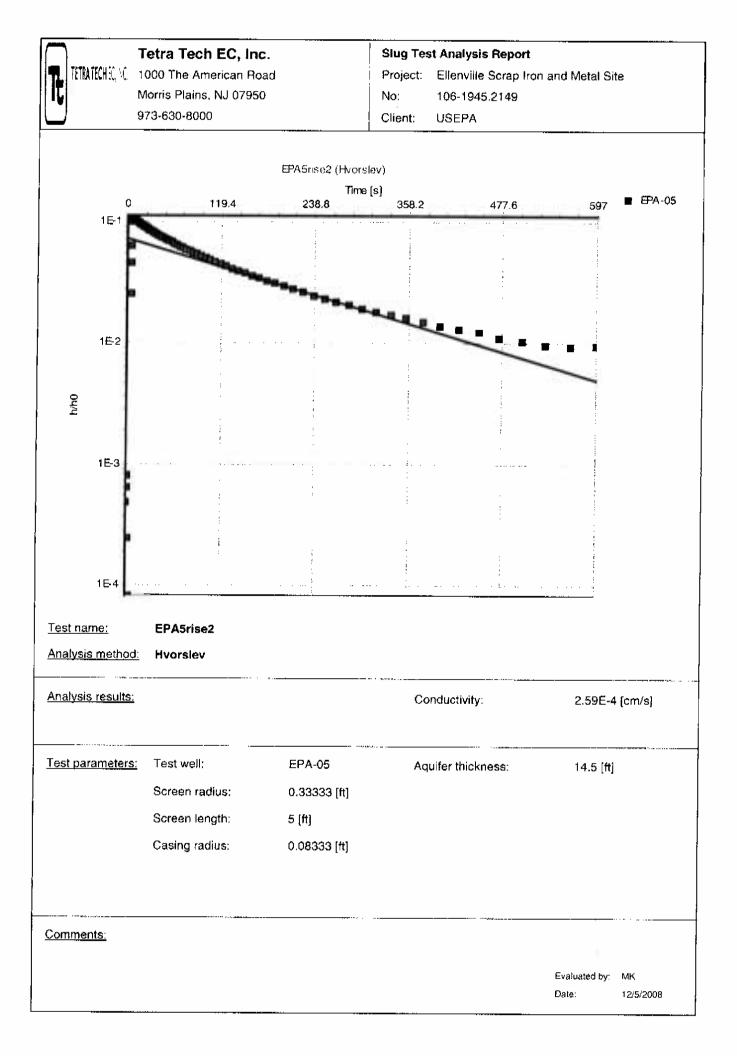


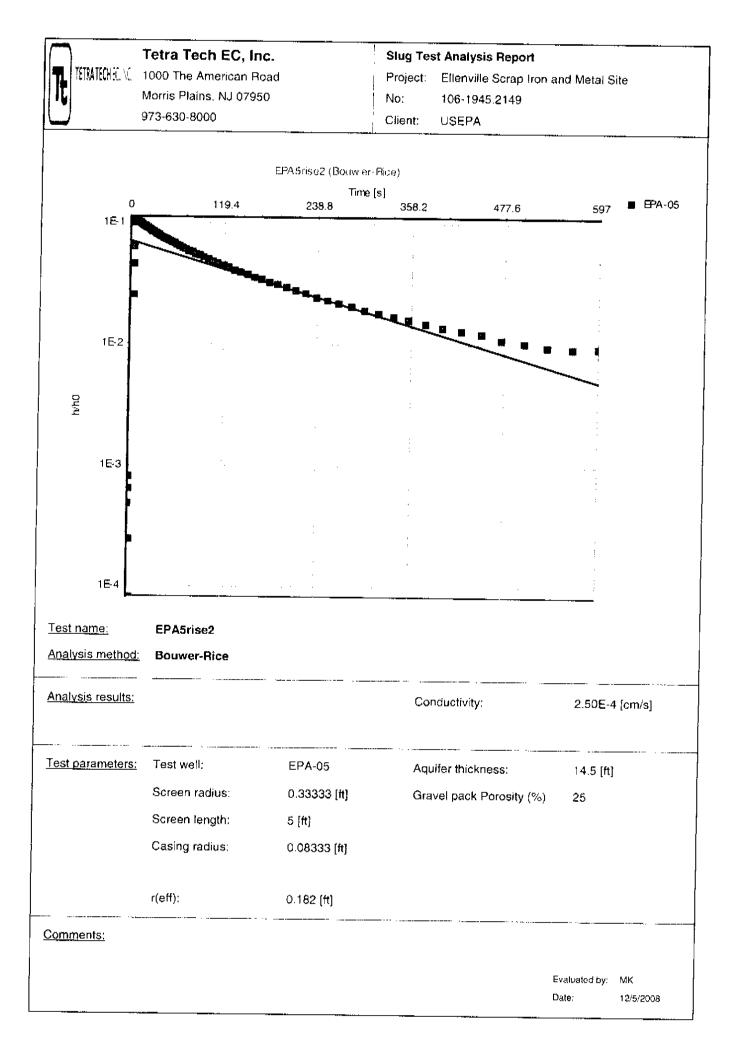


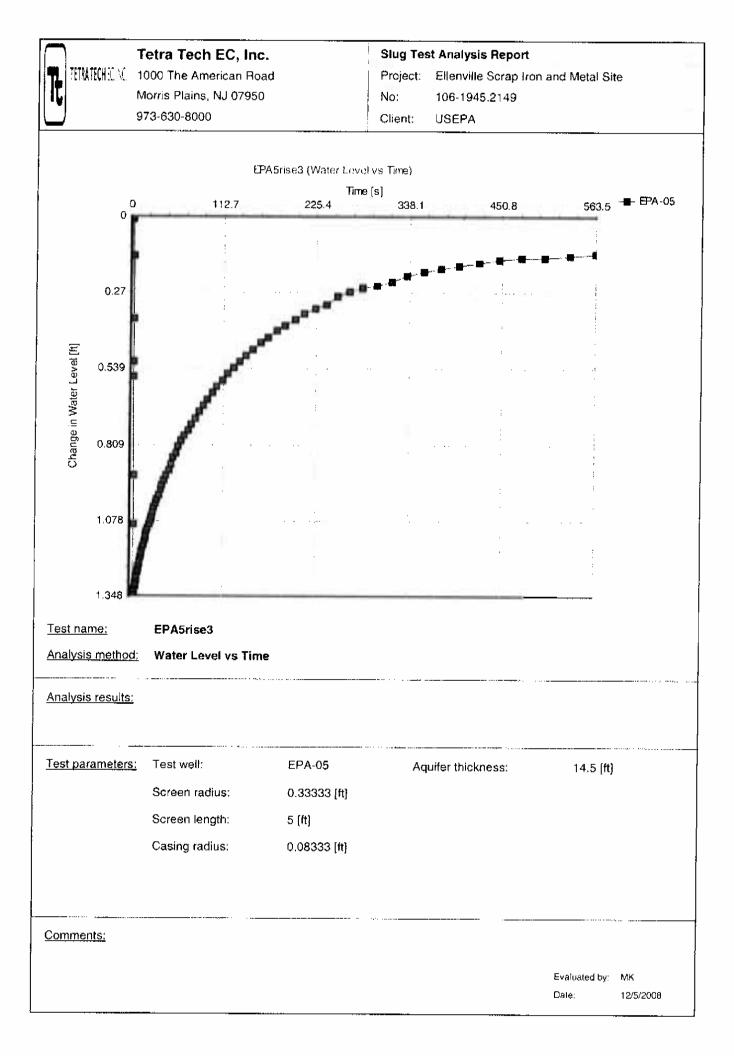


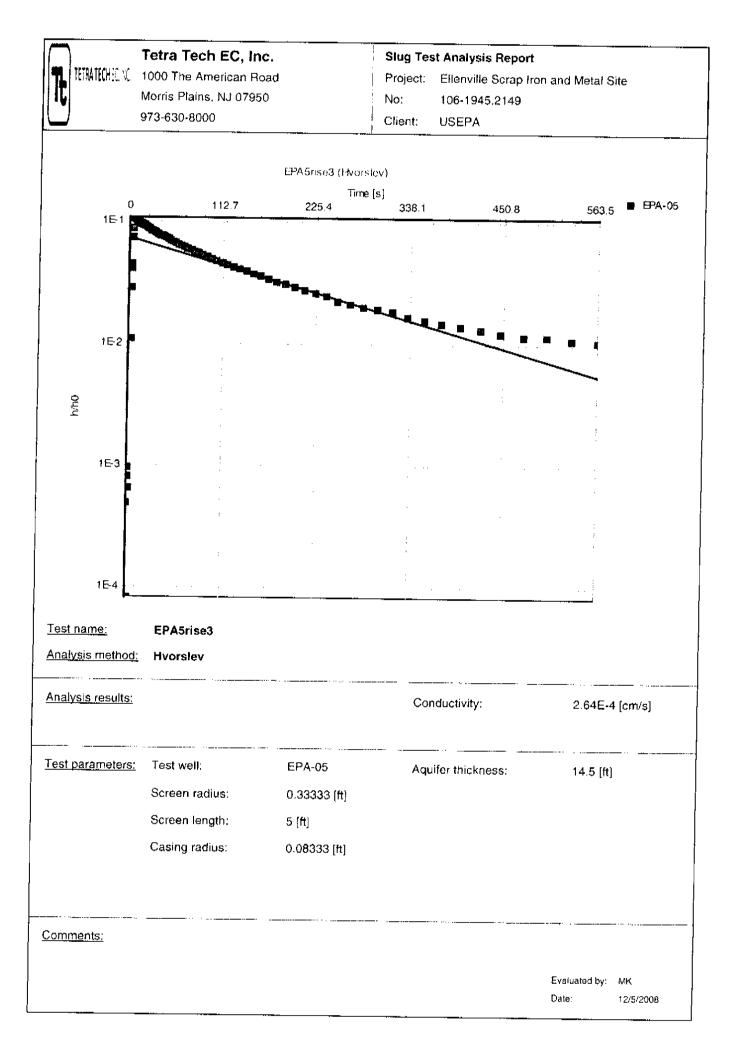


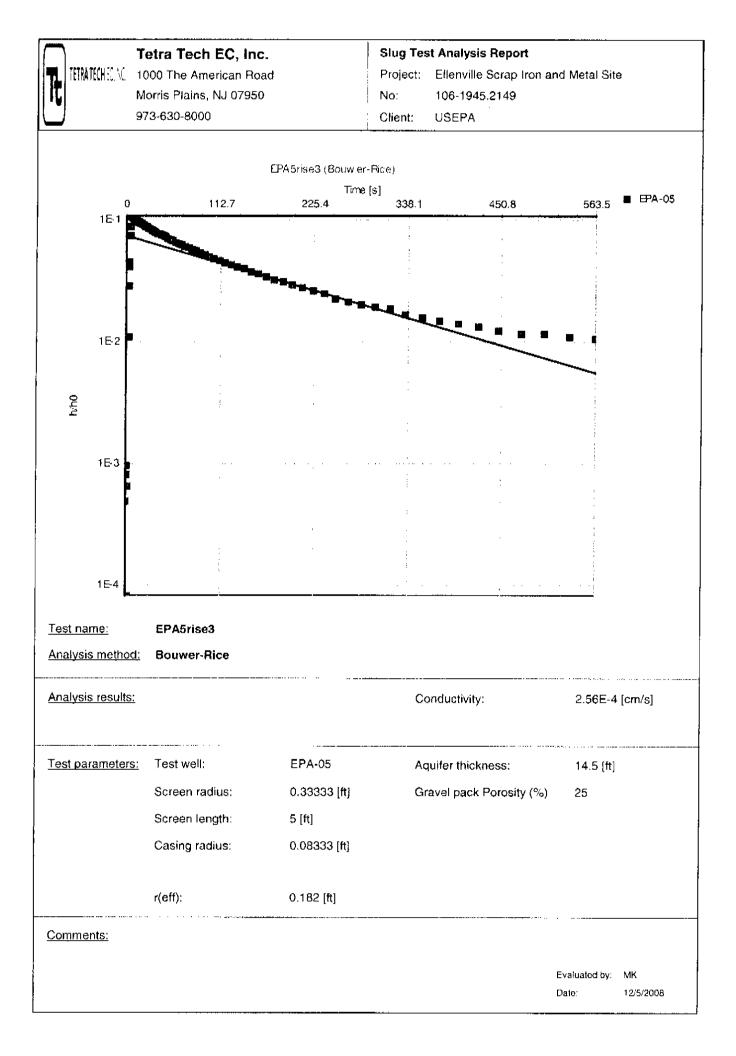


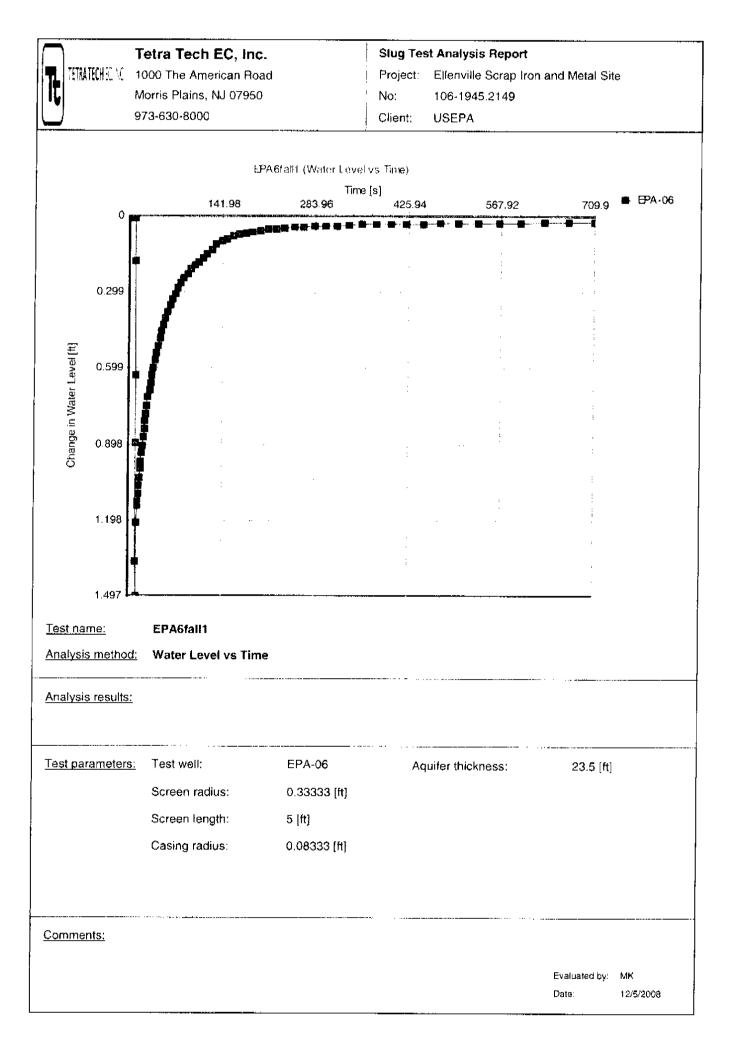


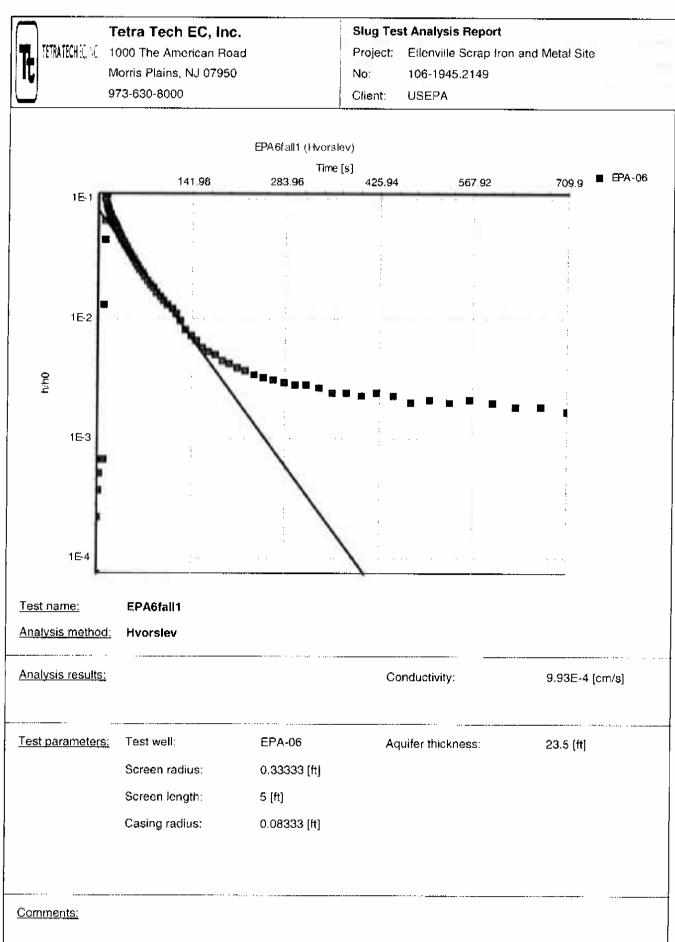




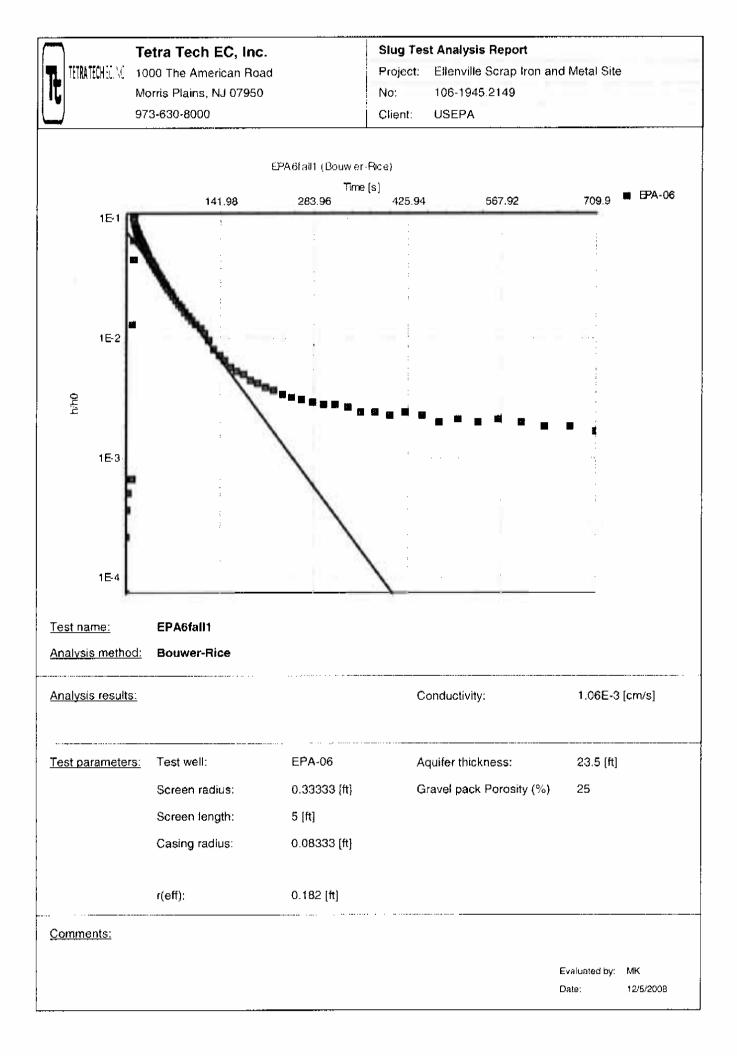


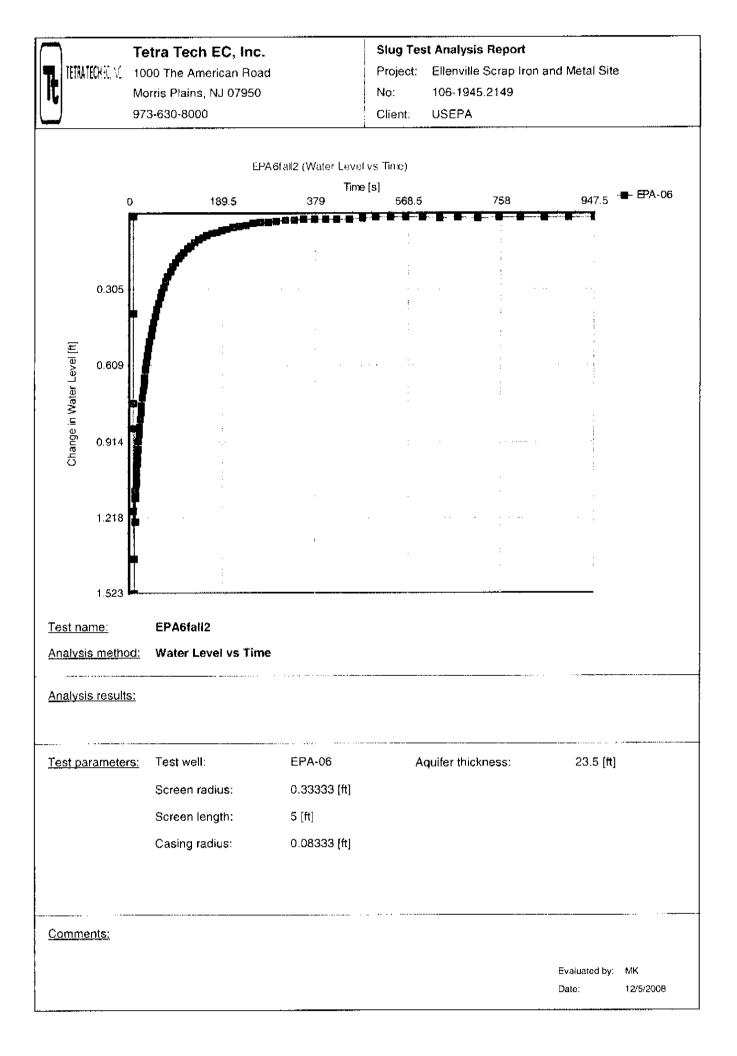


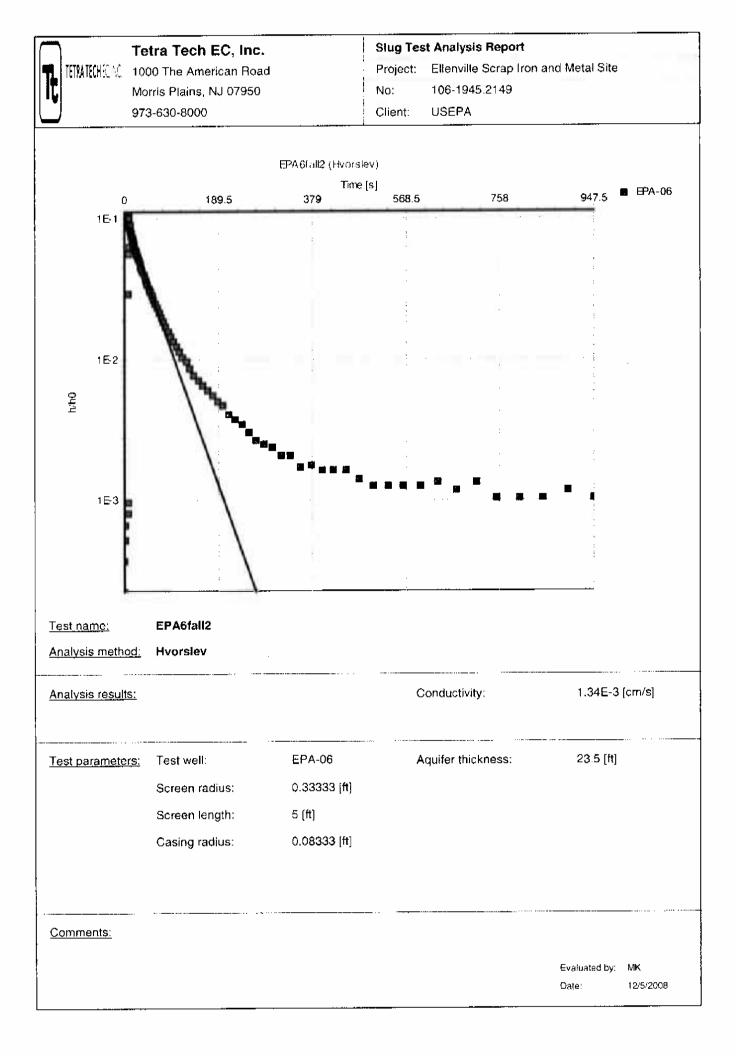


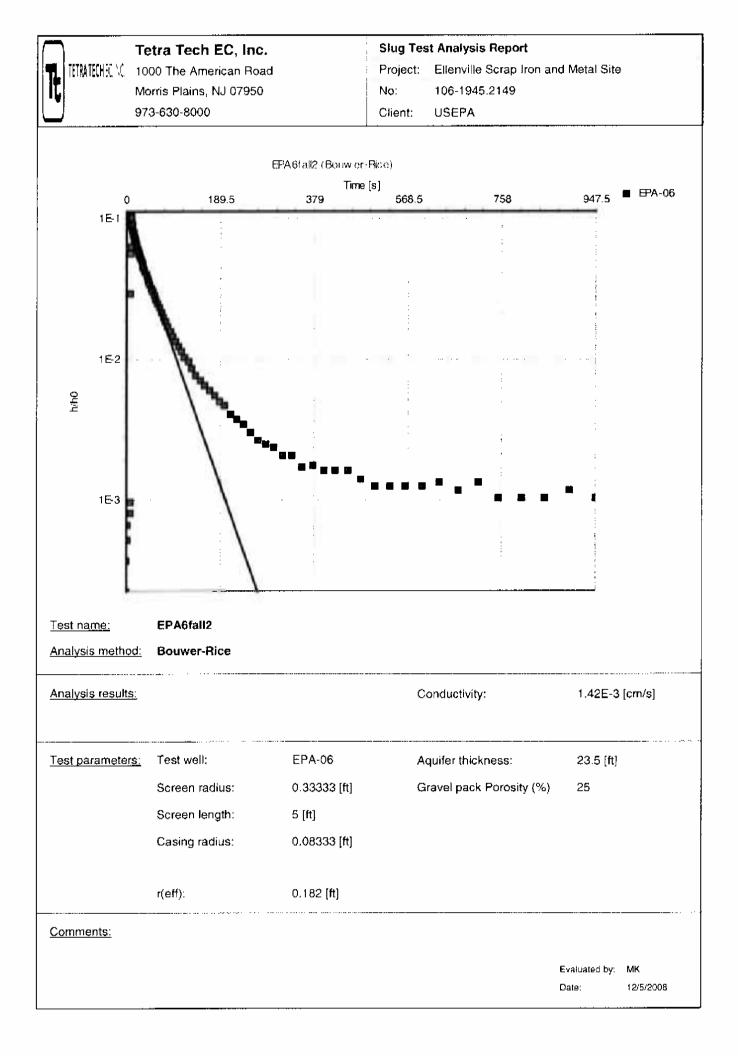


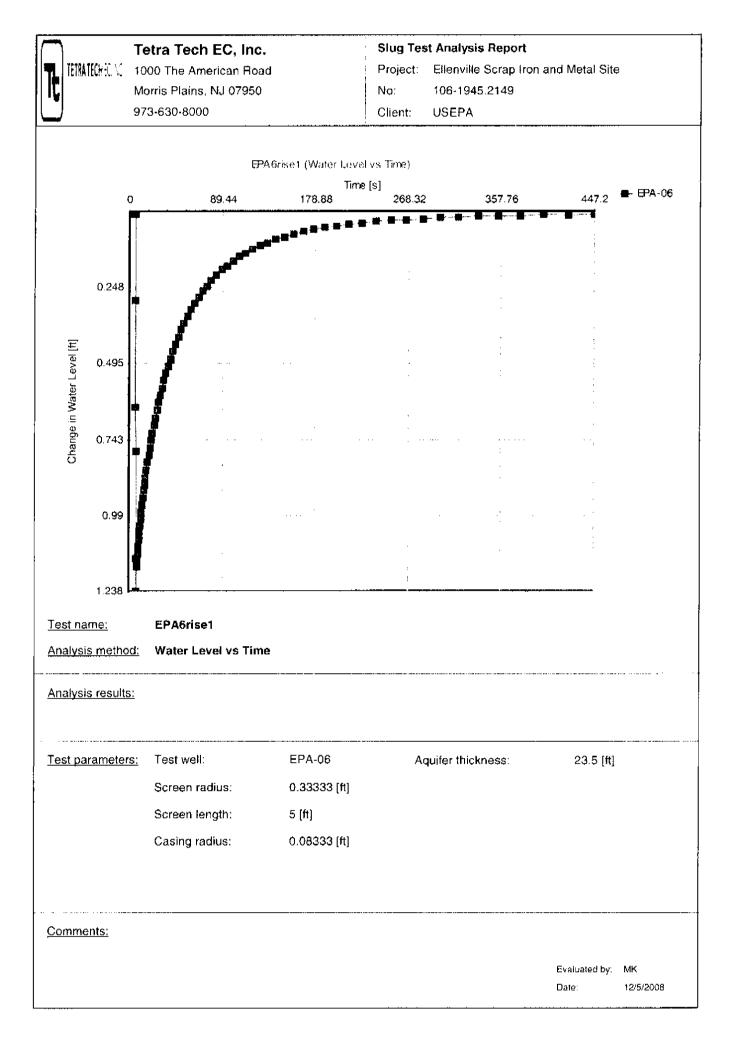
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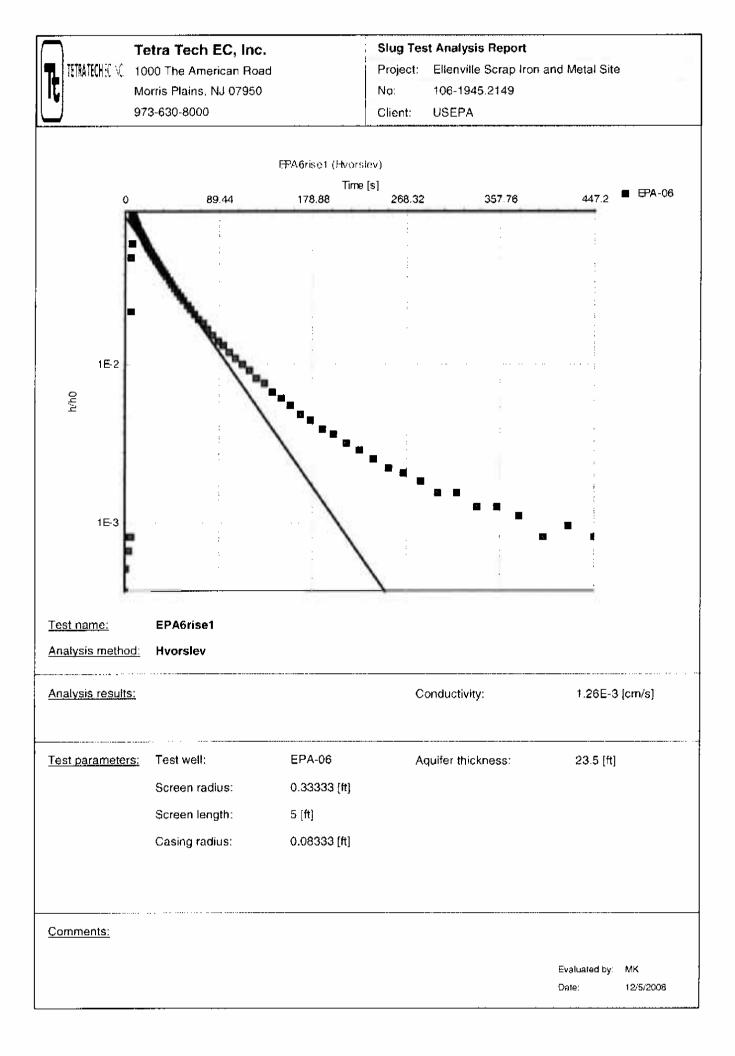


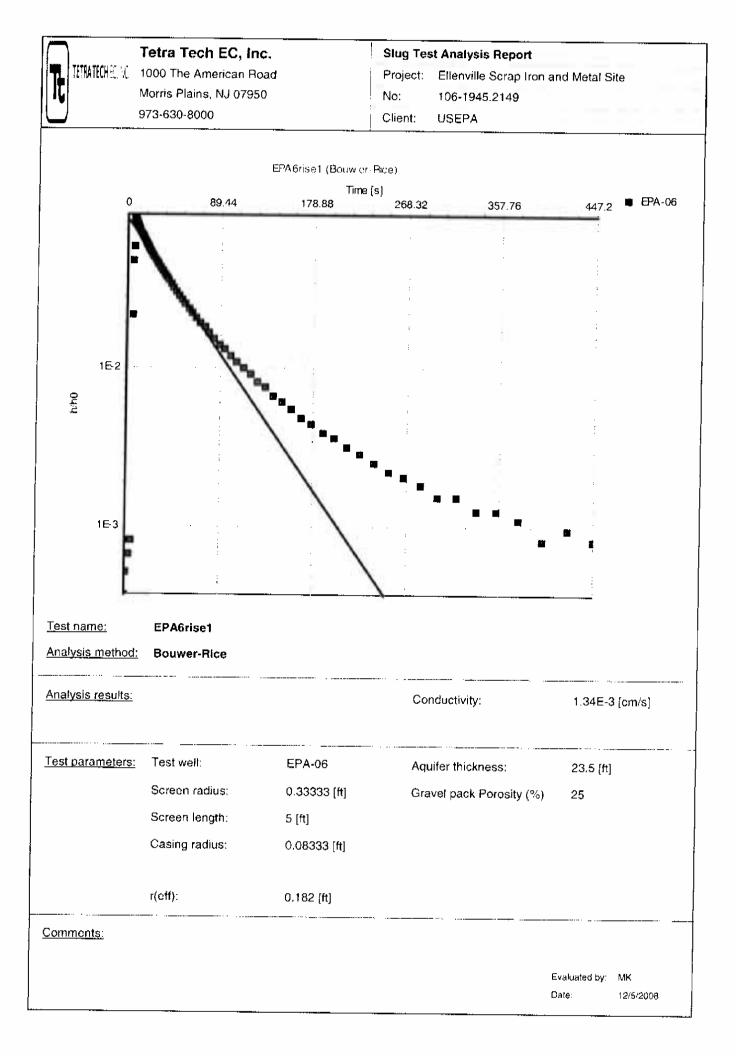


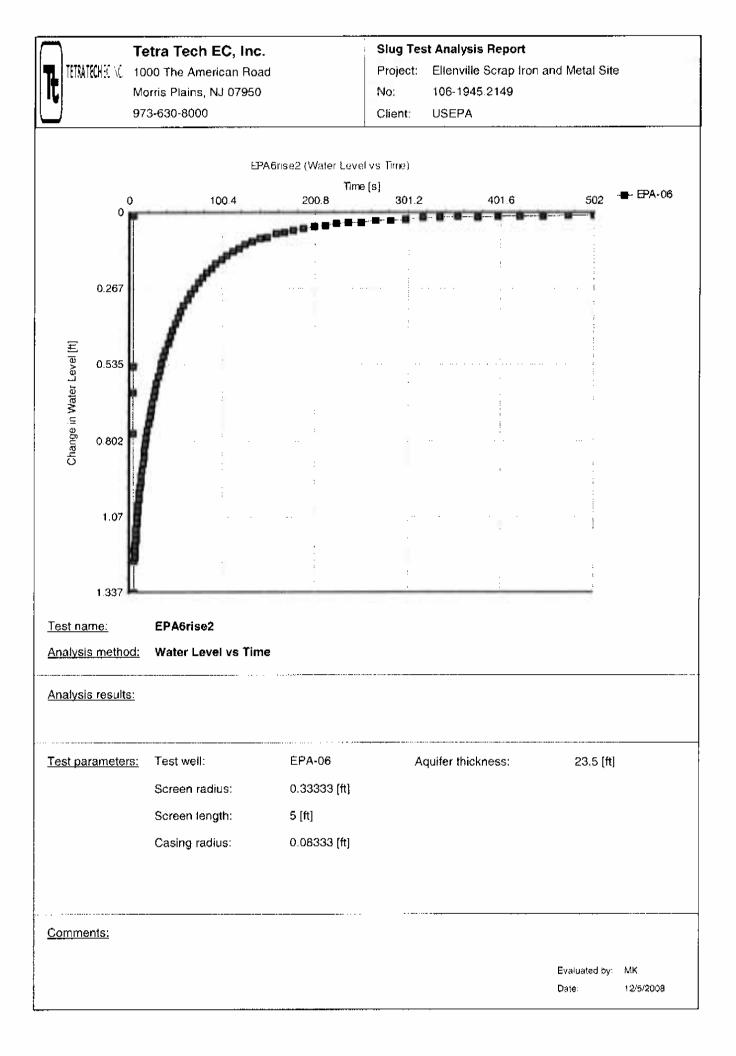


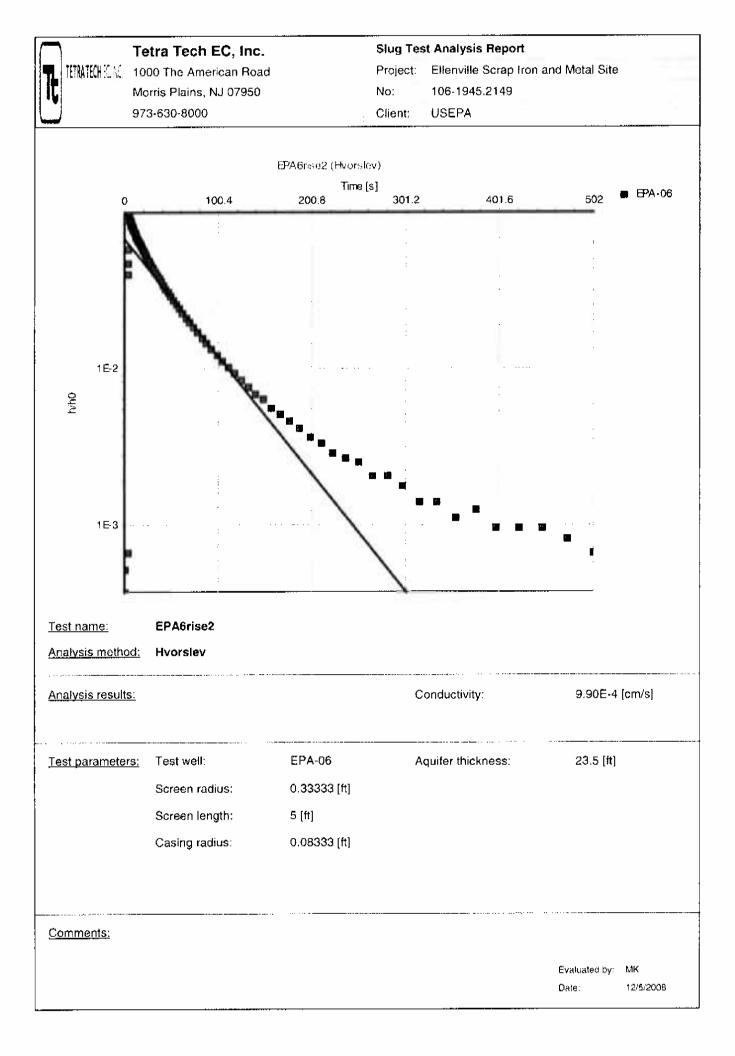


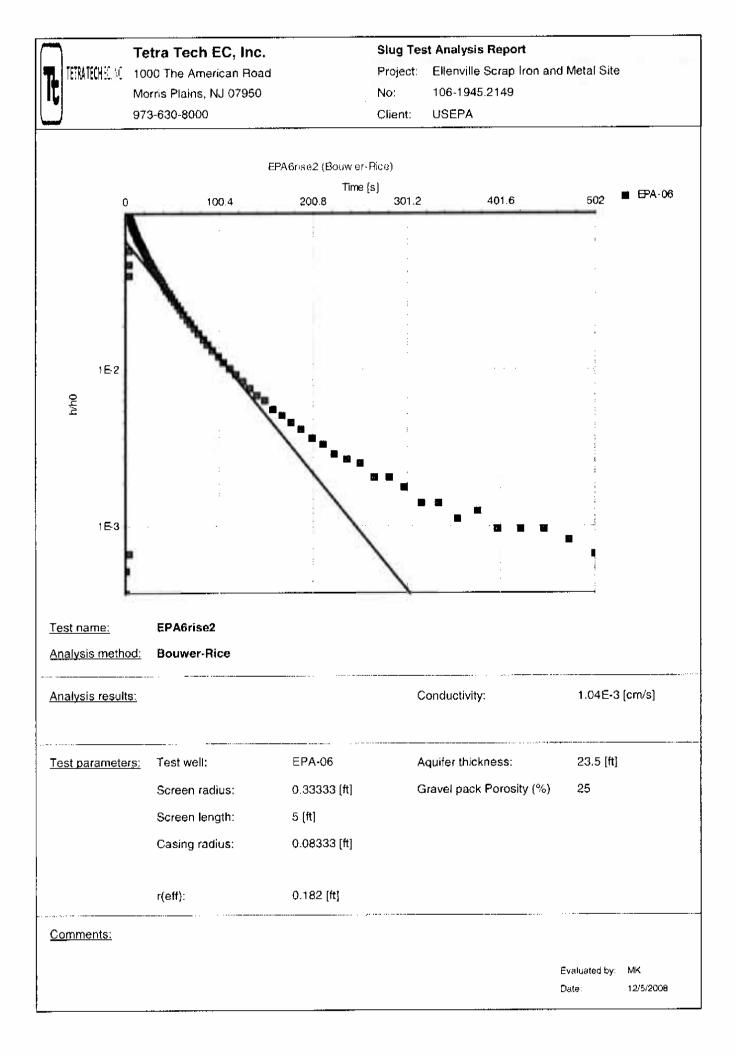


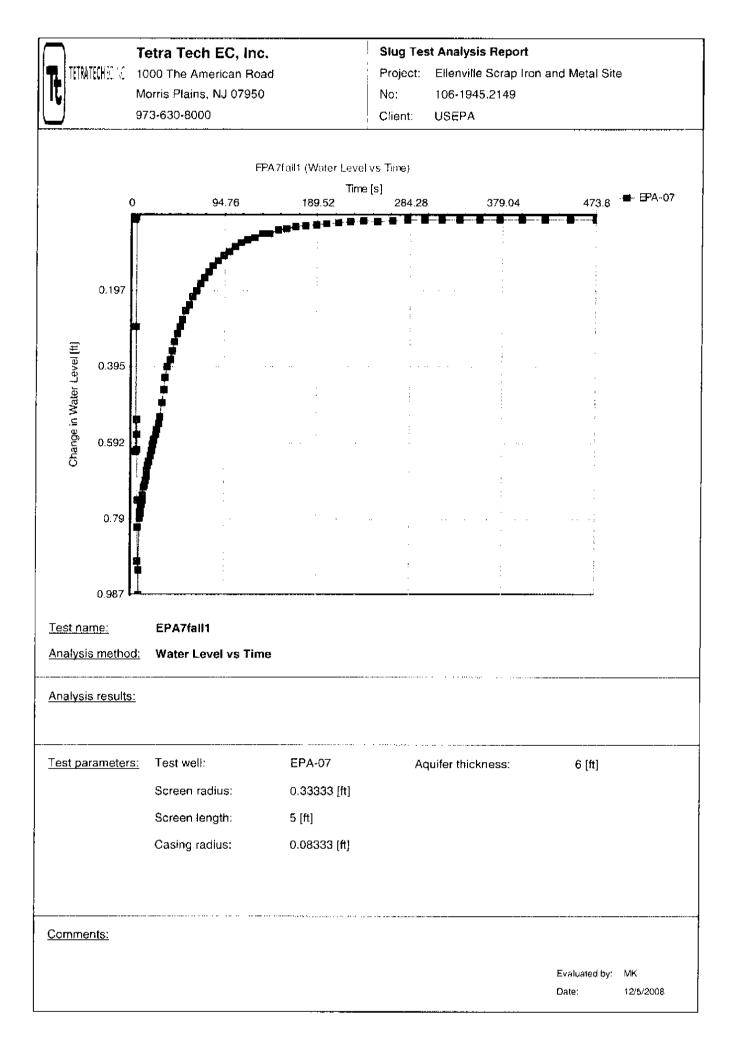


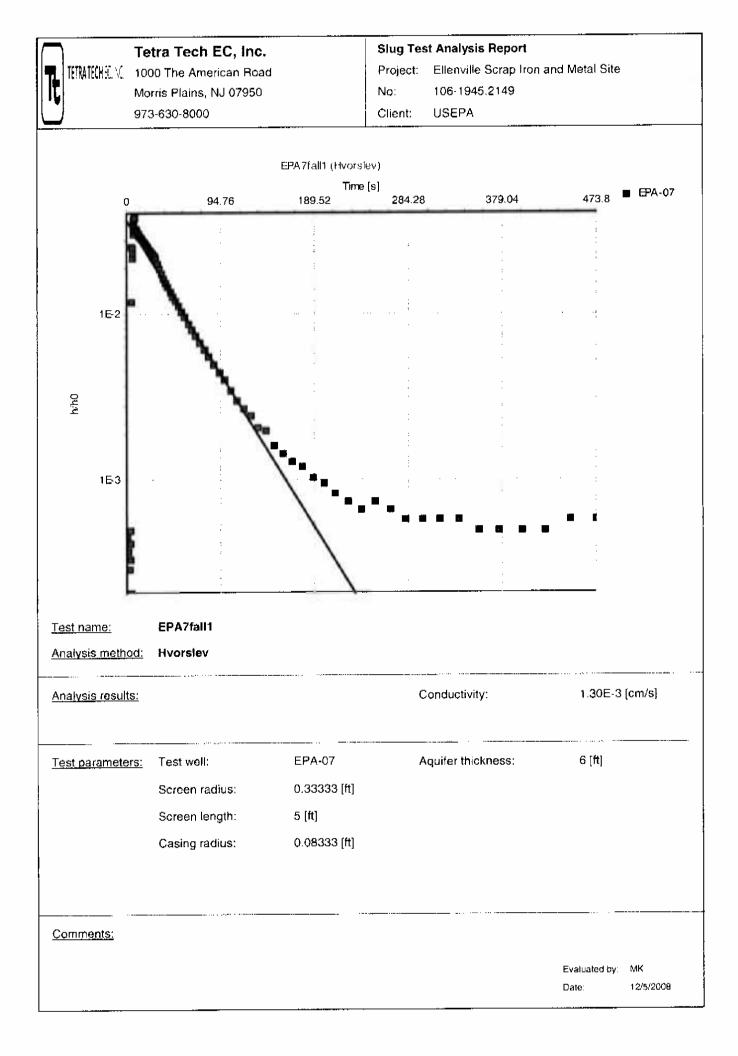


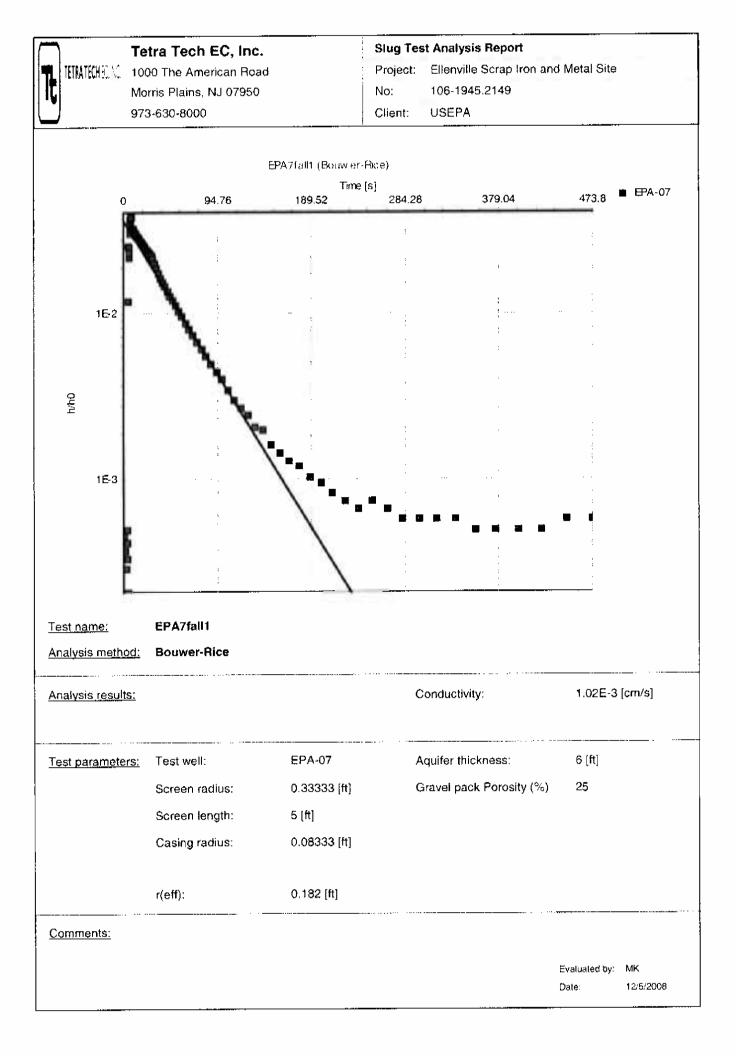


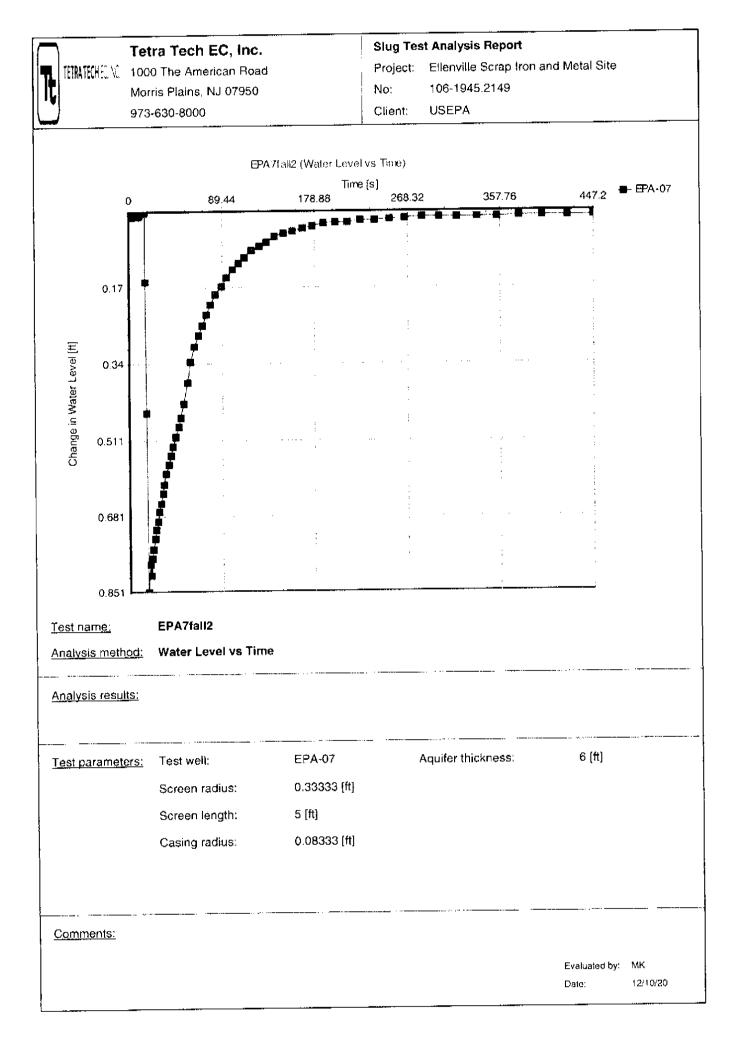


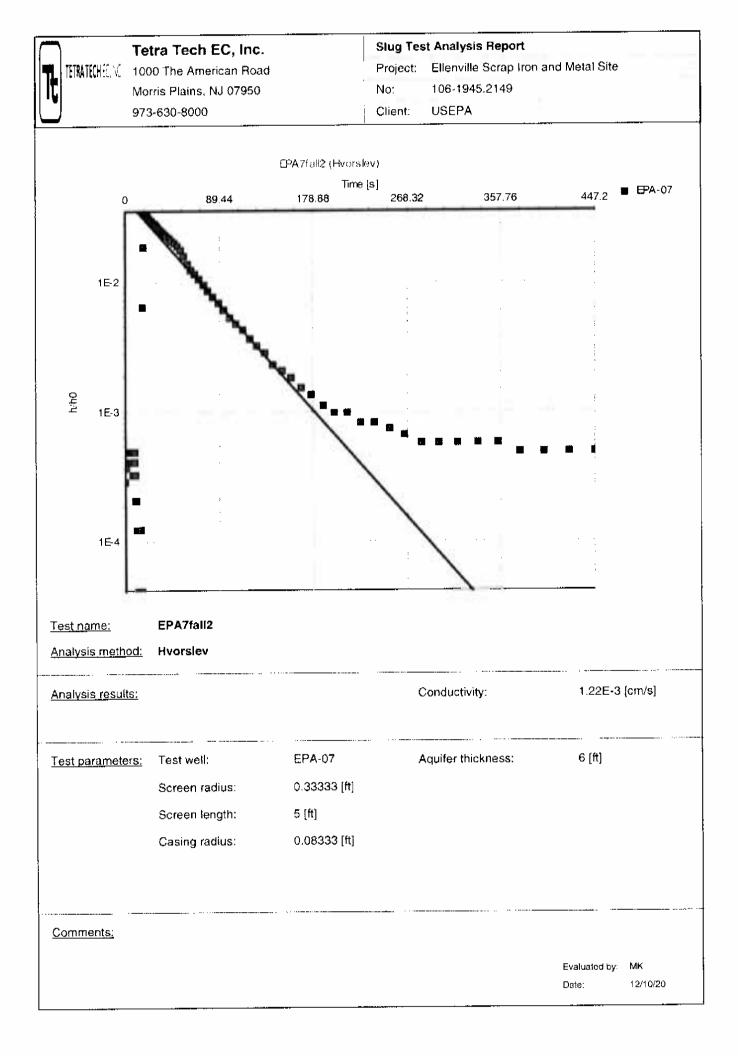


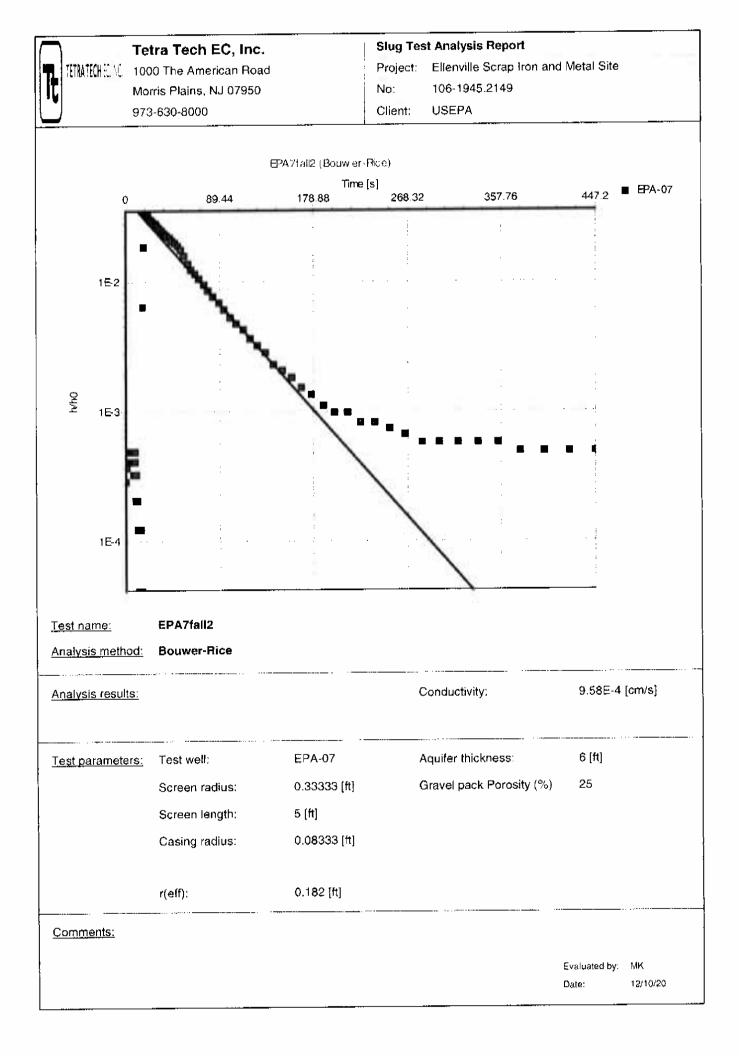


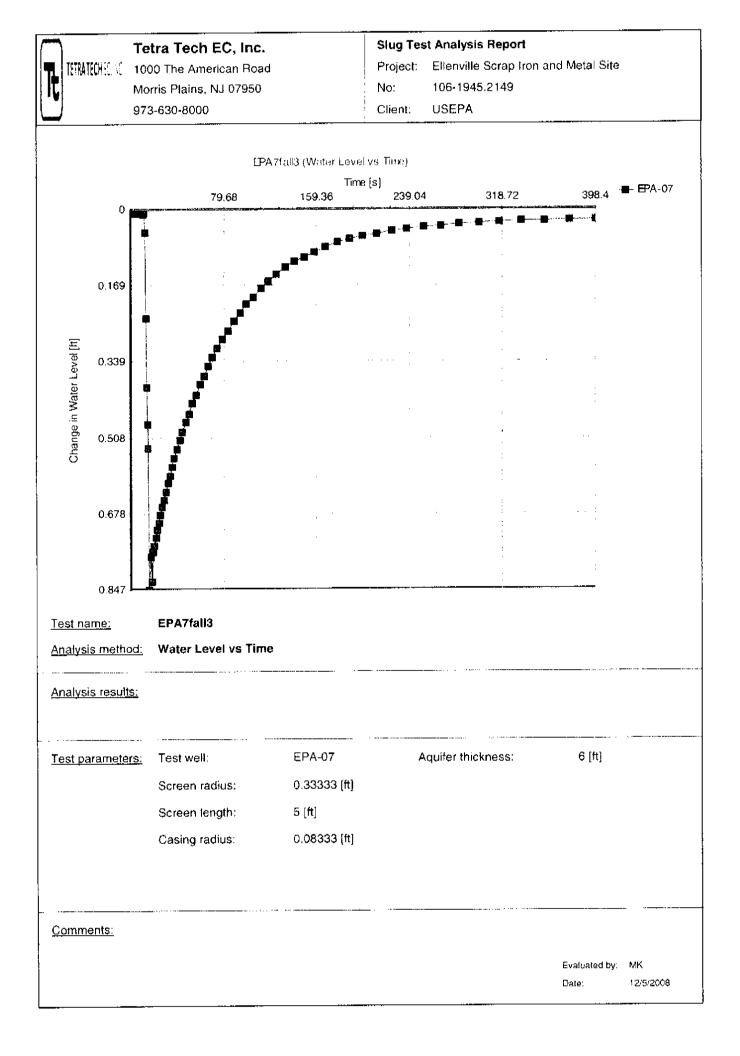


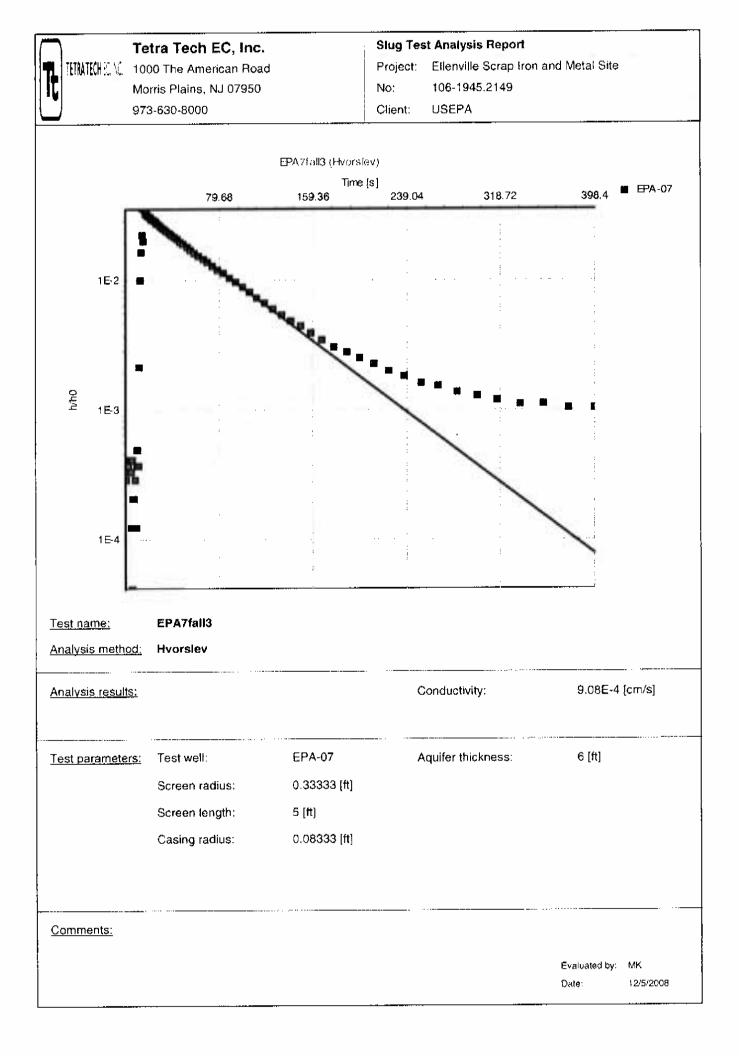


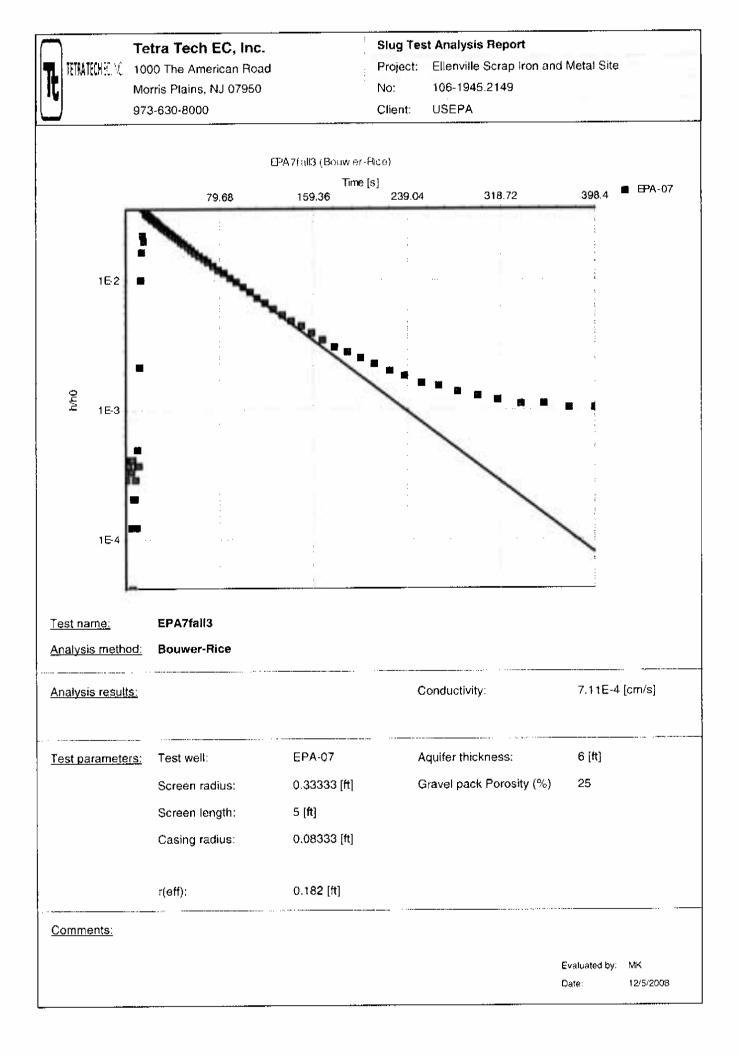


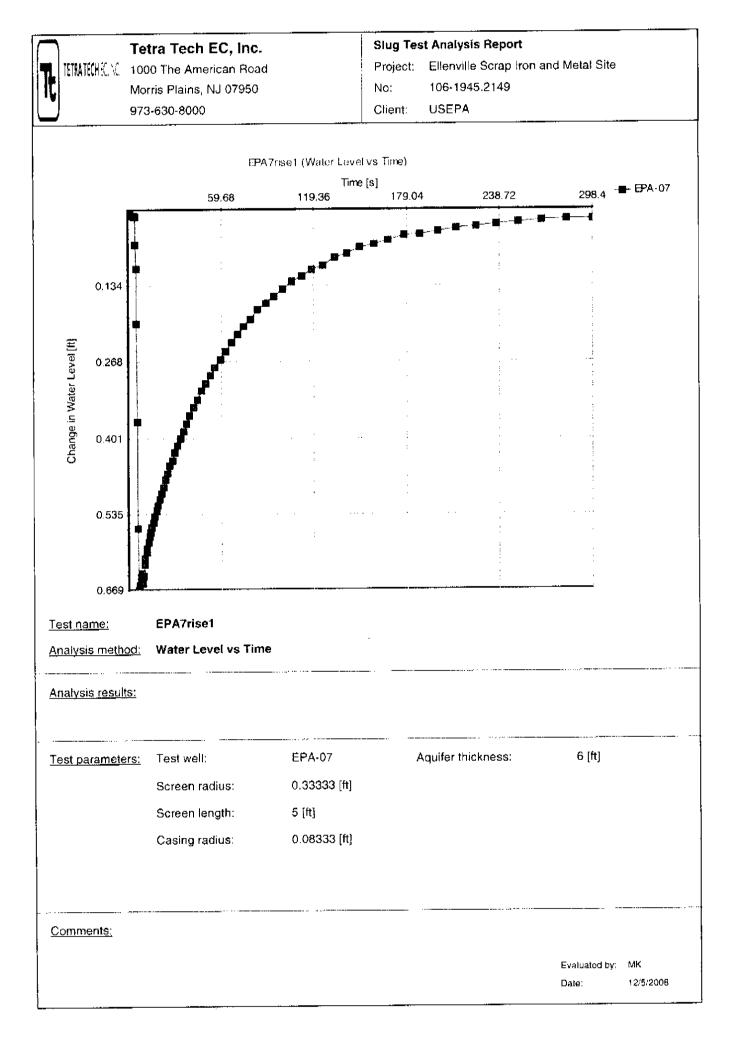


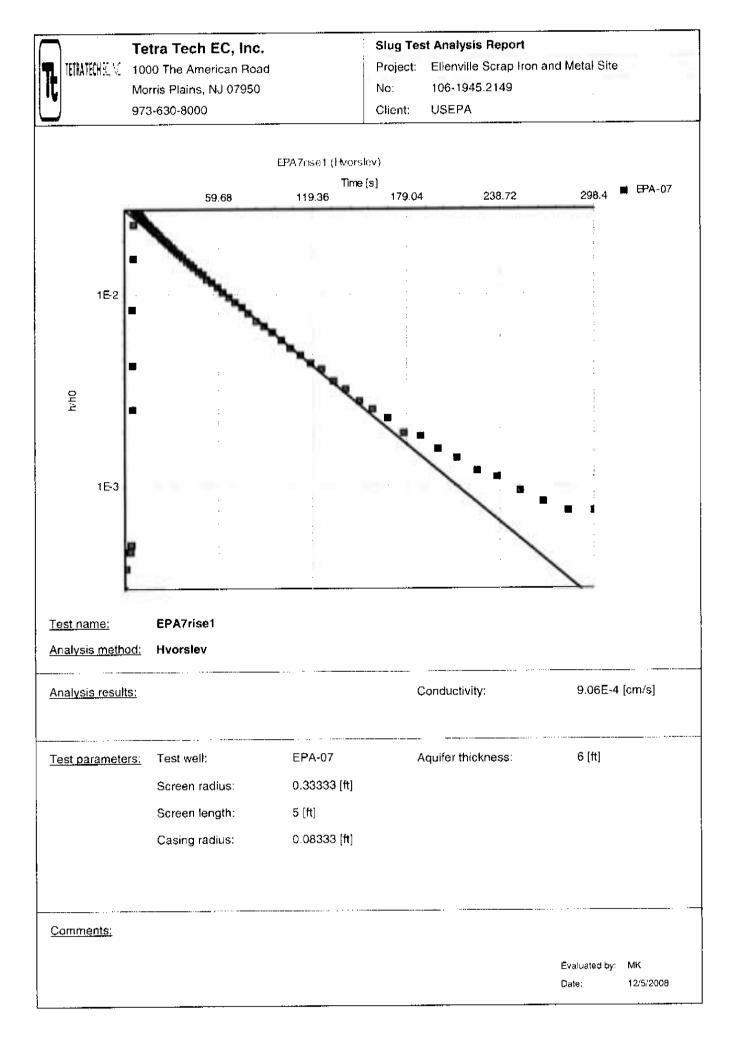


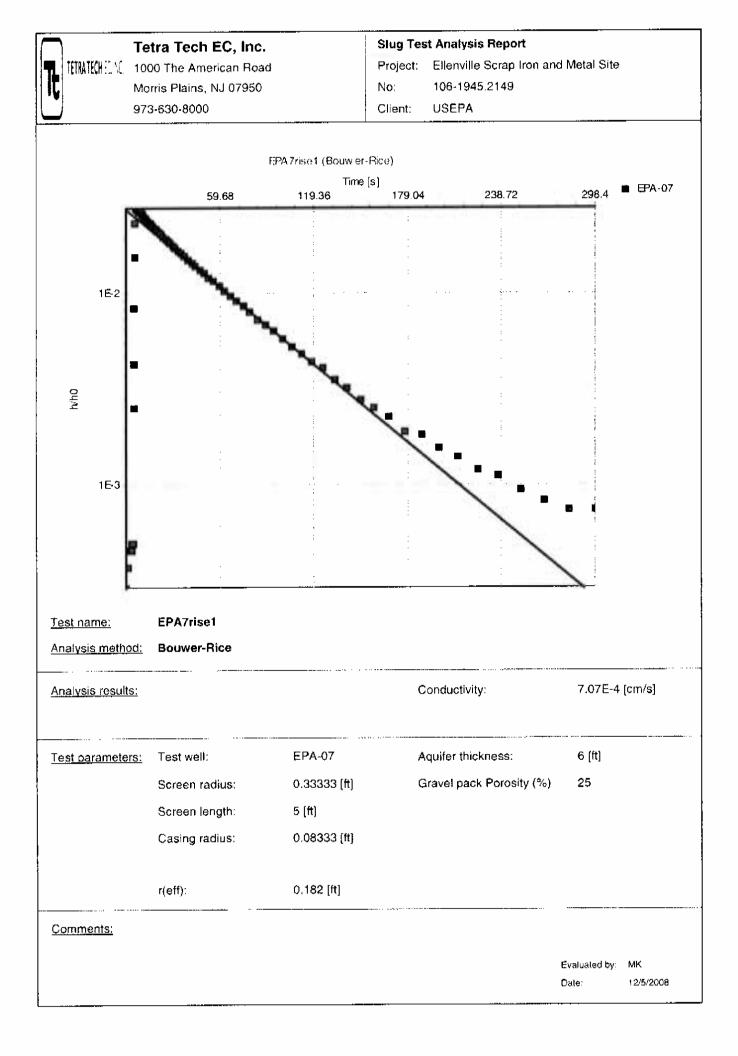


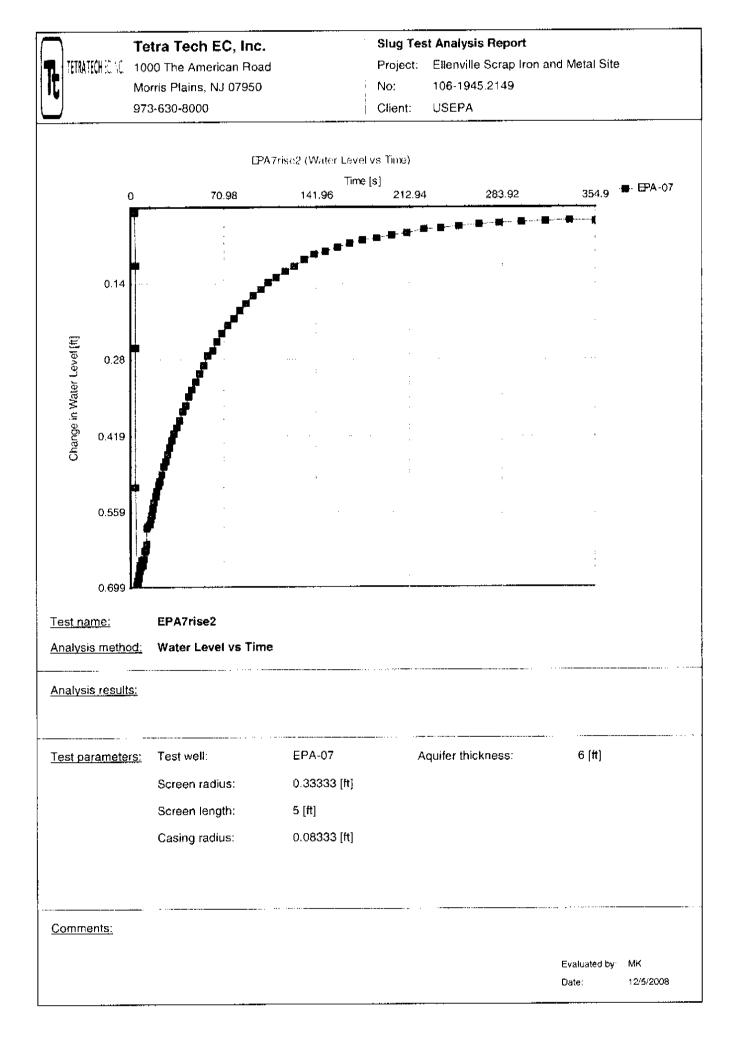


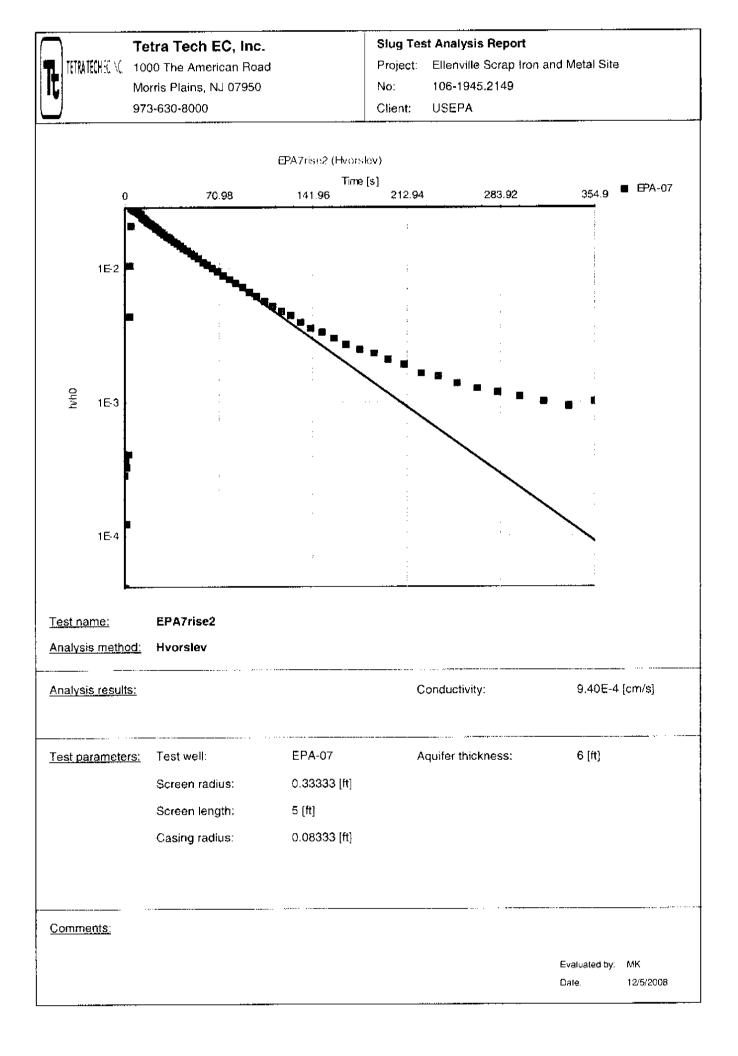


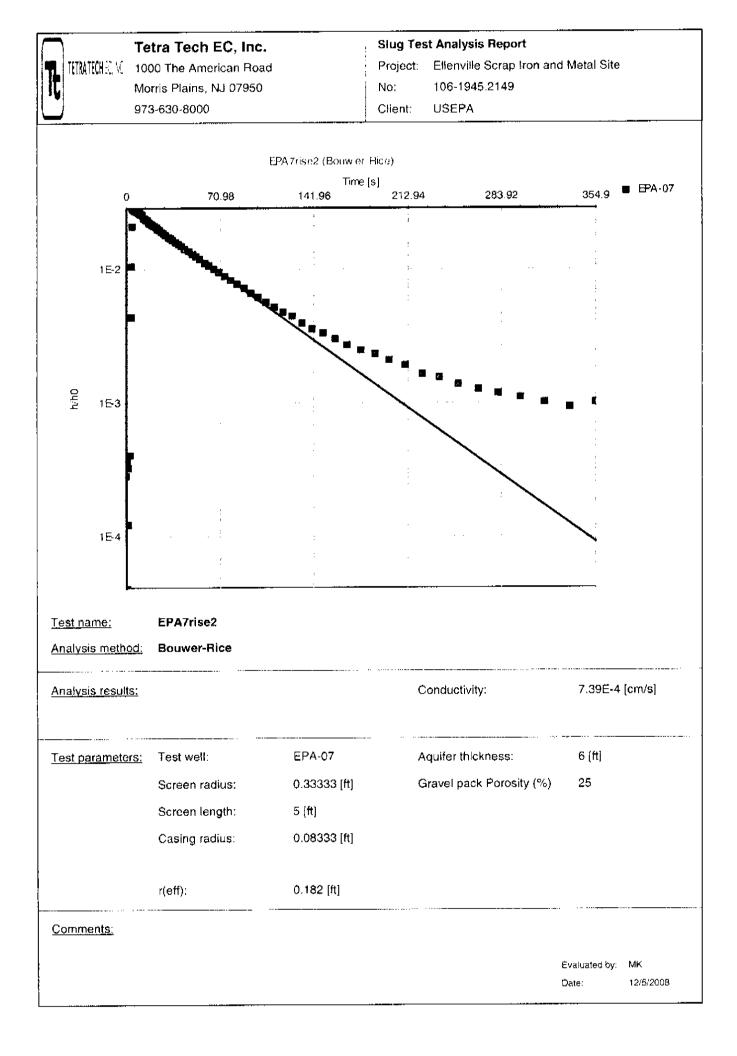


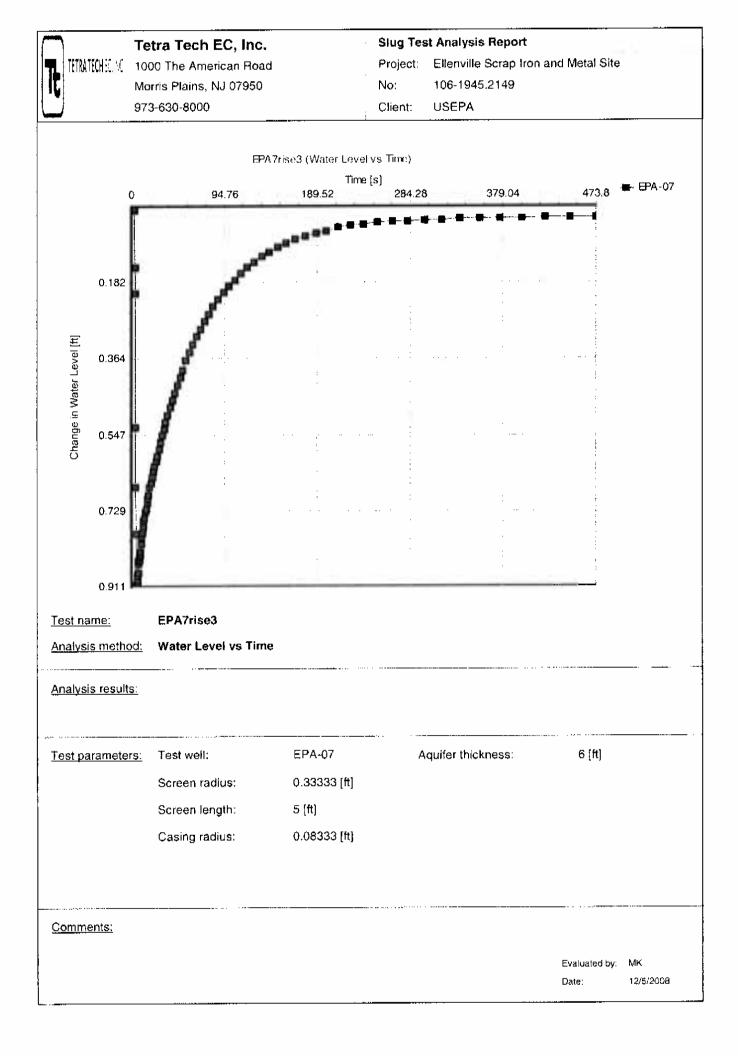


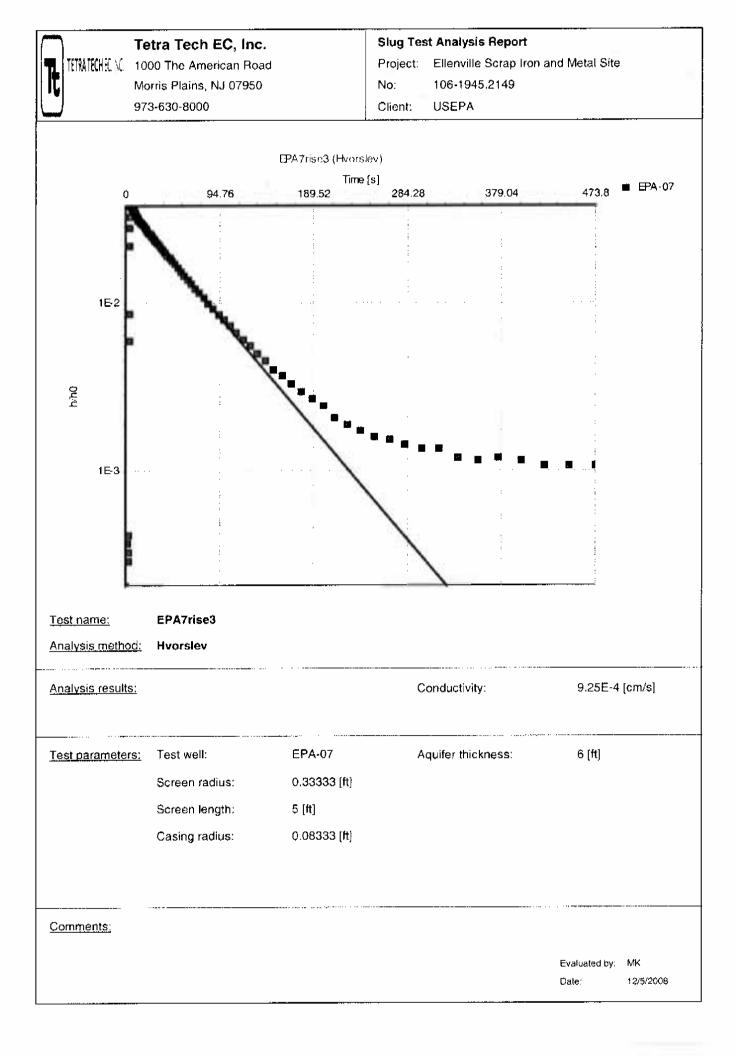


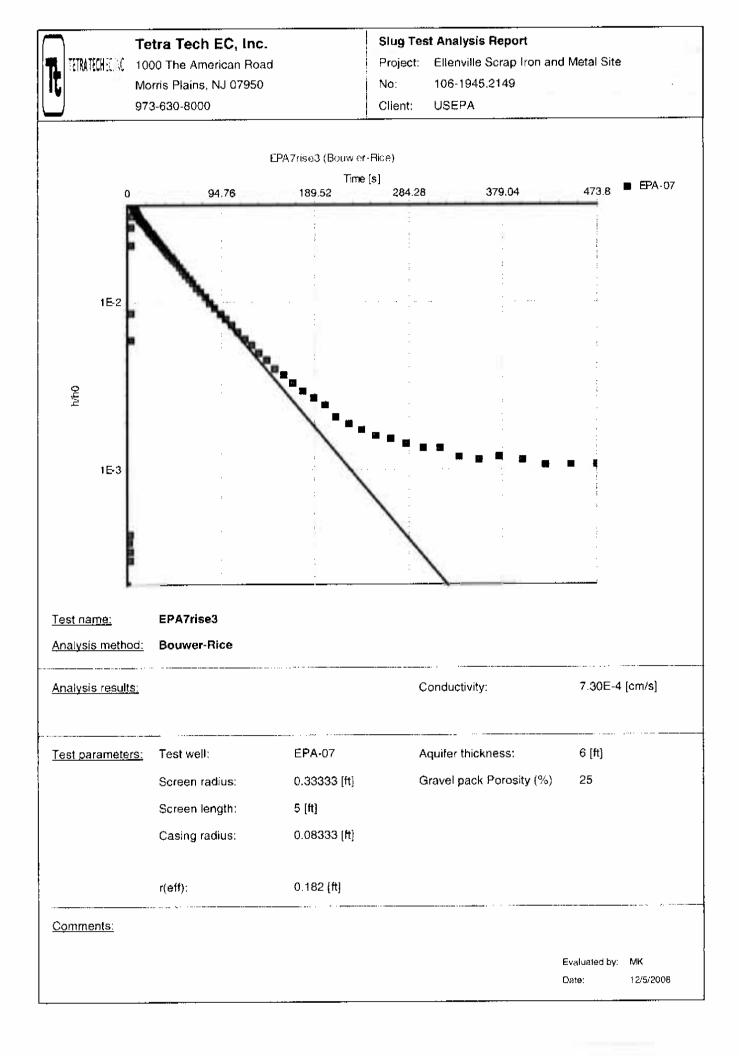












## Summary of Slug Test Data - Ellenville Scrap Iron and Metal Site 34 Cape Avenue, Ellenville, NY

<u>Well</u>	Test	Hydraulic Conductivity				
		Hvorsle	ev (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	
	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	
EPA-05	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	
	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	
EPA-06	EPA6rise1	1.26E-03	3.57E+00	1.34E-03	3.80E+00	
EPA-07	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	
	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	

## Individual Monitoring Well Hydraulic Conductivity Values

Summary of Hydraulic Conductivity Values

<u>Well</u>	<u>Test</u>	Hydraulic Conductivity				
		<u>Hvorslev (1951)</u>		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	