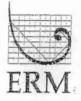
Stern Fist. I

Environmental Resources Management

5788 Widewaters Parkwa Dewitt, NY 13214 (315) 445-2554 (315) 445-2543 (fax)

14 April 2004

Mr. Lindsey Allen Axiohm USA, Inc. c/o Transaction Printer Group, Inc 25 Tri-State International, Suite 200 Lincolnshire, IL 60069



RE: Supplemental Investigation

Bedrock Monitoring Well Installation & Sampling

Axiohm TPG Ithaca, New York

ERM Project No.: 0013172

Dear Mr. Allen:

On 9 March 2004, Environmental Resources Management, Inc. (ERM) conducted a subsurface investigation at the Axiohm Facility located at 950 Danby Road, Ithaca, New York (Figure 1, Attachment A). The bedrock aquifer investigation consisted of installing shallow and deep bedrockmonitoring wells and the collection of ground water samples for laboratory analysis. Subsequent sections of this report present a summary of events and findings related to the subsurface investigation.

# PROJECT BACKGROUND

ERM identified extensive areas of affected soil and ground water at the Facility during the Phase II investigation. The investigation also identified that bedrock is located within approximately 13 to 16-feet of the ground surface throughout the property. Affected soil and ground water was identified in contact with the bedrock surface in the affected areas. This supplemental investigation is designed to evaluate the potential impacts to ground water within the shallow and deep bedrock aquifers at downgradient locations of the previously identified source areas.

At the completion of the Phase II investigation, ERM recommended the installation of shallow and deep bedrock monitoring wells to assess ground water quality within the bedrock aquifers.

14 April 2004 Mr. Lindsey Allen Project No. 0013172 Page 2

#### SOIL & BEDROCK BORINGS

To assess the vertical and lateral extent of affected ground water within the shallow and deep bedrock aquifers (Figure 2, Attachment A) four bedrock-monitoring wells were completed and sampled in March 2004. The bedrock wells were advanced downgradient of the previously identified source areas that were drill rig accessible and clear of underground utilities. The Drilling subcontractor, Parratt-Wolff, Inc. of East Syracuse, New York used a hydraulically activated truck mounted drill rig (CME 75) equipped with 61/4-inch hollow stem augers, down hole air-hammers and ancillary equipment to advance the borings and bedrock wells. Rock core samples were collected using a NX core barrel in general accordance with ASTM Method D 2113-83. Recovered rock core samples were immediately screened for volatile organic compounds (VOCs) with a photoionization detector (PID). Subsequent to field screening, rock samples were described by an on-site ERM geologist for color, texture, structure, competence, and moisture content. Shallow bedrock monitoring wells were terminated at approximately 34 and 40-feet below grade in wells BRW-1S and BRW-2S, respectively. Deep bedrock monitoring wells were terminated at approximately 109 to 110-feet below grade in wells BRW-1D and BRW-2D, respectively. Boring details are included on the monitoring well construction logs included in Attachment

#### MONITORING WELL INSTALLATION DETAILS

Four bedrock-monitoring wells were installed during the investigation (BRW-1S, BRW-1D, BRW-2S and BRW-2D) for the purpose of collecting ground water samples. The shallow bedrock monitoring wells were completed using 4-inch inside diameter steel casing that was grouted approximately 5-feet into the bedrock. The deeper bedrock monitoring wells were completed next to the shallow wells using 4-inch inside diameter steel casing that was grouted into the bedrock approximately two feet below the bottom of the adjacent shallow wells. Both shallow and deep wells were completed naturally in the bedrock at the termination depths. Bedrock monitoring well construction logs are included in Appendix B.

#### SAMPLING

Water level measurements were obtained with an electronic water level indicator. Ground water samples were collected at the site from the four bedrock-monitoring wells during the coarse of the investigation for laboratory analysis. Ground water samples were collected with disposable bailers. All samples were transferred immediately into laboratory supplied sample containers and placed in a thermally insulated container and chilled. Samples were delivered to the project laboratory within twenty-four hours of sample collection by ERM personnel. Chain of custody procedures were followed during all sample handling and transport. All samples were analyzed by Spectrum Analytical, Inc. (Spectrum) of Agawam, Massachusetts for target compound list (TCL) VOCs by USEPA Method 8260. Samples collected from bedrock monitoring wells BRW-1S, BRW-1D and BRW-2D were also analyzed for Resource Conservation Recovery Act (RCRA) metals. Tables 1-1 & 1-2 presents a summary of sampling results from the ground water samples collected during this investigation.

#### **FINDINGS**

In general, the soil borings encountered eight to sixteen feet of soil overlaying bedrock. A shallow perched saturated zone was encountered on top of the bedrock at all four bedrock well locations. Soils encountered in borings advanced at the site consisted predominantly of a medium to dark brown, fine-grained sand and silt with varying amounts of fine to medium and gravel. Bedrock encountered at the site was classified as gray medium-weathered sitlstone, thin-bedded with some fractures. PID readings were not observed above background levels during bedrock drilling activities.

On 14 March 2004, ground water levels were obtained from the shallow and deep bedrock monitoring wells prior to sampling. Ground water levels were recorded in the shallow wells at 9.14 feet and 39.25 feet in BRW-1S and BRW-2S, respectively. Ground water levels were recorded in the deep wells at 103.26 feet and 72.28 feet in BRW-1D and BRW-2D, respectively.

Ground water flow within the fractured bedrock is difficult to define and is significantly influenced by the presence or absence of vertical joints in

relation to horizontal bedding plane fracture distributions. Due to variable spacing of vertical joints in relation to the variable horizontal bedding plane fracture distributions, ground water flow characteristics in the shallow bedrock is most-likely very different than that in the deeper bedrock. Based on a general knowledge of flow in fractured media, experiences at other locations near Ithaca, and in a literature review conducted as part of this investigation, ERM anticipates that flow is generally to the southwest. Flow is dominated in a lateral direction by the southwesterly dipping bedding planes and vertically by tectonic fracture sets.

#### ANALYTICAL RESULTS

Four ground water samples were submitted to the laboratory for analysis for TCL VOCs by USEPA Method 8260. Three ground water samples were analyzed for RCRA metals. Tables 1-1 and 1-2 (Attachment C) present a summary of ground water analytical data for the samples collected during this investigation. A copy of the laboratory analytical report is included in Attachment D. Ground water sampling records are included in Attachment E.

The bedrock monitoring well sampling event was conducted on 14 March 2004 after the installation of bedrock monitoring wells BRW-1S, BRW-1D, BRW-2S and BRW-2D. VOCs ranged from 1.32 ug/l in monitoring well BRW-2D to 192.23 ug/l in monitoring well BRW-1S. Acetone, benzene, cis-1,2-dichloroethene, trichloroethene and vinyl chloride were detected at concentrations that exceeded NYSDEC Ambient Water Quality Standard and Guidance Values. The detectable VOC concentrations along with the NYSDEC Ambient Water Quality Standard and Guidance Values are summarized on Table 1-1 in Attachment C.

#### CONCLUSIONS

Based on the data obtained during this investigation it appears that affected ground water from the previously identified Areas of Concern (AOC) is affecting bedrock across the site. Several VOCs were detected in the ground water samples obtained from the bedrock wells at concentrations that exceeded NYSDEC Ambient Water Quality Standard and Guidance Values.

If you should have any questions regarding this letter please contact me at 315-445-2554.

Sincerely,

Christopher D. Wunderlich, C.P.G.

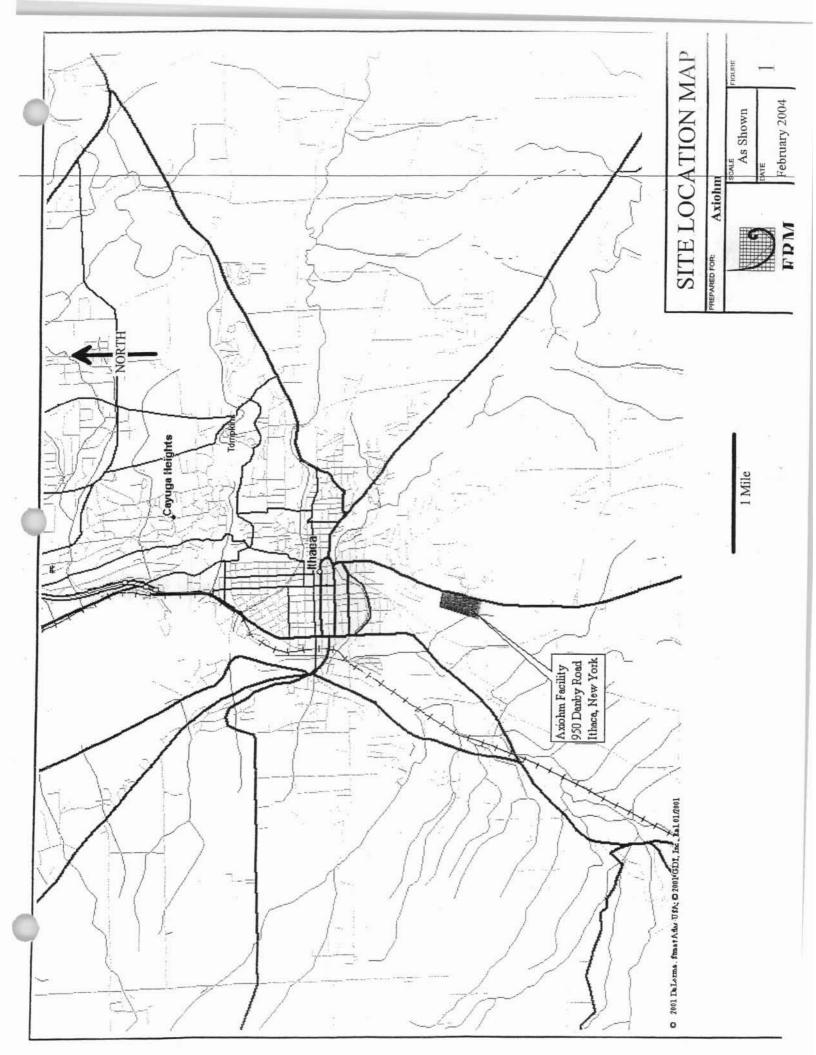
Project Manager

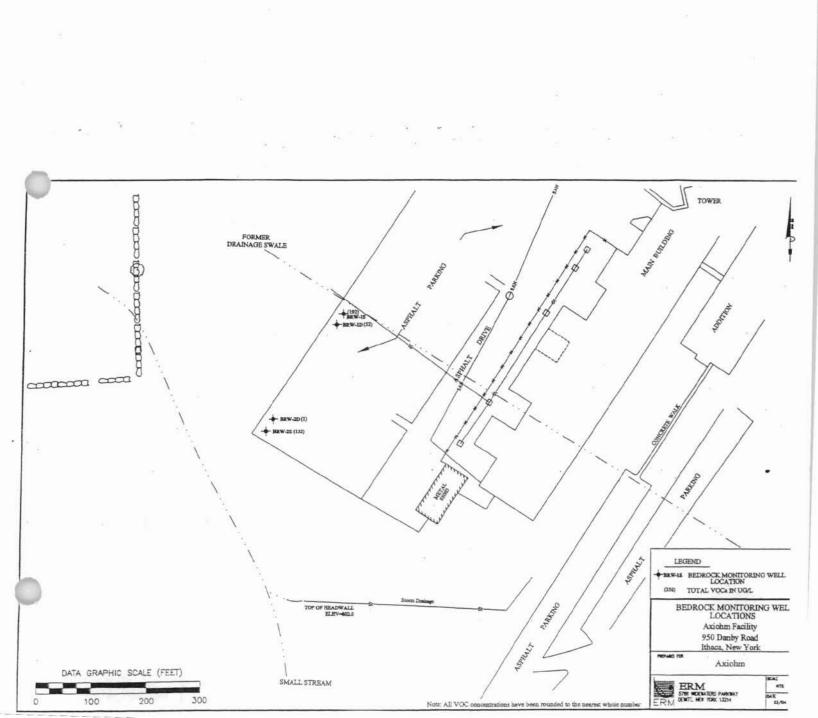
Edward Hinchey, P.G.

Principal

Attachments

# ATTACHMENT A FIGURES

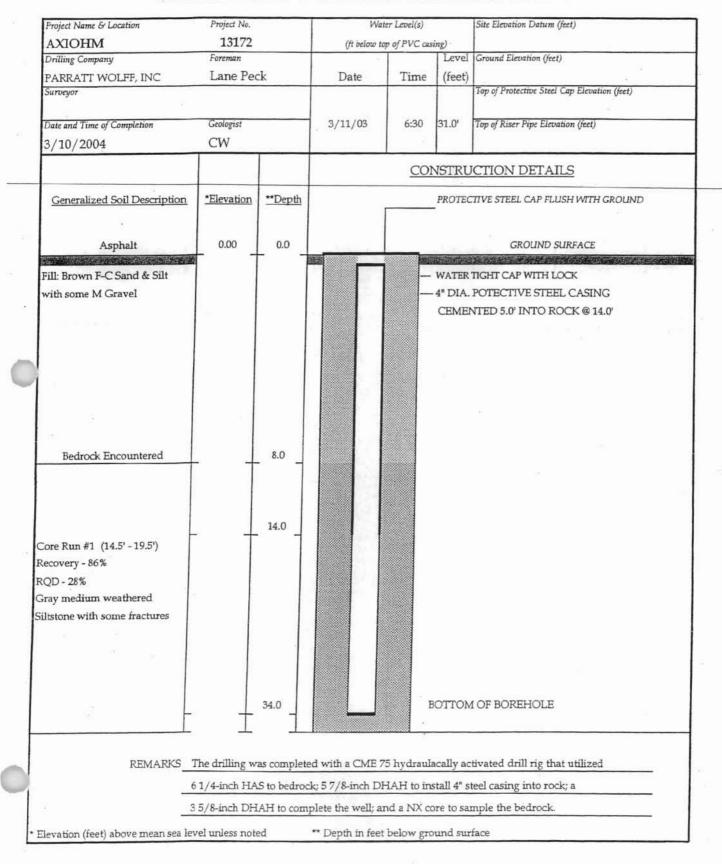




# ATTACHMENT B BORING LOGS

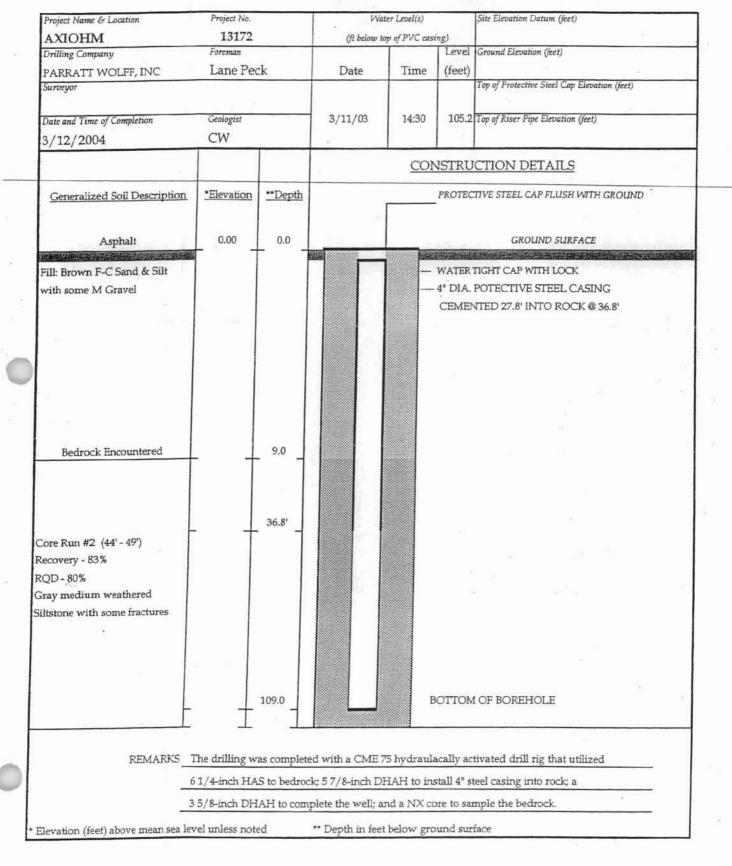
WELL: BRW-1S

5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554



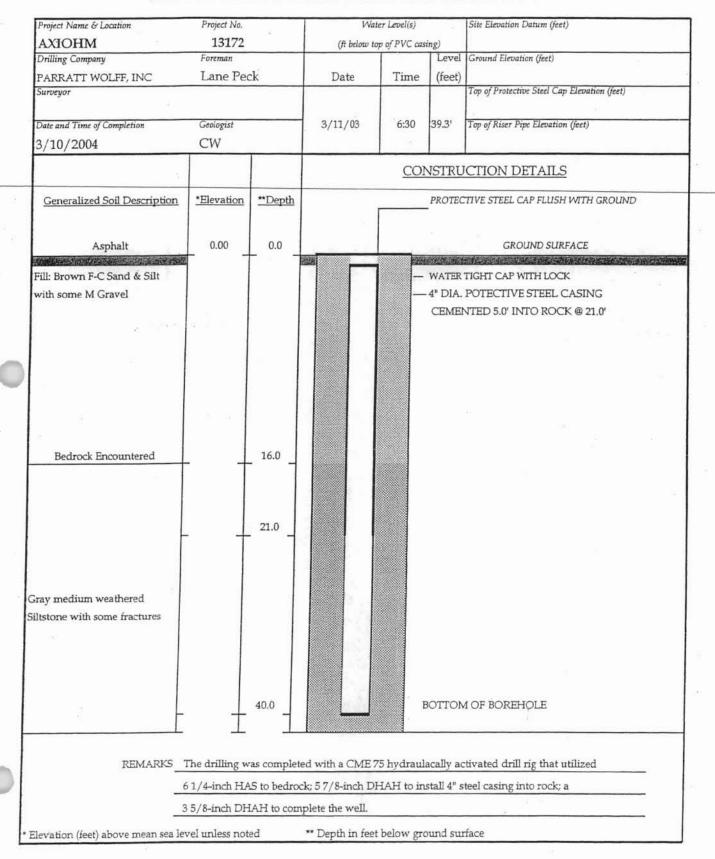
WELL: BRW-1D

5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554



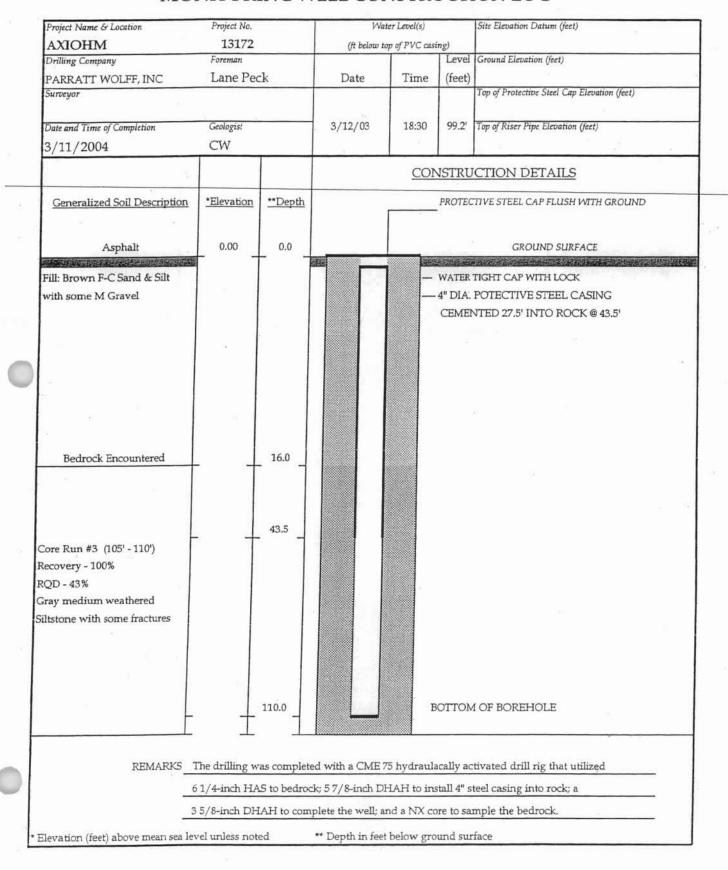
WELL: BRW-2S

5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554



WELL: BRW-2D

5788 Widewaters Parkway, Dewitt, NY 13214 (315) 445-2554



ATTACHMENT C TABLES

# TABLE 1-1 SUMMARY OF VOC DETECTIONS IN GROUND WATER AXIOHM FACILITY ITHACA, NEW YORK ERM PROJECT NUMBER 0013172

SAMPLE ID DATE COLLECTED	Axi BRW-1S 3/14/2004	Axi BRW-1D 3/14/2004	Axi BRW-2S 3/14/2004	Axi BRW-2D 3/14/2004	NYSDEC Standards
VOCs (ug/L)		3 70			
Acetone	7 <u></u> 7	33.8	110	N. 1	50
Benzene		2.74	3.19	-	1
Bromochloromethane	_			_	. 5
2-Butanone (MEK)	_	_	12.8	=	50
n-ButyIbenzene	-	165 <u></u> ;	s <del></del> 3		5
sec-Butylbenzene			( <del></del> ):		5
Chloroform	_				7
Dibromochloromethane		_	_	_	50*
1,1-Dichloroethane	_				5
1,1-Dichloroethene	-6	> -			5
cis-1,2-Dichloroethene	52	52) 11	-		5
trans-1,2-Dichloroethene	3.19		_	_	5
Napthalene		_	1.53	T	10*
1,1,1,2-Tetrachloroethane	_	_	-	-	5
Toluene	1.78	4.06	4.22	1.32	5
1,1,1-Trichloroethane	-6	) -	_		5
Trichloroethene	132	123) -	_	_	5
1,2,4-Trimethylbenzene	- 6	>-			5
Vinyl chloride	3.26	3.26)_			2
TOTAL VOCS	192.23	51.6	131.74	1.32	NA

#### NOTES:

ug/L = Micrograms per liter

VOCs - volatile organic compounds determined by USEPA Method 8260

NYSDEC Standards - NYS Division of Water Technical and Operational Guidance Series (1.1.1) 1998

- = the compound was not detected at a concentration above the laboratory reporting limit
- Bold white type with black background indicates exceedance of the NYSDEC Standards or Guidance Value
- \* indicates guidance value from New York State Ambient Water Quality Standards and Guidance Values June 1998

NA - not applicable

NS - location was not sampled for this parameter

# TABLE 1-2 SUMMARY OF TOTAL METAL DETECTIONS IN GROUND WATER AXIOHM FACILITY ITHACA, NEW YORK ERM PROJECT NUMBER 0013172

SAMPLE ID DATE COLLECTED	Axi BRW-1S 3/14/2004	Axi BRW-1D - 3/14/2004	Axi BRW-2S 3/14/2004	Axi BRW-2D 3/14/2004	NYSDEC Standards
Total Metals (mg/L)					
Silver			NS		0.05
Arsenic	S-2-2-1	0.0322	NS	0.0138	0.025
Barium	0.304	0.322	NS	0.109	1
Cadmium	0.0167		NS		0.005
Chromium	0	0.252	NS	0.103	0.05
Mercury	_	_	NS		0.7
Lead		0.007	NS	_	0.025
Vanadium		\	NS		NG
Selenium			NS NS	. —	0.2

#### NOTES:

ug/L = Micrograms per liter

NYSDEC Standards - NYS Division of Water Technical and Operational Guidance Series (1.1.1) 1998

- = the compound was not detected at a concentration above the laboratory reporting limit
- Bold white type with black background indicates exceedance of the NYSDEC Standards or Guidance Value

NG - no guidance value or standard provided

NS - location was not sampled for this parameter

# ATTACHMENT D ANALYTICAL DATA

# ATTACHMENT E GROUND WATER SAMPLING LOGS

DD OTHOR LTD CO	F =			DAT	E	3-14-1	0-1	61
PROJECT NUMBI		3172						
SAMPLE ID:	1x1-BRW-	1.5					Ē.	
WELL ID : BI	RW-15		Time	Onsite:	T	ime Offsite:		
SAMPLERS:	Chris Word	erlich		_12	00		1500	
(				ÿ			-	
Depth of well							:	
Static water le							·	
Water level af	ter purging (fr	om top of	casing)	1_		Time	:	
Water level be	fore sampling	(from top	of casin	g)		Time	:	
Purging Method	d:	W	ell Vol	ume Calcul	ation:	1 vol	lume 3	volume
Airlift	Low-Flow	Pump	2 in. well:	ft. of w	ater x 0.16		gal. x3=	gal.
★ Bailer	Peristaltic			ft. of wa			·	gal.
Submersible	Ded. Pump			ft. of wa	The second second		_gal. x3=_	
Volume of w	ater removed:	)	6 in. well:	ft. of wa	ater x 1.47		_gal. x3=_	gal.
8-San		>3 vo	lumes: yes	s no		purged dry?	yes 🗶	no
, ,	00 3-12-04		,		_		· —	
Field Tests:						2		
	pH Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	- mg/cm	NTU	g/L	C F	-	-	g/L	mV
Initial 1 Volume								
2 Volumes								
3 Volumes								_
	543							
Sampling Time of Sample  Collection Meth  Disposabl  Teflon bai  Dedicated Submersit	od: le bailer iler I pump		lyses:  VOC SVO	Cs _		hod: 503.1	Other_	
Sampling Time of Sample  Collection Meth  Disposable Teflon bai Dedicated Submersib	od: le bailer iler I pump ole Pump Sampling	Ana	lyses:  VOC  SVO  Meta  PCB, MN/	Cs - 8260 Cs - 8260 A - 8260 - 82			Other_	
Sampling Time of Sample  Collection Meth  Disposable Teflon bai Dedicated Submersib	od: le bailer iler I pump ole Pump	Ana	lyses: VOC SVO Meta	Cs - 8260 Cs - 8260 A - 8260 - 82			Other_	
Sampling Time of Sample Collection Meth Lisposable Teflon bai Dedicated Submersit Low-Flow Other:	od: le bailer iler I pump ble Pump Sampling	Ana	lyses:  VOC  SVO  Meta  PCB, MNA  Othe	Cs - 8260   CS   Representation			Other_	
Time of Sample  Collection Meth	od: le bailer iler I pump ble Pump Sampling	Ana	lyses:  VOC  SVO  Meta  PCB, MNA  Othe	Cs - 8260   CS   Representation	<u> </u>	503.1	Other_	
Time of Sample  Collection Meth  Loisposable  Teflon bai  Dedicated  Submersit  Low-Flow  Other:	od: le bailer iler l pump ole Pump Sampling	Ana	lyses: VOC SVO Meta PCB MN/ Othe	Cs - 8260 CCs - 8260 CS - 8260 A - 8260	<u>∝</u> :	503.1		
Sampling Time of Sample Collection Meth  Losposable Teflon bai Dedicated Submersit Low-Flow Other: Descriptions Weather/Tempersit	od: le bailer iler l pump ble Pump Sampling rature:	Ana	lyses:  VOC  SVO  Meta  PCB,  MN/ Othe	Cs - 8260 Ccs als /Pest _ A	α_ :	503.1		+
Sampling Time of Sample  Collection Meth  Lossposable  Teflon bai  Dedicated  Submersit  Low-Flow Other:  Observations  Weather/Temper  Sample Descripti  Free Produ	od: le bailer iler l pump ble Pump Sampling rature:	Anal	lyses:  VOC  SVO  Meta  PCB  MN/ Othe	Cs - 8260 Cs - 8	≼_ :	503.1		+:
Sampling Time of Sample Collection Meth  Disposabl Teflon bai Dedicated Submersit Low-Flow Other: Dbservations Weather/Tempersit Sample Descripti Free Produ	od: le bailer iller l pump ole Pump sampling  rature:  on:  Gray Be uct? yes	Ana  Ana  Ana  Ana  Ana  Ana  Ana  Ana	lyses:  VOC  SVO  Meta  PCB  MN/ Othe	Cs - 8260   NCs   als   /Pest   A   -   ribe   ribe   ribe	≼_ :	503.1		+:
Sampling Time of Sample Collection Meth  Disposabl Teflon bai Dedicated Submersit Low-Flow Other: Dbservations Weather/Tempersit Sample Descripti Free Produ	od: le bailer iller l pump ble Pump Sampling  rature:  on:  Gray/Be uct? yes  reen? yes  recons	Ana  Ana  Ana  Ana  Ana  Ana  Ana  Ana	lyses:  VOC  SVO  Meta  PCB,  MN/ Othe	Cs - 8260   NCs   als   /Pest   A   -   ribe   ribe   ribe	≼_ :	503.1		+2

	m				2	DAT	E	ک	-14-2	94	_	
PROJECT NUMB	ER:	0813	72									
SAMPLE ID:	AxI-			7								
		- ID				Time	Onsite	2:	Tin	ne Offsite	2:	
	-	- Wind	-1:5		•	12	00			1500		
	SAM	Wird	20017					_	-	,,,,,,	-	
									-		-0	
Depth of well	(from	top of cas	sing)			]	09'		Time:		(1)	
Static water le	evel (fr	rom top of	casing)			10	3.2	6	Time:	C		
Water level at								-	Time:		_	
Water level be	1997	A THE MARKET		(50)				_	Time:		T .	
Purging Metho	۵.		Λ	Jell Vo	lume	Calcu	ation		1 volu	me 3	3 volumes	
Airlift		Low-Flow P		2 in. wel		ft. of w			1 7014			
∠ Bailer		Peristaltic Pu	- 2	3 in. well	_		ater x 0.3			al. x3=		
Submersible		Ded. Pump		4 in. well	_		ater x 0.6			al. x3=		
	-			6 in. well	:	ft. of w	ater x 1.4	7 =		al. x3=		
Volume of w	rater ren		~10211		-1. V.M							
_3.6		gal.	>3 v	olumes: y	es _	_ no		pur	ged dry?	yes _	no	
Field Tests:	on	3-12-04										
Tiera Tests.	pН	Cond.	Turb.	DO	Т	emp.	DEP	5	SAL	TDS	ORP	7
uruts		mg/cm	NTU.	g/L	0		-		-	g/L	mV	1
Initial												F 201
1 Volume												
2 Volumes											-	1
3 Volumes										1		
3 volumes												1
												1
Sampling	: Collec	ction:	133	80								, _
Sampling Time of Sample		ction:	133							1		
Sampling Time of Sample Collection Meth	nod:		Ana	alyses:		Analyt						
Sampling Time of Sample Collection Meth	nod: ole bailer		Ana	alyses:	OCs -	-	ical Me			Other	3	
Sampling Time of Sample Collection Meth Disposab	nod: ole bailer ailer		Ana	alyses: <vosv< td=""><td>OCs</td><td>-</td><td></td><td></td><td></td><td>Other</td><td></td><td></td></vosv<>	OCs	-				Other		
Sampling Time of Sample Collection Meth Disposab Teflon ba	nod: ole bailer ailer d pump		Ana	alyses:  VC SV Me	OCs etals	8260				Other		
Sampling Time of Sample Collection Meth Disposab Teflon ba Dedicated Submersi	nod: ble bailer ailer d pump ible Pum	р	Ana	Alyses: VC SV Me	OCs etals B/Pest	8260				Other		
Sampling Time of Sample Collection Meth Disposab Teflon ba Dedicated Submersi	nod: ble bailer ailer d pump ible Pum v Sampli	р	Ana	Alyses:  VC SV Me PC MIN	OCs etals B/Pest NA	8260				Other		
Sampling Time of Sample Collection Meth Disposab Teflon ba Dedicated Submersi Low-Flow Other:	nod: ble bailer ailer d pump ible Pum v Sampli	р	Ana	Alyses: VC SV Me	OCs etals B/Pest NA	8260				Other		
Sampling Time of Sample Collection Meth Disposab Teflon ba Dedicated Submersi	nod: ble bailer ailer d pump ible Pum v Sampli	p ing	Ana	Alyses:  VC SV Me PC MIN	OCs etals B/Pest NA	8260				Other		
Sampling Time of Sample Collection Meth Disposab Teflon ba Dedicated Submersi Low-Flow Other:	nod: ole bailer ailer d pump ible Pum v Sampli	P ing	Ana	Alyses:  VC SV Me PC MIN	OCs etals B/Pest NA ner	8260				Other		
Sampling Time of Sample Collection Meth Disposab Teflon ba Dedicate Submersi Low-Flow Other:	nod: ble bailer ailer d pump ible Pum v Sampli	p ing	Ana	Alyses:  VC SV Me PC MIN Oth	OCs etals B/Pest NA ner	8260 - -				Other		
Sampling Time of Sample Collection Meth Disposab Teflon ba Dedicated Submersi Low-Flow Other: Dbservations Weather/Tempe	nod:  ble bailer  aller d pump  ble Pum  Sampli  erature	Pring: 4	Ana	Alyses:  VC SV Me PC MN Oth	OCs etals B/Pest NA ner	8260 - -				Other		
Sampling Time of Sample Collection Meth  Disposab Teflon ba Dedicated Submersi Low-Flow Other: Dbservations Weather/Tempe Sample Descript Free Prod	nod:  ble bailer  aller d pump  ble Pum  Sampli  erature	p ing : 4.	Ana	Alyses:  VC SV Me PC MI Oth	OCs etals B/Pest NA ner	8260 - -				Other		
Sampling Time of Sample Collection Meth Disposab Teflon ba Dedicate Submersi Low-Flow Other: Dbservations Weather/Tempe Sample Descript Free Prod	nod:  ble bailer  d pump  ble Pum  v Sampli  erature  ion:  duct? y  een? y	p ing : 4.	Ana	Alyses:  VO SV Me PC Mi Oth	OCs etals B/Pest NA ner cribe cribe	8260 - -				Other		
Sampling Time of Sample Collection Meth  Disposab Teflon ba Dedicated Submersi Low-Flow Other: Dbservations Weather/Tempe Sample Descript Free Prod	nod:  ble bailer  d pump  ble Pum  v Sampli  erature  ion:  duct? y	p ing : 4.	Ana	Alyses:  VO SV Me PC Mi Oth	OCs etals B/Pest NA ner stiffy cribe	8260 - -				Other		
Sampling Time of Sample Collection Meth  Disposab Tefion ba Dedicated Submersi Low-Flow Other: Dbservations Weather/Tempe Sample Descript Free Prod Shoomments:	nod:  ble bailer  d pump  ble Pum  v Sampli  erature  ion:  duct? y  een? y	p ing : 4.	Ana	Alyses:  VO SV Me PC Mi Oth	OCs etals B/Pest NA ner cribe cribe	8260 - -				Other		

PROJECT NUMI	m				DAT	E_ 3	3-14-06	+	
		0013	172			1.00-1.00-1.00			
SAMPLE ID :	-								
	BRW-				Time	Onsite:	Tir	ne Offsite:	
SAMPLERS:	100	Wind	chis		120	D		1500	
<u> </u>	Chrw	Down,	7 110-1						
Depth of we	II (from	top of cas	sing)		4	0.001	Time:		10
Static water				7			Time:		
Water level a							Time:		
Water level l							Time:		
Purging Metho	od.		W	ell Voli	ıme Calcul	ation:	1 volu	ime 3 v	olumes
Purging Method:  Airlift Low-Flow Pump				2 in. well:		ater x 0.16 =	1070 J. O. W. C. C.	gal. x3=	gal.
Bailer			-	3 in. well:		ater x 0.36 =		gal. x3=	gal.
Submersible				4 in. well:	ft. of wa	ater x 0.65 =		gal. x3=	gal.
2020		- Section 201		6 in. well:	ft. of wa	ater x 1.47 =		gal. x 3 =	gal.
Volume of			>2	1				N	
0.9	00 3+12	gal.	>3 VO	olumes: yes	no	1	purged dry?	yes 🔀	no
Field Tests:	3.12	-01							
	pН	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
unit	s -	mg/cm	NTU	g/L	C F			g/L	mV
Initial								12	
1 Volume	$\vdash$								
2 Volumes									
3 Volumes									
Sampling									
Time of Samp	le Collec	tion:	1400	)					
	thad.		Ana	lyses:	A malket				
C-IILine Ma	mou.		Alla	Tyses.		and Math	od.		
Collection Me	Lla bailor		0	VOC		ical Meth		Other	
_ ★ Disposa	able bailer			VOC	Cs - 8260		od: 03.1	Other_	
Disposa Teflon l	bailer			VOC SVO	Cs - 8260 CS	<b>≪</b> _ 5	03.1	_	د محمد
✓ Disposa Teflon l				SVO	Cs - 8260 CS	<b>≪</b> _ 5	03.1	Other_	5
✓ Disposa Teflon l Dedicat Submer	bailer ted pump	P		SVO	Cs - 8260 Cs als /Pest	<b>≪</b> _ 5	03.1	_	5
Disposa Teflon l Dedicat Submer Low-Flo	bailer ted pump sible Pumj	P ng		SVO Meta PCB	Cs - 8260 CCs als /Pest	<b>≪</b> _ 5	03.1	_	5
Disposa Teflon l Dedicat Submer Low-Fle Other:	bailer ted pump sible Pump ow Sampli	P ng		SVO  Meta PCB MNA	Cs - 8260 CCs als /Pest	<b>≪</b> _ 5	03.1	_	5
Disposa Teflon l Dedicat Submer Low-Fk Other:  Observations	bailer ned pump sible Pump ow Sampli	p ng		SVO Meta PCB MNA Othe	Cs - 8260 CCs als /Pest A	<b>≪</b> _ 5	03.1	_	5
Dispose Teflon l Dedicat Submer Low-Fle Other:  Dbservations Weather/Temp	bailer ned pump sible Pump ow Sampli	p ng		SVO	Cs - 8260 Ccs als /Pest A	<b>≪</b> _ 5	03.1	_	5-mp)
Disposa Teflon l Dedicat Submer Low-Fk Other:  Dbservations Weather/Temp Sample Descrip	bailer ted pump sible Pump ow Sampli overature:	p ng : Gray	- Brow	SVC  Meta PCB MNA Othe	Cs - 8260 Ccs als /Pest A	<b>≪</b> _ 5	03.1	_	rp)
Disposa Teflon l Dedicat Submer Low-Fle Other:  Dbservations Weather/Temp Sample Descrip Free Pro	bailer  ted pump sible Pump ow Sampli  perature: ption:	P ng Gray	430 - Brow	PCB MN/A Other	Cs - 8260 CS als /Pest - A	Not en	ومد ك وده	ter to	
Disposa Teflon l Dedicat Submer Low-Fk Other:  Dbservations Weather/Temp Sample Descrip Free Pro	bailer ted pump sible Pump ow Sampli overature: otion: oduct? ye heen? ye	p ng	- Brown	SVO  Meta PCB MNA Othe	Cs - 8260 CCs als /Pest A cr  ribe ribe	Not en	ومد ك وده	_	
Disposa Teflon I Dedicat Submer Low-Fle Other:  Dbservations Weather/Temp Sample Descrip Free Pro	bailer ted pump sible Pump ow Sampli overature: otion: oduct? ye heen? ye	P ng Gray	- Brown	PCB MN/A Other	Cs - 8260 CCs als /Pest A cr  ribe ribe	Not en	ومد ك وده	ter to	
Disposa Teflon I Dedicat Submer Low-Fle Other:  Dbservations Weather/Temp Sample Descrip Free Pro S comments:	bailer ted pump sible Pump ow Sampli overature: otion: oduct? ye heen? ye	p ng	- Brown	SVO  Meta PCB MNA Othe	Cs - 8260 CCs als /Pest A cr  ribe ribe	Not en	ومد ك وده	ter to	

PROJECT NUMBER:  SAMPLEID: All BRW - 2D  WELL ID: BRW - 2D  WELL ID: BRW - 2D  Time Onsite: Time Offsite:  SAMPLERS: Chriv Lywlerich  Depth of well (from top of casing)  Depth of well (from top of casing)  Water level after purging (from top of casing)  Water level before sampling (from top of casing)  Time:  Water level before sampling (from top of casing)  Time:  Water level before sampling (from top of casing)  Time:  Water level before sampling (from top of casing)  Time:  Water level before sampling (from top of casing)  Time:  Water level before sampling (from top of casing)  Time:  Water level before sampling (from top of casing)  Time:  Water level before sampling (from top of casing)  Time:  Water level before sampling (from top of casing)  Time:  Water level before sampling (from top of casing)  Time:  Water level before sampling (from top of casing)  Time:  Water level before sampling (from top of casing)  Time:  Water level before sampling (from top of casing)  Time:  Water level before sampling (from top of casing)  Time:  Water level before sampling (from top of casing)  Time:  Water level before sampling (from top of casing)  Time:  Water level before sampling (from top of casing)  Time:  Ti	PRO	Axioh	~				DAT	TE	3-14-04	4	
SAMPLE ID: Ax1 - BRW - 20  WELL ID: BRW-2P  SAMPLERS: Chart Workerlies  Depth of well (from top of casing)				0013	172						
Time Onsite:   Time Offsite:   SAMPLERS:   Chriz   Depth of well (from top of casing)   110				BRW -	20						
Depth of well (from top of casing)  Depth of well (from top of casing)  Static water level (from top of casing)  Water level after purging (from top of casing)  Water level before sampling (from top of casing)  Time:  Water level after purging (from top of casing)  Time:  Water level after purging (from top of casing)  Time:  Water level after purging (from top of casing)  Time:  Water level after purging (from top of casing)  Time:  Water level after purging (from top of casing)  Time:  Water level after purging (from top of casing)  Time:  Water level after purging (from top of casing)  Time:  Water level after purging (from top of casing)  Time:  Water level after purging (from top of casing)  Time:  Water level after purging (from top of casing)  Time:  Water level after purging (from top of casing)  Time:  Water vola a volume 3 volume 3 volume 3 volume 3 volume 3 volume 4 and							Time	ime Offsite:			
Depth of well (from top of casing)							15	200		1500	
Static water level (from top of casing)  Water level after purging (from top of casing)  Water level before sampling (from top of casing)  Water level before sampling (from top of casing)  Water level before sampling (from top of casing)  Well Volume Calculation:  1 volume  3 volumes  A riffit  Low-Flow Pump 2 in, well:  Bailer  Peristalic Pump 3 in, well:  ft. of water x 0.16 = gal. x3 = gal.  x3 = gal.  Submersible  Ded Pump 4 in, well:  ft. of water x 0.65 = gal. x3 = gal.  6 in, well:  25-35 gal.  S volumes: yes  no purged dry? yes x no  volume of water removed:  25-35 gal.  S volumes: yes  no purged dry? yes x no  Field Tests:  Field Tests:  PH Cond. Turb. DO Temp. DEP SAL TDS ORP  units - mg/cm NTU g/L C F g/L mv  Initial  1 volume 2 Volumes 3 volumes  3 volumes  Collection Method:  Analyses:  Analytical Method:  Analyses:  Dedicated pump  Submersible Pump  Dedicated pump  Submersible Pump  Dedicated pump  Submersible Pump  Dedicated pump  Submersible Pump  Dedicated pump  Other  Other  Other  Other  Other  Semple Description:  Free Product? yes no describe  Sheen? yes no describe  Sheen? yes no describe  Odor? yes no describe	011111	. D	110	20.72					<del></del>		
Static water level (from top of casing)  Water level after purging (from top of casing)  Water level before sampling (from top of casing)  Water level before sampling (from top of casing)  Water level before sampling (from top of casing)  Well Volume Calculation:  1 volume  3 volumes  A riffit  Low-Flow Pump 2 in, well:  Bailer  Peristalic Pump 3 in, well:  ft. of water x 0.16 = gal. x3 = gal.  x3 = gal.  Submersible  Ded Pump 4 in, well:  ft. of water x 0.65 = gal. x3 = gal.  6 in, well:  25-35 gal.  S volumes: yes  no purged dry? yes x no  volume of water removed:  25-35 gal.  S volumes: yes  no purged dry? yes x no  Field Tests:  Field Tests:  PH Cond. Turb. DO Temp. DEP SAL TDS ORP  units - mg/cm NTU g/L C F g/L mv  Initial  1 volume 2 Volumes 3 volumes  3 volumes  Collection Method:  Analyses:  Analytical Method:  Analyses:  Dedicated pump  Submersible Pump  Dedicated pump  Submersible Pump  Dedicated pump  Submersible Pump  Dedicated pump  Submersible Pump  Dedicated pump  Other  Other  Other  Other  Other  Semple Description:  Free Product? yes no describe  Sheen? yes no describe  Sheen? yes no describe  Odor? yes no describe		-					-		=		
Static water level (from top of casing)  Water level after purging (from top of casing)  Water level before sampling (from top of casing)  Water level before sampling (from top of casing)  Water level before sampling (from top of casing)  Well Volume Calculation:  1 volume  3 volumes  A riffit  Low-Flow Pump 2 in, well:  Bailer  Peristalic Pump 3 in, well:  ft. of water x 0.16 = gal. x3 = gal.  x3 = gal.  Submersible  Ded Pump 4 in, well:  ft. of water x 0.65 = gal. x3 = gal.  6 in, well:  25-35 gal.  S volumes: yes  no purged dry? yes x no  volume of water removed:  25-35 gal.  S volumes: yes  no purged dry? yes x no  Field Tests:  Field Tests:  PH Cond. Turb. DO Temp. DEP SAL TDS ORP  units - mg/cm NTU g/L C F g/L mv  Initial  1 volume 2 Volumes 3 volumes  3 volumes  Collection Method:  Analyses:  Analytical Method:  Analyses:  Dedicated pump  Submersible Pump  Dedicated pump  Submersible Pump  Dedicated pump  Submersible Pump  Dedicated pump  Submersible Pump  Dedicated pump  Other  Other  Other  Other  Other  Semple Description:  Free Product? yes no describe  Sheen? yes no describe  Sheen? yes no describe  Odor? yes no describe	Ι	Depth of well	(from	top of cas	sing)			0'	Time	:	
Water level after purging (from top of casing)	9	Static water le	vel (fr	om top of	casing)			2.28'			
Water level before sampling (from top of casing) Time:  Purging Method: Well Volume Calculation: 1 volume 3 volumes:  Airlift Low-Flow Pump 2 in. well: ft. of water x 0.16 = gal. x 3 = gal.  Bailer Peristaltic Pump 3 in. well: ft. of water x 0.36 = gal. x 3 = gal.  Submersible Ded Pump 4 in. well: ft. of water x 0.65 = gal. x 3 = gal.  Submersible Ded Pump 4 in. well: ft. of water x 0.65 = gal. x 3 = gal.  Volume of water removed:  25-35 gal. >3 volumes: yes no purged dry? yes x no of 3-12-04  Field Tests:  pH Cond. Turb. DO Temp. DEP SAL TDS ORP Initial 1 volume 2 volumes 3 volumes 4 vocs - gal. x 3 = gal.  Collection Method: Analyses: Analytical Method: x Disposable bailer x vocs - gal. x 3 =							-				
Purging Method:   Well Volume Calculation: 1 volume 3 volume											
Airlift	Y	valer lever be	TOTE SE	LITPLING (	nom top	or cuonie	) <u></u>				
Airlift	Purg	ing Method	1:		W	ell Volu	ıme Calcu	lation:	1 vol	lumė 3 v	olumes
Submersible				ow-Flow P	ump	2 in. well:	ft. of w	ater x 0.16	5=	_gal. x 3 = _	gal.
Volume of water removed:  26-35 gal	В	ailer	F	eristaltic Pu	-	-		ater x 0.36	j ==	gal. x3=	gal.
Volume of water removed:  26-35  gal. >3 volumes: yes no purged dry? yes X no  3-12-04  Field Tests:     PH	Sı	ubmersible		oed. Pump		-					
Field Tests:    PH   Cond.   Turb.   DO   Temp.   DEP   SAL   TDS   ORP				avad	(	6 in. well:	ft. of w	ater x 1.47	=	_gal. x3=_	gal.
Field Tests:    pH   Cond.   Turb.   DO   Temp.   DEP   SAL   TDS   ORP     units   mg/cm   NTU   g/L   C   F   g/L   mV     Initial   1 Volume   2 Volumes   3 Volumes   3 Volumes   3 Volumes   3 Volumes   4 3 D     Collection Method:   Analyses:   Analytical Method:					>3 20	lumes: ves	no		nurged dry?	vec X	no.
Field Tests:    pH   Cond.   Turb.   DO   Temp.   DEP   SAL   TDS   ORP     units   mg/cm   NTU   g/L   C   F		25-32	2-1	2-04	-5,0	iunics. Jus			purgeu ury.	100 7	
Unitial   1 Volume   2 Volumes   3 Volumes   3 Volumes   3 Volumes   3 Volumes   4 30	Field	Tests:	, , ,	7 (4)	Tall						17
Initial  1 Volume  2 Volumes  3 Volumes  3 Volumes  Collection Method:  Disposable bailer  Teflon bailer  Dedicated pump  Submersible Pump  Low-Flow Sampling  Other  Deservations  Weather/Temperature:  Sample Description:  Free Product? yes  Odor? yes  Describe  Odor? yes  No describe  Odor? yes  No describe  Omments:			pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
1 Volume 2 Volumes 3 Volumes 3 Volumes  Time of Sample Collection:  Collection Method:  Analyses:  Analytical Method:  VOCs - 8260 \( \sqrt{200}\) 503.1  Other  Teflon bailer  Dedicated pump  Submersible Pump  Low-Flow Sampling  Other:  Other  Other  Other  Sample Description:  Sample Description:  Sheen? yes  Odor? yes  Total of the state o		units	-	mg/cm	NTU	g/L	C F	-		g/L	шV
2 Volumes 3 Volumes  Time of Sample Collection:  Collection Method:  Disposable bailer  Teflon bailer  Dedicated pump  Submersible Pump  Low-Flow Sampling  Other:  Description:  Sample Description:  Sample Description:  Sheen? yes  Odor? yes  Doduction:  Analytical Method:  Analytical		Initial									- 1
Sampling Time of Sample Collection:  Collection Method:  Disposable bailer Teflon bailer Dedicated pump Submersible Pump Low-Flow Sampling Other:  Description:  Weather/Temperature:  Sample Description:  Since Blow Blows - 511 fy Free Product? yes Sheen? yes Odor? yes Domments:  Analytical Method:  Analyt					_						_
Time of Sample Collection: 1430  Collection Method: Analyses: Analytical Method:  \( \times \) Disposable bailer \( \times \) VOCs - 8260 \( \times \) 503.1 \( \times \) Other  Teflon bailer \( \times \) Metals  Submersible Pump \( \times \) Collection MNA  Other: Other  Other  Other  Disposable bailer \( \times \) VOCs - 8260 \( \times \) 503.1 \( \times \) Other  Sequence Dedicated pump \( \times \) Metals  Submersible Pump \( \times \) PCB/Pest  Low-Flow Sampling \( \times \) MNA  Other: Other  Oth	-		_			-				1 08	
Time of Sample Collection: 1430  Collection Method: Analyses: Analytical Method:    Disposable bailer		3 Volumes									
Other:  Other:	Ti	me of Sample  ollection Meth  Disposable  Teflon ba	od: le bailer ller		Anal	yses: VOC SVOX	s - 8260 Cs			Other_	
Disservations  Weather/Temperature: 480 P-Cloudy  Sample Description: 600 Brews - 511 ty  Free Product? yes no describe  Sheen? yes no describe  Odor? yes no describe	c 	Submersit				MNA					
Weather/Temperature: 480 P-Cloudy  Sample Description: Gray Brown - 511 ty  Free Product? yes no describe  Sheen? yes no describe  Odor? yes no describe		Submersit	Sampli	ng	- 18		9				
Sample Description:    Gray Breen - Silty		Submersit	Sampli	ng	-		9		4		
Free Product? yes no describe Sheen? yes no describe Odor? yes no describe omments:	Dbserv	Submersit Low-Flow Other:  vations	Sampli	ng		Other			1		b
Sheen? yes no describe Odor? yes no describe	)bserv	Submersit Low-Flow Other:  vations eather/Tempe	Sampli rature:		-	-Cloudy	-		*	-	÷
Odor? yes no describe	)bserv	Submersit Low-Flow Other:  vations eather/Tempe	Sampli rature:		-	- Cloudy - 511 f					b o st
omments:	Dbserv We	Submersit Low-Flow Other:  vations eather/Tempe nple Descripti	Sampli rature:	He Gray	Brema	- Cloudy - 511 f	iha				£
	)bserv	Submersit Low-Flow Other:  vations eather/Tempe nple Descripti	rature:		Brewn L	Other (   oud) -   s       descri	ibe				h =
	)bserv	Submersit Low-Flow Other:  vations eather/Tempe nple Descripti Free Prod	rature: on: uct? ye		Brewn	- Cloudy - Silf descri	j ibeibe				5.
(MADIE)	)bserv We San	Submersit Low-Flow Other:  vations eather/Tempe nple Descripti Free Prod She	rature: on: uct? ye		Brewn	- Cloudy - Silf descri	j ibeibe				the second