Arch Chemicals, Inc. P. O. Box 800 1200 Lower River Road Charleston, TN 37310 Tel (423) 780-2724



February 17, 2005

Mr. James H. Craft New York State Department of Environmental Conservation 6274 East Avon-Lima Road Avon, NY 14414

Re: Arch Rochester Fall 2004 Groundwater Monitoring Report Arch Chemicals (Site #628018a) 100 McKee Rd., Rochester, NY

Dear Mr. Craft:

The enclosed report presents the results of an on-going groundwater and surface water monitoring program being conducted by Arch Chemicals, Inc., at its Rochester, New York, manufacturing facility. Results in this report include surface and groundwater samples collected from November 15 through December 6, 2004.

If you have any questions regarding this submittal, please call me at (423) 780-2175.

Sincerely,

Gayle M. Taylor / jub Gayle M. Taylor

Manager, Environmental Issues

Arch Chemicals, Inc.

encl.

cc (w/encl): Bart Putzig, NYSDEC

Renee Gelblat, USEPA Region II Ron Skipp, Arch Chemicals, Inc.

Jeffrey Brandow, MACTEC Engineering & Consulting, P.C.

SURFACE WATER AND GROUNDWATER MONITORING PROGRAM FALL 2004 MONITORING REPORT

ARCH CHEMICALS
ROCHESTER PLANT SITE
ROCHESTER, NEW YORK

ARCH CHEMICALS, INC. CHARLESTON, TENNESSEE

February 2005

SURFACE WATER AND GROUNDWATER MONITORING PROGRAM **FALL 2004 MONITORING REPORT**

ARCH CHEMICALS ROCHESTER PLANT SITE ROCHESTER, NEW YORK

Prepared by

MACTEC Engineering & Consulting, P.C. Portland, Maine

for

ARCH CHEMICALS, INC. Charleston, Tennessee

February 2005

This document was prepared for the sole use of Arch Chemicals, Inc., the only intended beneficiary(ies) of our work. No other party shall rely on the information contained herein without prior written consent of MACTEC Engineering & Consulting, P.C.

Nelson M. Breton, C.G. **Project Geologist**

Principal Engineer

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EXECUTIVE SUMMARY

This monitoring report presents the results of an on-going groundwater and surface water monitoring program being conducted by Arch Chemicals, Inc., at its Rochester, New York, manufacturing facility. Results in this report include surface and groundwater samples collected from November 15 to December 6, 2004.

During this monitoring event, samples from a total of 23 groundwater monitoring or pumping wells and ten locations associated with the Dolomite Products Quarry seep and outfall (including two canal samples) were collected and analyzed by Severn Trent Laboratories in Amherst, New York.

As in prior reports, monitoring results were compared with previous average concentrations at each sampling location. Out of the 26 regular monitoring locations sampled for chloropyridines, three had contaminant concentrations exceeding their respective 5-year prior averages. For the 25 routine monitoring locations sampled for volatile organic compounds, only one had a concentration exceeding the 5-year prior average. Contaminant contour plots are generally consistent with past observations.

Regular sampling locations associated with the quarry included the main quarry seep (QS-4), the quarry discharge as it enters the Erie Barge Canal (QO-2), and the surface water in the canal approximately 100-feet downstream of the quarry discharge (QO-2S1). Along with these routine quarry sampling locations, seven additional samples were collected for chloropyridine and VOC analysis. These seven samples were added at the request of the NYSDEC to confirm that potential exposures to site-related contaminants are below levels of regulatory concern, and included:

- Three additional seep samples;
- One sample from the runoff collection pond inside the quarry;
- One sample of the discharge of the quarry dewatering system as it enters the surface ditch at the rim of the quarry;
- One sample from the surface ditch approximately mid-way from the quarry to the Barge Canal; and
- One upstream sample of the Barge Canal at the Buffalo Road bridge.

The sample from quarry seep QS-4 remained below its historical average. The additional quarry seep samples were all at lower concentrations than QS-4, which is consistent with data collected during the Remedial Investigation program. The seep sample from the southern wall of the quarry had no detectable chloropyridines.

The quarry pond sample contained an estimated 4 parts per billion of chloropyridines. The ditch samples contained no detectable levels of chloropyridines. Canal samples QO-2S1 and SW-2 were also non-detect for chloropyridines. No VOCs were detected in any of the quarry-related samples.

During the period June 1 through November 29, 2004, the on-site groundwater extraction system pumped approximately 6.4 million gallons of groundwater to the on-site treatment system, containing an estimated 506 pounds of chloropyridines and 78

pounds of target volatile organic compounds. During the period, pump and/or meter repairs were required in wells BR-5A, PW-10 and PW-11.

All accessible on-site monitoring wells were checked for the presence of dense non-aqueous phase liquids (DNAPL), using an interface probe. No DNAPL was observed in any of these wells. As has been reported previously to the NYSDEC, a small quantity of floating product was observed in newly-installed PW-13. A GC fingerprint on a sample of this material indicated it is a weathered No. 2 fuel oil. Arch Chemicals has no underground sources of No. 2 fuel oil at the Rochester plant, and knows of no spills in the area. Arch believes the fuel oil is likely from an off-site source.

Additional issues related to the remedial action program at the Arch Rochester Plant Site are now discussed in the monthly progress reports, which commenced in February 2005.

1.0 INTRODUCTION

In accordance with the Order on Consent executed between Arch Chemicals, Inc., and the New York State Department of Environmental Conservation (NYSDEC), effective August 21, 2003, Arch is conducting a Remedial Action program at its facility on McKee Road in Rochester, New York. As part of this program, Arch conducts twice-yearly monitoring events consisting of sampling and chemical analysis of groundwater and surface water in the vicinity of the Rochester facility.

The Fall 2004 sampling event included the collection and analysis of a total of 33 groundwater, surface water, and seep samples from off-site and on-site locations. This included seven additional samples associated with the Dolomite Products Quarry that are not part of the regular monitoring program. These samples were added at the request of the NYSDEC to confirm that potential exposures to site-related contaminants at the quarry are below levels of regulatory concern. Samples were collected from November 15 through December 6, 2004, for analysis of selected chloropyridines and volatile organic compounds (VOCs).

This report presents the results of the Fall 2004 monitoring event.

2.0 SAMPLE COLLECTION AND ANALYSIS

2.1 GROUNDWATER

Groundwater samples were collected from off-site wells, on-site wells and piezometers for analysis of selected chloropyridines (2-chloropyridine, 2,6-dichloropyridine, 3-chloropyridine, 4-chloropyridine, pyridine, and p-fluoroaniline) and target compound list (TCL) VOCs. Samples were collected by Severn Trent Laboratories and transported to their laboratory in Amherst, New York for analysis. Table 1 lists the wells that were sampled and the requested analyses. The off-site and on-site locations of these sampling points are shown in Figures 1 and 2, respectively. Groundwater sampling data sheets are provided in Appendix A.

Groundwater was collected with the low flow/low stress purging technique from most of the wells using bladder or peristaltic pumps. Samples from pumping wells (BR-5A, BR-7A, BR-9, PW10, PW11, and PW12) were collected from the discharge lines. Because pumping well BR-6A was not operating at the time of the sampling event, it was sampled using a stainless steel bailer.

Groundwater piezometric elevations were measured on November 10, 2004. Piezometric contour maps were constructed for each water-bearing zone (overburden, bedrock, and deep bedrock) and are presented in Figures 3, 4, and 5.

All accessible on-site monitoring wells were checked for the presence of dense non-aqueous phase liquids (DNAPL), using a product interface probe. No DNAPL was detected in any of the wells; however, as has been reported previously to the NYSDEC, a small quantity of floating product was observed in newly-installed PW-13. A GC fingerprint on a sample of this material indicated it is a weathered No. 2 fuel oil. Arch Chemicals has

no underground sources of No. 2 fuel oil at the Rochester plant, and knows of no spills in the area. Arch believes the fuel oil is likely from an off-site source.

2.2 SURFACE WATER

Surface water and quarry seep samples were collected as part of the on-going monitoring program for the Arch Rochester site. During this sampling event, the quarry sampling program was expanded to include seven additional samples at the request of the NYSDEC. The location of the quarry and its outfall in relation to the site is shown on Figure 6. Samples of the quarry seeps, runoff collection pond, the surface ditch that receives the quarry discharge, and the Barge Canal were collected by Severn Trent Laboratories on November 30, 2004. Samples were analyzed for selected chloropyridines and TCL VOCs. The quarry locations sampled during this event are listed below and are shown on Figure 7.

Quarry Seeps	Runoff Pond	Surface Ditch	Canal
QS-2 (east wall)	QP-1	QD-1 (quarry rim)	QO-2S1 (100' so. of QO-2)
QS-3 (east wall)		QD-2 (mid point)	SW-2 (Buffalo Road bridge)
QS-4 (east wall)		QO-2 (discharge to canal)	,
QS-5 (south wall)		· · · · ·	

2.3 ANALYTICAL PROCEDURES

The analytical procedures, data review findings, and validated data for this groundwater and surface water monitoring event are discussed in the following paragraphs.

Samples were analyzed for the Arch suite of selected chloropyridines and TCL VOCs by USEPA SW-846 Methods 8270C and 8260B, respectively. The reporting limits for the chloropyridines and VOCs are 10 micrograms per liter (μ g/L) and 5 to 25 μ g/L, respectively, for undiluted samples.

2.4 QUALITY CONTROL

All laboratory analytical results were reviewed and qualified following U.S. Environmental Protection Agency Contract Laboratory Program (USEPA CLP), "National Functional Guidelines For Organic Data Review", October, 1999, as modified by USEPA Region II, "SOP No. HW-6 Revision XII", March 2001. Analytical results were evaluated for the following parameters:

- Collection and Preservation
- * Holding Times
- * Surrogate Recoveries
 Blank Contamination
- Duplicates
- Laboratory Control Samples
- * Matrix Spike/Matrix Spike Duplicates

^{* -} all criteria were met for this parameter

With the exception of the following items discussed below, the data quality is considered to be very good and is deemed usable as reported by the laboratory.

<u>Blank Contamination</u>. Trichloroethene was observed below the reporting limit (1.2 J ug/L) in one of the five VOC method blanks. An action level was established at five times the concentration reported in the blank. Sample results affected include BR-9 and BR-105: results were qualified as non-detect (U) at the reporting level.

3.0 ANALYTICAL RESULTS

3.1 GROUNDWATER

The validated results from the Fall 2004 groundwater monitoring event are provided in Tables 2 and 3. Table 4 provides a comparison of the Fall 2004 analytical results for selected chloropyridines and VOCs in representative wells to mean concentrations of the prior five years (Fall 1999 through Spring 2004). Long term trends for both selected chloropyridines and VOCs are also presented as time-series plots for representative wells in Appendix B. A summary of the analytical findings is presented below by parameter class.

3.1.1 Chloropyridines

<u>On-Site.</u> Chloropyridines were detected above sample quantitation limits in all fourteen on-site wells sampled in the Fall 2004 event. Concentrations of chloropyridines ranged from 55 micrograms per liter (μ g/L) (sum of all chloropyridine and pyridine isomer concentrations) in monitoring well S-4 to 171,400 μ g/L in pumping well PW-10. Three on-site wells had selected chloropyridines concentrations above their respective means from monitoring events over the previous five years (see Table 4).

<u>Off-Site.</u> Chloropyridines were detected above sample quantitation limits in all nine off-site wells that were sampled. Concentrations of total selected chloropyridines ranged from 179 μ g/L to 9,000 μ g/L. None of the off-site wells contained total chloropyridines concentrations above their respective 5-year prior means.

<u>Concentration Contours</u>. Chloropyridine distribution in groundwater is shown as a set of concentration contours on Figure 8. The contours were developed using data from both overburden and bedrock monitoring wells. Contours are approximated (shown as dashed lines) where they are based on data from previous sampling rounds.

3.1.2 Selected VOCs.

<u>On-Site.</u> Selected VOCs were detected in eleven of the fourteen on-site wells sampled in the Fall 2004 event. Concentrations of VOCs ranged from non-detect to 14,560 μ g/L for the sum of the principal site-related contaminants (carbon tetrachloride, chloroform, methylene chloride, tetrachloroethene, and trichloroethene). None of the fourteen on-site wells had VOC concentrations greater than their 5-year prior means. In addition to the selected VOCs, other notable constituents detected in on-site wells include chlorobenzene (in 11 out of 14 wells), 1,2-dichloroethene (10 of 14), benzene (9 of 14), toluene (9 of 14),

carbon disulfide (6 of 14), vinyl chloride (6 of 14), 1,1-dichloroethane (4 of 14), ethylbenzene (3 of 14), and bromoform (3 of 14).

<u>Off-Site.</u> Selected VOCs were detected in two of the eight off-site wells sampled for VOCs in the Fall 2004 event. Total concentrations of selected VOCs ranged from non-detect to 14.5 ug/L. One off-site well (BR-105) had selected VOC concentrations above its prior 5-year mean. In addition to the selected VOCs, other notable constituents detected in off-site wells include benzene (in 8 out of 8 wells), chlorobenzene (7 of 8), toluene (3 of 8), 1,1-dichloroethane (2 of 8), 1,2-dichloroethene (2 of 8), carbon disulfide (2 of 8), and vinyl chloride (2 of 8).

<u>Concentration Contours</u>. The distribution of selected VOCs in groundwater is shown as a set of concentration contours on Figure 9. These contours were developed using both overburden and bedrock groundwater data, and are dashed where approximated using data from previous sampling rounds.

3.2 SURFACE WATER

Results from the Fall 2004 canal and quarry monitoring event are presented in Table 5. Several additional samples were collected during this event at the request of the NYSDEC to confirm that potential exposures at the quarry and Barge Canal are below levels of regulatory concern.

3.2.1 Quarry

For samples collected from the Dolomite products quarry seeps (QS-2 through QS-5) and runoff collection pond (QP-1), the chloropyridine analyses yielded the following results:

PARAMETER1	QS-2	QS-3	QS-4	QS-5	QP-1
pyridine	ND	ND	ND	ND	ND
2,6-Dichloropyridine	5J	22	34	ND	ND
2-Chloropyridine	5J	68	100	ND	4J
3-Chloropyridine	ND	ND	ND	ND	ND
p-Fluoroanaline	ND	ND	ND	ND	ND

Notes:

These chloropyridine concentrations are below historical averages.

No VOCs were detected in any of the quarry samples.

3.2.2 Quarry Discharge Ditch

Three samples were collected from the quarry discharge ditch. Sample QD-1 was collected from the ditch at the location of the discharge pipe from the quarry, near the quarry rim. Sample QO-2 is the regular sampling location at the point where the ditch discharges to the canal. Sample QD-2 was collected approximately midway between QD-1 and QO-2. No chloropyridines or VOCs were detected in any of the ditch samples.

⁼ Concentrations reported in micrograms per liter (μg/L)

J = estimated value, below reporting limit

3.2.3 Barge Canal

No chloropyridines or VOCs were detected in either of the surface water samples collected from the Erie Barge Canal (QO-2S1, located approximately 100 feet downstream of QO-2, and SW-2, located at the Buffalo Road bridge).

4.0 EXTRACTION SYSTEM PERFORMANCE AND MAINTENANCE

Table 6 is a summary of the system flow measurements for the seven extraction wells from June 2004 through November 2004. The total volume pumped during the six-month period is approximately 6.4 million gallons.

Pumping wells PW-10 and BR-7A were physically and chemically cleaned in November 2004. All extraction wells are currently pumping at their expected rates except for well BR-6A, which is performing poorly and has not responded to rehabilitation efforts. A replacement for well BR-6A is scheduled for installation in March 2005. A previous attempt to install this new extraction well (to be called PW-14) failed when the surface of the bedrock proved to be too heavily fractured to allow for construction of an open corehole well as designed. This well will now be re-installed with a well screen and filter pack. Both PW-14 and new extraction well PW-13, located along McKee Road between PW-11 and BR-7A, are expected to be activated in March 2005.

During the period, pump and/or meter repairs were required in wells BR-5A, PW-10 and PW-11.

Table 7 provides a calculation of mass removal rates since the previous groundwater monitoring event (i.e., from June 2004 through November 2004). Arch estimates that approximately 78 pounds of target VOCs and 506 pounds of chloropyridine compounds were removed by the groundwater extraction system and treated by the plant's activated carbon adsorption units over that time period.

5.0 OTHER ISSUES

For other issues related to the remedial action program at the Arch Rochester Plant Site, please see the monthly progress reports, which commenced in February 2005.

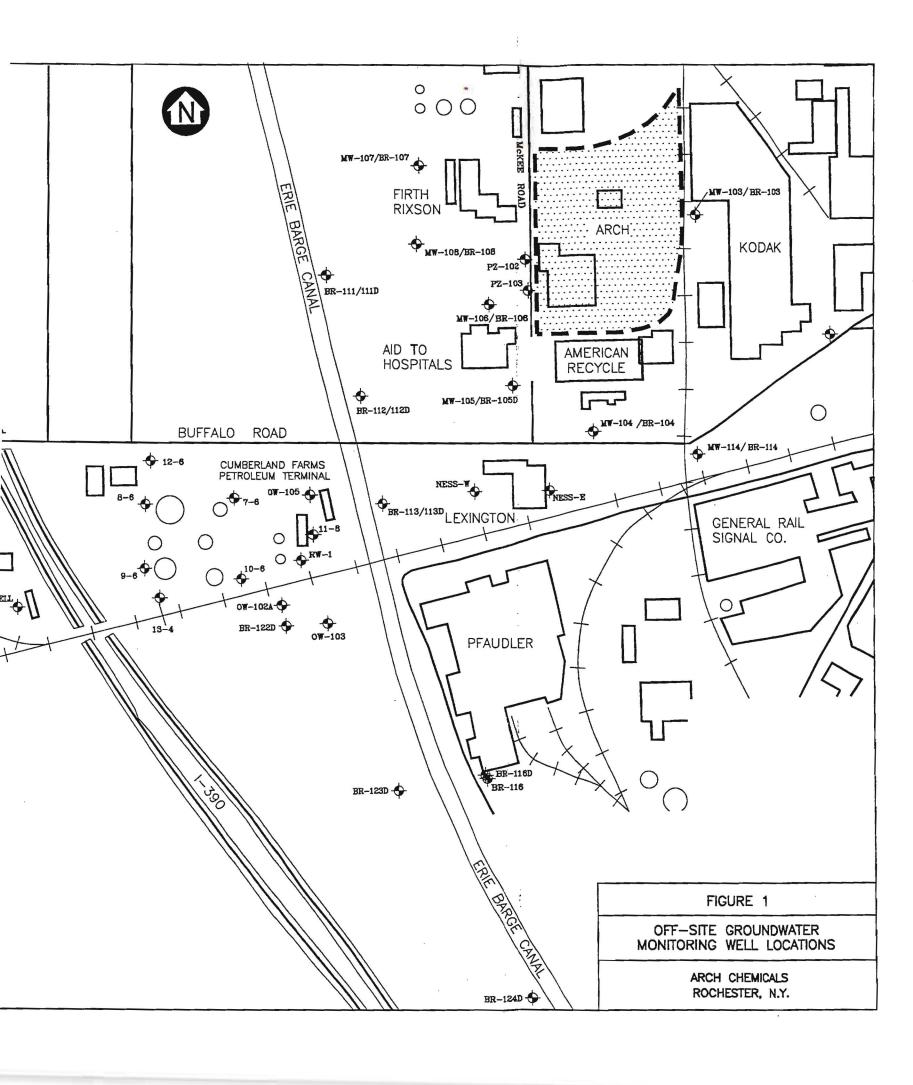
6.0 NEXT MONITORING EVENT

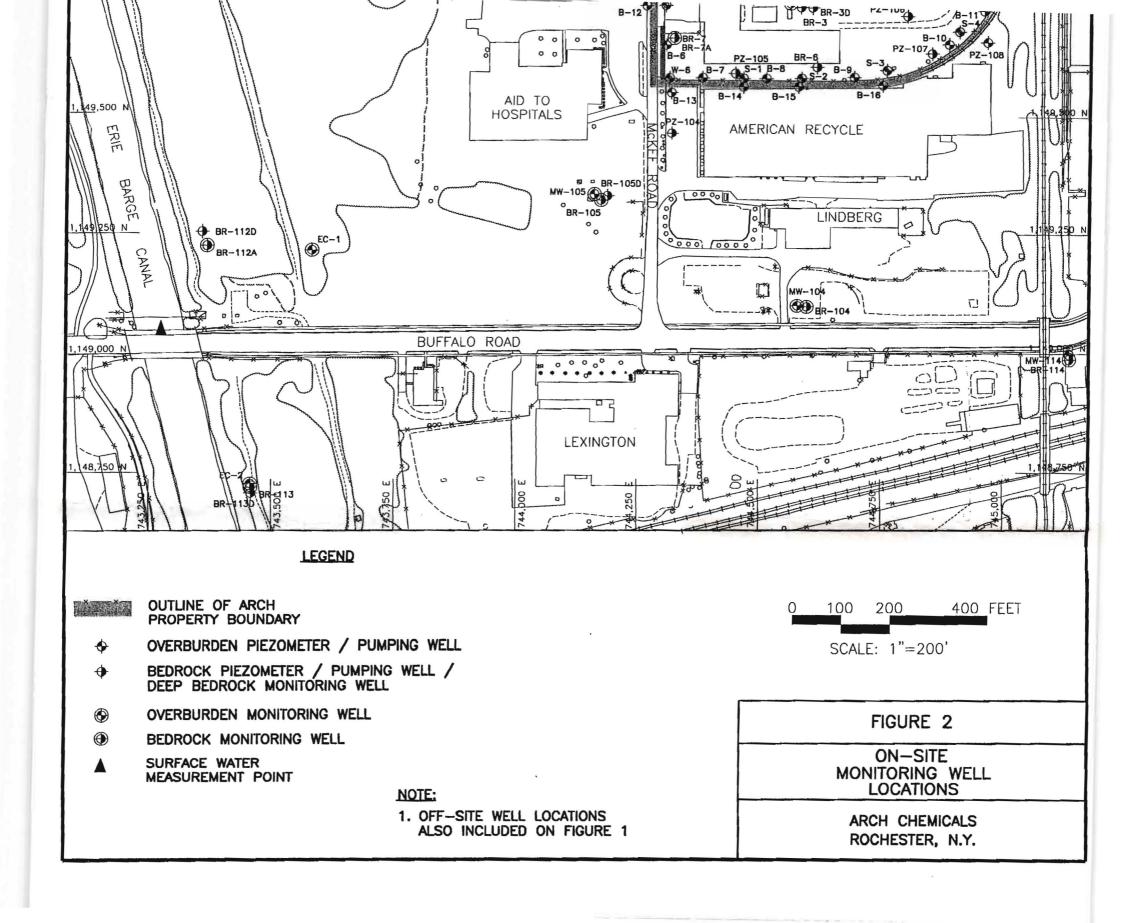
Arch has proposed collecting a round of samples from the quarry seeps and the quarry's discharge to the surface ditch (sample QD-1) in late winter of 2005. This sampling is tentatively scheduled to take place in March 2005.

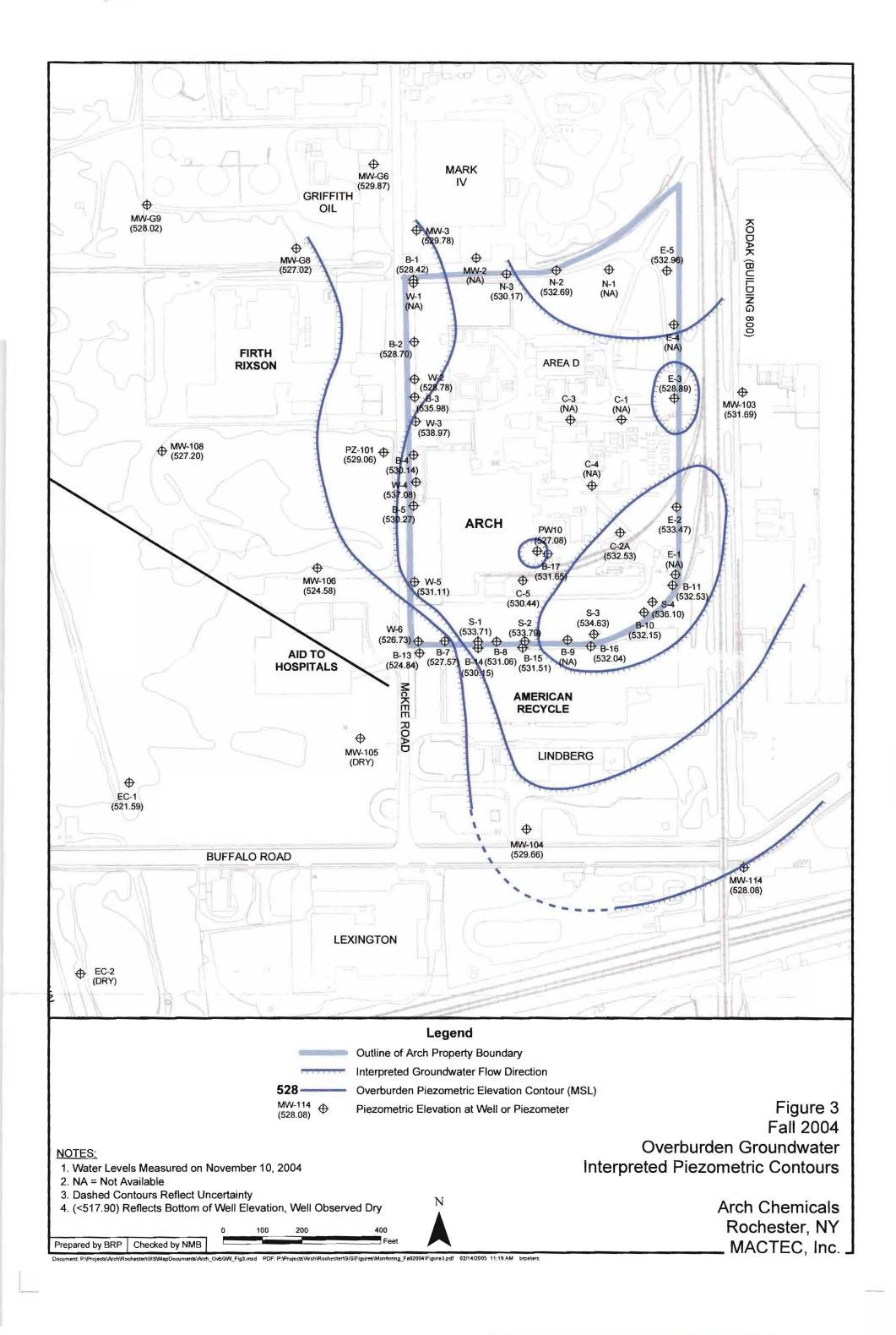
The next regular monitoring event will occur in May 2005 and will include groundwater, surface water, and seep sampling.

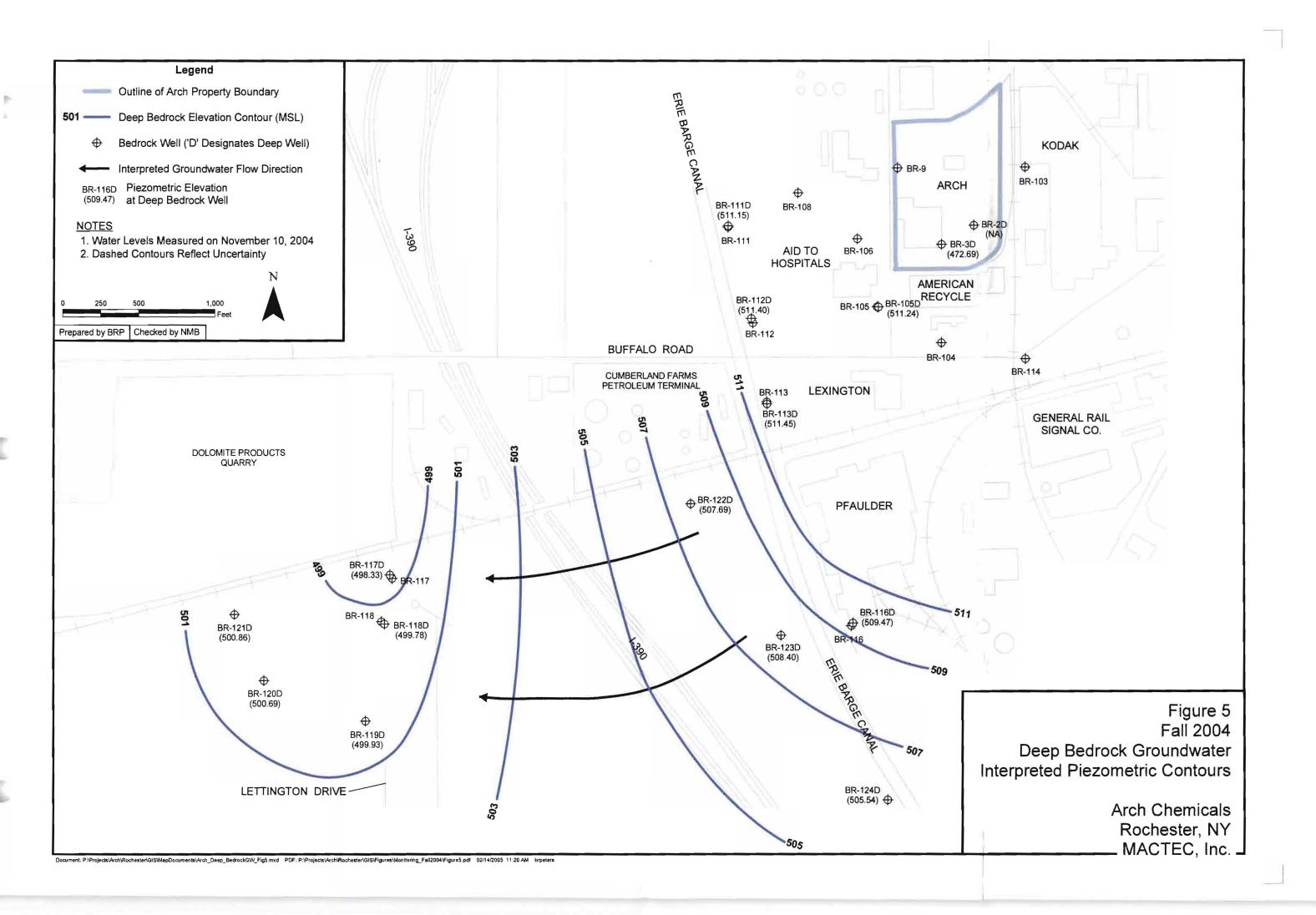
Table 8 shows the regular monitoring program for the Arch Rochester site.

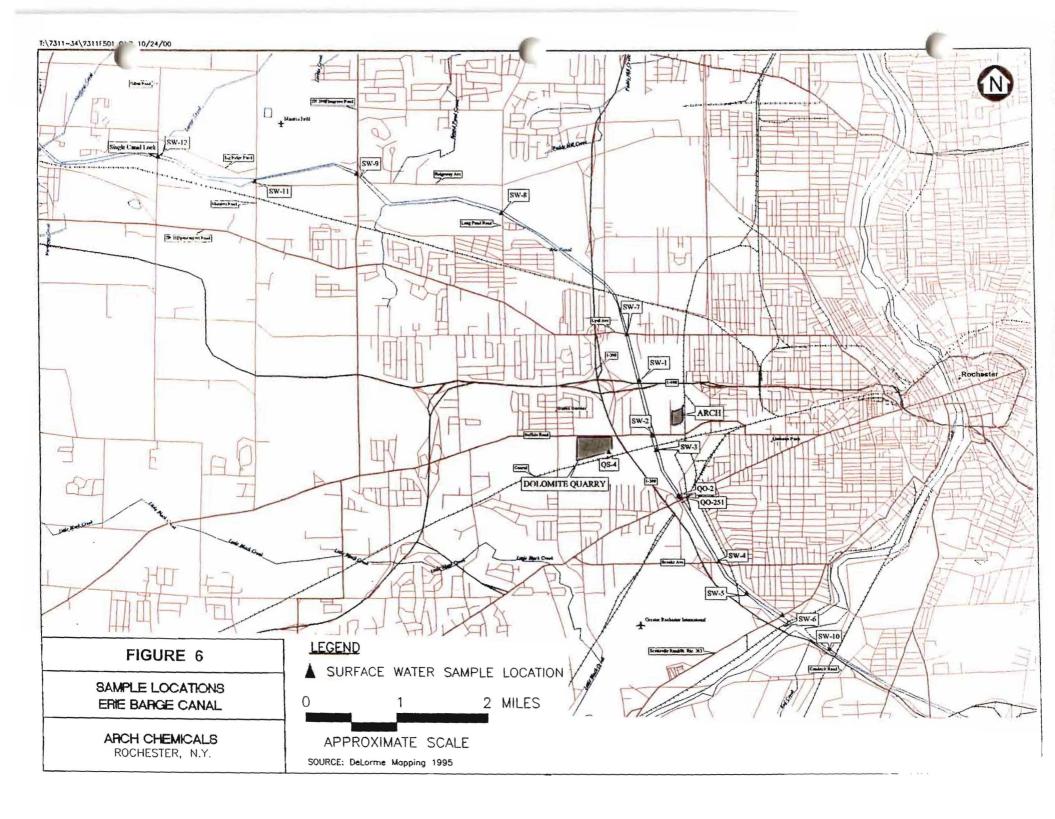
Figures

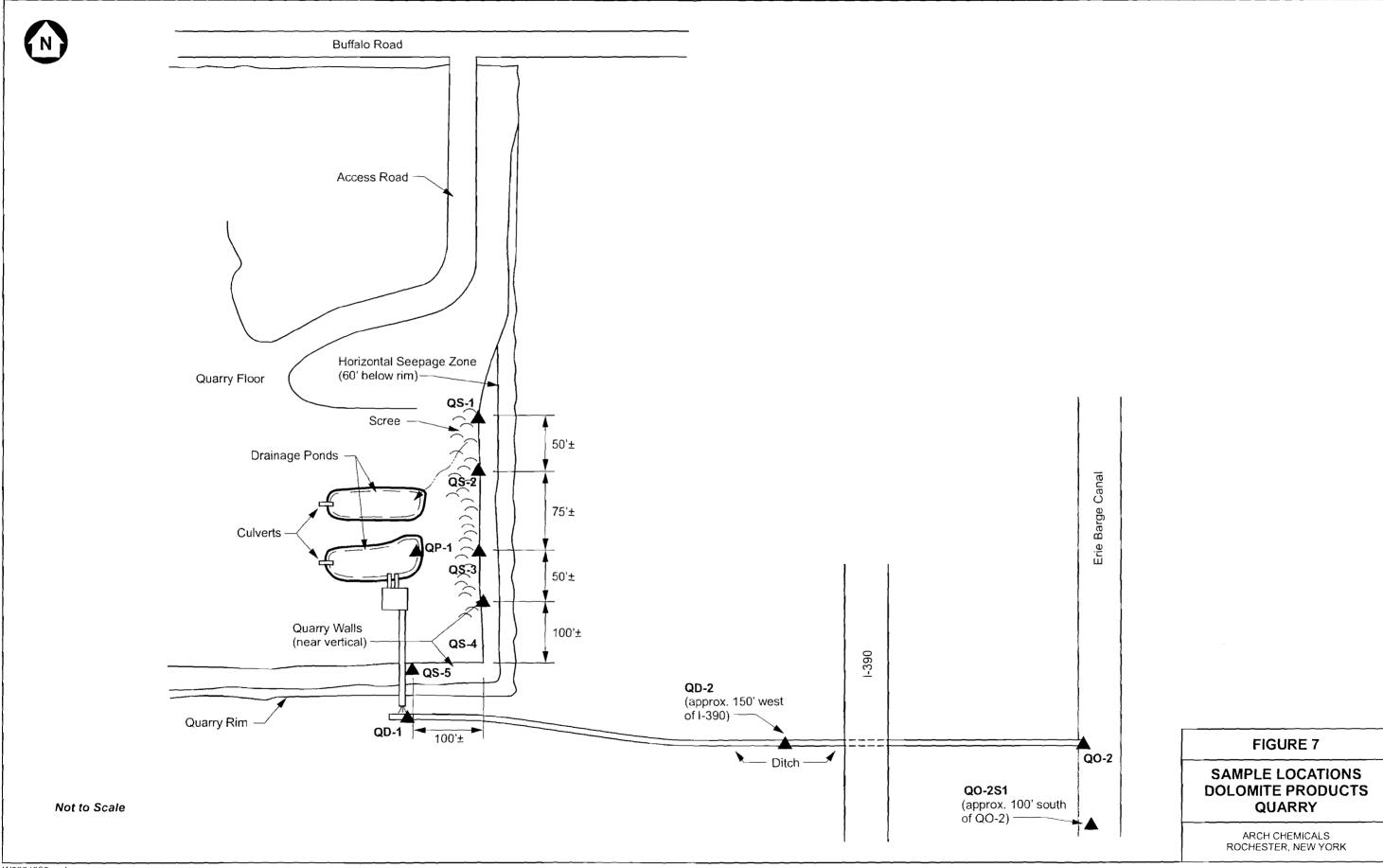












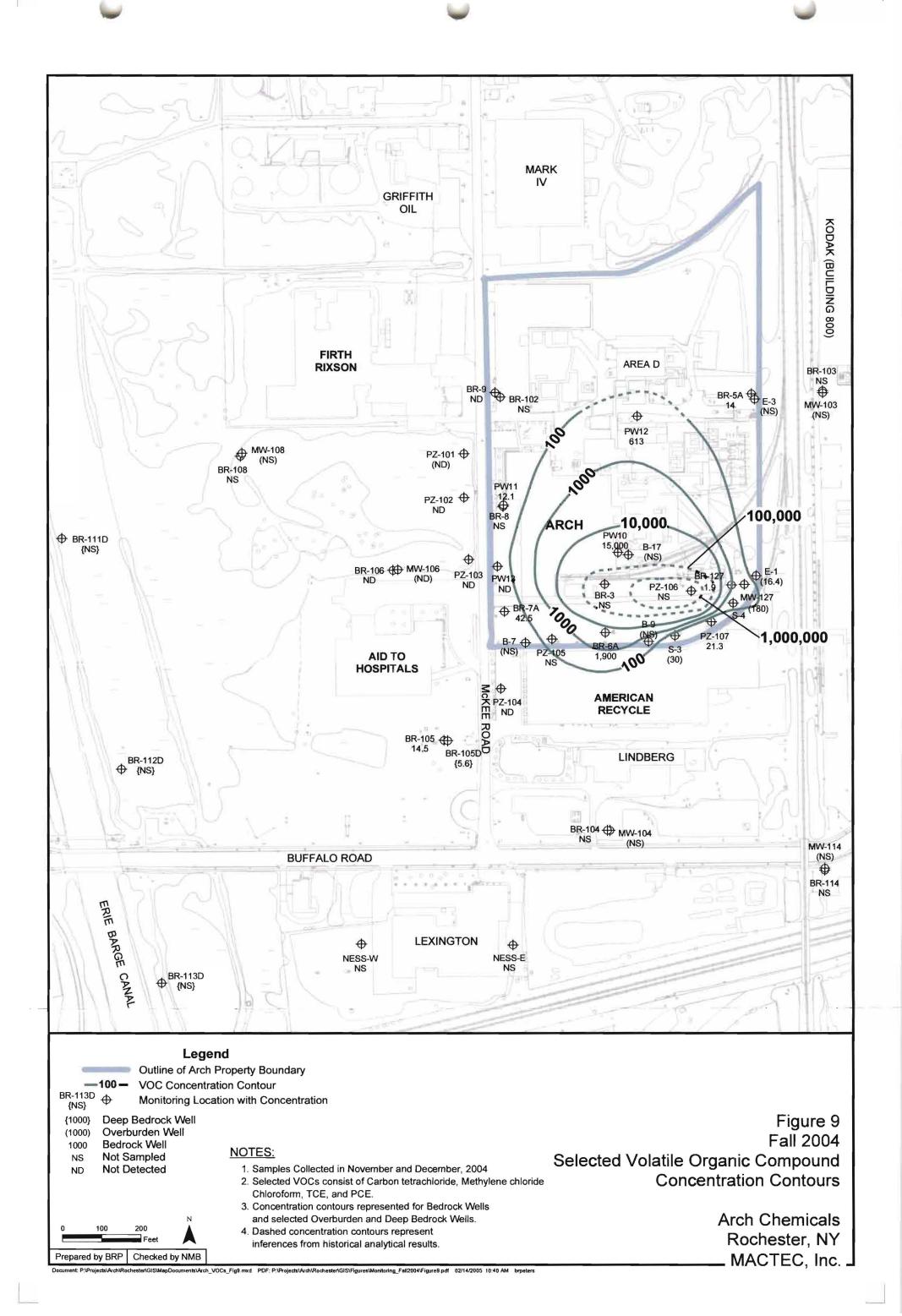




TABLE 2 FALL 2004 GROUNDWATER MONITORING RESULTS CHLOROPYRIDINES

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION:	BR-105	BR-105D	BR-106	BR-106	BR-127	BR-5A	BR-6A	BR-7A	BR-9	E-1
SAMPLE DATE:	11/16/04	11/16/04	11/16/04	11/16/04	11/15/04	11/18/04	12/06/04	11/18/04	11/18/04	11/15/04
QC TYPE:	N	N	D	N	N	N	N	N	N	N
BY SW-846 Method 8270C (μg/L)										
PARAMETER										
2,6-Dichloropyridine	140	100	1400	1900	440	78	1000	3200	35 J	18000
2-Chloropyridine	960	1800	5300	7100	940	160	8100	10000	140	43000
3-Chloropyridine	100 U	100 U	500 U	500 U	98	50 U	1000 U	1000 U	48 U	1800
4-Chloropyridine	100 U	100 U	500 U	500 U	9 U	50 U	1000 U	1000 U	48 U	1000 U
p-Fluoroaniline	100 U	100 U	500 U	500 U	6 J	50 U	1000 U	1000 U	48 U	1000 U
Pyridine	250 U	250 U	1200 U	1200 U	24 U	120 U	2500 U	2500 U	120 U	2500 U

Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value.

QC TYPE: N = Field sample;

D = Field duplicate.

TABLE 1 FALL 2004 GROUNDWATER SAMPLING AND ANALYTICAL PROGRAM

ARCH CHEMICALS, INC ROCHESTER, NEW YORK

			ANALYSIS	PYRIDINES1	VOCs ²
SITE / AREA	WELL / POINT	DATE	QC TYPE		
AID TO HOSPITALS	BR-106	11/16/2004	Duplicate	X	Х
	BR-106	11/16/2004	Sample	Х	Х
	MW-106	11/16/2004	Sample	X	Х
	PZ-101	11/17/2004	Sample	X	Х
	PZ-102	11/17/2004	Sample	Х	Х
	PZ-103	11/17/2004	Sample	Х	Х
AMERICAN RECYCLE MANUF. (58 MCKEE ROAD)	PZ-104	11/17/2004	Sample	Х	X
ARCH ROCHESTER	BR-127	11/15/2004	Sample	Х	X
	BR-5A	11/18/2004	Sample	Х	X
	BR-6A	12/6/2004	Sample	Х	X
	BR-7A	11/18/2004	Sample	Х	X
	BR-9	11/18/2004	Sample	Х	Х
	E-1	11/15/2004	Sample	Х	Х
	MW-127	11/15/2004	Sample	X	Х
•	PW10	11/18/2004	Sample	Х	Х
	PW11	11/18/2004	Sample	Х	Х
	PW12	11/18/2004	Sample	Х	Х
	PW13	11/16/2004	Sample	Х	Х
	PZ-107	11/15/2004	Sample	Х	Х
	S-3	11/15/2004	Sample	Х	Х
	S-4	11/15/2004	Sample	Х	Х
DOLOMITE PRODUCTS, INC.	QD-1	11/30/2004	Duplicate	X	Х
	QD-1	11/30/2004	Sample	Х	Х
	QD-2	11/30/2004	Sample	Х	Х
	QP-1	11/30/2004	Sample	Х	Х
	QS-2	11/30/2004	Sample	X	X
	QS-3	11/30/2004	Sample	Х	Х
	QS-4	11/30/2004	Sample	Х	Х
	QS-5	11/30/2004	Sample	Х	Х
ERIE BARGE CANAL	QO-2	11/30/2004	Sample	X	Х
	QO-2S1	11/30/2004	Sample	X	Х
	SW-2	11/30/2004	Sample	X	X
FORMER GENERAL CIRCUITS	MW-16	11/17/2004	Sample	X	
RG & E RIGHT OF WAY	BR-105	11/16/2004	Sample	X	Х
	BR-105D	11/16/2004		Х	X

Notes:

¹⁾ Pyridines analysis by USEPA SW-846 Method 8270C.

²⁾ VOCs analysis by USEPA SW-846 Method 8260B.

TABLE 2 FALL 2004 GROUNDWATER MONITORING RESULTS CHLOROPYRIDINES

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION:	MW-106	MW-127	MW-16	PW10	PW11	PW12	PW13	PZ-101	PZ-102	PZ-103
SAMPLE DATE:	11/16/04	11/15/04	11/17/04	11/18/04	11/18/04	11/18/04	11/16/04	11/17/04	11/17/04	11/17/04
QC TYPE:	N	N	N	N	N	N	N	N	N	N ;
BY SW-846 Method 8270C (μg/L)		T								
PARAMETER										
2,6-Dichloropyridine	1900	2200	9 J	17000	130 J	420 J	1200	150	220	2300
2-Chloropyridine	5500	12000	170	150000	560	1400	6000	1000	880	5600
3-Chloropyridine	500 U	280	19 U	4400 J	250 U	500 U	46	100 U	200 U	500 U
4-Chloropyridine	500 U	24	19 U	10000 U	250 U	500 U	180 J	100 U	200 U	500 U
p-Fluoroaniline	500 U	3 J	19 U	10000 U	250 U	150 J	55	100 U	200 U	500 U
Pyridine	1200 U	36	48 U	25000 U	620 U	1200 U	24 U	250 U	500 U	1200 U

Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value.

QC TYPE: N = Field sample;

D = Field duplicate.

TABLE 2 FALL 2004 GROUNDWATER MONITORING RESULTS CHLOROPYRIDINES

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION:	PZ-104		PZ-107		S-3		S-4	
SAMPLE DATE:	11/17/04	4	11/15/04		11/15/04		11/15/04	
QC TYPE:	N		N	N			N	
BY SW-846 Method 8270C (μg/L)								
PARAMETER								
2,6-Dichloropyridine	420		700		1200		40	
2-Chloropyridine	2800		2700		2600		15	
3-Chloropyridine	400	U	150		100	U	9	\subset
4-Chloropyridine	400	U	100	J	100	U	9	C
p-Fluoroaniline	400	U	100	Ü	100	U	9	U
Pyridine	1000	U	250	U	250	U	24	U

Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value.

QC TYPE: N = Field sample; D = Field duplicate.

E 3

FALL 2004 GROUNDWATER MONITORING RESULTS VOLATILE ORGANIC COMPOUNDS

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCAT	ON: BR-105	BR-105D	BR-106	BR-106	BR-127	BR-5A	BR-6A	BR-7A	BR-9	E-1
SAMPLE D	ATE: 11/16/04	11/16/04	11/16/04	11/16/04	11/15/04	11/18/04	12/06/04	11/18/04	11/18/04	11/15/04
QCT	PE: N	N	D	N	N	N	N	N	N	N
VOLATILE ORGANIC COMPOUNDS										
BY SW-846 Method 8260/5ML (µg/L)										
1,1,1-Trichloroethane	5 U	5 U	10 U	10 U_	5 U	5 U	25 U	10 U	20 U	25 U
1,1,2,2-Tetrachloroethane	5 U	5 U	10 U	10 U	5 U	5 U	25 U	10 U	20 U	25 U
1,1,2-Trichloroethane	5 U	5 U	10 U	10 U	5 U	5 U	25 U	10 U	20 U	25 U
1,1-Dichloroethane	1.2 J	6.3	10 U	10 U	5 U	5 U	25 U	3.4 J	15 J	25 U
1,1-Dichloroethene	5 U	5 U	10 U	10 U	5 U	5 U	25 U	10 U	20 U	25 U
1,2-Dichloroethane	5 U	5 U	10 U	10 U	5 U	5 U	25 U	10 U	20 U	25 U
1,2-Dichloroethene (total)	44	8.6 J	20 U	20 U	4.2 J	12	16 J	5 J	480	9.9 J
1,2-Dichloropropane	5 U	5 U	10 U	10 U	5 U	5 U	25 U	10 U	20 U	25 U
2-Butanone	25 U_	25 U	50 U	50 U	25 U	25 U	120 U	50 U	100 U	120 U
2-Hexanone	25 U	25 U	50 U	50 U	25 U	25 U	120 U	50 U	100 U	120 U
4-Methyl-2-pentanone	25 U	25 U	50 U	50 U	25 U	25 U	120 U	50 U	100 U	120 U
Acetone	25 U	25 U	50 U	50 U	25 U	25 U	120 U	50 U	100 U	160
Benzene	2.2 J	8.4	35	39	1.6 J	10	25 U	24	80	25 U
Bromodichloromethane	5 U	5 U	10 U	10 U	5 <u>U</u>	5 U	25 U	10 U	20 U	25 U
Bromoform	5 U	5 U	10 U	10 U	5 U	5 U	9 J	10 U	20 U	25 U
Bromomethane	5 U	5 U	10 U	10 U	5 U	5 U	25 U	10 U	20 U	25 U
Carbon disulfide	1.8 J	5 U	10 U	10 U	5 U	5 U	25 U	4.4 J	20 U	19 J
Carbon tetrachloride	4.9 J	5 U	10 U	10 U	5 U	5 U	980	10 U	20 U	25 U
Chlorobenzene	5.6	5 U	300	300	5 U_	8.8	33	290	20	32
Chloroethane	5 U	5 U	10 U	10 U	5 U	5 U	25 U	10 U	20 U	25 U
Chloroform	4.9 J	5.6	10 U	10 U	5 U	3.5 J	850	25	20 U	9 J
Chloromethane	5 U	5 U	10 U	10 U	5 U	5 U	25 U	10 U	20 U	25 U
cis-1,3-Dichloropropene	5 U	5 U	10 U	10 U	5 U	5 U	25 U	10 U	20 U	25 U
Dibromochloromethane	5 U	5 U	10 U	10 U	5 U	5 U	25 U	10 U	20 U	25 U
Ethylbenzene	5 U	5 U	10 U	10 U	5 U	5 U	25 U	10 U	8.2 J	25 U
Methylene chloride	5 U	5 U	10 U	10 U	5 U	4 J	18 J	15	20 U	25 U
Styrene	5 U	5 U	10 U	10 U	5 U	5 U	25 U	10 U	20 U	25 U
Tetrachloroethene	4.7 J	5 U	10 U	10 U	5 U	5 U	73	2.5 J	20 U	7.4 J
Toluene	5 U	5 U	3.3 J	3.4 J	5 U	3.5 J	38	10	4.8 J	25 U
Total Xylenes	15 U	15 U	30 U	30 U	15 U	15 U	75 U	30 U	60 U	75 U
trans-1,3-Dichloropropene	5 U	5 U	10 U	10 U	5 U	5 U	25 U	10 U	20 U	25 U
Trichloroethene	5 U	5 U	10 U	10 U	1.9 J	6.5	10 J	10 U	20 U	25 U
Vinyl acetate	25 U	25 U	50 U	50 U	25 U	25 U	120 U	50 U	100 U	120 U
Vinyl chloride	17	4.6 J	10 U	10 U	2 J	3.3 J	25 U	6 J	180	25 U

Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value.

QC TYPE: N = Field sample; D = Field duplicate.

FALL 2004 GROUNDWATER MONITORING RESULTS VOLATILE ORGANIC COMPOUNDS

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION:	MW-106	MW-127	PW10	PW11	PW12	PW13	PZ-101	PZ-102	PZ-103	PZ-104
SAMPLE DATE:	11/16/04	11/15/04	11/18/04	11/18/04	11/18/04	11/16/04	11/17/04	11/17/04	11/17/04	11/17/04
QC TYPE:	N	N	N	N	N	N	N	N	N	N
VOLATILE ORGANIC COMPOUNDS										
BY SW-846 Method 8260/5ML (μg/L)							_			
1,1,1-Trichloroethane	5 U	5 U	250 U	10 U	10 U	5 U	5 U	10 U	25 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	250 U	10 U	10 U	5 U	5 <u>U</u>	10 U	25 U	5 <u>U</u>
1,1,2-Trichloroethane	5 U	5 U	250 U	10 U	10 U	5 U	5 U	10 U	25 U	5 U
1,1-Dichloroethane	5 U	5 U	250 U	17	10 U	1.2 J	5 U	10 U	25 U	5 U
1,1-Dichloroethene	5 U	5 U	250 U	10 U	10 ป	5 U	5 U	10 U	25 U	5 U
1,2-Dichloroethane	5 U	5 U	250 U	10 U	10 U	5 U	5 U	10 U	25 U	5 U
1,2-Dichloroethene (total)	10 U	10 U	500 U	220	5.5 J	10 U	10 U	20 U	50 U	10 U
1,2-Dichloropropane	5 U	5 U	250 U	10 U	10 U	5 U	5 U	10 U	25 U	5 U
2-Butanone	25 U	25 U	1200 U	50 U	50 U_	25 U	25 U	50 U	120 U	25 U
2-Hexanone	25 U	25 U	1200 U	50 U	50 U	25 U	25 U	50 U	120 U	25 U
4-Methyl-2-pentanone	25 U	25 U	1200 U	50 U	50 U	25 U	25 U	50 U	120 U	25 U
Acetone	25 U	25 U	1200 U	50 U	50 U	25 U	25 U	50 U	120 U	25 U
Benzene	38	5 U	250 U	37	45	19	16	28	34	3.1 J
Bromodichloromethane	5 U	5 U	250 U	10 U	10 U	5 U	5 U	10 U	25 U	5 U
Bromoform	5 U	5 U	960	10 U	5 J	5 U	5 U_	10 U	25 U	5 U
Bromomethane	5 U	5 U	250 U	10 U	10 U	5 U	5 U	10 U	25 U	5 U
Carbon disulfide	5 U	5 U	320	10 U	7.2 J	10	5 U	10 U	13 J	5 U
Carbon tetrachloride	5 U	5 U	5500	10 U	200	. 5 U	5 U	10 U	25 U	5 U
Chlorobenzene	350	5 U_	24 0 J	31	220	98	130	240	540	9.5
Chloroethane	5 U	5 U	250 U	10 U	10 U	5 U	5 U	10 U	25 U	5 U
Chloroform	5 U	5 U	7100	9.7 J	340	5 U	5 U	10 U	25 U	5 U
Chloromethane	5 U	5 U	250 U	10 U	10 U	5 U_	5 U	10 U	25 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	250 U	10 U	10 U	5 U	5 U	10 U	25 U	5 U
Dibromochloromethane	5 U	5 U	68 J	10 U	10 U	5 U -	5 U	10 U	25 U	5 U
Ethylbenzene	5 U	5 U	250 U	3.2 J	16	5 U	5 U	10 U	25 U	5 U
Methylene chloride	5 U	180	690	10 U	50	5 U	5 U	10 U	25 U	5 U
Styrene	5 U	5 U	250 U	10 U	10 U	5 U	5 U	10 U	25 U	5 U
Tetrachloroethene	5 U	5 U	1200	10 U	23	5 U	5 U	10 U	25 U	5 U
Toluene	2.9 J	2.5 J	290	3.6 J	190	3.9 J	5 U	10 U	7.9 J	5 U
Total Xylenes	15 U	15 U	750 U	30 U	99	15 U	15 U	30 U	75 U	15 U
trans-1,3-Dichloropropene	5 U	5 U	250 U	10 U	10 U	5 U	5 U_	10 U	25 U	5 U
Trichloroethene	5 U	5 U	70 J	2.4 J	10 U	5 U	5 U	10 U	25 U	5 U
Vinyl acetate	25 U	25 U	1200 U	50 U	50 U	25 U	25 U	50 U	120 U	25 U
Vinyl chloride	5 U	5 U	250 U	150	10 U	5 U	5 U	10 U	25 U	5 U

Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value.

QC TYPE: N = Field sample; D = Field duplicate.

FALL 2004 GROUNDWATER MONITORING RESULTS VOLATILE ORGANIC COMPOUNDS

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION:	PZ-107		S-3		S-4	
SAMPLE DATE:	11/15/04		11/15/04		11/15/04	
QC TYPE:	N		N	N		
VOLATILE ORGANIC COMPOUNDS						
BY SW-846 Method 8260/5ML (µg/L)						
1,1,1-Trichloroethane	5	U	25	U	50	υ_
1,1,2,2-Tetrachloroethane	5	U	25	Ų	50	U
1,1,2-Trichloroethane	5	U	25	υ	50	U
1,1-Dichloroethane	5	U	25	υ	50	U
1,1-Dichloroethene	5	U	25	υ_	50	U
1,2-Dichloroethane	5	U	25	Ü	50	U
1,2-Dichloroethene (total)	8.2	J	30	J	100	U
1,2-Dichloropropane	5	U	25	J	50	U
2-Butanone	25	U	120	υ	250	Ū
2-Hexanone	25	υ	120	Ų	250	U
4-Methyl-2-pentanone	25	U	120	J	250	U
Acetone	25	U	120	U	250	U
Benzene	3	J	7.9	J	50	U
Bromodichloromethane	5	U	25	ے	50	U
Bromoform	5	U	25	U	50	U
Bromomethane	5	U	25	U	50	U
Carbon disulfide	3.8	J	25	U	50	U
Carbon tetrachloride	7.5		12	7	50	U
Chlorobenzene	2.2	J	16	7	50	U
Chloroethane	5	υ	25	J	50	υ
Chloroform	11		18	J	50	U_
Chloromethane	5	U	25	υ	50	U
cis-1,3-Dichloropropene	5	_	25	υ	50	U
Dibromochloromethane	5	U_	25	υ	50	U
Ethylbenzene	5	U	25	υ	50	U
Methylene chloride	5	U	25	υ	50	U
Styrene	5	U	25	U	50	υ
Tetrachloroethene	5	U	25	U	50	U
Toluene	5	U	25	U	50	U
Total Xylenes	15	U	75	U	150	Ų
trans-1,3-Dichloropropene	5	U	25	U	50	U
Trichloroethene	2.8	J	25	U	50	υ
Vinyl acetate	25	U	120	υ	250	U
Vinyl chloride	6		14	J	50	U

Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value.

QC TYPE: N = Field sample; D = Field duplicate.

TABLE 4 COMPARISON OF FALL 2004 CHLOROPYRIDINES AND VOLATILE ORGANICS CONCENTRATIONS IN GROUNDWATER TO PREVIOUS RESULTS (ug/L)

ARCH ROCHESTER SEMI-ANNUAL GROUNDWATER MONITORING REPORT - SPRING 2004

WELL		SELEC	TED CHLOR	OPYRIDINES		SELECTE	D VOCs	
	# EVENTS IN	HISTORIC	5-YEAR	NOV-2004	# EVENTS	HISTORIC	5-YEAR	NOV-2004
	PRIOR 5 YRS	MAXIMUM	MEAN	RESULT	IN PRIOR 5	MAXIMUM	MEAN	RESULT
					YRS			
	/ELLS/LOCATIO							
B-17	7	28,000,000	200,000		7	345,000	63,000	
B-7	7	9,100	3,200		7	91	50	
BR-127*	0	NA	NA	1,484	0	NA	NA	1.9
BR-3	7	6,500,000	150,000		7	920,000	560,000	_
BR-5A	10	1,700	<u>5</u> 10	238	10	9,400	94	14
BR-6A	10	144,500	34,000	9,100	10	_26,000	7,300	1,931
BR-7A	10	510,000	21,000	13,200	10	3,000	330	42.5
BR-8	7	57,000	12,000		7	6,900	3.7	
BR-9	8	720	340	175	8	160	46	ND
E-1	9	171,680	43,000	62,800	9	5,300	470	16.4
E-3	7	600	63	_	7	12,000	200	
MW-127*	0	NA	NA	14,543	0	NA	NA NA	180
PW10	10	160,000	77,000	171,400	10	120,000	40,000	14,560
PW11	8	27,000	5,500	690	9	30,000	7,900	12.1
PW12	10	15,000	3,300	1,970	10	120,000	4,200	613
PW13*	0	NA	NA	7,481	0	NA	NA	ND
PZ-105	6	190,000	17,000	_	6	9,700	1,400	<u>_</u> _
PZ-106	7	120,000	40,000		7	1,359,000	780,000	
PZ-107	10	11,000	2,400	3,550	10	12,000	600	21.3
S-3	9	18,240	7,800	3,800	9	2,500	520	30
S-4	9	3,200	820	55	9	870	100	ND
OFF-SITE	WELLS/LOCATION	ONS			-			
BR-103	6	400	9.8		6	1	0.45	
BR-104	7	3,100	4.1		4	9	ND	
BR-105	10	24,000	1,900	1,100	10	310	4.6	14.5
BR-105D	10	10,000	2,300	1,900	10	230	7	5.6
BR-106	10	21,000	9,100	9,000	11	6,300	330	ND
BR-108	7	1,700	7.6		3	ND	ND	-
BR-112D	7	310	46		3	4.3	0.43	
BR-113D	7	490	72		NS	2.8	NS	
BR-114	7	521	230		7	5	2.7	
BR-116	5	12	0.0		NS	84	NS	
BR-116D	5	710	94		NS	120	NS	
BR-117D	5	80	23		NS	1.9	NS	
BR-118D	5	330	91		NS	6.6	NS	
BR-122D	5	650	210		NS	ND	NS	
BR-123D	5	860	410		NS	4	NS	
MW-103	6	82	4.3		6	ND	120	
MW-104	6	180	1.6		3	1	ND	_
MW-106	10	130,000	14,000	7,400	10	453	46	ND
MW-114	7	18	0.29	,	7	19	13	
MW-16	3	360	250	179	NS	NA	NS	
NESS-E	7	5,000	460		4	700	ND	
NESS-W	7	2,100	280		4	89	0.28	

TABLE 4 COMPARISON OF FALL 2004 CHLOROPYRIDINES AND VOLATILE ORGANICS CONCENTRATIONS IN GROUNDWATER TO PREVIOUS RESULTS (ug/L)

ARCH ROCHESTER SEMI-ANNUAL GROUNDWATER MONITORING REPORT - SPRING 2004

WELL		SELEC	TED CHLOR	ROPYRIDINES	SELECTED VOCs							
_	# EVENTS IN	HISTORIC	5-YEAR	NOV-2004	# EVENTS	HISTORIC	5-YEAR	NOV-2004				
	PRIOR 5 YRS	MAXIMUM	MEAN	RESULT	IN PRIOR 5	MAXIMUM	MEAN	RESULT				
					YRS							
PZ-101	9	27,000	1,300	1,150	9	6.1	0.86	ND				
PZ-102	9	58,000	7,600	1,100	9	10,000	2.4	ND				
PZ-103	9	73,000	26,000	7,900	10	44,300	8,000	ND				
PZ-104	9	9,100	3,900	3,220	9	40	1.3	NĎ				
QO-2	14	380	45	ND	9	ND	ND	ND				
QO-2S1	13	27	0.038	ND	6	ND	ND	ND				
QS-4	15	3,400	660	134	10	ND	ND	ND				

Note:

- 1) Number of samples and mean reflect 5-year sampling period from November 1999 through June 2004. Historic maximum based on all available results from March 1990 through June 2004
- 2) Chloropyridines represented by: 2-Chloropyridine, 2,6-Dichloropyridine, and 3-Chloropyridine, 4-Chloropyridine, p-Fluoroaniline, and Pyridine.
- 3) Selected VOCs represented by Carbon Tetrachloride, Chloroform, Methylene Chloride, Tetrachloroethene, and Trichloroethene.
- 4) Bold and shade June 2004 exceeds 5-year mean.
- 5) NA = Not analyzed or not applicable

ND = Not detected

NS = Not sampled

* - First sampling event for newly installed wells BR-127, MW-127, and PW13.

TABLE 5 FALL 2004 CANAL/QUARRY MONITORING RESULTS

ARCH CHEMICAL, INC. ROCHESTER, NEW YORK

WELL / POINT	QD-1		QD-1		QD-2		Q0-2		QO-2S1		QP-1	
DATE	11/30/200	4	11/30/200	4	11/30/200	4	11/30/200	4	11/30/200	4	11/30/200)4
QC	D	-	N		N		N		N		N	
VOLATILE ORGANIC COMPOUNDS			_				-					
BY SW-846 Method 8260/5ML (µg/L)												
PARAMETER												
1,1,1-Trichloroethane	5	Ū	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	5			U		Ū		U		Ū		U
1,1,2-Trichloroethane			5	Ū		U		U		Ū	5	
1,1-Dichloroethane	5	Ū	5	Ū	5			Ū		U	5	
1,1-Dichloroethene	5	Ū	5	U		Ū		U	5	υ	5	Ū
1,2-Dichloroethane	5	Ū	5	Ū		U		U		Ū	5	
1,2-Dichloroethene (total)	10	Ū	10	Ū		Ū		Ū	10	Ū	10	
1,2-Dichloropropane	5	U		Ū	5	Ū		U	5	U		Ū
2-Butanone	25	Ū		Ū		Ù		Ū		Ū		
2-Hexanone	25			Ū		Ū	25	_		Ū	25	
4-Methyl-2-pentanone		Ū	25	Ù		Ù		Ū		Ū	25	
Acetone		Ū	25	Ū		U		Ū		Ū	25	
Benzene		Ū	5	Ū		Ū		Ū		Ū	5	
Bromodichloromethane	5	Ū	5	Ū		Ū		Ū		Ū	5	
Bromoform		Ū	5	Ū		Ū		U		Ū	5	
Bromomethane	5	Ū	5	U	5	Ū		Ū		Ū		
Carbon disulfide	5	Ū	5	Ū		U		U		Ū		
Carbon tetrachloride	5	Ū	5	U		Ū		U		Ū	5	
Chlorobenzene	5	Ū	5	U	5	Ū	5	U	5	U	5	Ū
Chloroethane	5	U	5	U	5	U	5	U	5	U	5	Ü
Chloroform	5	Ū	5	U	5	U	5	υ	5	U	5	Ū
Chloromethane	5	Ū	5	U	5	Ų	5	U	5	Ū	5	U
cis-1,3-Dichloropropene	5	Ū	5	U	5	U	5	Ü	5	Ū	5	U
Dibromochloromethane	5	Ū	5	U	5	U	5	U	5	Ū	5	U
Ethylbenzene	5	Ū	5	U	5	U	5	U	5	U	5	Ū
Methylene chloride	5	Ū	5	Ū	5	U	5	U	5	Ū	5	U
Styrene	5	Ū	5	U	5	U	5	U	5	U	5	U
Tetrachloroethene	5	Ū	5	J	5	J	5	U	5	Ū	5	U
Toluene	5	U	5	U	5	U	5	Ū	5	Ū	5	U
Total Xylenes	15	U										
trans-1,3-Dichloropropene	5	U	5	Ü	5		5	U	5	U	5	U
Trichloroethene	5	Ū		U	5	U	5	U	5	U	5	U
Vinyl acetate	25	U	25	Ü	25	U	25	J	25	U	25	U
Vinyl chloride	5	Ū	5	U	5	U	5	U	5	U	5	U
SELECTED CHLOROPYRIDINES												
BY SW-846 Method 8270C (μg/L)												
2,6-Dichloropyridine		U	10		10		10			U	10	
2-Chloropyridine		Ü	10		10		10			U	4	
3-Chloropyridine		U	10		10		10			U	10	
4-Chloropyridine		U	10		10		10		9	U	10	
p-Fluoroaniline		U	10		10		10			U	10	
Pyridine	24	U	25	U								

Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value.

NA = Not analyzed

TABLE 5 FALL 2004 CANAL/QUARRY MONITORING RESULTS

ARCH CHEMICAL, INC. ROCHESTER, NEW YORK

WELL / POINT	QS-2		QS-3		QS-4		QS-5		SW-2	
DATE	11/30/200	4	11/30/200	4	11/30/200	4	11/30/200	4	11/30/200	4
QC	N		N		N	_	N		N	
VOLATILE ORGANIC COMPOUNDS						_				
BY SW-846 Method 8260/5ML (µg/L)										
PARAMETER										
1,1,1-Trichloroethane	5	Ū	5	U	5	Ū	5	Ū	5	Ū
1,1,2,2-Tetrachloroethane	5	Ū		Ū		Ū	5	U	5	
1,1,2-Trichloroethane	5	Ū		U	5	Ū	5	Ū	5	
1,1-Dichloroethane	5	Ū		Ū		Ū		U	5	
1,1-Dichloroethene	5	U	5	U		Ū		U	5	Ū
1,2-Dichloroethane	5	υ		Ū	5	Ū		U	5	U
1,2-Dichloroethene (total)	10	U	10	U	10	Ū	10	U	10	Ū
1,2-Dichloropropane	5	Ū	5	Ū	5	U	5	U	5	Ū
2-Butanone	25	U	25	U	25	Ū	25	U	25	Ū
2-Hexanone	25	Ū	25	U	25	Ū	25	U	25	Ū
4-Methyl-2-pentanone	25	C	25	U	25	Ū	25	U	25	Ū
Acetone	25	U	25	Ū	25	Ū	25	Ū	25	Ū
Benzene	5	U	5	Ū	5	Ū	5	U	5	U
Bromodichloromethane	5	U	5	U	5	Ū	5	U	5	U
Bromoform	5	J	5	U	5	Ū	5	Ū	5	Ū
Bromomethane	5		5	U	5	U	5	Ū	5	Ū
Carbon disulfide	5	Ū	5	U	5	U	5	U	5	U
Carbon tetrachloride	5	Ū	5	Ū	5	Ū	5	U	5	U
Chlorobenzene	5	U	5	U	5	Ū	5	U	5	U
Chloroethane	5	U	5	U	5	Ū	5	U	5	U
Chloroform	5	Ū	5	U	5	U	5	Ū	5	U
Chloromethane	5	U	5	U	5	Ū	5	Ū	5	Ū
cis-1,3-Dichloropropene	5	U	5	U	5	Ū	5	U	5	U
Dibromochloromethane	5	υ	5	U	5	Ū	5	U	5	Ū
Ethylbenzene	5	C	5	Ū	5	U	5	U	5	Ū
Methylene chloride	5	U	5	U	5	Ū	5	U	5	U
Styrene	5	c	5	U	5	U	5	Ū	5	U
Tetrachloroethene	5	U	5	U	5	Ū	5	U	5	U
Toluene	5	U	5	U	5	Ū	5	U	5	Ū
Total Xylenes	15	U	15	U	15	Ū	15	U	15	U
trans-1,3-Dichloropropene		Ū		U		Ū		U	5	
Trichloroethene	5	U	5	U	5	Ū	5	٦	5	U
Vinyl acetate	25		25	U	25	U	25	U	25	U
Vinyl chloride	5	Ū	5	U	5	Ū	5	U	5	U
SELECTED CHLOROPYRIDINES										
BY SW-846 Method 8270C (μg/L)										
2,6-Dichloropyridine	5		22		34		10		9	
2-Chloropyridine	5	J	68		100	_	_ 10	U	9	
3-Chloropyridine	10		10	Ū	10		10	U	9	
4-Chloropyridine	10	U	10	U	10	_	10	U	9	Ū
p-Fluoroaniline	10		10		10		10	U	9	
Pyridine	24	U	24	U	24	Ū	24	U	24	Ū

Notes:

U = Compound not detected; value represe sample quantitation limit.

J = Estimated value.

NA = Not analyzed

TABLE 6 EXTRACTION WELL WEEKLY FLOW MEASUREMENTS JUNE 2004 THROUGH NOVEMBER 2004

ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

63,029 66,149 52,564 57,192 55,675 50,335 55,133 59,271 58,052 57,994 54,741 41,838 36,213 59,863 64,902		108,591 111,978 85,299 68,097 58,229 52,936 73,074 58,506 58,691 65,044 66,760 73,442 69,758	54,614 67,381 52,805 58,969 62,514 60,228 57,951 56,175 55,870 60,346 64,999 63,612 59,167	13,250 15,030 12,770 11,760 12,990 * 12,400 * 11,630 10,890 9,960 4,100 6,650 9,150 5,680	3,132 12,793 30,773 20,530 21,703 23,052 18,111 20,211 19,042 20,724 17,342 16,763 8,369	19,871 2,711 10,325 33,237 Total [Gal.] 32,581 32,328 30,916 37,489 Total [Gal.] 33,317 31,804 34,091 35,700 35,798 Total [Gal.]	263,71° 277,598 245,452 250,70° 1,037,468 244,789 231,84° 246,978 242,544 966,152 234,962 240,012 244,598 240,508 214,988 1,175,063
66,149 52,564 57,192 55,675 50,335 55,133 59,271 58,052 57,994 54,741 41,838 36,213 59,863 * 64,902 *	1,556 916 922 1,097 562 163 2 30 0 12 4 0	111,978 85,299 68,097 58,229 52,936 73,074 58,506 58,691 65,044 66,760 73,442 69,758	67,381 52,805 58,969 62,514 60,228 57,951 56,175 55,870 60,346 64,999 63,612 59,167	15,030 12,770 11,760 12,990 * 12,400 * 11,630 10,890 9,960 4,100 6,650 9,150 5,680	12,793 30,773 20,530 21,703 23,052 18,111 20,211 19,042 20,724 17,342 16,763 8,369	2,711 10,325 33,237 Total [Gal.] 32,581 32,328 30,916 37,489 Total [Gal.] 33,317 31,804 34,091 35,700 35,798 Total [Gal.]	277,596 245,45; 250,70 1,037,466 244,789 231,84 246,979 242,544 966,159 240,011 244,599 240,500 214,989 1,175,066
66,149 52,564 57,192 55,675 50,335 55,133 59,271 58,052 57,994 54,741 41,838 36,213 59,863 * 64,902 *	1,556 916 922 1,097 562 163 2 30 0 12 4 0	111,978 85,299 68,097 58,229 52,936 73,074 58,506 58,691 65,044 66,760 73,442 69,758	67,381 52,805 58,969 62,514 60,228 57,951 56,175 55,870 60,346 64,999 63,612 59,167	15,030 12,770 11,760 12,990 * 12,400 * 11,630 10,890 9,960 4,100 6,650 9,150 5,680	12,793 30,773 20,530 21,703 23,052 18,111 20,211 19,042 20,724 17,342 16,763 8,369	2,711 10,325 33,237 Total [Gal.] 32,581 32,328 30,916 37,489 Total [Gal.] 33,317 31,804 34,091 35,700 35,798 Total [Gal.]	277,596 245,45; 250,70 1,037,466 244,789 231,84 246,979 242,544 966,159 240,011 244,599 240,500 214,989 1,175,066
52,564 57,192 55,675 50,335 55,133 59,271 58,052 57,994 54,741 41,838 36,213 59,863 * 64,902 *	916 922 1,097 562 163 2 30 0 12 4 0	58,229 52,936 73,074 58,506 58,691 65,044 66,760 73,442 69,758	52,805 58,969 62,514 60,228 57,951 56,175 55,870 60,346 64,999 63,612 59,167	12,770 11,760 12,990 * 12,400 * 11,630 10,890 9,960 4,100 6,650 9,150 5,680	30,773 20,530 21,703 23,052 18,111 20,211 19,042 20,724 17,342 16,763 8,369	10,325 33,237 Total [Gal.] 32,581 32,328 30,916 37,489 Total [Gal.] 33,317 31,804 34,091 35,700 35,798 Total [Gal.]	244,78 231,84 242,54 966,15 234,96 240,01 244,59 240,50 214,98 1,175,06
57,192 55,675 50,335 55,133 59,271 58,052 57,994 54,741 41,838 36,213 59,863 * 64,902 *	30 0 12 4 0	58,229 52,936 73,074 58,506 58,691 65,044 66,760 73,442 69,758	58,969 62,514 60,228 57,951 56,175 55,870 60,346 64,999 63,612 59,167	11,760 12,990 * 12,400 * 11,630 10,890 9,960 4,100 6,650 9,150 5,680	20,530 21,703 23,052 18,111 20,211 19,042 20,724 17,342 16,763 8,369	33,237 Total [Gal.] 32,581 32,328 30,916 37,489 Total [Gal.] 33,317 31,804 34,091 35,700 35,798 Total [Gal.]	250,70 1,037,46 244,78 231,84 246,97 242,54 966,15 234,96 240,01 244,59 240,50 214,98 1,175,06
55,675 50,335 55,133 59,271 58,052 57,994 54,741 41,838 36,213 59,863 * 64,902 *	1,097 562 163 2 30 0 12 4 0	58,229 52,936 73,074 58,506 58,691 65,044 66,760 73,442 69,758	62,514 60,228 57,951 56,175 55,870 60,346 64,999 63,612 59,167	12,990 * 12,400 * 11,630 10,890 9,960 4,100 6,650 9,150 5,680	21,703 23,052 18,111 20,211 19,042 20,724 17,342 16,763 8,369	32,581 32,328 30,916 37,489 Total [Gal.] 33,317 31,804 34,091 35,700 35,798 Total [Gal.]	244,789 231,84 246,976 242,544 966,152 234,962 240,012 244,599 240,509 214,988 1,175,066
50,335 55,133 59,271 58,052 57,994 54,741 41,838 36,213 59,863 * 64,902 *	30 0 12 4 0	52,936 73,074 58,506 58,691 65,044 66,760 73,442 69,758	60,228 57,951 56,175 55,870 60,346 64,999 63,612 59,167	12,400 * 11,630 10,890 9,960 4,100 6,650 9,150 5,680	23,052 18,111 20,211 19,042 20,724 17,342 16,763 8,369	32,581 32,328 30,916 37,489 Total [Gal.] 33,317 31,804 34,091 35,700 35,798 Total [Gal.]	244,788 231,84 246,976 242,54 966,152 234,966 240,013 244,599 240,500 214,988 1,175,066
50,335 55,133 59,271 58,052 57,994 54,741 41,838 36,213 59,863 * 64,902 *	30 0 12 4 0	52,936 73,074 58,506 58,691 65,044 66,760 73,442 69,758	60,228 57,951 56,175 55,870 60,346 64,999 63,612 59,167	12,400 * 11,630 10,890 9,960 4,100 6,650 9,150 5,680	23,052 18,111 20,211 19,042 20,724 17,342 16,763 8,369	32,328 30,916 37,489 Total [Gal.] 33,317 31,804 34,091 35,700 35,798 Total [Gal.]	231,84 246,978 242,544 966,152 234,962 240,012 244,598 240,508 214,988 1,175,063
50,335 55,133 59,271 58,052 57,994 54,741 41,838 36,213 59,863 * 64,902 *	30 0 12 4 0	52,936 73,074 58,506 58,691 65,044 66,760 73,442 69,758	60,228 57,951 56,175 55,870 60,346 64,999 63,612 59,167	12,400 * 11,630 10,890 9,960 4,100 6,650 9,150 5,680	23,052 18,111 20,211 19,042 20,724 17,342 16,763 8,369	32,328 30,916 37,489 Total [Gal.] 33,317 31,804 34,091 35,700 35,798 Total [Gal.]	231,84 246,976 242,544 966,156 234,966 240,017 244,596 240,506 214,988 1,175,066
55,133 59,271 58,052 57,994 54,741 41,838 36,213 59,863 * 64,902 *	163 2 30 0 12 4 0	73,074 58,506 58,691 65,044 66,760 73,442 69,758	57,951 56,175 55,870 60,346 64,999 63,612 59,167	9,960 4,100 6,650 9,150 5,680	18,111 20,211 19,042 20,724 17,342 16,763 8,369	30,916 37,489 Total [Gal.] 33,317 31,804 34,091 35,700 35,798 Total [Gal.]	246,976 242,544 966,155 234,966 240,015 244,596 240,506 214,988 1,175,066
58,052 57,994 54,741 41,838 36,213 59,863 * 64,902 *	30 0 12 4 0	58,506 58,691 65,044 66,760 73,442 69,758	55,870 60,346 64,999 63,612 59,167	9,960 4,100 6,650 9,150 5,680	19,042 20,724 17,342 16,763 8,369	37,489 Total [Gal.] 33,317 31,804 34,091 35,700 35,798 Total [Gal.]	242,54 966,15 234,96 240,01 244,59 240,50 214,98 1,175,06
58,052 57,994 54,741 41,838 36,213 59,863 * 64,902 *	30 0 12 4 0	58,506 58,691 65,044 66,760 73,442 69,758	55,870 60,346 64,999 63,612 59,167	9,960 4,100 6,650 9,150 5,680	19,042 20,724 17,342 16,763 8,369	37,489 Total [Gal.] 33,317 31,804 34,091 35,700 35,798 Total [Gal.]	242,54 966,15 234,96 240,01 244,59 240,50 214,98 1,175,06
58,052 57,994 54,741 41,838 36,213 59,863* 64,902*	30 0 12 4 0	58,691 65,044 66,760 73,442 69,758	55,870 60,346 64,999 63,612 59,167	9,960 4,100 6,650 9,150 5,680	19,042 20,724 17,342 16,763 8,369	33,317 31,804 34,091 35,700 35,798 Total [Gal.]	234,96 240,01 244,59 240,50 214,98 1,175,06
57,994 54,741 41,838 36,213 59,863 * 64,902 *	0 12 4 0	65,044 66,760 73,442 69,758	60,346 64,999 63,612 59,167	4,100 6,650 9,150 5,680	20,724 17,342 16,763 8,369	31,804 34,091 35,700 35,798 Total [Gal.]	240,01 244,59 240,50 214,98 1,175,06
57,994 54,741 41,838 36,213 59,863 * 64,902 *	0 12 4 0	65,044 66,760 73,442 69,758	60,346 64,999 63,612 59,167	4,100 6,650 9,150 5,680	20,724 17,342 16,763 8,369	31,804 34,091 35,700 35,798 Total [Gal.]	240,012 244,599 240,509 214,989 1,175,063
54,741 41,838 36,213 59,863 * 64,902 *	12 4 0	66,760 73,442 69,758 58,197	64,999 63,612 59,167 58,348	6,650 9,150 5,680	17,342 16,763 8,369	34,091 35,700 35,798 Total [Gal.]	244,59 240,50 214,98 1,175,06
54,741 41,838 36,213 59,863 * 64,902 *	12 4 0	66,760 73,442 69,758 58,197	64,999 63,612 59,167 58,348	6,650 9,150 5,680	17,342 16,763 8,369	34,091 35,700 35,798 Total [Gal.]	244,59 240,50 214,98 1,175,06
41,838 36,213 59,863 * 64,902 *	0	73,442 69,758 58,197	63,612 59,167 58,348	9,150 5,680	16,763 8,369	35,700 35,798 Total [Gal.]	214,98 1,175,06
36,213 59,863 * 64,902 *	0	69,758 58,197	59,167 58,348	5,680	8,369	35,798 Total [Gal.]	214,98 1,175,06
59,863 * 64,902 *	0	58,197	58,348			Total [Gal.]	1,175,06
64,902 *				5,815	23 // 31	34.650	240 30
64,902 *				5,815	23 /31	34.650	240.30
64,902 *				5,515			
		05.572		7,655	28,045 *	34,255	257,54
63,867	102	79,080	63,113	7,480	28,098 *	34,270	276,01
53,765	207	75,479	47,959	2,460	20,090	34,409	235,78
55,765	207	75,475	47,909	2,460	21,501	Totai [Gal.]	1,009,63
43,154	44	86,319	49,601	5,490	20,160 *	34,132	238,90
39.862	0	87.656	50,987	2,180	27,591	36,602	244,87
33,363	0	82,416	49,995	4,170	35,729	36,567	242,24
34,421	8	93,682	50,701	5,370	33,889	36,374	254,44
34,421	0	93,002	50,701	5,370	33,009	Total [Gal.]	980,46
							
38 687	50	78 101	62 381	7 920	29 144	36 715	252,99
,		- /	•			,	231,73
,				'		·	244,88
							212.67
						,	288,95
30,940	41	00,403	12,551	40,300	25,200	Total [Gal.]	1,231,24
				222.212			6.400,02
	38,687 58,495 53,447 32,766 50,940	58,495 75 53,447 95 32,766 152 50,940 47	58,495 75 61,481 53,447 95 64,881 32,766 152 53,717 50,940 47 68,469	58,495 75 61,481 37,535 53,447 95 64,881 30,361 32,766 152 53,717 53,997 50,940 47 68,469 72,537	58,495 75 61,481 37,535 5,320 53,447 95 64,881 30,361 31,000 32,766 152 53,717 53,997 29,140 50,940 47 68,469 72,537 40,386	58,495 75 61,481 37,535 5,320 32,768 53,447 95 64,881 30,361 31,000 32,157 32,766 152 53,717 53,997 29,140 17,638 * 50,940 47 68,469 72,537 40,386 25,200 *	58,495 75 61,481 37,535 5,320 32,768 36,057 53,447 95 64,881 30,361 31,000 32,157 32,948 32,766 152 53,717 53,997 29,140 17,638 * 25,260 50,940 47 68,469 72,537 40,386 25,200 * 31,379

¹⁾ Wells PW-10 and BR-7A underwent rehabilitation in November 2004

²⁾ Well BR-6A is performing poorly and is scheduled for replacement
3) * - Flow rate is estimated due to a meter failure

TABLE 7

MASS REMOVAL SUMMARY PERIOD: JUNE 2004 - NOVEMBER 2004

ARCH ROCHESTER FALL 2004 GROUNDWATER MONITORING REPORT

Well	Total Vol. Pumped	Avg. VOC	Avg. PYR.	VOCs Removed	PYR. Removed
	(gallons)	Conc. (ppm)	Conc. (ppm)	(pounds)	(pounds)
BR-5A	1,336,000	0.076	0.44	0.84	4.9
BR-6A	7,000	4.1	13	0.2	0.7
BR-7A	1,905,000	0.077	10	1.2	162
BR-9	1,459,000	0.002	0.18	0.024	2.2
PW-10	291,000	28	130	69	316
PW-11	588,000	0.023	2.2	0.11	10.8
PW-12	814,000	1.0	1.4	6.9	9.5
Totals:	6,400,000			78	506

Note: VOC and pyridine concentrations used in this table are an average of the analytical results from the Spring 2004 and Fall 2004 sampling events for each well

TABLE 8 2005 SAMPLING SCHEDULE ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

CH ROCHEST	EK					\vdash			005		
MONITORING PR	OGRAM					SPF	RING	F#	LL	то	TA
	Well	zone	area	Frequency/Parameters	Purpose	Pyridines	vocs	Pyridines	vocs	Pyridines	
FF-SITE	MW-103	ОВ	KODAK EAST	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	
MONITORING	BR-103	BR		annual monitoring, VOCs & PYR	trend monitoring	1 1	1	١. ١		1	
	MW-125	ОВ		semi-annual monitoring, VOCs & PYR	trend monitoring	1 1	1	1	1	2	
	BR-125	BR		semi-annual monitoring, VOCs & PYR	trend monitoring	1 1	1	1	1	2	ı
	MW-104	ОВ		annual monitoring, PYR	trend monitoring	1 1				1	ĺ
	BR-104	BR	BUFFALO RD	annual monitoring, PYR	trend monitoring	1 1	١.,			1	
	BR-105	BR	AID-HOSP	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1 1	1	2	
	BR-105D	BR deep	AID-HOSP	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1 1	1	1	1	2	ļ
	MW-106	OB	AID-HOSP	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1 1	1	1 1	1	2	l
	BR-106	BR	AID-HOSP	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring		'	' '	'	1	l
	BR-108	BR	AID-HOSP	annual monitoring, PYR	trend monitoring					1	l
	BR-112D	BR deep	NYSDOT	annual monitoring, PYR	trend monitoring					1	l
	BR-113D MW-114	BR deep OB	NYSDOT JACKSON	annual monitoring, PYR annual monitoring, VOCs & PYR	trend monitoring trend monitoring	Ιi	1			1	l
	BR-114	BR	JACKSON	annual monitoring, VOCs & FTR	trend monitoring	Ιi	;			1	l
	BR-116	BR	PFAUDLER	annual monitoring, PYR	trend monitoring	1 1	Ι΄.			1	l
	BR-116D	BR deep	PFAUDLER	annual monitoring, PYR	trend monitoring	Ιi	1			1	l
	BR-117D	BR deep	QUARRY	annual monitoring, PYR	trend monitoring	Ιi				1	l
	BR-118D	BR deep	QUARRY	annual monitoring, PYR	trend monitoring	Ιi		l .		1	l
	BR-122D	BR deep	QUARRY	annual monitoring, PYR	trend monitoring	1				1	l
	BR-123D	BR deep	QUARRY	annual monitoring, PYR	trend monitoring			i '		1	l
	NESS-E	BR deep	NESS	annual monitoring, PYR	trend monitoring	1 1	l			1	l
	NESS-W	BR deep	NESS	annual monitoring, PYR	trend monitoring	1				1	l
	PZ-101	BR	McKee Rd	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1 1	1	1	1	2	
	PZ-102	BR	McKee Rd	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	
	PZ-103	BR	McKee Rd	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	
	PZ-104	BR	ALH	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	Ĺ
	MW-126	ОВ	ALH	semi-annual monitoring, VOCs & PYR	trend monitoring	1	1	1	1	2	
_	BR-126	BR	ALH	semi-annual monitoring, VOCs & PYR	trend monitoring	1	1	1	1	2	
	MW-16	BR	Gen'l Circuits	annual monitoring, PYR	trend monitoring			1		1	
N-SITE	PZ-107	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	
ONITORING	PZ-106	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	trend monitoring	1	1	1 1	1	2	
	PZ-105	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	trend monitoring	1	1	1	1	2	
	BR-127	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	
	BR-3	BR	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	
	BR-8	BR	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1	1	١.		1	
	BR-9	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	2	1
	BR-5A	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1 '	2	
	BR-6A	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	2	
	BR-7A	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	2	
	B-17 B-7	OB	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	
		OB		annual monitoring, VOCs & PYR	trend monitoring			4		2	
	S-3	OB	ON-SITE	semi-annual monitoring, VOCs & PYR	continue until replaced by trench	1	1	1 1	4	2	
	S-4 E-1	OB	ON-SITE	semi-annual monitoring, VOCs & PYR semi-annual monitoring, VOCs & PYR	continue until replaced by trench		1 1	1 1	1	2	
	E-3	OB OB	ON-SITE	,	continue until replaced by trench		1	1	'		
		OB OB	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1 1	1		4	1	
	MW-127	OB	ON-SITE	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1 1	1	1		2	
	PW10	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1 1	1	1 1		2	
	PW11	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1 1	1	1 1	¦	2	
	PW12	pumping well pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1 1	1	1 1	1	2	
	PW13 PW14	pumping well	ON-SITE ON-SITE	semi-annual monitoring, VOCs & PYR semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring mass removal/trend monitoring	1	1	1		2	
UARRY/CANAL				temporary monitoring		 			1	2	+
OARRY/CANAL IONITORING	QS-2 QS-3	quarry seep	QUARRY	, , ,	risk evaluation/SPDES Permit	1 1	1 1	1 1		2	
DNIIZIONING	QS-3 QS-4	quarry seep	QUARRY QUARRY	temporary monitoring semi-annual monitoring, VOCs & PYR	risk evaluation/SPDES Permit trend monitoring					2	
	QS-4 QS-5	quarry seep quarry seep	QUARRY	temporary monitoring, VOCs & PYR	risk evaluation/SPDES Permit	1 1			1	2	
	QD-1	quarry outfall	DITCH	temporary monitoring	risk evaluation/SPDES Permit				1	2	
	QO-2	quarry outfall	DITCH	semi-annual monitoring, VOCs & PYR	trend monitoring					2	
	QD-2 QD-3	quarry outfall	DITCH	temporary monitoring	risk evaluation/SPDES Permit	;				2	
	QO-2S1	canal at outfall	CANAL	semi-annual monitoring, VOCs & PYR	surface water monitoring					2	
	QP-1	runoff pond	QUARRY	temporary monitoring	risk evaluation/SPDES Permit	1			1	2	

Appendix A

Groundwater Field Sampling Data Sheets



STL Buffalo

10 Hazelwood Drive, Suite 106 Amherst, NY 14228

FIELD REPORT

Tel: 716 691 2600 Fax: 716 691 7991 www.stl-inc.com

REMEDIAL INVESTIGATION SAMPLING ARCH CHEMICAL ROCHESTER, NEW YORK

FALL 2004 Event

Prepared For:

Harding Lawson Associates

511 Congress Street Portland, Maine 04112-7050

Attention: Mr. Nelson Breton

Prepared By:

SEVERN TRENT LABORATORIES, INC.

Audubon Business Center 10 Hazelwood Drive Amherst, New York 14228-2298

NY5A5762

Written By:

Roger Senf

Reviewed By:

Date:

12-22-04

1.0 INTRODUCTION

This report describes the sampling of the following points:

- Twenty-three (23) groundwater samples
- Two (2) barge canal samples
- Three (3) quarry outfall sample
- Five (5) quarry seep/pond samples

These activities were in support of the Phase II Remediation Investigation being conducted at the Arch Chemical facility in Rochester, New York. The samples were collected from November 15 – December 6, 2004 by Severn Trent Laboratories, Inc. (STL) personnel.

2.0 METHODOLOGIES

2.1 Water Level Measurements

Static water levels in all groundwater wells were measured from the top of the well casing/riser with an electronic water level indicator. All well bottoms were sounded with the weighted steel measuring tape. All measurements were recorded to the nearest hundredth of a foot (0.01 feet). The length of the measuring device which contacted the water was cleaned between wells with a deionized water rinse and paper towel wipe. These data are presented on Sampling Summary Table and Field Observation forms.

2.2 Well Purging

Monitoring wells were evacuated prior to sampling employing one of the following methods:

- Purging three (3) times the standing water volume using precleaned or dedicated 1.25" X
 stainless steel bailers, 2" X 5' polyvinyl chloride bailers, peristaltic pump or QED Low-Flow Bladder pumps.
- 2) Evacuated with the low flow/low stress puring technique using either QED Low-Flow Bladder pumps or a variable rate peristaltic pump.

Wells that were purged of three (3) standing volumes were mainly wells located on or very near the Erie Canal and historically purged with this method prior to sampling. The remaining wells were evacuated with a low flow/low stress purging technique. This technique involves the use of a variable flow rate bladder or peristaltic pump. The pumps were employed to purge the monitoring wells at a flow rate such that drawdown of the water column from static conditions is minimal. Field measurements of pH, specific

conductance, temperature, ORP, dissolved oxygen and turbidity are monitored every 3-5 minutes until stabilization of parameters is realized. Once stabilization has occurred, sampling can be conducted. All purged water was collected into 55-gallon drums for disposal at the on-site wastewater treatment facility. Data pertaining to each evacuation are presented on the Sampling Summary Table and field Observation Forms.

2.3 Surface Water Samples

Surface water samples were collected from one (1) location on the Erie Barge Canal, three (3) outfall samples and one (1) Pond Sample. Sample locations were noted on the Field Forms.

3.0 SAMPLING

3.1 Monitoring Wells

All groundwater wells were sampled using precleaned or dedicated 1.25" X 1.25" X 5' stainless steel bailers, perisaltic pumps or bladder (SamplePro) pumps when low flow purging techniques were used. Each bailer was constructed with teflon, bottom-filling check valve and was assembled without glues or welds. New ¼" poly rope was attached to each bailer. The bailer was slowly lowered into the water column, minimizing agitation and devolatilization. Low density polyethylene (LDPE) tubing was used with both the bladder (QED) and the peristaltic pumps. The bladder pumps were decontaminated between sample locations in accordance with the work plan. Personnel exercised care in all aspects of the sampling to ensure the collection of a representative sample An additional sample container was collected from each well in order to facilitate the measurement of field analytical parameters. Data pertaining to sampling are presented on the Sampling Summary Table and the Field Observation Forms.

3.2 Canal Sampling

When possible, samples were collected directly from the canal into appropriate sample containers. Otherwise, samples were collected with the use of a unique, laboratory-cleaned stainless steel bailer. The bailers were immersed just below the surface and removed. Sample was poured directly into the appropriate container. An additional container was collected to facilitate the measurement of field parameters. Additional data pertaining to these samples is presented in the Sampling Summary Table and Field Observation Forms.

3.3 Seep Sampling

Groundwater samples were collected from seeps at the quarry (QS2-QS5) located on Buffalo Road. The samples were collected with the use of a laboratory cleaned stainless steel bucket and was then poured directly into the appropriate containers. An additional container was collected to facilitate the measurement of field parameters. Data pertaining to this sampling is presented in the Sampling Summary Table and Field Observation Forms.

4.0 SAMPLE CONTAINERS

Monitoring wells and surface water samples requiring analysis for volatile organics were collected into 40 ml glass vials with teflon septa. Samples for semi-volatile and Pyridine analysis were collected into one (1) liter amber glass bottles with teflon-lined caps. All bottles were purchased new and cleaned (Protocol A, 300 series) from Environmental Supply Services. Each container was labeled with the following information:

- Sample Identification (Well/Point I.D.)
- Date
- Project Number
- Sampler's Initials

5.0 FIELD MEASUREMENTS

On-site field measurements were made of each sample's pH, specific conductance and temperature. All measurements were made in accordance with protocols outlined in Methods for Chemical Analysis of Water and Wastes (EPA -600/4-79-9020). These data were presented on the Sampling Summary Table and Field Observation Forms.

6.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

6.1 Trip Blanks

Trip blanks were collected with each sample shipment requiring volatile organic analysis. Each trip blank consisted of two 40 ml glass vials with teflon septa which were filled with deionized water at the STL laboratory. These blanks were transported to the site, stored with field collected samples and submitted to the STL facility for analysis.

6.2 Equipment Rinse Blank

Equipment rinse blanks were collected as required by the work plan.

7.0 CHAIN OF CUSTODY

Chain of custody was initiated at the time of sample collection and maintained through delivery to the STL facility in Amherst, New York. Copies of these documents are included in the analytical report package.

Date: 12/10/2004 Time: 11:09:08 Sampling Summary Table
HARDING LA ASSOCIATES
NOVEMBER 2004

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Rept: AN082

RI SAM	PLING/ROCHESTER	NY FACILITY
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Sample Point	—Water Level— Date Time	Water Level (ft)*	Water Elevation (ft)**	Bottom Of Well (ft)*	Field Measur Date	ements Time	pH (STD) (Units)	Spec. Cond. (umhos)	Temp (°C)	Turb. (NTU)	Other Field Measurem	ents
BR - 105	11/16/2004 1330	23.27	N/A	43.25	11/16/2004	1400	7.10	1755	13.7	1.15	EH(mv)= -245	DO(ppm)= 0.87
	Comments: CLEAR						- 4-	47070	4	4 50		
BR - 105D	11/16/2004 1310	24.18	N/A	79.65	11/16/2004	1340	7.13	13230	14.0	1.52	EH(mv)= -300	DO(ppm)= 0.69
BR - 106	Comments: CLEAR 11/16/2004 1139	23.49	N/A	40.28	11/16/2004	1210	7.14	3992	13.1	15.60	EH(mv)= -179	DO(ppm)= 0.56
BK-100	Comments: CLEAR	23.49	N/A	40.20	11/16/2004	1210	7.14	3992	13.1	13.00	En(111V) 1/9	00(ppiii)= 0.36
BR - 106	11/16/2004 1139	23.49	N/A	40.28	11/16/2004	1212	7.15	3992	13.1	15.40	EH(mv)= -180	DO(ppm)= 0.55
BR 100	Comments: CLEAR/			40.20	117 107 2004	1212	7.15	3,,,,	13.1	13.40		00(ppiii) - 0:33
BR-127	11/15/2004 1112	4.28	N/A	50.63	11/15/2004	1155	7.99	1109	12.9	15.20	EH(mv)= -205	DO(ppm) = 0.85
	Comments: CLEAR				,,							11,100
BR-5A	11/18/2004 1120	16.56	N/A	N/A	11/18/2004	1122	7.65	1683	14.8	3.92	EH(mv)= -77	
	Comments: CLEAR											
BR-6A	12/06/2004 945	10.38	N/A	N/A	12/06/2004	947	6.77	4082	16.7	20.30	EH(mv)= -96	
	Comments: CLEAR I	BLACK TIN	IT									
BR-7A	11/18/2004 1215	30.42	N/A	N/A	11/18/2004	1217	7.31	2993	15.3	17.50	EH(mv)= -135	
	Comments: CLEAR V	WITH BLAC	CK SPECKS 7.	48GPM								
BR-9	11/18/2004 1205	26.72	N/A	N/A	11/18/2004	1207	7.13	2672	15.7	272.00	EH(mv)= -80	
	Comments: TURBID	GREY SPE	CKS									
E - 1	11/15/2004 1408	0.47	N/A	8.30	11/15/2004	1430	8.50	12150	11.0	25.30	EH(m∨)= -247	DO(ppm) = 0.85
	Comments: CLEAR I	BLACK SPE										
MW-106	11/16/2004 1213	10.60	N/A	19.30	11/16/2004	1240	7.04	3483	13.8	12.70	EH(mv)= -148	DO(ppm) = 0.62
	Comments: CLEAR											
MW-127	11/15/2004 1039	4.71	N/A	11.25	11/15/2004	1105	7.49	4283	12.2	5.27	EH(mv)= -38	DO(ppm)= 0.69
MIL 14	Comments: CLEAR	11 7/	N / A	34.40	11 (17 (200)	1010	7.10	2045	15.0	2.63	EU(=v) = 201	00/
MW-16	11/17/2004 939 Comments: CLEAR	11.74	N/A	34.40	11/17/2004	1010	7.10	2865	15.0	2.03	EH(m∨)= -201	DO(ppm)= 0.83
PW-10	11/18/2004 1150	11.98	N/A	N/A	11/18/2004	1152	9.48	8223	16.3	15.10	EH(mv)= -112	
	Comments: BROWN		•	,,,	117 107 2004	1152	7.40	0223	10.5	13.10	En(my)- 112	
PW-11	11/18/2004 1010	30.67	N/A	N/A	11/18/2004	1015	6.83	2641	14.9	48.10	EH(mv)= -88	
	Comments: CLEAR 1			•			,-					
PW-12(BR-101)	11/18/2004 1110	19.26	N/A	N/A	11/18/2004	1113	7.56	4167	16.6	17.50	EH(m∨)= -112	
	Comments: CLEAR I	BLACK TIN	IT								•	

SG - Specific Gravity

^{*} From Top of Riser

EH - Redox

^{**} Elevation Above Sea Level

DO - Dissolved Oxygen

Date: 12/10/2004 Time: 11:09:04

Sampling Summary Table ASSOCIATES HARDING L NOVENULK 2004

RI SAMPLING/ROCHESTER NY FACILITY

Sample Point	—Water Level— Date Time	Water Level (ft)*	Water Elevation (ft)**	Bottom Of Well (ft)*	Field Measur Date	ements Time	pH (STD) (Units)	Spec. Cond. (umhos)	Temp (°C)	Turb. (NTU)	Other Field Measuren	nents
PW-13	11/18/2004 1048	27.45	N/A	50.61	11/16/2004	1115	6.99	2985	13.7	10.54	EH(mv)= -154	
	Comments: CLEAR											
PZ-101	11/17/2004 1053 Comments: CLEAR	14.16	N/A	21.60	11/17/2004	1115	6.85	6595	13.5	2.70	EH(mv)= -159	DO(ppm)= 0.90
PZ-102	11/17/2004 1137	13.51	N/A	32.53	11/17/2004	1200	7.30	6155	13.2	1.81	EH(mv)= -137	DO(ppm)= 0.87
102	Comments: CLEAR	, , , , ,	,		,,	,	,,,,,	•			=,	
PZ-103	11/17/2004 1218	12.40	N/A	32.45	11/17/2004	1240	7.44	4031	14.2	1.86	EH(m√)= -181	DO(ppm)= 1.29
	Comments: CLEAR E	BLACK SPE	CKS									.,
PZ-104	11/17/2004 1302	13.50	N/A	23.64	11/17/2004	1325	7.07	1984	15.9	2.20	EH(mv)= -129	DO(ppm) = 0.99
	Comments: CLEAR											
PZ-107	11/15/2004 1249	6.66	N/A	27.73	11/15/2004	1310	7.66	2513	13.6	5.18	EH(m√)= -141	DO(ppm) = 0.90
	Comments: CLEAR											
QD - 1	11/30/2004 1255	0.00	N/A	N/A	11/30/2004	1300	7.97	1420	8.9	59.90	EH(m∨)= 55	
	Comments: GREY T	INT										
QD-1	11/30/2004 1255	0.00	N/A	N/A	11/30/2004	1300	8.00	1419	8.9	59.90	EH(m∨)= 55	
	Comments: GREY T	INT/FIELD	DUP									
QD-2	11/30/2004 1005	0.00	N/A	N/A	11/30/2004	1010	7.92	1399	8.2	47.60	EH(mv)= 113	
	Comments: MILKY	TINT										
QO-2	11/30/2004 1025	0.00	N/A	N/A	11/30/2004	1030	7.94	1417	7.8	33.70	EH(mv)= 94	
	Comments: MILKY	TINT										•
QO-2S1	11/30/2004 1035	0.00	N/A	N/A	11/30/2004	1040	7.81	650	7.2	20.90	EH(mv)= 65	
	Comments: CLEAR											
QP-1	11/30/2004 1055	0.00	N/A	N/A	11/30/2004	1100	7.96	1402	9.2	55.40	EH(m∨)= 57	
	Comments: GREY T	INT										
QS-2	11/30/2004 1110	0.00	N/A	N/A	11/30/2004	1120	8.34	1262	7.6	5.15	EH(mv)= 37	
	Comments: CLEAR											
QS-3	11/30/2004 1120	0.00	N/A	N/A	11/30/2004	1125	8.11	1467	9.2	4.64	EH(m∨)≈ -15	
	Comments: CLEAR											
QS-4	11/30/2004 1135	0.00	N/A	N/A	11/30/2004	1140	8.04	1824	9.2	2.19	EH(mv)= -25	
_	Comments: CLEAR											
QS-5	11/30/2004 1145	0.00	N/A	N/A	11/30/2004	1150	8.30	802	6.6	5.91	EH(mv)= ~21	
	Comments: CLEAR											

SG - Specific Gravity

Page:

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^{*} From Top of Riser

EH - Redox

^{**} Elevation Above Sea Level

DO - Dissolved Oxygen

Date: 12/10/2004 Time: 11:09:0 Sampling Summary Table
HARDING L
ASSOCIATES
NOVEMBER 2004

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RI SAMPLING/ROCHESTER NY FACILITY

Sample	—Water Level—	Water	Water	Bottom	Field Measur	ements	рН	Spec.				
Point	Date Time	Level (ft)*	Elevation (ft)**	Of Well (ft)*	Date	Time	(STD) (Units)	Cond. (umhos)	Temp (°C)	Turb. (NTU)	Other Field Measure	ments
s-3	11/15/2004 1328	2.47	N/A	12.27	11/15/2004	1350	7.59	2401	10.1	7.44	EH(mv)= -98	DO(ppm)= 0.95
	Comments: CLEAR	BLACK SPE	CKS									
S-4	11/15/2004 1217	0.67	N/A	10.50	11/15/2004	1240	7.70	252	10.7	8.38	EH(mv)= -41	DO(ppm) = 0.90
	Comments: CLEAR											
SW-2(BRIDGE)	11/30/2004 1230	0.00	N/A	N/A	11/30/2004	1240	7.95	676	7.1	21.60	EH(mv)= 23	
	Comments: CLEAR									•		

SG - Specific Gravity

EH - Redox

DO - Dissolved Oxygen

^{*} From Top of Riser

^{**} Elevation Above Sea Level

Date: 12/22/2004 Time: 08: 7

Groundwater Elevation Report HARDING ON ASSOC. NOVEMBER 2004

ARCH-ROCHESTER WATER LEVEL MEASUREMENTS

Sample Point	Date	Time	Casing Elevation	Depth to Water	GW Elv.	Comments
B-1	11/10/2004	1228	0.00	9.33	N/A	
B-10	11/10/2004	1125	0.00	6.65	N/A	
B-11	11/10/2004	1101	0.00	3.47	N/A	
B-13	11/10/2004	1320	0.00	12.23	N/A	
B-14	11/10/2004	1322	0.00	7.80	N/A	
B-15	11/10/2004	1324	0.00	3.78	N/A	
B-16	11/10/2004	1330	0.00	4.17	N/A	
B-17	11/10/2004	1200	0.00	7.09	N/A	
B-2	11/10/2004	1225	0.00	10.32	N/A	
B-3	11/10/2004	1207	0.00	5.83	N/A	
B-4	11/10/2004	1236	0.00	12.73	N/A	
B-5	11/10/2004		0.00	9.94	N/A	
B-7	11/10/2004		0.00	13.54	N/A	
B-8	11/10/2004		0.00	7.82	N/A	
B-9	11/10/2004		0.00	N/A	N/A	BROKEN AT SURFACE AND BURIED UNDER ROCKS
BR-1	11/10/2004		0.00	8.29	N/A	
BR-102	11/10/2004		0.00	21.52	N/A	
BR-103	11/10/2004	1127	0.00	6.02	N/A	
BR-104	11/10/2004	1055	0.00	12.38	N/A	OBSTRUCTION AT 20FT
BR-105	11/10/2004		0.00	23.33	N/A	
BR-105D	11/10/2004		0.00	25.25	N/A	
BR-106	11/10/2004	1012	0.00	23.41	N/A	
BR-107	11/10/2004	0	0.00	N/A	N/A	DESTROYED
BR-108	11/10/2004	1000	0.00	25.08	N/A	
BR-111	11/10/2004	1152	0.00	28.84	N/A	
BR-111D	11/10/2004	1150	0.00	29.19	N/A	
BR-112A	11/10/2004	1138	0.00	27.51	N/A	
BR-112D	11/10/2004		0.00	36.51	N/A	
BR-113	11/10/2004	1218	0.00	31.51	N/A	
BR-113D	11/10/2004		0.00	31.48	N/A	
BR-114	11/10/2004		0.00	13.90	N/A	
BR-116	11/10/2004		0.00	28.61	N/A	
BR-116D	11/10/2004		0.00	35.75	N/A	
BR-117	11/10/2004	1240	0.00	25.50	N/A	

Date: 12/22/2004 Time: 08: 7

Groundwater Flevation Report HARDING (ON ASSOC. NOVENLL 2004

ARCH-ROCHESTER WATER LEVEL MEASUREMENTS

Sample Point	Date	Time	Casing Elevation	Depth to Water	GW Elv.	Comments
BR-117D	11/10/2004	1243	0.00	48.83	N/A	
BR-118	11/10/2004	1248	0.00	37.19	N/A	
BR-118D	11/10/2004	1250	0.00	48.15	N/A	
BR-119D	11/10/2004	1255	0.00	67.13	N/A	
BR-120D	11/10/2004	1230	0.00	56.74	N/A	
BR-121D	11/10/2004	1235	0.00	53.93	N/A	
BR-122D	11/10/2004	1315	0.00	44.65	N/A	
BR-123D	11/10/2004	1310	0.00	45.22	N/A	
BR-124D	11/10/2004		0.00	31.91	N/A	
BR-127	11/10/2004		0.00	3.80	N/A	
BR-2	11/10/2004		0.00	7.01	N/A	
BR-2A	11/10/2004		0.00	8.11	N/A	
BR-2D	11/10/2004		0.00	0.05	N/A	
BR-3	11/10/2004		0.00	10.44	N/A	
BR-3D	11/10/2004	1114	0.00	64.98	N/A	
BR-4	11/10/2004	1055	0.00	6.76	N/A	
BR-5	11/10/2004	1014	0.00	14.29	N/A	
BR-5A	11/10/2004	1019	0.00	16.57	N/A	0.00=FLOW RATE
BR-6	11/10/2004	1138	0.00	11.97	N/A	
BR-6A	11/10/2004	1135	0.00	10.08	N/A	0.00GPM = FLOW RATE
BR-7	11/10/2004		0.00	29.58	N/A	
BR-7A	11/10/2004		0.00	20.46	N/A	
BR-8	11/10/2004		0.00	9.81	N/A	
BR-9	11/10/2004		0.00	25.98	N/A	0.00GPM=FLOW RATE
C-1	11/10/2004		0.00	A\N	N/A	DESTROYED
C-2A	11/10/2004		0.00	7.13	N/A	
C-3	11/10/2004		0.00	N/A	N/A	BROKE AT GROUND SURFACE OBSTRUCTION AT 4.49FT
C-4	11/10/2004		0.00	N/A	N/A	BUILDING IN THIS AREA/WELL NO LONGER EXISTS
C-5	11/10/2004		0.00	9.19	N/A	
E-1	11/10/2004		0.00	0.69	N/A	
E-2	11/10/2004		0.00	4.85	N/A	
E-3	11/10/2004		0.00	7.70	N/A	
E-4	11/10/2004		0.00	N/A	N/A	OBSTRUCTION AT 2.83FT
E-5	11/10/2004	1007	0.00	6.35	N/A	

Date: 12/22/2004 Time: 08:0 7

Groundwater Elevation Report HARDING I ON ASSOC. NOVEMLER 2004

ARCH-ROCHESTER WATER LEVEL MEASUREMENTS

Sample Point	Date	Time	Casing Elevation	Depth to Water	GW Elv.	Comments
EC-1	11/10/2004	1200	0.00	18.40	N/A	
EC-2	11/10/2004	1210	0.00	N/A	N/A	DRY AT 12.69
ERIE CANAL	11/10/2004	1205	0.00	33.65	N/A	
MW-103	11/10/2004	1125	0.00	1.56	N/A	
MW-104	11/10/2004	1053	0.00	7.88	N/A	
MW-105	11/10/2004		0.00	N/A	N/A	DRY AT 18.90
MW-106	11/10/2004		0.00	10.86	N/A	
MW-107	11/10/2004	0	0.00	N/A	N/A	DESTROYED
MW-108	11/10/2004	1003	0.00	13.49	N/A	
MW-114	11/10/2004	1120	0.00	11.61	N/A	
MW-127	11/10/2004	1045	0.00	4.09	N/A	
MW-16	11/10/2004		0.00	11.35	N/A	
MW-2	11/10/2004	0	0.00	N/A	N/A	NOT FOUND
MW-3	11/10/2004	950	0.00	6.11	N/A	
MW-G6	11/10/2004		0.00	4.78	N/A	
MW-G7	11/10/2004		0.00	4.03	N/A	
MW-G8	11/10/2004		0.00	7.23	N/A	
MW-G9	11/10/2004		0.00	8.58	N/A	
N-1	11/10/2004		0.00	N/A	N/A	DAMAGED CASING/BAILER STUCK IN WELL AT 3.04FT
N-2	11/10/2004		0.00	4.64	N/A	
N-3	11/10/2004		0.00	7.21	N/A	
NESS-E	11/10/2004		0.00	26.53	N/A	
NESS-W	11/10/2004		0.00	31.77	N/A	
PW-10	11/10/2004		0.00	11.68	N/A	
PW-11	11/10/2004		0.00	17.95	N/A	
PW-12 (BR-101)	11/10/2004		0.00	18.08	N/A	3.29 G.P.M.
PW-13	11/10/2004		0.00	26.88	N/A	
PZ-101	11/10/2004		0.00	13.89	N/A	
PZ-102	11/10/2004	1035	0.00	13.32	N/A	
PZ-103	11/10/2004		0.00	12.21	N/A	
PZ-104	11/10/2004		0.00	13.28	N/A	
PZ-105	11/10/2004		0.00	8.68	N/A	
PZ-106	11/10/2004		0.00	10.94	N/A	
PZ-107	11/10/2004	1128	0.00	6.16	N/A	

STL Buffalo

Date: 12/22/2004 Time: 08:04 7

Groundwater Elevation Report HARDING I ON ASSOC. NOVEMELL 2004

ARCH-ROCHESTER WATER LEVEL MEASUREMENTS

Sample Point	Date	Time	Casing Elevation	Depth to Water	GW Elv.	Comments
S-1	11/10/2004	1145	0.00	3.78	N/A	
S-2	11/10/2004	1149	0.00	3.36	N/A	
S-3	11/10/2004	1133	0.00	2.56	N/A	
S-4	11/10/2004	1124	0.00	0.68	N/A	
W-1	11/10/2004	1230	0.00	N/A	N/A	UNABLE TO OBTAIN MEASUREMENT/OBSTRUCTION
W-2	11/10/2004	1220	0.00	11.54	N/A	
W-3	11/10/2004	1235	0.00	3.67	N/A	
W-4	11/10/2004	1239	0.00	4.02	N/A	
W-5	11/10/2004	1304	0.00	7.42	N/A	
W-6	11/10/2004	1257	0.00	12.26	N/A	

Facility: ARCH CHEMICAL	Sample Point ID: BR-105 Sample Matrix: 64
Field Personnel: P. Little . T. Paumer	Sample Matrix: 6W
MONITORTING WELL INSPECTION:	
Date/Time 11-16-04 1 1370	Cond of seal: Good () Cracked % () None () Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: () Unlocked () Good () Loose
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	1
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm) 1 - O
PURGE INFORMATION:	
Date / Time Initiated: n- K -091 /335	Date / Time Completed: 11-/6-041 /400
Surf. Meas. Pt: () Prot. Casing X Riser	Riser Diameter, Inches: 4.0
Initial Water Level, Feet: 23.27	Elevation. G/W MSL:
Well Total Depth, Feet: 43.25	Method of Well Purge: BLANK POINT Perissau Lune
ne (1) Riser Volume, Gal:	Dedicated: Y / 🕟
Total Volume Purged, Gal:	Purged To Dryness Y / (N)
Purge Observations:	Start Clec Finish Cher
DUDGE DATA (if applicable)	

PURGE DATA: (if applicable)

Time	_	ge Rate m/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other DO
1340	200	23,30		13.8	7.30	1986	1.94	-276	1.76
1345				13.8	7.10	1759	1,28	- 746	1-31
1350				13.7	7.10	1755	1.27	-245	1.10
1355				13.7	7,10	1754	1-20	- 246	0.96
1400	1			13.7	7.10	1755	1.15	- 2%	0.87

SAMBLE AT 1405 /11-16-04

PAGE 1 OF 2

SAMPLING	INFORMATIO	ON:	POINT ID BR-105					
Date/Time	11-16-64	<u> </u>	1405	Water Lev	rel @ Sampling,	Feet:	23.70	
Method of S	Sampling:	BLADO	n Punt		_Dedicated:	Y 100		
Multi-phase	ed/ layered:	() Yes	⋈ No	If YES:	() light	() heavy		
SAMPLING	DATA:		<u> </u>				n	
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other (/ひ)		
1400	/3.7	710	1755-	1.15	-245	0.87		
			-					
INSTRUME	ENT CHECK D	ATA:					<u>]</u>	
Turbidity Se	erial #:	NTU std.	=NTU	N	ITU std. =	NTU		
Solutions:	8-65.	- <u>E</u>	·		-			
	4-3135					0.0 std. =		
	ty Serial #:					umhos/cn	1=	
Solutions:	3077				_			
	INFORMATIO							
Weather co	nditions @ time	of sampling:						
Sample Cha	aracteristics:			· ·				
COMMENT	TS AND OBSE	RVATIONS:						
		-		<u>-</u>				
				 _				
<u> </u>								
I certify that protocals.	t sampling prod	cedures were in	n accordance w	ith all appli	cable EPA, Stat	e and Site-Spe	cific	
•	, .	_			_			
te:	1 1	By:			Company:			

Facility: ARCH CHEMICAL	Sample Point ID: BR-105D
Field Personnel: P. LIHHE, T. PALMER	Sample Matrix: 6ω
MONITORTING WELL INSPECTION:	
Date/Time 11- 16-04 1 1310	Cond of seal;
Prot. Casing/riser height:	Cond of prot. Casing/riser: () Unlocked () Good () Loose ★★Flush Mount () Damaged
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	/ % LEL: /
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm) /
PURGE INFORMATION:	
Date / Time Initiated: n-16 -091 1315	Date / Time Completed: 11-16 -041 1340
Surf. Meas. Pt: () Prot. Casing 💢 Riser	Riser Diameter, Inches: 2.0
Initial Water Level, Feet: 24, 18	Elevation. G/W MSL:
Well Total Depth, Feet: 79.65	Method of Well Purge: feinsmith Pomp
)ne (1) Riser Volume, Gal:	Dedicated: Y /
Total Volume Purged, Gal:	Purged To Dryness Y / (N)
Purge Observations:	Start Clear Finish Clear
PURGE DATA: (if applicable)	

Time	_	e Rate m/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other De
1320	150	25.04		14-0	7.00	12,690	8.10	-290	1.11
1325				14.2	7.07	12,720	4.13	- 291	0.93
1330				13.9	7. <i>1</i> 8	13, 190	1.44	-300	0.87
1335				13.9	7.17	13,200	1-82	- 300	0-77
1340	>	+		14.0	7.13	13.230	1.52	-300	0.69

SAMPLES AT 1345/11-16-04 fl Suc

PAGE 1 OF 2

SAMPLING	INFORMATIO	DN:		POINT ID	BA-105	0	
✓ Date/Time	11-16-64	<u>i /</u>	345	Water Level @ Sampling, Feet:			25.04
Method of S	ampling:	BLADA	EN PUNP		Dedicated:	Y 🐠	
Multi-phase	d/ layered:	() Yes	(9No	If YES:	() light	() heavy	
SAMPLING	DATA:		<u> </u>				
Time	Temp.	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other	
1340	14.0	7.13	13,230	1.52		0.69	
				<u> </u>			
							•
INSTRUME	NT CHECK DA	ATA:					
Turbidity Se	rial #:	NTU std.	=NTU	N	TU std. =	UTM	
Solutions:	8-65-	E	· · ·	· · · · · · · · · · · · · · · · · · ·			
).0 std. =	
Solutions:	4-3135	7-3117					
						umhos/cm	=
	3077	•					
GENERAL	INFORMATIO	N:					
Weather cor	nditions @ time	of sampling:					
Sample Cha	racteristics:			· · · · · · · · · · · · · · · · · · ·			
COMMENT	S AND OBSE	RVATIONS:					
·	· 						
			 				
·							
		·					
					-		
I certify that protocals.	sampling proc	edures were in	accordance w	rith all applic	cable EPA, Stat	e and Site-Spec	ific
e:	1 1	_ By:			Company:		

Field Personnel: P. Little, T. Palmer	Sample Point ID: BR-106 Sample Matrix: GW
MONITORTING WELL INSPECTION:	
Date/Time 11-16-09 1 1139	Cond of seal: (A) Good () Cracked % () None () Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: () Unlocked () Good () Loose () Flush Mount () Damaged
If prot.casing; depth to riser below:	() Damagea
Gas Meter (Calibration/ Reading): % Gas:	/
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm)
PURGE INFORMATION:	
Date / Time Initiated: 11-16-041 1130	Date / Time Completed: 11-16-04/ 12/0
Surf. Meas. Pt: () Prot. Casing X Riser	Riser Diameter, Inches: 4.0
Initial Water Level, Feet: 23.49	Elevation. G/W MSL:
Well Total Depth, Feet: 40,26	Method of Well Purge: BLANDEN PURP Becistain Purple
رسe (1) Riser Volume, Ga <u>l:</u>	Dedicated: Y / N
Total Volume Purged, Gal: 1.5	Purged To Dryness Y I (N)
Purge Observations:	Start Class Finish Class

PURGE DATA: (if applicable)

Time	_	e Rate n/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other 10
1155	200	23,55		12,9	7.04	3958	236	-/68	0.75
1200		}	3	13.6	7.10	3982	21.3	- 180	0.69
1205				13.1	7.15	3990	16.7	-180	0.60
1210	1			13.1	7.14	3992	15.6	-179	0.56
1212				13./	7.15	3992	15.4	- 180	0.55

SAMOUL AT 1215/HM 11-16-01

PLATE FILL POP PAGE 1 OF 2

SAMPLING	INFORMATIO	N:		POINT IE					
→ Jate/Time	Date/Time //-/6- €Y / 1/2/5			Water Lev	Feet:	23.xr			
Method of S	ampling:	Benoon	DUMP	Dedicated: Y 🗸					
Multi-phased	d/ layered:	() Yes	₩ No	If YES:	() light	() heavy			
SAMPLING	DATA:					·			
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (6M)	Other (🔎)			
1210	13. (7.14	39 92	15-6	-179	0.56			
,									
INSTRUME	NT CHECK DA	ATA:							
Turbidity Se	rial #:3923	NTU std.	= <u>5</u> w_NTU	5:01	ا۲U std. = <u>ح.</u> و	ַטדא			
Solutions:	8-65-	E	· · · · · · · · · · · · · · · · · · ·		_				
				.0 std.= <u>7</u> -	00 10	0.0 std. =			
	4-3135				-				
-	y Serial #: 		1910	umhos/cm=	1410	umhos/cm	=		
	INFORMATIO				_				
	nditions @ time								
Sample Cha	_	or oumpining.							
•	S AND OBSEF	DVATIONS.				 			
COMMENT	2 AND ODSER	KVATIONS:							
	_								
·									
•					· · · · · · · · · · · · · · · · · · ·				
 -									
I certify that protocals.	I certify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific								
e:	1 1	Ву:			Company:				
		. <i> - - - - - - - - </i>			_ Sompany.				

PAGE 2 OF 2

Facility: ARCH CHEMICAL	Sample Point ID: BR-127
Field Personnel: P. Little . T. Paune	Sample Matrix:
MONITORTING WELL INSPECTION:	
Date/Time //- 15 -04 / ///2	Cond of seal: (?) Good () Cracked % () None () Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: () Unlocked ≰ Good () Loose () Flush Mount () Damaged
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm / /
PURGE INFORMATION:	
Date / Time Initiated: 11-15-09/ 1/30	Date / Time Completed: 11- /5-04/ 1/5)
Surf. Meas. Pt: Prot. Casing	Riser Diameter, Inches:
Initial Water Level, Feet: 428	Elevation. G/W MSL:
Well Total Depth, Feet: 50-63 50-63	Method of Well Purge: ferissactic PomP
ne (1) Riser Volume, Gal:	Dedicated: Y / (N)
Total Volume Purged, Gal: 1.5	Purged To Dryness Y / (N)
Purge Observations:	Start Cler Finish Cler
DUDGE DATA: (% applicable)	

Time		e Rate n/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other 00
1135	мирт 100	4.28		12.9	7,71	1059	17.1	-205	1.19
1140				129	7.91	1071	17.6	- 209	1.06
1145				129	8.05	1106	15.7	-207	0.96
1150				12,8	8.00	1104	16.1	-206	0.90
1155	4	1		12.9	7.99	1109	15.2	→ 2 05	0.85
	SA	noul	Ai 1200/11 De Litte	-15-07	PAGE 1 OF	2	Field Form Revision 0		

SAMPLING	INFORMATIC	ON:		POINT ID			
-∂ate/Time	11-15-0	9 1	200			4.28	
Method of Sa	ampling:	Perism	con for		_Dedicated:	ØIN	
Multi-phased	l/ layered:	() Yes	₩ No	If YES:	() light	() heavy	
SAMPLING	DATA:		·				
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (W)	Other	
1155	12.5	7.99	1109	15.2	-205	0.85	
INSTRUME	NT CHECK DA	ATA:			'	<u></u>	
Turbidity Ser	rial #:	NTU std.	=NTU		ITU std. =	_NTU	
		E			_		
pH Serial #:	_	4.0 std.=	7.	.0 std.≃	1	0.0 std. =	
_							
Conductivity	Serial #:		1	umhos/cm=	<u> </u>	umhos/cm=	<u> </u>
	3077				_		
GENERAL I	NFORMATIO		•				
Weather con	ditions @ time	of sampling:					
	_	or oumpining.					
Sample Char	actenstics:						
COMMENTS	S AND OBSE	RVATIONS:					
							
l certify that protocals.	sampling proc	edures were ir	n accordance w	rith all appli	icable EPA, Stat	e and Site-Spec	ific
te:	, ,	Bv.			Company		
e.	1 1	_ By:			_ Company:		

PAGE 2 OF 2

cility:				Sample Point ID:		BR-SA GW		
Field Person	inel:	P. Little, T.	PALM -	Sample Ma	atrix:	() Grab () Composite		
SAMPLING	INFORMATIO	N:				() Grab () Co	omposite	
Date/Time	11-18-04	<u>, i l</u>	120	Water Lev	el @ Sampling,	, Feet:	16.56	
Method of S	ampling:	SAMPI	PONT		Dedicated:	(P) N		
Multi-phased	d/ layered:	() Yes	() No	If YES:	() light	() heavy		
SAMPLING DATA:								
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ok/)	Other (
1122	14.8	7.65	1683	3.92	-77			
INSTRUME	NT CHECK DA	TA:						
Turbidity Serial #:NTU std. =NTUNTU std. =NTU Solutions:								
0 1 4:				0 std.=	1	0.0 std. =	_	
Conductivity Solutions:			u		 _	umhos/cm=		
GENERAL	INFORMATION	N :						
Weather con	ditions @ time	of sampling:	c	(out) 5	o°			
Sample Cha	racteristics:		Chir			<u>-</u>		
COMMENT	S AND OBSER	RVATIONS:						
		_						
I cortify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific ocals.								
Date:	11 118104	Ву:	pl si	at	Company:	576		

LeachField Form Revision 0 March 15,2002

FIELD OBSERVATIONS

	1811	l 1223 02	,02,00,011				
Facility:				Sample Po	oint ID:	BK-GA	
≓eld Person	inel:	P. Little J	PALME	Sample Matrix:		6W	
SAMPLING	INFORMATIO	ON:				(Grab () C	composite
Date/Time	12-6-0	1 10	945	Water Lev	el @ Sampling	, Feet:	10,38
Method of Sa	ampling:	SS BAILLE	1		_Dedicated:	Y / KD	
fulti-phased	d/ layered:	() Yes	No No	If YES:	() light	() heavy	,
SAMPLING	DATA:						_
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ON)	Other ()	
8947	16.7	6.77	4082	20.3	-96		
							1
Serial #: olutions: onductivity	6-65 $6/9/62$ $4-3/35$ 9 Serial #: $990-30$	4.0 std.= 4.0 7-3117			-	0.0 std. = umhos/cm	
SENERAL I	INFORMATIO	N:					
Veather con	ditions @ time	of sampling:	Clours	300			
ample Char	racteristics:	Clei	- BLAIR	TINT			
OMMENTS	S AND OBSE	RVATIONS:	<u> </u>				
_ 							
certify that	sampling proc	edures were in	accordance wi	ith all applic	able FPA Stat	a and Sita-Snac	ific
ocals.			accordance w	in an applic	Jabie Li A, Glat	e and Site-Spec	,1110

acility:	ARCH	CHEMILAR		Sample Pe	oint ID:	BA-7.	<u>#</u>			
Field Persor	nnel:	P. Little , T.	PALME-	Sample M	atrix:	6w				
SAMPLING	INFORMATIO					() Grab () Co	omposite 7.48 6PM			
Date/Time	Date/Time		Water Lev	rel @ Sampling	, Feet:	30.42				
Method of S	ampling:	SAMPI	& POAT		_Dedicated:	⊘ / N				
Multi-phase	d/ layered:	() Yes	₩No	If YES:	() light	() heavy				
SAMPLING	DATA:									
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other (
(21)	15.3	7.31	2993	17.5	-135					
INSTRUME	INSTRUMENT CHECK DATA:									
Turbidity Se	rial #:	NTU std.	=	N	ITU std. =	_טדא				
Solutions:					-					
Serial #: Solutions:			7.	0 std.=	1 -	0.0 std. =				
Conductivity Solutions:	y Serial #:		u	mhos/cm=		umhos/cm	 ·			
GENERAL	INFORMATIO	N:	-		_					
Weather con	nditions @ time	of sampling:		16001						
Sample Cha					is Steep 1		 _			
•	S AND OBSE	RVATIONS:								
3 - min E(1)										
		-								
										
							_			
i certify that ocals.	sampling proc	edures were in	accordance wi	th all applic	able EPA, Stat	e and Site-Speci	fic			
Date:	11 118104	Bv:	Al Z	TT.	Company:	576				

LeachField Form Revision 0 March 15,2002 RR - 9 FIELD OBSERVATIONS Tacility: ARCH CHEMILAR Sample Point ID: Field Personnel: P. Little , T. PALMI-Sample Matrix:) Composite 7.53 61M SAMPLING INFORMATION: Date/Time //-/8-09 / /205 Water Level @ Sampling, Feet: SAMPIR PORT _____ Dedicated: (PIN Method of Sampling: Multi-phased/ layered: () Yes () No If YES: () light () heavy SAMPLING DATA: Time рΗ Conduct Turb. Other Other Temp. (or) (°C) (std units) (Umhos/cm) (NTU) 157 272 2672 1207 7-13 **INSTRUMENT CHECK DATA:** Turbidity Serial #: ____NTU std. = ___NTU __NTU std. = NTU Solutions: __ Serial #: 4.0 std.=____ 7.0 std.=____ 10.0 std. =____ Solutions: ____umhos/cm=_ ____umhos/cm= Conductivity Serial #: Solutions: **GENERAL INFORMATION:** Weather conditions @ time of sampling: Sample Characteristics: **COMMENTS AND OBSERVATIONS:**

I certify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific

	•	40	
_		ᇆ	

11 118104 By:

Al Lit Company: 576

Facility: ARCH CHEMICAL	Sample Point ID: E-I
Field Personnel: P. Little . T. Paune -	Sample Matrix: 66
MONITORTING WELL INSPECTION:	
Date/Time 11-15-04 1 1468	Cond of seal: () Good () Cracked
Prot. Casing/riser height:	レタレチ Cond of prot. Casing/riser: () Unlocked () Good () Loose () Flush Mount () Damaged
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	/
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm)
PURGE INFORMATION:	
Date / Time Initiated: n-15-091 1410	Date / Time Completed: 11-15-041 1430
Surf. Meas. Pt: () Prot. Casing	Riser Diameter, Inches:
Initial Water Level, Feet:	Elevation. G/W MSL:
Well Total Depth, Feet: 8.30	Method of Well Purge: Perissacia PomP
)ne (1) Riser Volume, Gal:	Dedicated: Ø/ N
Total Volume Purged, Gal: < 1.0	Purged To Dryness Y (N)
Purge Observations:	Start Finish Beach specks
PURGE DATA: (if applicable)	
Time Burge Bate Cumulative Temp	U Conduct Turb Other Other

Time	_	e Rate n/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other OK/	Other 0
1415	100	0.47		[1.]	8.50	12,950	38.80	-247	1.17
1420				/1./	8.55	12,160	34.7	- 247	0.48
1425				11.2	8.55	12,150	28,6	-248	0.90
1430	\bigvee_{-}			11.0	8.50	12,150	25.3	-247	0.85
				_					

SANDER DT 1435 /11-15-04

PAGE 1 OF 2

	INFORMATI	ON:		POINT I	E-1		
Date/Time	11-15-0	9 1 /	435	Water Lev	vel @ Sampling,	Feet:	0.47
Method of S	ampling:	Peris	TACK fund	, <u> </u>	_Dedicated:	ØIN.	
Multi-phased	d/ layered:	() Yes	W No	If YES:	() light	() heavy	
SAMPLING			·				
Time	Temp. _(°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other	
1470	11.00	850	12, 150	25.3	-247	0.85	
	<u> </u>	 			 _		
INSTRUME	NT CHECK D	DATA:					
Turbidity Se	rial #:	NTU std.	=NTU	1	NTU std. =	_טדע	
Solutions:	8-65	- E	·		_		
pH Serial #:		4.0 std.=	7.	.0 std.=	11	0.0 std. =	
Solutions:	4-3135	7-3117			_		
Conductivity	y Serial #:			ımhos/cm=		umhos/cm	=
Solutions:	3077				_		
GENERAL	INFORMATIO	ON:					
Weather cor	nditions @ tim	e of sampling:					
Sample Cha	racteristics:						
COMMENT	S AND OBSE	PVATIONS			· ·		
:	O AND ODGE	- NVAHONO.		_		 	-
	 						
I certify that protocals.	sampling pro	cedures were in	n accordance w	rith all appl	icable EPA, Stat	e and Site-Spec	ific

PAGE 2 OF 2

Field Personnel: P. LIHH. T. PALMER	Sample Point ID: mw-/06 Sample Matrix: 66
MONITORTING WELL INSPECTION:	
Date/Time 11-16-04 1 1213	Cond of seal: MGood () Cracked % () None () Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: () Unlocked () Good () Loose (Flush Mount () Damaged
If prot.casing; depth to riser below:	() Daimagou
Gas Meter (Calibration/ Reading): % Gas:	/ % LEL:
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm)
PURGE INFORMATION:	
Date / Time Initiated: n- K -091 1215	Date / Time Completed: 11-16-04/ /240
Surf. Meas. Pt: () Prot. Casing 💢 Riser	Riser Diameter, Inches: 2,0
Initial Water Level, Feet:	Elevation. G/W MSL:
Well Total Depth, Feet:	Method of Well Purge: Bi NO En Pond Bi NO En Pond Peris Santie Roma?
ne (1) Riser Volume, Gal:	Dedicated: Y / (N)
Total Volume Purged, Gal:	Purged To Dryness Y I
Purge Observations:	Start Change Finish Clar

PURGE DATA: (if applicable)

Time		e Rate n/h <u>tz</u>)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other OK!	Other po
1220	milan 150	1024		13.8	6.99	3465	84.0	=197	1.06
1225				13.8	7.04	3474	54,3	-147	. 42
1230				13.7	7.02	3475	30.1	-148	0.85
1235				13.8	7.06	3480	28.6	-148	0.77
1240				138	7.04	3483	12.7	-148	0.62

SAMPIN AT 1245 / 11-16-67

PAGE 1 OF 2

SAMPLING	INFORMATIC	N:		POINT ID	mw-10	· C	
)ate/Time	11-16.09	/ 1 /	242	Water Lev	/el @ Sampling,	Feet:	10.24
Method of Sa	ampling:	BLANDO	of Pins		_Dedicated:	YOF	
Multi-phased	l/ layered:	() Yes	₩No	If YES:	() light	() heavy	
SAMPLING	DATA:		· _			-	
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other	
1240	138	7.04	3483	12.7	-148	0.62	
				\			
				1			
INSTRUME	NT CHECK DA	ATA:					
					NTU std. =	ַטדא	
Solutions:	8-65-	- <u>E</u>	•				
		_			10	0.0 std. =	_
	-						
					<u> </u>	umhos/cm=	
	NFORMATIO				_		
	_	of sampling:		_			
Sample Char	racteristics:						
COMMENT	S AND OBSE	RVATIONS:	 :		·	···	
			····				
				_			
	_						
I certify that protocals.	sampling proc	edures were ir	accordance w	rith all appl	icable EPA, Stat	e and Site-Speci	fic
te:	1 1	Ву:			_ Company:		

PAGE 2 OF 2

Field Personnel: P. LIHR, T. PALMER	Sample Point ID: MW 127 Sample Matrix: 6W
Fleid Personnel:	Sample Matrix: 820
MONITORTING WELL INSPECTION:	
Date/Time 11-15-04 1039	Cond of seal: (A) Good () Cracked % () None () Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: () Unlocked 💢 Good () Loose () Flush Mount () Damaged
If prot.casing; depth to riser below:	() bailingsu
Gas Meter (Calibration/ Reading): % Gas:	1 - % LEL: -1 -
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm)
PURGE INFORMATION:	
Date / Time Initiated: n- 15 -091 1040	Date / Time Completed: 11-15-04/ 1105
Surf. Meas. Pt: () Prot. Casing X Riser	Riser Diameter, Inches: 2.0
Initial Water Level, Feet: 4.71	Elevation. G/W MSL:
Well Total Depth, Feet:	Method of Well Purge: Perissactic PomP
→ ne (1) Riser Volume, Gal:	Dedicated: (Ý) N
Total Volume Purged, Gal: < /.0	Purged To Dryness Y / (Ñ)
Purge Observations:	Start Clear Finish Clear

PURCE DATA: (if applicable)

Time		je Rate m/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other /o
1045	14mm 75	5.11		12.4	7.09	4235	6.23	-/	1.12
1050	≤ 0	5.22		124	7.46	4273	5.64	- 39	0.99
1027		5.30		12.3	7.49	4288	5.30	-38	6.95
1100		5.31		12.3	7.50	4280	5.33	- 38	0.78
1105	V	1		122	7.49	4283	5.27	- 38	0.69

SAMPLES AT 1110/11-15-09

PAGE 1 OF 2

SAMPLING	INFORMATIO	N:		POINT IE	mw-12	רי	
ate/Time	11-15-04	1 /	110	Water Lev	vel @ Sampling,	Feet:	5.31
Method of Sa	ampling:	Persia	inc Pomp		_Dedicated:	Ø/N	
Multi-phased	I/ layered:	() Yes	₩ No	If YES:	() light	() heavy	
SAMPLING	DATA:						
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other	
1105	12.2	7.49	4283	5.27	-38	0.69	
INSTRUME	NT CHECK DA	ATA:				<u> </u>	
Solutions:	8-65-	E			NTU std. = <u>5.0</u>		_
	4-3135						
-nductivity	Serial #:	men.		ımhos/cm=	- : 1910 _	umhos/cm	=
•	3077 NFORMATIO		· · · · · · · · · · · · · · · · · · ·		-		
	ditions @ time						
Sample Char	acteristics:						
COMMENTS	S AND OBSER	RVATIONS:					
							
							
I certify that protocals.	sampling proce	edures were ir	accordance w	rith all appl	icable EPA, Stat	e and Site-Spec	ific
F '9:	1 1	Ву:			_ Company:		
			DAGE 2 OF	0			

PAGE 2 OF 2

Facility: ARCH CHEMICAL	Sample Point ID: M W-/€
Field Personnel: P. Little, T. Pauner	Sample Matrix: 600
MONITORTING WELL INSPECTION:	
Date/Time 11-17-09 1 0 839	Cond of seal: Good () Cracked % () None () Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: () Unlocked () Good () Loose // Flush Mount () Damaged
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	_/_ % LEL:/
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm)
PURGE INFORMATION:	
Date / Time Initiated: n-17-091 0945	Date / Time Completed: 11-12 - 04/ 10/0
Surf. Meas. Pt: () Prot. Casing 🙀 Riser	Riser Diameter, Inches: 4. c
Initial Water Level, Feet:	Elevation. G/W MSL:
Well Total Depth, Feet: 34, 40	Method of Well Purge: Perinter Pomp
ne (1) Riser Volume, Gal:	Dedicated: Y / (N)
Total Volume Purged, Gal: < 1.0	Purged To Dryness Y /N
Purge Observations:	Start BLACK South Finish Clear
BURGE DATA: (if applicable)	

Time	_	e Rate n/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
0950	100	11.77		15.5	6.75	2971	10.47	-189	1.17
0955				14.9	7.02	2858	6.05	-200	1.01
1000				15.0	7.00	2860	3.97	220C)	0.95
1005				15.0	7.00	2862	3.73	-20/	0.89
1010	7	J		15.0	7.10	2865	2.63	-20/	0.83

SAMPLES AT 1015 /11-17-04
PAGE 1 OF 2

SAMPLING	INFORMATIO	ON:		POINT IE	mw-10	<u> </u>	
ate/Time	11-17-0	4 1 /	015	Water Lev	vel @ Sampling,	Feet:	11.77
Method of Sa	ampling:	BLAMEN	Pump		_Dedicated:	Y (N)	
Multi-phased	/ layered:	() Yes	K) No	If YES:	() light	() heavy	
SAMPLING	DATA:		<u>·</u>				
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other (&c)	
1010	15.0	7.10	2665	2.63	-201	0.83	
		 -			-		
INSTRUME	NT CHECK DA	ATA:	<u> </u>		<u> </u>	<u></u>	·
			= 50 NTU	S10 N	ITU std. = <u>್ರ</u> ೂ	NTU	
Solutions	8-65-	- E					
pH Serial #:	1201	_ 4.0 std.=_ <i>4</i> /		.0 std.= <u>フ</u> -	00 10	0.0 std. =	
	Cortal #	mP.20			-	umhos/cm=	
Solutions:						umnos/cm-	
GENERAL I	NFORMATIO	N:					
Weather con	ditions @ time	of sampling:					
Sample Char	acteristics:			· .			
COMMENTS	S AND OBSE	RVATIONS:					<u>·</u>
	· 		· ·				
							_
I certify that protocals.	sampling proc	edures were ir	n accordance w	ith all appli	icable EPA, Stat	e and Site-Specit	fic
te:	1 1	Ву:			Company:		

PAGE 2 OF 2

cility: ARCH CHEMILAR			Sample Point ID:		fw-10 6w		
Field Personnel: P. Liftle, T. PALME-			PALM -	Sample Matrix:		6W	
() Grab () Composite SAMPLING INFORMATION:							
Date/Time	11-18-04	<u> </u>	150	Water Lev	el @ Sampling,	Feet:	11.98
Method of Sa	ampling:	SAMPI	PORT		Dedicated:	O IN	
Multi-phased	i/ layered:	() Yes	() No	If YES:	() light	() heavy	
SAMPLING	DATA:						
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other (
1152	16.3	9.48	8223	15.1	- 112		
INSTRUME	NT CHECK DA	TA:					
Turbidity Serial #:NTU std. =NTUNTU std. =NTU							
Solutions:				<u> </u>			
		4.0 std.=	7.	0 std.=	10).0 std. =	
Solutions:					•		
Conductivity Serial #:umhos/cm=umhos/cm=						<u> </u>	
Solutions:							
GENERAL INFORMATION:							
Weather conditions @ time of sampling:							
Sample Characteristics:							
COMMENTS AND OBSERVATIONS:							
							
<u> </u>							
							_
cartify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific ocals.							
Date:	11 118104	Bv	N Lu	Ĩ.	Company:	576	

cility: ARCH CHEMICHE			Sample Point ID:		PW-11		
Field Personnel: P. Little, T. Palmer		PALM :-	Sample Matrix:		W) Grab () Composite		
SAMPLING INFORMATION:							
Date/Time	11-18-04	/ 1 10	1/0	Water Lev	vel @ Sampling,	Feet:	30.67
Method of Sampling:		SAMPIR PORT PER		Dedicated:		⊘ / N	
Multi-phased	d/ layered:	() Yes	K) No	If YES:	() light	() heavy	
SAMPLING	DATA:						
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other ()	
1015	14.9		2641	48.1	-80		
INSTRUME	NT CHECK DA	TA:					
Turbidity Serial #:NTU std. =NTUNTU std. =NTU Solutions:							
0 1 4:					10 -	0.0 std. =	
Conductivity Serial #:umhos/cm=umhos/cm=umhos/cm=							
GENERAL INFORMATION:							
Weather conditions @ time of sampling:							
Sample Characteristics: Clear With Gry and Black Stacks							
COMMENTS AND OBSERVATIONS:							
	-	<u>. </u>					
						-	
1 - applifus the et	campling	durae were :-	accordance ···	th all analls	nabla EDA C4-4	and 6:4- 6	fi a
I contify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific ocals.							
Date:	11 118104	Ву:	De Zue		Company:	STL	

cility: ARCH	CHEMILAR	Sample Point ID:	PW-12			
Field Personnel: P. Little, T. Palmi-		Sample Matrix:	() Grab () Composite			
SAMPLING INFORMATION:						
Date/Time //- / 8 - 0	4 1 1110	Water Level @ Sampling	, Feet: 19.25			
Method of Sampling:	SAMPLE PORT	Dedicated:	O IN			
Multi-phased/ layered:	() Yes (X) No	If YES: () light	() heavy			
SAMPLING DATA:						
Time Temp.	pH Conduct (std units) (Umhos/cm	Turb. Other (NTU) (? 1/4)	Other ()			
1113 166	7.56 4167	17.5 -112				
			}			
INSTRUMENT CHECK D	ATA:					
Turbidity Serial #:NTU std. =NTUNTU std. =NTU Solutions:						
Fri Serial #: 4.0 std.= 7.0 std.= 10.0 std. = Solutions:						
Conductivity Serial #:umhos/cm=umhos/cm=umhos/cm=						
GENERAL INFORMATION:						
Weather conditions @ time of sampling:						
Sample Characteristics: Cler Black Two						
COMMENTS AND OBSERVATIONS:						
		-				
I rtify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific						
ocals. Date: // //8/04	By: AL2	Lac Company:	571			

Field Personnel: P. LIHH. T. PALMER	Sample Point ID: Pw-13 Sample Matrix: 6w
MONITORTING WELL INSPECTION:	
Date/Time 11-16 -04 1 1048	Cond of seal: () Good () Cracked % None () Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: () Unlocked () Good () Loose () Flush Mount () Damaged
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm /
PURGE INFORMATION:	
Date / Time Initiated: n-16-691 1650	Date / Time Completed: 11-16-04/ 115
Surf. Meas. Pt: M Prot. Casing Riser	Riser Diameter, Inches: 60
Initial Water Level, Feet: 27, 45	Elevation. G/W MSL:
Well Total Depth, Feet: 50.01	Method of Well Purge: ferissaur Pump
ne (1) Riser Volume, Gal:	Dedicated: Y / N
Total Volume Purged, Gal: /· O	Purged To Dryness Y / N
Purge Observations:	Start <u>Clear</u> Finish <u>Clear</u>

PURGE DATA: (if applicable)

Time		e Rate n/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other o//	Other
1055	100	29.48		14.0	6.95	3247	125	-155	
1100				13.8	6.99	2928	12.6	- 154	
1105				13.8	7.00	2971	10.99	-153	
1110				13.7	7.00	2979	10.76	- 153	
1115	V	1		13.7	6.99	2985	10-54	-152	

SAMPLES AT 1120/11-16-04

PAGE 1 OF 2

	INFORMATI				Pn-13		
>⊃ate/Time	11-16-0	sy 1 /	120	Water Lev	el @ Sampling,	Feet:	29.48
Method of S	ampling:	Pearson	TIC POND		_Dedicated:	800	
Multi-phase	d/ layered:	() Yes	⋈ No	If YES:	() light	() heavy	
SAMPLING	DATA:		·	_			_
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other (
1115	13.7	6.99	2985	10.54	-152		
		<u> </u>		 			
L	<u> </u>		<u> </u>	<u> </u>	<u></u>	<u> </u>	
INSTRUME	NT CHECK D	ATA:					
•				<u>5.0 </u> N	ITU std. = <u>5-0</u>	_NTU	
Solutions:	8-65	- E	·		_		
		4.0 std.= <u> 4</u> フー 3パフ		.0 std.= <u>フ</u>	00 1	0.0 std. =	
				umbos/cm=	- 	umhos/cm	=
	<u> 3077</u>				<u> </u>		
GENERAL	INFORMATIC	DN:					
Weather co	nditions @ tim	e of sampling:					
Sample Cha	racteristics:			·	. 		
COMMENT	S AND OBSE	RVATIONS:					-
		•					
							
							
					·		
I certify that protocals.	sampling pro	cedures were in	n accordance w	vith all appli	icable EPA, Sta	te and Site-Spec	cific
te:	1 1	Pyr			Compone		
ic.	i	By:			_ Company:		

Facility: ARCH CHEMICAL	Sample Point ID: /2-/0/
Field Personnel: P. Little . T. Paune	Sample Matrix: GW
MONITORTING WELL INSPECTION:	
Date/Time 11-17 -04 1 1053	Cond of seal: (Good () Cracked
Prot. Casing/riser height:	Cond of prot. Casing/riser: () Unlocked (A) Good () Loose () Flush Mount () Damaged
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	% LEL:
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm) / /
PURGE INFORMATION:	
Date / Time Initiated: n-17-09/ 1055	Date / Time Completed: 11-17 - 041 //15
Surf. Meas. Pt: () Prot. Casing	Riser Diameter, Inches: 2.0
Initial Water Level, Feet:/4./6	Elevation. G/W MSL:
Well Total Depth, Feet: 21.60	Method of Well Purge: feri, sactic PomP
→ ne (1) Riser Volume, Gal:	Dedicated: (Ý) / N
Total Volume Purged, Gal:	Purged To Dryness Y / (N)
Purge Observations:	Start Cler Finish Cler

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		/htz) Volume		pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other /C
1100	150	WL 14.42		13.6	6.76	6591	3.48	-158	1.10
1105		14.47		13.4	6.83	6597	3,50	-160	1.00
1110			_	13.5	6.85	6596	3.40	-159	0-96
1115		\downarrow		13.5	6:85	6595	2.70	-159	0.90
			1						

SAMIN AT 1120 /11-17-09

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SAMPLING	INFORMATI			POINT ID	P2-10		
vate/Time	11-17-	04 1	1120	Water Lev	vel @ Sampling,	Feet:	14.47
Method of Sa	ampling:	Perisin	era Pomp		_Dedicated:	(N	
Multi-phased	l/ layered:	() Yes	HNO	If YES:	() light	() heavy	
SAMPLING	DATA:		·				
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other	
1115	13.5	6.85	6595	2.70	-159	0.90	
						· .	
INSTRUME	NT CHECK [DATA:					
Turbidity Se	rial #:	NTU std.	=NTU		ITU std. =	NTU_	
Solutions:	8-65	- <u>F</u>	·		_		
pH Serial #:		4.0 std.=	7	.0 std.=	1	0.0 std. =	_
Solutions:	4-3135	7-3117			_		
Conductivity	/ Serial #:			umhos/cm=	<u> </u>	umhos/cm=	
Solutions:	3077	 			_		
GENERAL I	INFORMATIO	ON:		4			
Weather con	iditions @ tim	e of sampling:					
Sample Cha	racteristics:			<u>. </u>	-		
COMMENT	S AND OBSE	ERVATIONS:				_	
e		•					
							
							
		 _					
I certify that	sampling pro	cedures were i	n accordance w	vith all appl	icable EPA, Stat	e and Site-Spec	ific
protocals.		-3-4, 05 HOIG II	addar dalloc F	an appi	ivavio mi A, Viai	una one-opeu	
e:	1 1	Ву:			Company:		

Facility: ARCH CHENICAL	Sample Point ID: P2-102
Field Personnel: P. Little . T. Paumer	Sample Matrix: 6W
MONITORTING WELL INSPECTION:	
Date/Time 11-17-09 1 1137	Cond of seal: X Good () Cracked % () None () Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: () Unlocked & Good () Loose () Flush Mount () Damaged
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	/ - % LEL:/
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm / /
PURGE INFORMATION:	
Date / Time Initiated: 11-17-091 /140	Date / Time Completed: 11-17-04/ 1200
Surf. Meas. Pt: () Prot. Casing	Riser Diameter, Inches: 2.0
Initial Water Level, Feet: 13.51	Elevation. G/W MSL:
Well Total Depth, Feet: 32.53	Method of Well Purge: <u>feri, sautic Pump</u>
ne (1) Riser Volume, Gal:	Dedicated: (Ŷ/ N
Total Volume Purged, Gal: 1.0	Purged To Dryness Y /N
Purge Observations:	Start <u>Clar</u> Finish <u>Clar</u>

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other OL/	Other <i>PD</i>
1145	ML/mm	13.90		13.1	7.32	6081	2.57	-136	.99
1150				129	7.30	6135	1,52	-137	0.95
1155				13,2	7,30	6150	1.90	-137	0.90
1200	V	1		132	7.30	6155	1.81	-137	087

SAMPLE AF 1205/11-17-04

PAGE 1 OF 2

SAMPLING	INFORMATI	ON:		POINT ID	P2-107	<u> </u>	
Date/Time	11-17-0	7 1 1	705	Water Lev	el @ Sampling,	Feet:	13.90
Method of Sa	ampling:	Price	nem fund		_Dedicated:	ON	
Multi-phased	l/ layered:	()Yes	₩ No	If YES:	() light	() heavy	
SAMPLING	DATA:		<u>.</u>				
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other	
/200	13.2	7.30	6155	1.81	-/37	0.87	
		-		-			
INSTRUME	NT CHECK D	DATA:				<u></u>	
		NTU std.			ITU std. =	NTU.	
		4.0 std.= フ- 3パフ			10	0.0 std. =	_
-	Serial #:		_			umhos/cm	=
Solutions:	3077				_		
	INFORMATIO						
Weather con	ditions @ tim	e of sampling:					
Sample Chai	racteristics:						
COMMENT	S AND OBSE	RVATIONS:					
·	<u> </u>						
							
I certify that protocals.	sampling pro	cedures were in	n accordance w	vith all appli	cable EPA, Stat	e and Site-Spec	ific
ie:	, ,	Ву:			Company:		
	'				_ company.		

Facility: ARCH CHEMICAL	Sample Point ID: P2-103
Field Personnel: P.Little, T. Palmer	Sample Matrix: 6ω
MONITORTING WELL INSPECTION:	
Date/Time //- 17 -04 1 12 18	Cond of seal: (A) Good () Cracked % () None () Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: () Unlocked (A) Good () Loose () Flush Mount () Damaged
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	/% LEL:/
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm)
PURGE INFORMATION:	
Date / Time Initiated: n- 17 -091 1220	Date / Time Completed: /i- i7 - 04/ /240
Surf. Meas. Pt: () Prot. Casing	Riser Diameter, Inches: 2.0
Initial Water Level, Feet: 12.40	Elevation. G/W MSL:
Well Total Depth, Feet:32.45	Method of Well Purge: ferissactic RomP
)ne (1) Riser Volume, Gal:	Dedicated: (F) / N
Total Volume Purged, Gal:	Purged To Dryness Y I(N) BLACK SPLAN Characteristics
Purge Observations:	Start <u>Clas</u> Finish <u>Black Sleeks</u>

PURGE DATA: (if applicable)

Time		e Rate n/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ok	Other 00
1225	mi/nr 100	12.47		14.2	7.35	4013	2.41	-177	2.11
1230				14.0	7.40	3988	1.97	-180	1.80
1235				14.2	7.43	4035	1.94	-181	1.36
1240	1	V		14.2	7.44	4031	1.86	- 18/	1,29
								_	

SAMPINA AT 1245/11-17-04
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PAGE 1 OF 2

Method of Sam	oling: yered:	() Yes	K No		vel @ Sampling, _Dedicated: () light	Y /N	12.47
Multi-phased/ la	Temp.	() Yes	₩ No				
SAMPLING DA	Temp.	рН	<u> </u>	If YES:	() light	() heavy	
-	Temp. (°C)		<u>. </u>				
-	_(°C)						I
12 40	147	(std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other	
	-///2	7.44	4031	1.86	-181	1.29	
INSTRUMENT	CHECK DA	ATA:					
Turbidity Serial	#:	NTU std.	=NTU		NTU std. =	_NTU	
Solutions:							
pH Serial #:		4.0 std.=	7.	.0 std.=	10	0.0 std. =	
Solutions:	4-3135	7-3117			-		
Sonductivity Se				ımhos/cm=		umhos/cm	=
Solutions:	3077	· · · · · · · · · · · · · · · · · · ·			-		
GENERAL INF	ORMATIO	N:					
Weather condit	ions @ time	of sampling:					
Sample Charac	teristics:						
COMMENTS A	ND OBSE	RVATIONS:				_	-
<u></u>		***			· · · · · · · · · · · · · · · · · · ·		
							
		_					
							

Facility: ARCH CHEMICAL	Sample Point ID: P2-Ic4
Field Personnel: P. Little, T. Paumer	Sample Matrix: 6ω
MONITORTING WELL INSPECTION:	
Date/Time 11-17-04 1 1302	Cond of seal: (Good () Cracked % () None () Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: () Unlocked () Good () Loose
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm)
PURGE INFORMATION:	
Date / Time Initiated: n-17 -oyı 13 os	Date / Time Completed: 11-17 -04/ 1325
Surf. Meas. Pt: () Prot. Casing MRiser	Riser Diameter, Inches: 2.0
Initial Water Level, Feet:	Elevation. G/W MSL:
Well Total Depth, Feet: 23. 64	Method of Well Purge: Perissacia PomP
ne (1) Riser Volume, Gal:	Dedicated: (Y)/ N
Total Volume Purged, Gal: / O	Purged To Dryness Y / N
Purge Observations:	Start Cher Finish Cler
PURGE DATA: (if applicable)	

Time		e Rate n/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other 🕢	Other Oo
1310	200	13.59		15.9	6.48	1960	4.94	-127	1.50
1315				15.9	7.05	1980	2.86	-129	1.27
1320				15.9	7.06	1981	2.27	-129	1-11
1325	\downarrow			15.9	7:07	1984	2.20	-129	0.99
				_					

SAMPILI AT 1330 /11-17-04

PAGE 1 OF 2

SAMPLING	INFORMATI	ON:		POINT IE	P2-10	9	
,Date/Time	11-17-0	4 1 1	330	Water Lev	vel @ Sampling,	Feet:	13.59
Method of Sa	mpling:	Perista	su pum		_Dedicated:	(V) N	
Multi-phased	/ layered:	() Yes	Ø No	If YES:	() light	() heavy	
SAMPLING	DATA:		<u> </u>				
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)		Other (Ac)	
1325	15.9	7.07	1984	2.20	-129	0.99	
		 					 - .
INSTRUMEN	NT CHECK E	ATA:					
Turbidity Ser	ial #:	NTU std.	=NTU		NTU std. =	_NTU	
Solutions:	8-65	- E	<u> </u>		_		
						0.0 std. =	
Solutions:	4-3135	7-3117			_		
				umhos/cm=	<u> </u>	umhos/cm	=
Solutions: _	3077_						
GENERAL I	NFORMATIO	ON:					
Weather con-	ditions @ tim	e of sampling:					
Sample Char	acteristics:						
COMMENTS	S AND OBSE	ERVATIONS:					
:.		-					<u> </u>
	_ _						
							
							
I certify that protocals.	sampling pro	cedures were i	n accordance v	vith all appl	icable EPA, Stat	te and Site-Spec	sific
te:	1 1	Ву:			Company:		
	_ 				_ company.		

PAGE 2 OF 2

Facility: ARCH CHEMICAL	Sample Point ID: PZ-/e7
Field Personnel: P. Little . T. Palme-	Sample Matrix: 6W
MONITORTING WELL INSPECTION:	
Date/Time 11-15-09 1 1249	Cond of seal: () Good () Cracked% () None () Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: () Unlocked () Good () Loose () Flush Mount () Damaged
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm)/
PURGE INFORMATION:	
Date / Time Initiated: 11-15 -09/ 1250_	Date / Time Completed: 11-15-04 130
Surf. Meas. Pt: () Prot. Casing X Riser	Riser Diameter, Inches:
Initial Water Level, Feet: 6.66	Elevation. G/W MSL:
Well Total Depth, Feet: 27.73	Method of Well Purge: Perissaula PomP
ne (1) Riser Volume, Gal:	Dedicated: Ø/N
Total Volume Purged, Gal: 1.0	Purged To Dryness Y / 🗗
Purge Observations:	Start Clean Finish Clean

PURGE DATA: (if applicable)

Time	_	je Rate m/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other Oo
D 55	100 100	6.73		13.6	7.48	2443	5.66	-124	1.11
1300				13.5	7.59	2509	5.60	- 140	1.00
135				13.5	7.60	2510	5.58	- 142	0.96
1310				136	7.66	2513	5.18	-141	0-90

SAMPLES AT 1315/11-15-09

Re Live

PAGE 1 OF 2

SAMPLING	INFORMATIC	N:		POINT ID	PZ-107	<u></u>	
Date/Time	11-15-04	1_/	315	Water Lev	vel @ Sampling,	, Feet:	6.78
Method of S	ampling:	Perisin	the fums	 	_Dedicated:	DIN	
					() light		
SAMPLING	DATA:						
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ()	Other (00)	
1310	13.6	7.66	2513	5.18	-141	0.90	
			<u> </u>				
INSTRUME	NT CHECK DA	ATA:					
					ITU std. =	_NTU	
Solutions:	8-65-	<u> </u>		i	-	,	
		=				0.0 std. =	
Solutions:	H-3135	7-3117			-		
•					 _	umhos/cm	
	3077				_		
GENERAL	INFORMATIO	N:					
Weather con	nditions @ time	of sampling:					<u> </u>
Sample Cha	racteristics:			· ·			
COMMENT	S AND OBSEI	RVATIONS:				_	-
II		-		· · · · · · · · · · · · · · · · · · ·			
							
	·						
			 				
I certify that protocals.	sampling proc	edures were ir	n accordance w	rith all appli	icable EPA, Stat	te and Site-Spec	ific
	, ,	D			0		
e:	<u> </u>	_ By:			_ Company:		

Facility: ARCH CHENICAL	Sample Point ID: 5-3
racinty. Process Cherinene	
Field Personnel: P. Little . T. Palmer	Sample Matrix: 66
MONITORTING WELL INSPECTION:	
Date/Time 11- 15-04 1 1326	Cond of seal: () Good () Cracked
Prot. Casing/riser height:	Cond of prot. Casing/riser: () Unlocked () Good
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	/ % LEL:/
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm)
PURGE INFORMATION:	
Date / Time Initiated: 11-15-091 1370	Date / Time Completed: 11-15-041 /350
Surf. Meas. Pt: () Prot. Casing	Riser Diameter, Inches:
Initial Water Level, Feet: 2.47_	Elevation. G/W MSL:
Well Total Depth, Feet: 12.27	Method of Well Purge: ferissaulic PomP
ne (1) Riser Volume, Gal:	Dedicated: 🐑 N
Total Volume Purged, Gal: /. 🔾	Purged To Dryness Y /(j)
Purge Observations:	Start BLACK TWT Finish Cher BURK SPUT)

PURGE DATA: (if applicable)

Time		ge Rate m/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other Oo
1335	pre/ar Koo	2.47		10.7	7.48	2393	22.5	-/00	1.55
1340				10.3	7.59	2402	7.85	-99	1.14
1345				10.2	7.58	2402	8.29	- 99	5. 9 8
1350	\downarrow	1		10.1	7.59	2401	7.44	- 98	0.95

SAMPLES AT 1355 /11-15-09

SULLINE

PAGE 1 OF 2

SAMPLING	INFORMATIO	ON:		POINT ID	<u>و</u> ۔ک		
⊃ate/Time	11-15-04		355	Water Lev			
Method of Sa	ampling:	Perist	agic pom	·	_Dedicated:	(Y) N	
Multi-phased	/ layered:	() Yes	₩ No	If YES:	() light	() heavy	
SAMPLING	DATA:	<u> </u>	<u>.</u>				
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other (<i>D</i> o)	
1350	10.1	7.59	2401	7.44	- 98	0.85	
	.		 		-		
INSTRUME	NT CHECK D	ATA:	<u> </u>	<u> </u>			
142 I KOMEI	MI GHEGK D	nia.					
					ITU std. =	NTU	
•		- E			-		
pH Serial #:		_ 4.0 std.=	7.	0 std.=	10	0.0 std. =	_
Solutions:	4-3135	7-3117			-		
				ımhos/cm=		umhos/cm	=
Solutions:	3077				_		
	NFORMATIO		•	·			
Weather con	ditions @ time	of sampling:					
Sample Char	acteristics:			·			
COMMENTS	S AND OBSE	RVATIONS:					
			-				
						_	
				-			
I certify that protocals.	sampling proc	edures were ir	n accordance w	ith all appli	cable EPA, Stat	e and Site-Spec	ific
`e:	1 1	_ Ву:			_ Company:		

Facility: ARCH CHEMICAL	Sample Point ID: 5-4
Field Personnel: P. Little . T. Paume	Sample Matrix: 6ω
MONITORTING WELL INSPECTION:	
Date/Time 11-15-09 1 1217	Cond of seal: (4) Good () Cracked% () None () Buried
Prot. Casing/riser height:	♥A⊶F Cond of prot. Casing/riser:﴿﴿ Unlocked () Good () Loose () Flush Mount () Damaged
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm)/
PURGE INFORMATION:	
Date / Time Initiated: n-15-091 1220	Date / Time Completed: 11-15-04/ 12Yo
Surf. Meas. Pt: () Prot. Casing ₩ Riser	Riser Diameter, Inches:
Initial Water Level, Feet: 0-67	Elevation. G/W MSL:
Well Total Depth, Feet:/0.5°	Method of Well Purge: Perissaulic Pump
)ne (1) Riser Volume, Gal:	Dedicated: (Y) / N
Total Volume Purged, Gal: /. O	Purged To Dryness Y (N)
Purge Observations:	Start Cler Finish Cler
DUDGE DATA: (if applicable)	

PURGE DATA: (if applicable)

Time		e Rate n/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other 00
1225	nutan 100	067		10.8	7.23	355	8.26	-36	1.09
1230				10.6	7.58	252	8.50	-40	1.01
1235				10.6	7.68	252	8.81	- 41	0.96
1240				10.7	7.70	252	B.38	-41	0.90

SAMAN AT 1245 /11-15-64

SAMAN AT 1245 /11-15-64

PAGE 1 OF 2

	INFORMATI				5-9		
Date/Time	11-15-09	1 /	245	Water Le	vel @ Sampling	, Feet:	0.67
Method of Sa	ampling:	Peris	TACTU PUME		_Dedicated:	EIN	
Multi-phased	d/ layered:	() Yes	(XNO	If YES:	() light	() heavy	
SAMPLING	DATA:						
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (oxr)	Other	
RYO	10.7	7.70	252	8.38	-41	0.70	
		+					
NSTRUME	NT CHECK D	DATA:				<u></u>	
			=NTU		NTU std. =	_NTU	
Solutions:	8-65	-E	-		_		
pH Serial #:	·	4.0 std.=	7	.0 std.=	1	0.0 std. =	
Solutions:	4-3135	7-3117			_		
Sonductivity	y Serial #:			umhos/cm=	 _	umhos/cm	=
Solutions:	3077				_		
	INFORMATIO						
Weather con	nditions @ tim	e of sampling:		_			
	racteristics:						
COMMENT	S AND OBSE	RVATIONS:					
						· · · · · · ·	
							
				 .			
				 			
certify that	sampling pro	cedures were i	n accordance w	vith all appl	licable EPA, Sta	te and Site-Spec	ific

acility:	ARCH -	CM - ROCH., NY R. SEUE/P. LITTLE		Sample Point ID:		$\frac{\mathcal{GD} - /}{\mathcal{S} \mathcal{W} - \mathcal{S} \mathcal{K} \mathcal{F}}$ $\mathbf{\mathcal{M}}$ Grab () Composite	
Field Person	nnel:	R. SEUF	. CITICR	Sample Matrix:		5/w-SERA	
	INFORMATIO					ØGrab ()C	omposite
Date/Time	11-30-0	4 11	255	Water Lev	el @ Sampling,	Feet:	NA
					Dedicated:		
					() light		
SAMPLING	DATA:						
	Time	Temp. (°C)		Conduct (Umhos/cm)	Turb. (NTU)	Other	Other (
Grab 1	1300	 	1		59.9		
Grab 2	1301	8,9	8.00	1419	59.9	55	
Grab 3							
solutions: pH Serial #: Solutions: Conductivity Solutions:	CHa 616806 4 -3133 y Serial #: 6	NTU std.: -48- £ 4.0 std.= 4.	<u>0</u> 7	7.0 std.= <u>フ</u> .・ アー <i>3ハフ</i>		NTU).0 std. = umhos/cm	
	INFORMATIO		COUR	04, 40	°C		
Sample Char	_		TINT				
COMMENT	S AND OBSER	RVATIONS:		FIRLO	DUPLICA	TA	
protocals.	sampling proce	edures were in By:	accordance	with all applic	able EPA, State	and Site-Spec	fic

Facility:	ARCH -	ROCH., A	17	Sample P	oint ID:	90-2	<u> </u>
Field Person	ARCH -	R. SANE/P	. LITILR	Sample M	atrix:	5/w - ⋈Grab () C	SERP
SAMPLING	INFORMATIC	N:				Ø Grab () C	omposite
Date/Time	11-30-0	4 1/0	005	Water Lev	rel @ Sampling	, Feet:	NA
Method of S	ampling:	MANUA	ic G	ZAB	_Dedicated:	YN	
Multi-phased	d/ layered:	() Yes	₩ No	If YES:	() light	() heavy	
SAMPLING	DATA:						
	Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ()
Grab 1	1010	8,2	7.92	1399	47.6	113	
Grab 2							
Grab 3							
urbidity Se Solutions: pH Serial #: Solutions: Conductivity Solutions:	NT CHECK DA rial #: <u>\$202</u> CHQ 616806 4 -3135 Serial #: 64	NTU std.: -48- £ 4.0 std.= 4.	0	7.0 std.= <u>フ</u> ファ3ハフ	- <u>0</u> 1 -	_NTU 0.0 std. = umhos/cm	
	NFORMATION		C (00	21 100	c		
Sample Char	racteristics:	MICKY	TINI				
COMMENTS	S AND OBSER	RVATIONS:		· · · · · · · · · · · · · · · · · · ·			
protocals.	sampling proce	dures were in	accordance PAGE 1 0	with all applic	cable EPA, State	e and Site-Spec	fic

Facility:	ARCH -	ROCH., A	17	Sample Point ID:		90-2	
Field Perso	ARCH -	R. Save/p	CITICR	Sample M	atrix:	S/w - ⋈ Grab () C	SERP
SAMPLING	S INFORMATIO	ON:				Ø Grab ()C	omposite
Date/Time	11-30-0	4 1/	025	Water Lev	el @ Sampling,	, Feet:	N/A
Method of S	Sampling:	MANUA	ic GR	AB	Dedicated:	YN	
Multi-phase	ed/ layered:	() Yes	Mo	If YES:	() light	() heavy	
SAMPLING	DATA:		_				
	Time	Temp.		Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other (
Grab 1	1030	7.8	7.91	1417	33,7	94	
Grab 2							
Grab 3							
INSTRUME	ENT CHECK D	ATA:		<u> </u>	<u></u>		
urbidity Se	erial #: <u>5202</u>	NTU std.	=NTU	20.0N	TU std. = <u>20.0</u>	<u>'</u> NTU	
Solutions:	СНа	-48-E					
pH Serial #:	616806	4.0 std.= 4.	<u>v</u>	7.0 std.= <u>フ.</u> フェスノノフ		0.0 std. =	
Solutions:	ry Serial #: 6	3077		umnos/cm=_ 		umhos/cm	=
	INFORMATIO						
Weather co	nditions @ time	of sampling:	CLOU	104, 40°	·F		
	S AND OBSE						
				· · ·			
			,				
ertify that protocals.	sampling proc	edures were in	accordance	with all applic	able EPA, State	e and Site-Speci	ific
Date:	11 1301 04	Rv∙	Q -	81	Company:	576	

Facility:	ARCH -	ROCH., A	17	Sample Po	Sample Point ID:		90-251		
Field Persor	ARCH -	R. SENE/p	LITTLR	Sample M	atrix:	5/w - ⋈ Grab () C	SERA		
SAMPLING	INFORMATIO	ON:				Ø Grab () C	omposite		
Date/Time	11-30-0) 4 1)	035	Water Lev	el @ Sampling,	Feet:	N/A		
Method of S		MANUA				YN			
Multi-phase	d/ layered:	() Yes	₩No	If YES:	() light	() heavy			
SAMPLING	DATA:						_		
	Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other ()		
Grab 1	1040	7.2	7.81	650	20.9	65			
Grab 2									
Grab 3									
	INSTRUMENT CHECK DATA: Irbidity Serial #: 5202 NTU std. =NTU 20.0NTU std. = 20.0 NTU								
	riai #: <u>3292</u> CHQ		=NIU	<u>~~~</u> N	10 Sta. = 2010	ַטואַ			
pH Serial #: Solutions:	616806	4.0 std.= <i>4.</i>	0 7	7.0 std.= <u>フ.</u> フー <i>3ハフ</i>	<u>0</u> 10	0.0 std. =			
Conductivity Solutions:	/ Serial #: 6	16 806	14-10	_umhos/cm=_	1410	umhos/cm	=		
GENERAL	INFORMATIO	N:							
Weather con	ditions @ time	of sampling:	Cloud	7, 40°C	: 				
Sample Chai	racteristics:	CLEAR		<u> </u>					
COMMENT	S AND OBSE	RVATIONS:							
									
				_			·		
protocals.	sampling proce	edures were in	accordance	with all applic	able EPA, State Company:	and Site-Speci	fic		
•			PÁGÉ 1 O	F 1	•				

		FIELD OF	SERVAII	IONS			
-acility:	ARCH -	ROCH.,	Sample Point ID: SEUF P. CITICE Sample Matrix:			GP-1	
Field Perso	nnei:	R. SEUF	CITICR	Sample M	atrix:	$\frac{\mathcal{GP}-1}{\mathcal{SW}-\mathcal{SKR}}$ $\mathcal{M}(\mathbf{Grab}())$ Composite	
SAMPLING	INFORMATIC	DN:				ØGrab ()C	omposite
Date/Time	11-30-0	4 11	055	Water Lev	el @ Sampling,	Feet:	NA
Method of S	Sampling:	MANU	oc GRI	98	Dedicated:	YN	
	d/ layered:					() heavy	
SAMPLING	DATA:						_
	Time	Temp. (°C)	pH ((std units) (l	Conduct Jmhos/cm)	Turb. (NTU)	Other	Other ()
Grab 1	1100	9,2	7.96	1402	55,4	57	
Grab 2							
Grab 3							
INSTRUME	NT CHECK DA	ATA:					
	erial #: <u>5202</u>	-		20.0 _N	TU std. = <u>20.0</u>	NTU	
	СНа						
pH Serial #: Solutions:	4-3135	_ 4.0 std.= <i>_</i>	<u>0</u> 2	7.0 std.= <u>フ.</u> - <i>3ハフ</i>).0 std. =	
Conductivit	y Serial #: 6	16 806	1410	_umhos/cm=_	1410	umhos/cm	=
Solutions:	3	3027					
GENERAL	INFORMATIO	N:					
Weather cor	nditions @ time	of sampling:	CLOUDY	1, 40°F			
Sample Cha	racteristics:	GRAY	TINT				
COMMENT	S AND OBSER	RVATIONS:					
				·			
						_	
ertify that protocals.	sampling proce	edures were in	accordance v	with all applic	able EPA, State	and Site-Spec	ific
Date:	11 1301 04	By:	03 8	21	Company:	576	
			PAGE 1 OF	1			

LeachField Form Revision 1 January 29, 2003

,Facility:	ARCH -	ROCH., A	17	Sample Po	Sample Point ID:		<u> 95-2</u>		
Field Person	PRCH -	R. SEUF/P	LITTLE	Sample M	atrix:	5/w -	SERA		
SAMPLING	INFORMATIC	N:				ØGrab ()C	omposite		
Date/Time	11-30-0	4 1	1110	Water Lev	el @ Sampling,	Feet:	N/A		
Method of Sa	ampling:	MANUA	C 61	ZAB	Dedicated:	YN			
Multi-phased	i/ layered:	() Yes	Mo	If YES:	() light	() heavy			
SAMPLING	DATA:								
11111	Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other (
Grab 1	1120	7,6	9.34	1262	5,15	37			
Grab 2									
Grab 3									
solutions: pH Serial #: Solutions: Conductivity Solutions: GENERAL I	INSTRUMENT CHECK DATA: Jrbidity Serial #: $\frac{5202}{CHa}$ NTU std. = NTU $\frac{20.0}{A}$ NTU std. = $\frac{20.0}{A}$ NTU Solutions: $\frac{CHa}{A} - \frac{48 - E}{A}$ PH Serial #: $\frac{616806}{A} = \frac{4.0}{A}$ Std. = $\frac{4.0}{A}$ 7.0 std. = $\frac{7.0}{A}$ 10.0 std. = $\frac{7.0}{A}$ Solutions: $\frac{4-3135}{A}$ $\frac{7-3117}{A}$ Conductivity Serial #: $\frac{616806}{A}$ $\frac{1410}{A}$ umhos/cm= $\frac{1410}{A}$ umhos/cm= $\frac{1410}{A}$ Solutions: $\frac{3077}{A}$ GENERAL INFORMATION: Weather conditions @ time of sampling: $\frac{CCO40-1}{A}$ $\frac{40^{\circ}E}{A}$								
Sample Char		CLEAR							
COMMENTS	S AND OBSER	RVATIONS:							
protocals.	sampling proce	edures were in By:	accordance PAGE 1 0	e with all applic	able EPA, State	e and Site-Speci	fic		

LeachField Form Revision 1 January 29, 2003

		FIELD OF	SERVAT		w i				
-acility:	ARCH -	ROCH., A	17	Sample Po	oint ID:	95- Sw-	3		
Field Persor	ARCH -	R. SRUE/P	. CITICR	Sample M	atrix:	5/w -	SERA		
	INFORMATIO					Ø Grab () C	omposite		
Date/Time	11-30-0	4 1	1120	Water Lev	el @ Sampling,	, Feet:	NA		
Method of S	ampling:	MANUA	ic GR	AB	Dedicated:	YN			
Multi-phase	d/ layered:	() Yes	No	If YES:	() light	() heavy			
SAMPLING	DATA:								
	Time	Temp. (°C)	,	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other (
Grab 1	1125	9.2		1467	4.64	-15			
Grab 2									
Grab 3				-					
urbidity Se Solutions: pH Serial #: Solutions: Conductivity Solutions: GENERAL	INSTRUMENT CHECK DATA: urbidity Serial #: $\frac{5202}{0.0}$ NTU std. =NTU $\frac{20.0}{0.0}$ NTU std. = $\frac{20.0}{0.0}$ NTU Solutions: $\frac{0.00}{0.0}$ 4.0 std. = $\frac{4.0}{0.0}$ 7.0 std. = $\frac{7.0}{0.0}$ 10.0 std. =								
Weather cor	nditions @ time	of sampling:		0) 40					
·	S AND OBSEF				<u></u>				
protocals.	sampling proce	edures were in	accordance PAGE 1 OI	with all applic	able EPA, State	e and Site-Speci	fic		

Facility:	ARCH -	ROCH.	レン	Sample P	Sample Point ID:		$\frac{GS-4}{SW-SRRS}$ $\frac{SW-SRRS}{W(Grab () Composite}$		
Field Persor	ARCH -	R. SRUE/	O. CITICA	Sample M	atrix:	5h -	SERP		
SAMPLING	INFORMATIO	DN:				ØGrab ()C	omposite		
Date/Time	11-30-0	4 1	1135	_ Water Lev	vel @ Sampling	, Feet:	NA		
Method of S	ampling:	MANU	96 6	RAB	_Dedicated:	YN			
Multi-phase	d/ layered:	() Yes	₩No	If YES:	() light	() heavy			
SAMPLING	DATA:								
	Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other (
Grab 1	1140	9.2	8.04	1824	2.19	-25			
Grab 2									
Grab 3			 						
Solutions: pH Serial #: Solutions: Conductivity Solutions: GENERAL Weather con	rial #: <u>\$202</u> CHa 616806 4 -3135 Serial #: 63 INFORMATION ditions @ time	-48-E 4.0 std.= 4. 16 806 3077 N:	0	7.0 std.= 7. 7 - 3/17 2_umhos/cm=	<i>141</i> 0	_NTU 0.0 std. = umhos/cm			
•						<u> </u>			
COMMENTS	S AND OBSER	RVATIONS:							
protocals.	sampling proce	edures were in By:	accordanc PAGE 1 C	0 1	cable EPA, Stat Company:	e and Site-Speci	fic 		

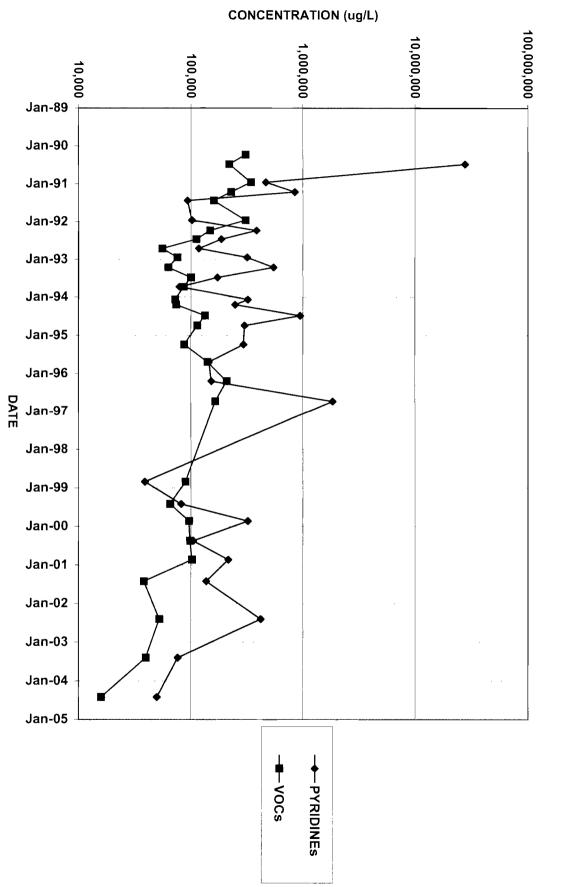
Facility:	PRCH - ROCH., NY R. SRUE P. CITICE			Sample Po	oint ID:	95-5	
Field Persor	nnel:	R. SAUF	CITICA	Sample M	atrix:	SW - SEEP Grab () Composite	
SAMPLING	INFORMATIC	N:				Ø Grab () C	omposite
Date/Time	11-30-0	4 1 /	1145	. Water Lev	el @ Sampling	, Feet:	N/A
	ampling:					-	
Multi-phase	d/ layered:	() Yes	⋈ No	If YES:	() light	() heavy	
SAMPLING	DATA:						
	Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ()
Grab 1	1150	6.6	8,30	802	5,91	-21	
Grab 2							
Grab 3							 ,
orbidity Secondarions: pH Serial #: Solutions: Conductivity Solutions:	NT CHECK DA rial #: <u>\$202</u> CHa 616806 4 -3135 y Serial #: 67	NTU std.: -48- E 4.0 std.= 4.	<i>v</i>	7.0 std.= <u>フ</u> ・フ・3/1フ	<u>0</u> 1	umhos/cm	
Weather cor	ditions @ time	of sampling:	CLOU	10%, 40°P	-		
Sample Cha	racteristics:	CLEAR					 -
COMMENT	S AND OBSER	RVATIONS:	-				
protocals.	sampling proce		_	_		e and Site-Spec	ific

-acility:	ARCH -	ROCH., A	17	Sample P	oint ID:	5W-3	2
Field Person	nnel:	R. SAUR/P	CITTLE	Sample M	latrix:	SW-2 SW-SKRA W Grab () Composite	
SAMPLING	INFORMATIC	N:				Ø Grab () C	omposite
Date/Time	11-30-0	4 1 /	230	Water Lev	vel @ Sampling,	, Feet:	NA
Method of S	ampling:	MANUA	ic GR	AB	_Dedicated:	YN	
					() light	() heavy	
SAMPLING	DATA:						
	Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (のペク)	Other ()
Grab 1	1240	7.1	7,95	676	21,6	23	
Grab 2							
Grab 3							
INSTRUME	NT CHECK DA	ATA:		-			
urbidity Se	erial #: <u>520</u> 2	NTU std.	=NTU	20.0N	ITU std. = <u>20.0</u>	<u>L</u> NTU	
	СНа				-		
pH Serial #:	616806	4.0 std.= 4.	<u> </u>	7.0 std.= <u>フ</u>		0.0 std. =	
					_		
Solutions:	y Serial #: 6	3077		umnos/cm≃ __ 		umhos/cm	= <u></u>
	INFORMATIO						
Weather cor	nditions @ time	of sampling:	Cod	Dy, 40%	<u> </u>		
Sample Cha		CLEAR		•			
COMMENT	S AND OBSER	RVATIONS:					
ertify that protocals.	sampling proce	dures were in	accordance	with all applic	cable EPA, State	e and Site-Spec	ific
Date:	11 1301 04	Ву:	<u> </u>	81	Company:	576	_
			PAGE 1 O	F1/			_

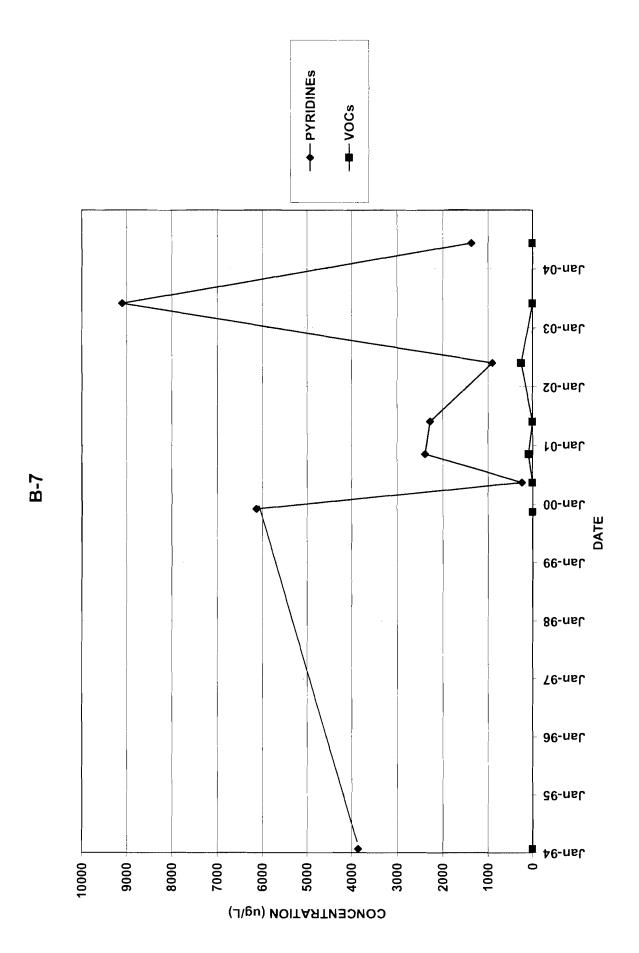
A xibneqqA

Well Trend Data



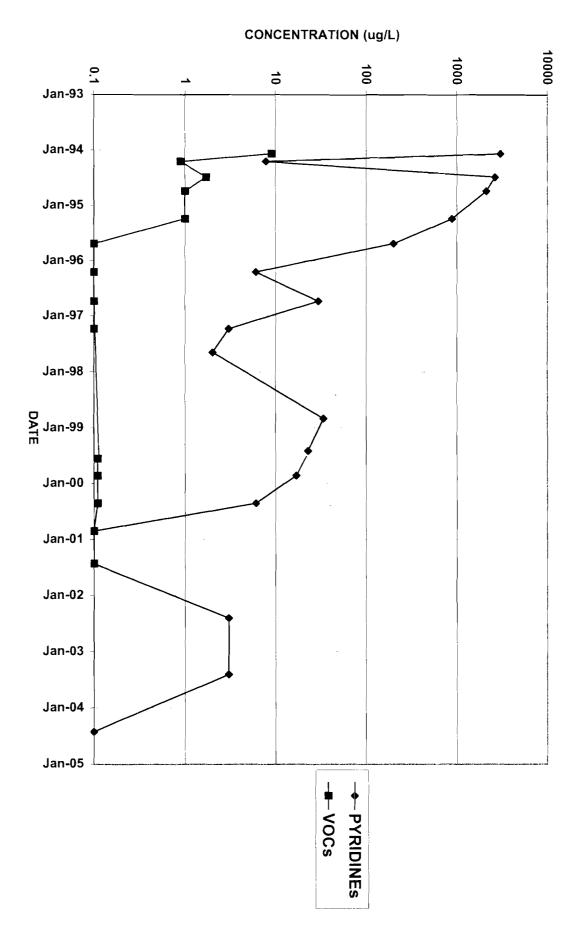


Prepared by: nmb Reviewed by: jrb

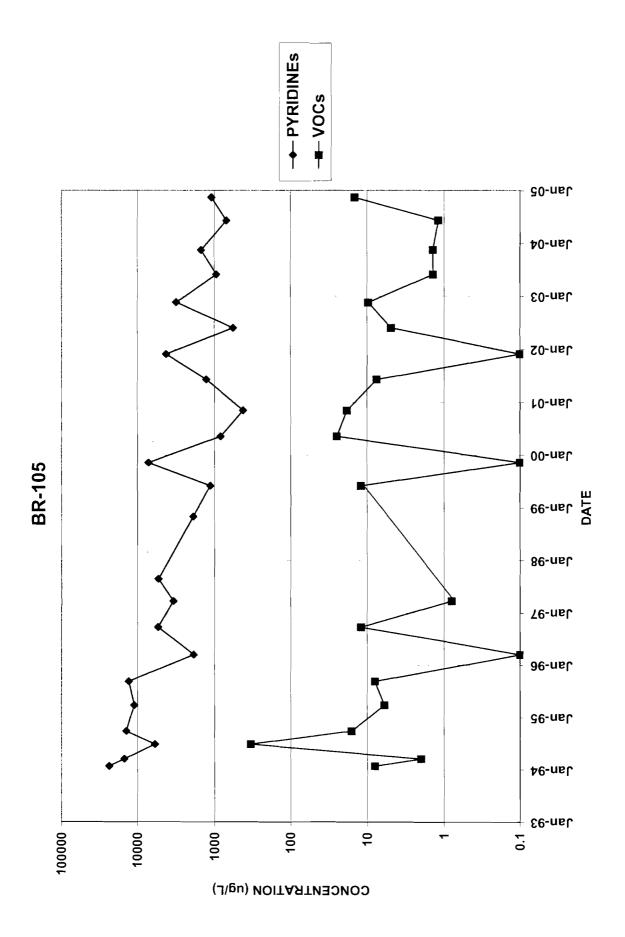


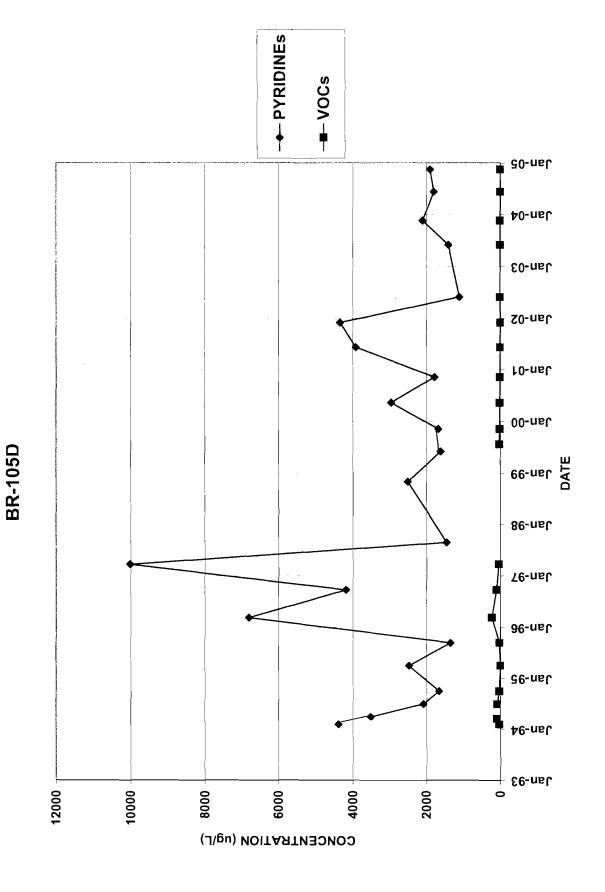
BR-103

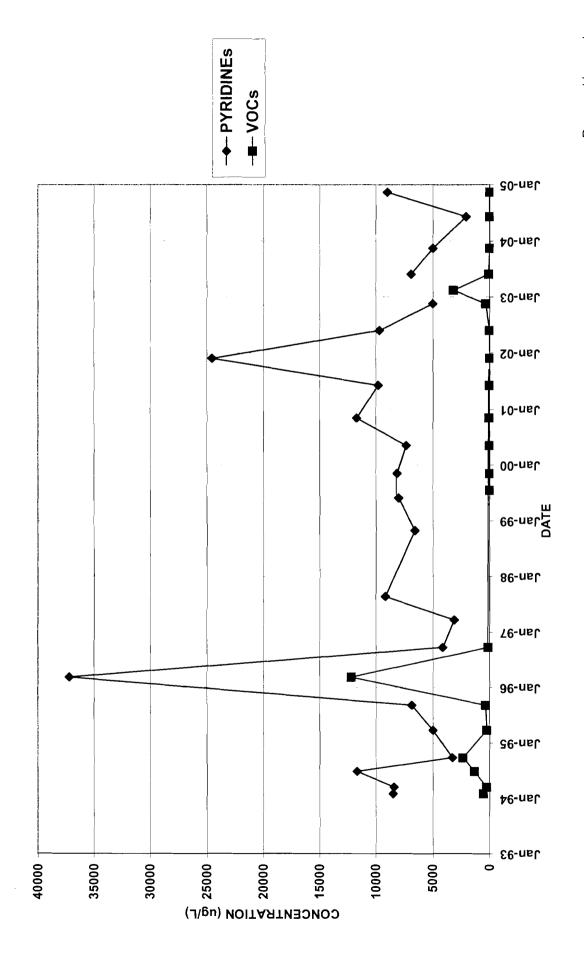


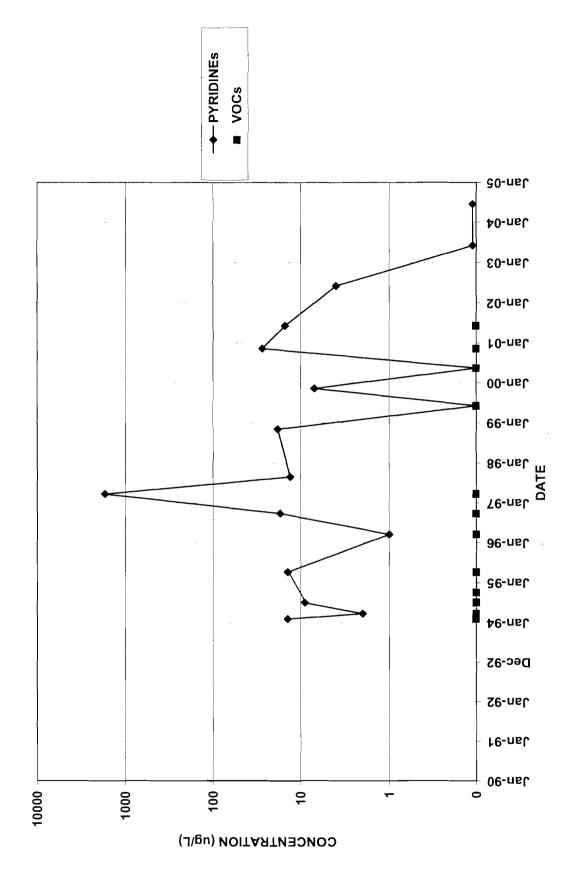


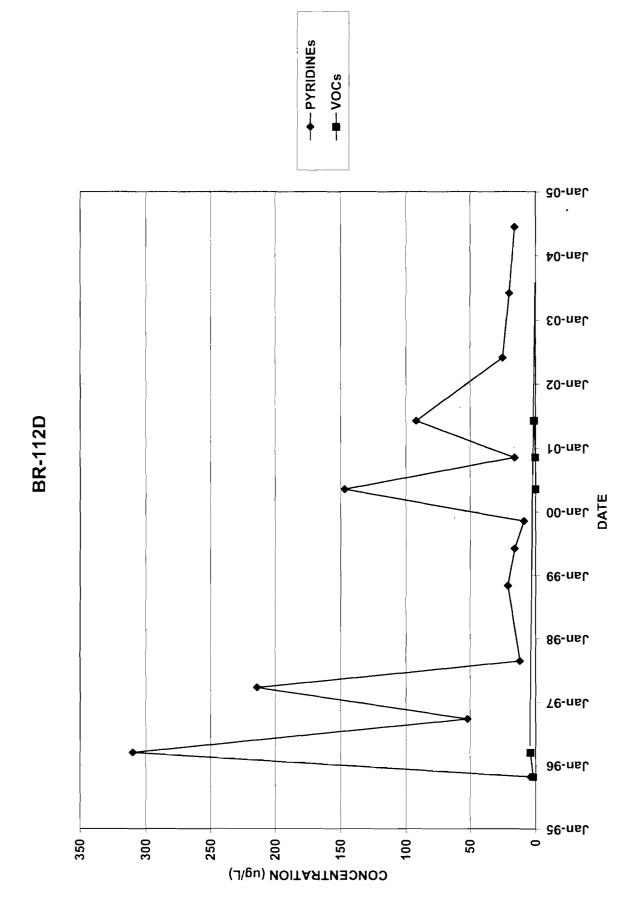
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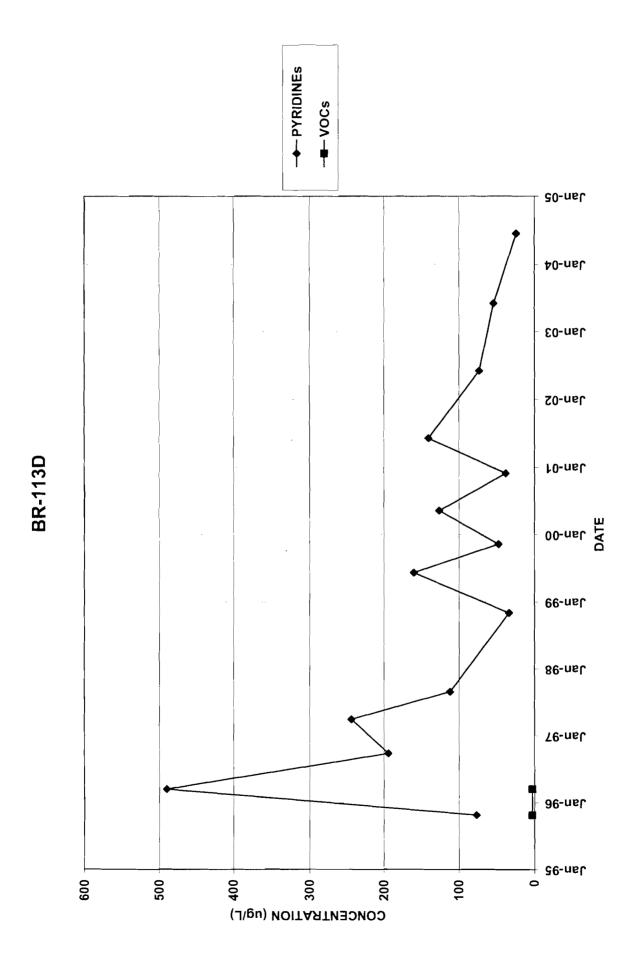


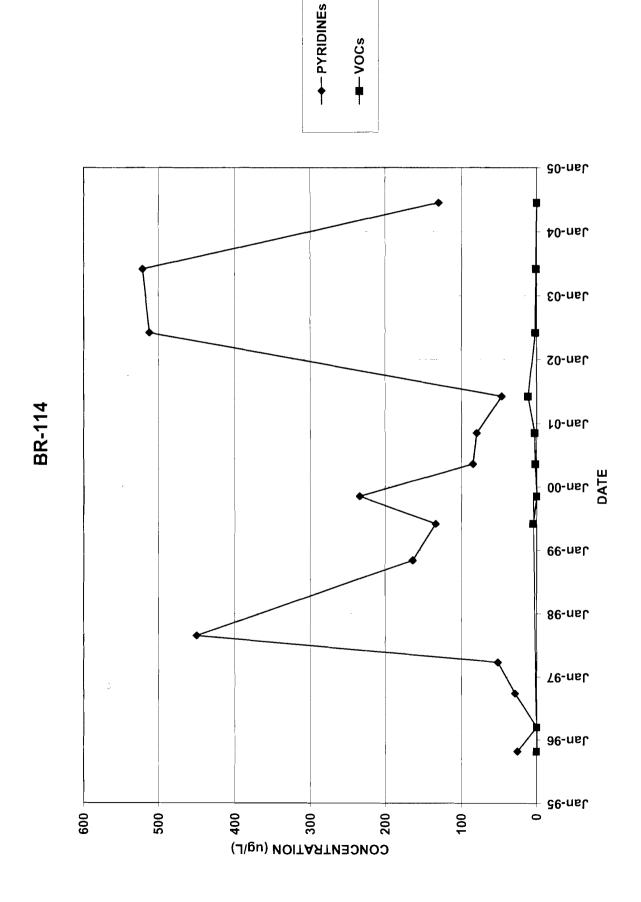


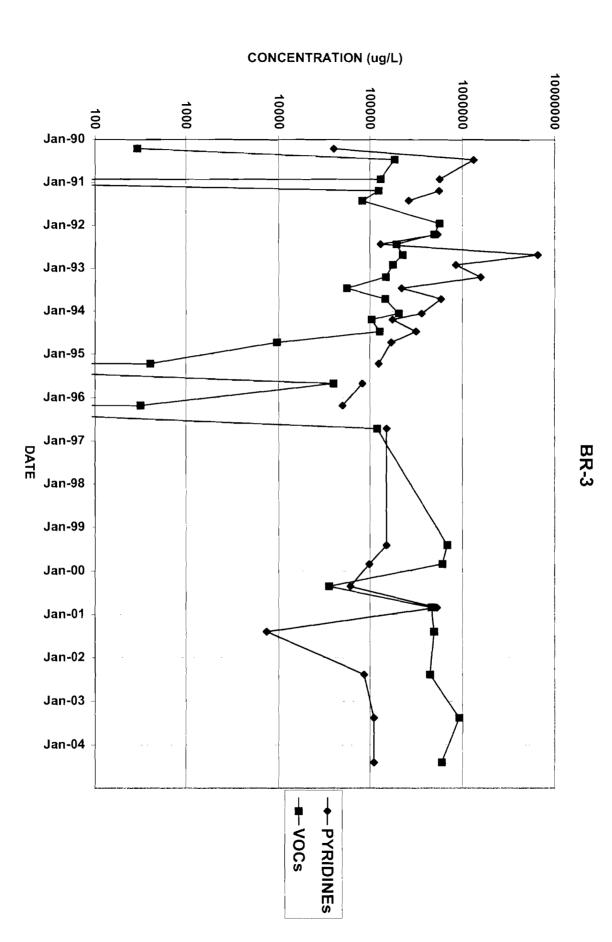






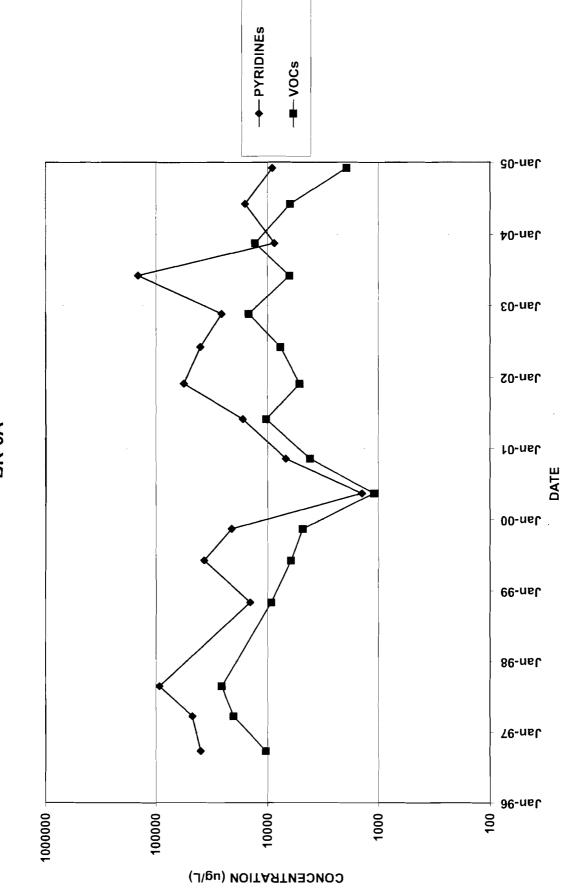






Prepared by: nmb Reviewed by: jrb

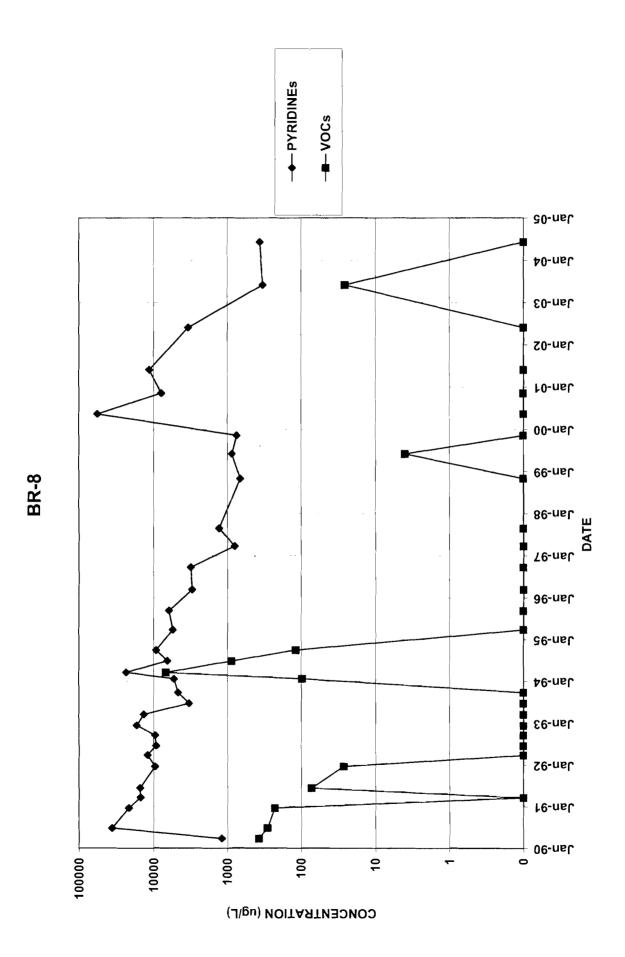
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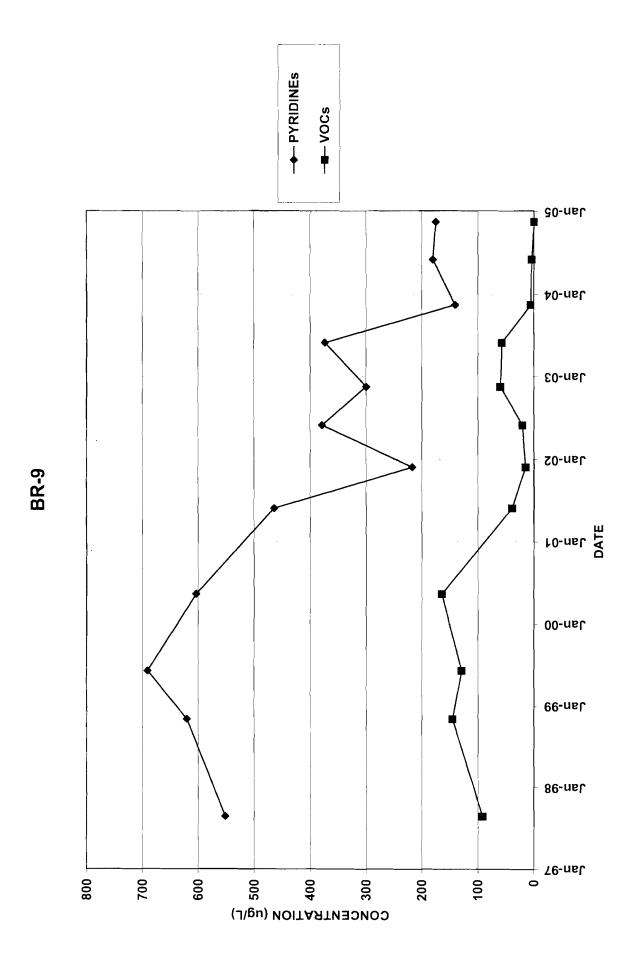


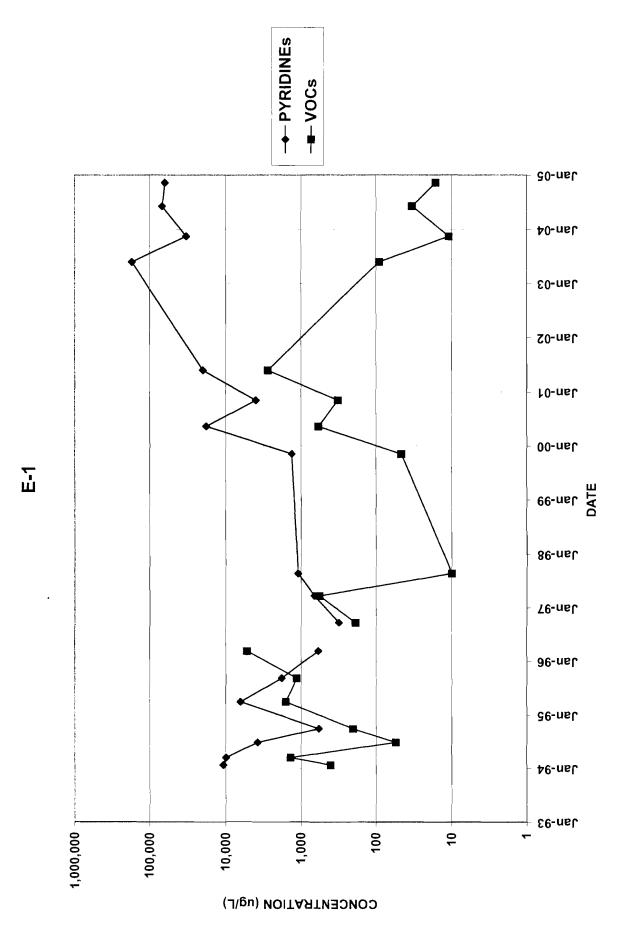
BR-6A

BR-7A

Prepared by: nmb Reviewed by: jrb







Jan-90

10000

1000

100

CONCENTRATION (ug/L)

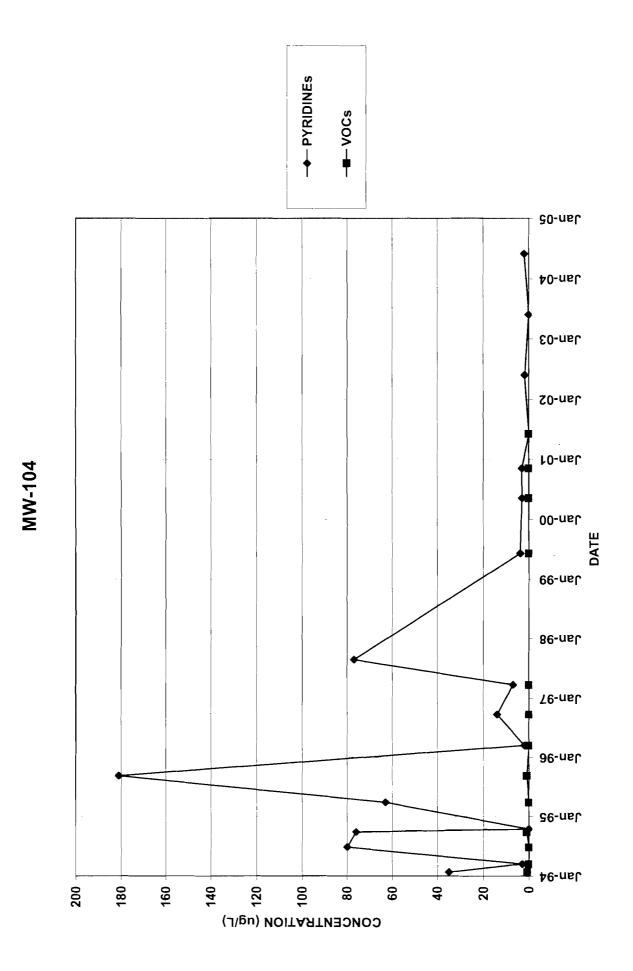
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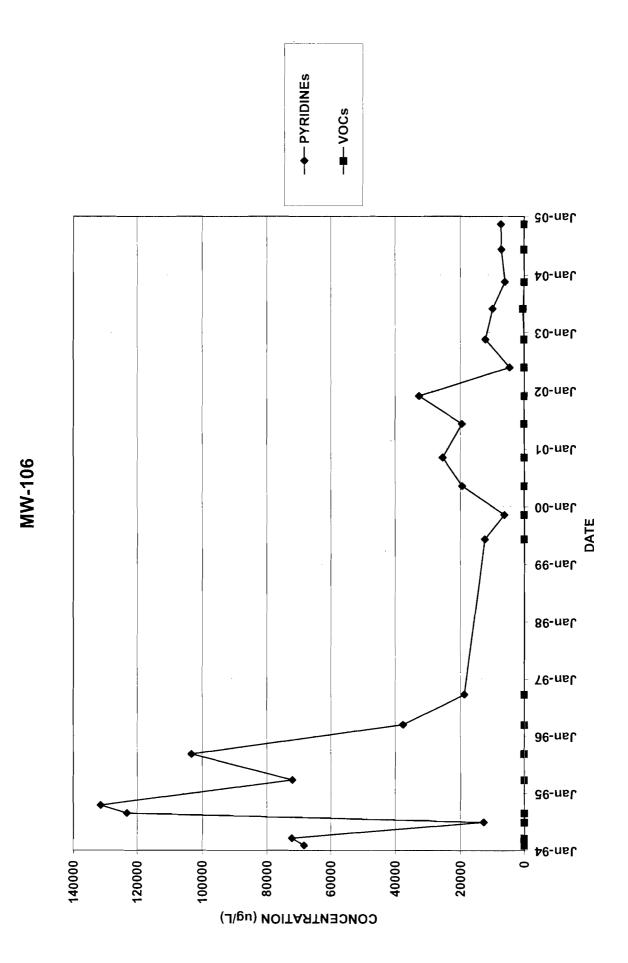
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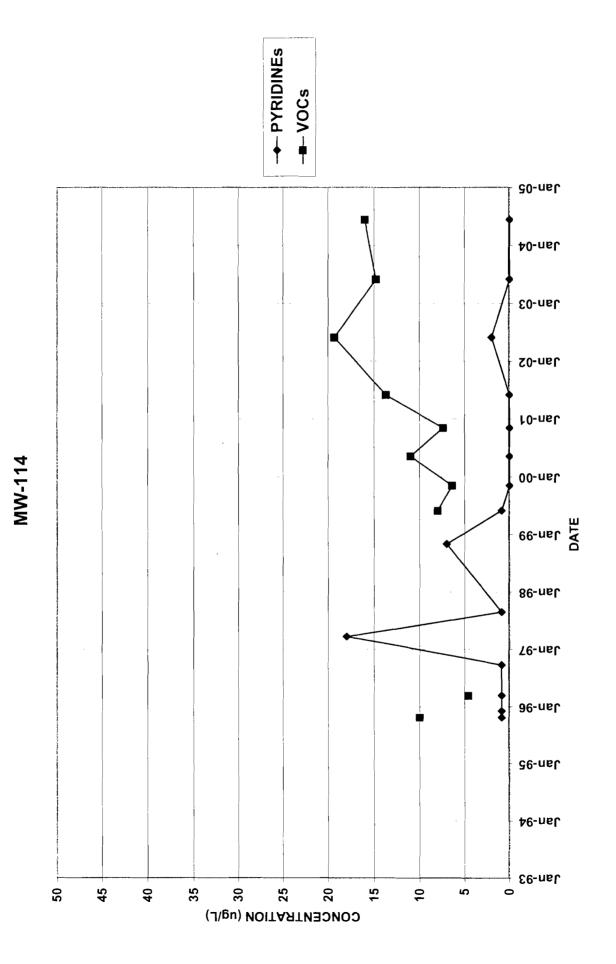
-- PYRIDINES

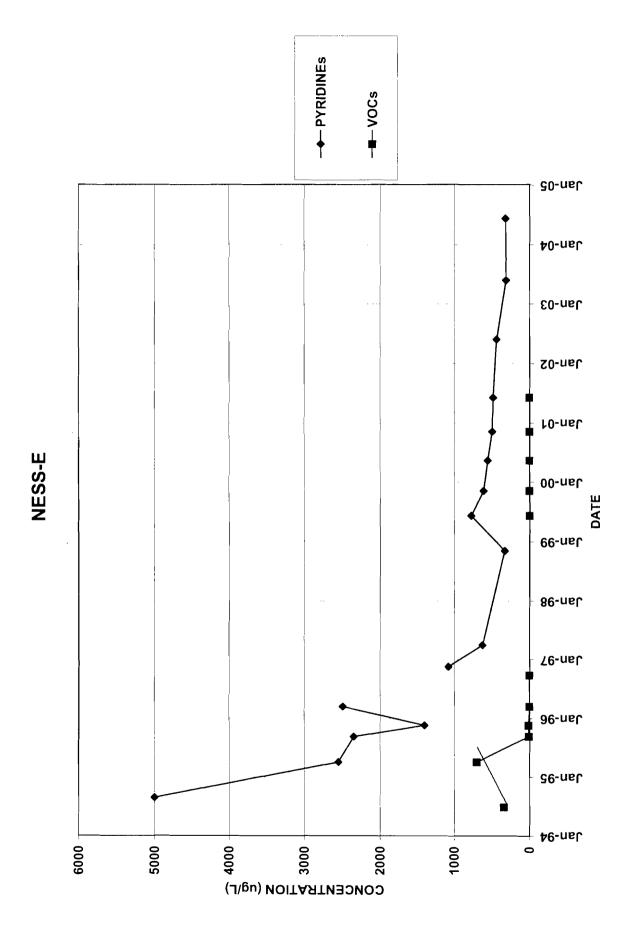
---VOCs

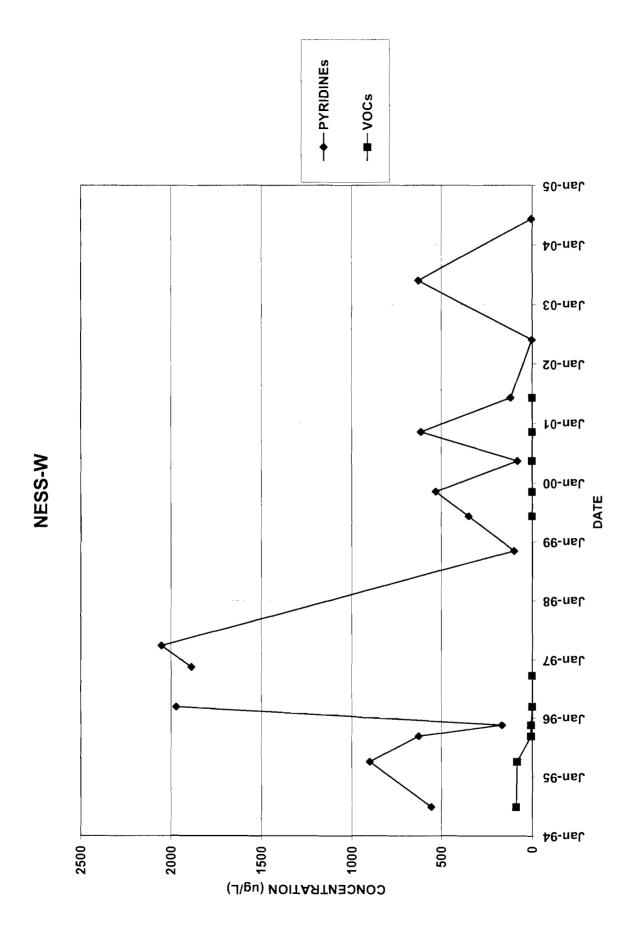
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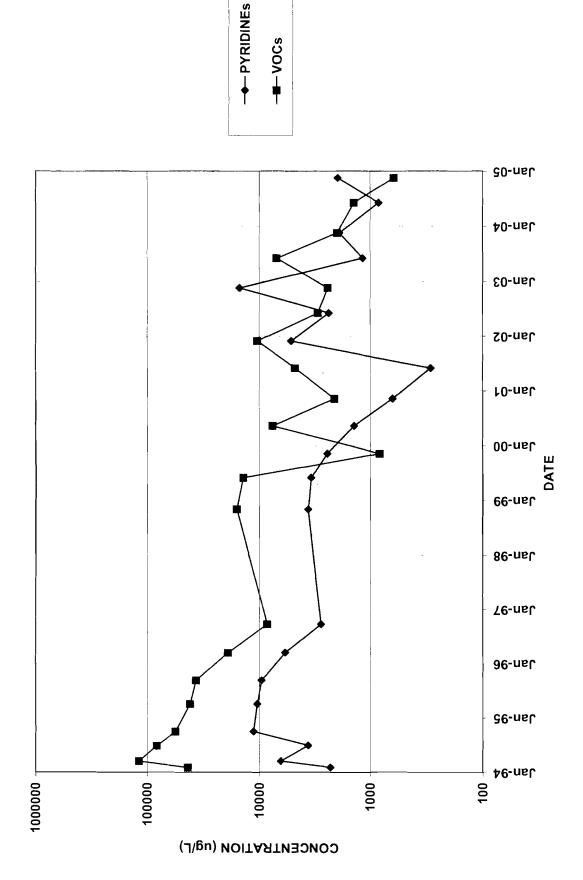




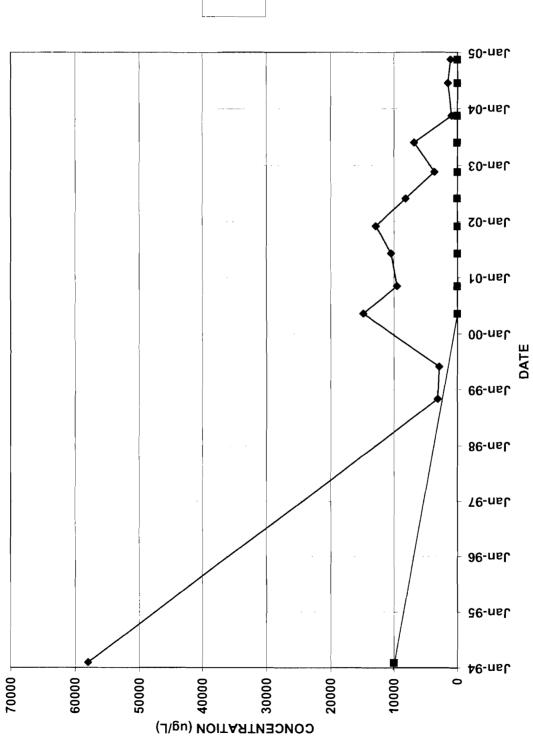
PW10

Prepared by: nmb Reviewed by: jrb

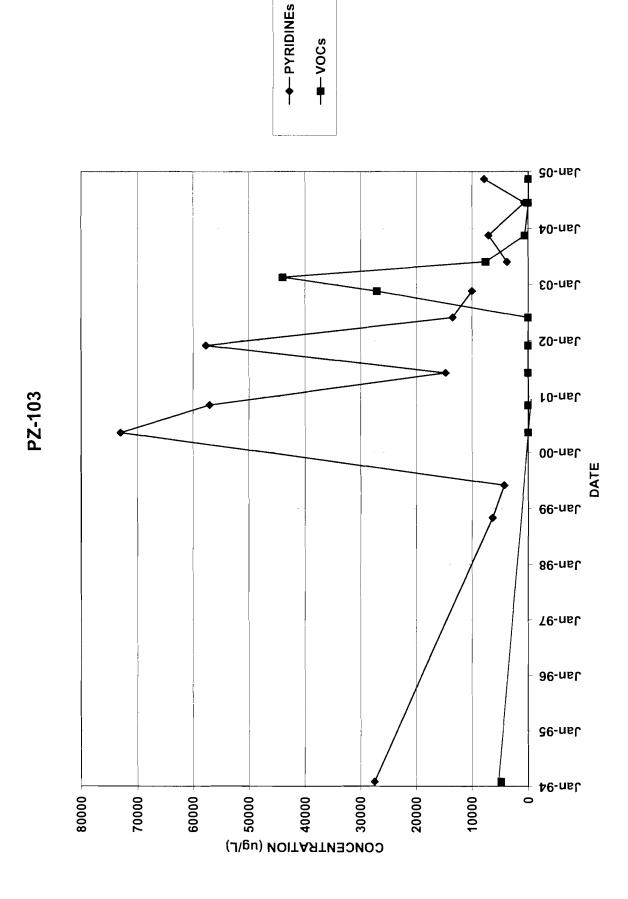
PW12 (Formerly BR-101)

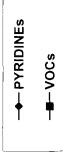


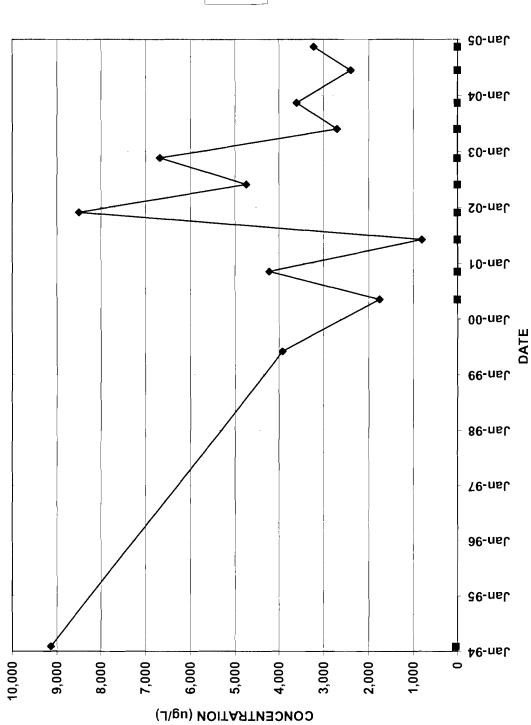
Prepared by: nmb Reviewed by: jrb



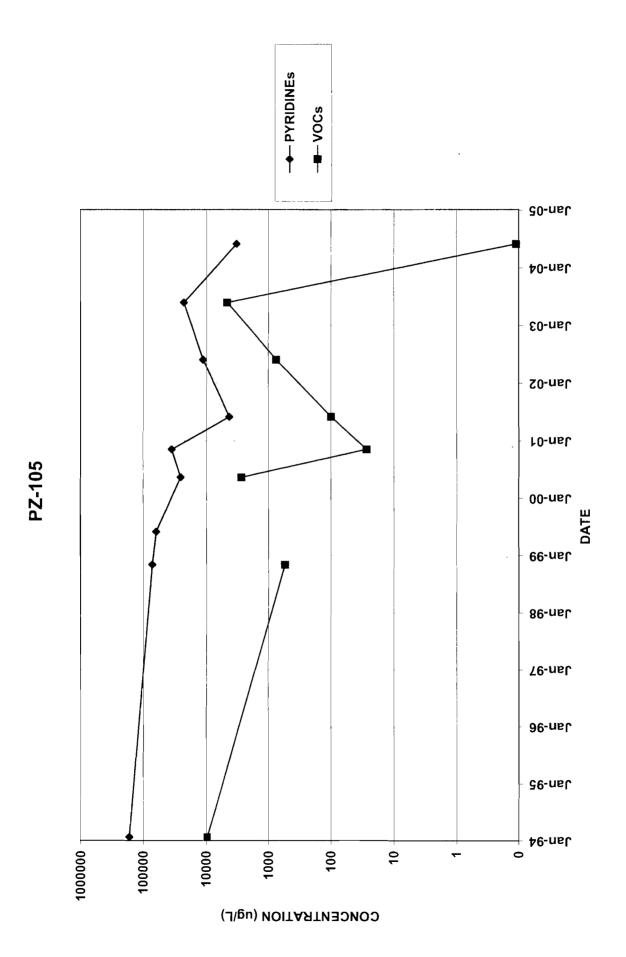
PZ-102

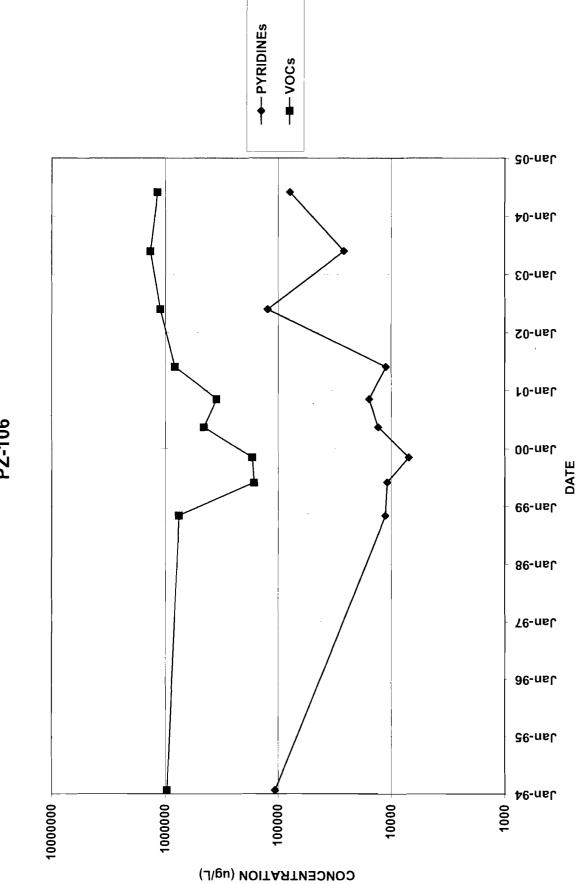






PZ-104

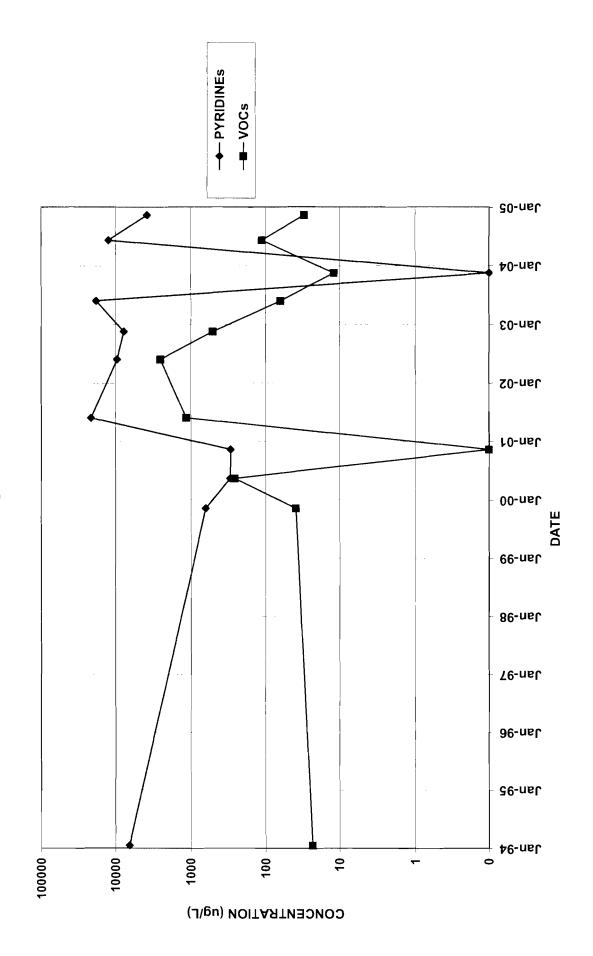


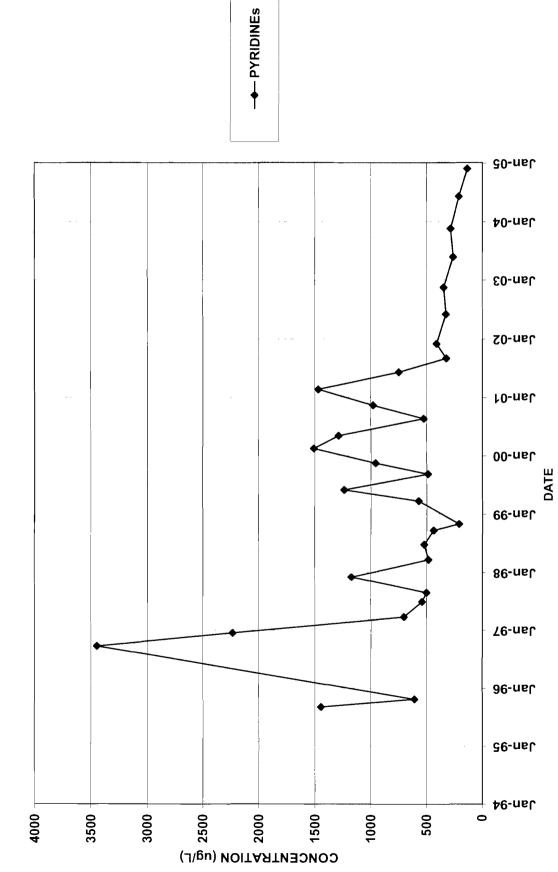


PZ-106

CONCENTRATION (ug/L)

Prepared by: nmb Reviewed by: jrb





QS-4 (QUARRY SEEP)

QO-2 (QUARRY OUTFALL)

