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

September 4, 2001

CERTIFIED MAIL

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

Re: Arch Rochester RI/FS Quarterly Report No. 26
Arch Chemicals (Site #628018a) 100 McKee Rd., Rochester, NY

Dear Mr. Craft:

The attached report constitutes the twenty-sixth quarterly report on the progress of the Arch-Rochester RI/FS, which covers the period from January 1, 2001 to July 1, 2001. Reports with the results of the first and second quarter Barge Canal and Quarry Sampling conducted in 2001 were submitted to your office under separate cover.

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

Sincerely,

Gayle M. Taylor

Gayle M. Taylor
Manager, Environmental Issues
Arch Chemicals, Inc.

Cc: Mary Jane Peachy, NYDEC
R.J. Stadalius, Arch Chemicals, Inc.
J.E. Brandow, Harding ESE, Inc.

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GROUNDWATER MONITORING PROGRAM
2nd QUARTER 2001 MONITORING REPORT

ARCH CHEMICALS
ROCHESTER PLANT SITE
ROCHESTER, NEW YORK

ARCH CHEMICALS, INC.
CHARLESTON, TENNESSEE

August 2001

GROUNDWATER MONITORING PROGRAM
2nd QUARTER 2001 MONITORING REPORT

ARCH CHEMICALS
ROCHESTER PLANT SITE
ROCHESTER, NEW YORK

Prepared by

HARDING ESE, INC.
Portland, Maine

for

ARCH CHEMICALS, INC.
Charleston, Tennessee

August 2001

This document meets standards prescribed in project planning documents and has been properly reviewed by qualified professionals.

Nelson M. Breton, C.G.
Project Geologist

Jeffrey E. Brandow, P.E.
Quality Control Reviewer

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EXECUTIVE SUMMARY

This monitoring report presents the results of an on-going groundwater water monitoring program being conducted by Arch Chemicals, Inc., at its Rochester, New York, manufacturing facility. Results in this report include groundwater samples collected from May 30, 2001 through June 8, 2001. Surface water sampling results from this monitoring event are reported in a separate document, delivered previously to the New York State Department of Environmental Conservation (Harding ESE, August 2001).

During this most recent sampling event, groundwater samples were collected from a total of 55 monitoring and pumping wells and analyzed by Severn Trent Laboratories in Amherst, New York. In addition, groundwater elevations were measured and used to create piezometric contour maps for each water-bearing zone.

Groundwater analytical results were compared with previous average concentrations from selected on-site and off-site wells. In general, most wells continue to show concentrations that are lower than the average from prior sampling events. However, elevated concentrations of site related constituents (above historical averages) were measured in several overburden and bedrock wells within the southern and southeastern portion of the plant site and in a few wells located west of the plant site (BR-106, BR-105D, and BR-112D). Some of the wells showing above-average concentrations are located adjacent to active pumping wells, which may indicate that contaminants are being drawn to the extraction wells in response to recent improvements in pumping rates.

1.0 INTRODUCTION

In accordance with the Order on Consent (Order) executed on August 23, 1993, between Olin Corporation and the New York State Department of Environmental Conservation (NYSDEC), and transferred to Arch Chemicals, Inc. (Arch) on February 15, 1999, this report has been prepared to present the results of the semi-annual groundwater monitoring program.

Fifty-five groundwater samples were collected from off-site and on-site locations from May 30, 2001 through June 8, 2001 for analysis of selected chloropyridines and volatile organic compounds (VOCs).

2.0 DATA COLLECTION

This section of the monitoring report describes the data collection efforts included in the Second Quarter 2001 groundwater monitoring event.

2.1 GROUNDWATER SAMPLING

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) volatile organic compounds (VOCs). This sampling event constitutes the first semi-annual groundwater monitoring event for 2001. Samples were collected by Severn Trent Laboratories (STL) and transported to their laboratory in Amherst, New York for analysis. The off-site and on-site locations of these sampling points are shown in Figures 1 and 2, respectively. Table 1 lists the wells that were sampled and the requested analyses. The 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 peristaltic or submersible bladder pumps. Bladder pumps were used in wells where the depth to water precludes the use of peristaltic pumps. Bladder pumps are now being used in wells previously sampled with a Grundfos® type submersible pump. A new bladder pump design, that uses replaceable bladders, makes equipment decontamination more practical and efficient. Because of significant suspended solids inside wells along the Barge Canal that causes problems for submersible pumps, wells BR-111, BR-111D, BR-112A, and BR-112D were sampled with stainless steel bailers or plastic disposable bailers after purging the standing water volume a minimum of three times. Due to the small well volumes in MW-108 and BR-108, these wells were also sampled with bailers. Samples were obtained for all scheduled groundwater sampling locations.

2.2 GROUNDWATER PIEZOMETRIC MEASUREMENTS

Groundwater piezometric elevations were measured on May 29, 2001. Piezometric contour maps were constructed for each water-bearing zone (overburden, bedrock, and deep bedrock) and are presented in Figures 3, 4, and 5.

Flow pattern changes resulting from the improved yield of the existing extraction well network and the operation of new pumping wells are apparent in overburden (Figure 3) and bedrock (Figure 4) groundwater.

In the overburden system, capture zones appear to have widened significantly in the area of well BR-5A along the eastern boundary and within the southeast portion of the site. The rate of flow in BR-5A has been increased since this well was rehabilitated in March 2001. The interpreted change in overburden groundwater in the southeast corner is likely the result of improved performance of BR-6A and the start-up of PW10.

In response to increased yields at BR-5A and BR-6A, piezometric contours for the bedrock wells appear to also show a widening of the capture zones along the eastern boundary and southeast corner of the site.

2.3 ANALYTICAL PROCEDURES

The analytical procedures, data review findings, and validated data for the 2nd Quarter 2001 groundwater monitoring event are discussed in the following paragraphs.

Groundwater 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 (µg/L) and 5 to 25 µg/L, respectively, for undiluted samples.

2.4 QUALITY CONTROL

All laboratory analytical results were reviewed and qualified following USEPA Region II modifications to "Laboratory Data Validation Functional Guidelines for Validating Organic Analyses" (USEPA, 9/1994). The following summarizes the chemistry review findings in accordance with these guidelines.

Sample results were reviewed for holding time compliance, surrogate standard recoveries, blank contamination, matrix spike blank/matrix spike blank duplicate (MSB/MSBD), and matrix spike/matrix spike duplicate (MS/MSD) accuracy and precision.

Based on the information provided by the laboratory, the overall data quality for both VOCs and the selected pyridine analysis appears to be adequate. Results reported for both analyses are a compilation of results from several analytical runs to best represent the most usable data for a given compound.

Analytical holding times were met for all samples, but extraction holding times were exceeded for the reanalysis of samples B-17, BR-108, MW-104 and PW-11. Several samples were associated with MS/MSD and MSB/MSBD QC samples with percent recoveries and relative percent differences (RPDs) outside QC limits. Chemist review findings and qualifying statements are described below:

- Groundwater samples collected from locations PW-11, B-17, BR-108 and MW-104 were originally extracted and analyzed for chloropyridines within analytical holding times. Due to high concentrations of target compounds, the samples were diluted and reanalyzed. For the reanalysis, the samples were extracted

outside of proper holding times. All results for these samples have been qualified as estimated (J/UJ).

- Samples BR-120D and BR-124D yielded zero (0) percent recoveries for the surrogate Nitrobenzene-D5. All non-detected chloropyridine results for these samples were qualified as rejected (R).

- Method blank contamination was observed for 2-chloropyridine. The laboratory reported an estimated 2-chloropyridine concentration of 3 µg/L for MW-104. Due to the associated method blank contamination, the reported result for MW-104 was revised to not detected (U).

- Samples PZ-101, PZ-104, PZ-105, BR-7A had MS/MSD recoveries and relative percent differences (RPDs) that were outside QC limits for 2-chloropyridine. All positive results for 2-chloropyridine associated with these samples were qualified as estimated (J).

- The MSB/MSBD associated with several samples yielded recoveries and relative percent differences (RPDs) that were outside QC limits for 2-chloropyridine, 2,6-dichloropyridine and p-fluoroaniline. All positive results for these compounds were qualified as estimated (J) for associated samples.

- Due to high concentrations of target compounds, some samples required dilutions. In a few instances, target compounds in the highest dilution were below the quantitation limit (QL). In these cases, results were reported from a lower dilution. Concentrations that exceeded the instrument calibration range were qualified as estimated (J).

3.0 ANALYTICAL RESULTS

The validated results from the 2nd Quarter 2001 groundwater monitoring event are provided in Tables 2 and 3. Table 4 provides a comparison of the 2nd Quarter analytical results for selected chloropyridines and VOCs in representative wells to mean concentrations since 1996 (March 1996 through November 2000). 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 ON-SITE GROUNDWATER

Selected Chloropyridines. One or more of the selected chloropyridines (2-chloropyridine, 2-6-dichloropyridine, and 3-chloropyridine) were detected above sample quantitation limits in groundwater samples from all the on-site wells. Concentrations of chloropyridines ranged from estimated low-level micrograms per liter (µg/L) to 500,000 µg/L (sum of 3 highest pyridine concentrations). Seven of the 16 on-site wells sampled in May/June 2001 and tracked from March 1996 to November 2000, show selected chloropyridines concentrations above the mean for the prior monitoring events. The six on-site wells showing selected chloropyridines concentrations that are greater than the mean were: BR-102; E-3; BR-5A; PZ-107; BR-8; S-3; and E-1.

BR-5A is an active pumping well and wells BR-102, BR-8, and E-3 are in close proximity (< ~ 20 feet) to bedrock pumping wells. The increased concentrations in these wells may indicate that chloropyridines are being drawn to the extraction wells in response to recent improvements in pumping rates. The remaining wells are located near the southeast boundary of the plant site.

Off-site wells with total chloropyridines concentrations above the mean are BR-105D, BR-106, and BR-112D. Each of these wells are located downgradient and west of the plant site.

Chloropyridines distribution in groundwater is shown as a set of concentration contours on Figure 6. The contours were developed using data from both overburden and bedrock monitoring wells. As shown on Figure 6, concentrations of total chloropyridines exceeding 10,000 µg/L are present in on-site wells and two offsite wells (PZ-103 and MW-106), located due west of the Site. In addition, total chloropyridines exceeding 10,000 µg/L are present in overburden (E-1 and S-3) and bedrock wells immediately inside the southeast boundary of the Arch property.

Selected VOCs. Concentrations of VOCs range from not detected to thousands of µg/L for several site-related contaminants (carbon tetrachloride, chloroform, methylene chloride, tetrachloroethene, and trichloroethene). Of the 16 wells sampled in May/June 2001 and tracked from March 1996 to November 2000, four wells (BR-3, E-1, PZ-106, and S-3) show VOCs to be greater than the mean for the prior monitoring events. These increases may be the result of changes in groundwater flow patterns that are evident in the piezometric plots (Figures 3 and 4).

Selected VOCs distribution in groundwater is shown as a set of concentration contours on Figure 7. These contours were also developed using both overburden and bedrock groundwater data. Concentrations and the distribution of VOCs resemble those from the prior three sampling events.

Vinyl chloride (VC), and 1,2-dichoroethene (1,2-DCE), not represented in the selected VOCs contour map, were detected in several wells. Wells showing the highest concentrations of these constituents include:

PW11 (VC - 430 µg/L, 1,2-DCE – 550 µg/L)
BR-9 (VC - 270 µg/L, 1,2-DCE – 360 µg/L)
BR-7A (VC - 140 µg/L, 1,2-DCE – 86 µg/L)

The VC and 1,2-DCE concentrations for BR-7A are historic maximums. Neither compound was detected in PW11 for the one prior sampling event in May 2000.

3.2 OFF-SITE GROUNDWATER

Selected Chloropyridines. One or more of the selected chloropyridines (2-chloropyridine, 2-6-dichloropyridine, and 3-chloropyridine) were detected above sample quantitation limits in a majority of the off-site wells. Concentrations of total chloropyridines ranged from estimated low-level micrograms per liter (< 10 µg/L) to approximately 20,000 µg/L (MW-106). Of the 17 off-site wells sampled in May/June 2001 and tracked from

March 1996 to November 2000, three wells (BR-105D, BR-106, and BR-112D) show total chloropyridines concentrations greater than the mean for the prior monitoring events.

Chloropyridines distribution in off-site groundwater within close proximity of the Arch Plant are included in the concentration contours on Figure 6.

Other wells located further downgradient of the Arch site and showing elevated total chloropyridines concentrations include BR-122D (650 µg/L) and BR-123D (800 µg/L). Each of these wells are located along west side of the Erie Barge Canal within the groundwater flow path between the Plant site and the Dolomite Quarry (see Figure 5). The total chloropyridines concentration in BR-122D is greater than the previous maximum (160 µg/L) measured in December 1997.

Selected VOCs. Concentrations of total selected VOCs range from not detected to 14 µg/L for several site-related contaminants (carbon tetrachloride, chloroform, methylene chloride, tetrachloroethene, and trichloroethene). Of the 15 wells sampled in May/June 2001 and tracked from March 1996 to November 2000, two wells, MW-114 and BR-114, show slight exceedances over the mean for the prior monitoring events.

Selected VOCs distribution in off-site groundwater is included in the concentration contours on Figure 7. None of the off-site wells show total selected VOCs concentrations above 10 µg/L.

VC and 1,2-DCE, not represented in the selected VOCs contour map, were detected at low concentrations in several off-site wells. Wells showing the highest concentrations of these constituents include:

BR-105 (VC - 18 µg/L, 1,2-DCE – 73 µg/L)
BR-103 (VC – 3.7 µg/L, 1,2-DCE – 27 µg/L)

4.0 EXTRACTION SYSTEM PERFORMANCE AND MAINTENANCE

Mass removal wells PW10 and PW12 (formerly BR-101) have been operating since March 2001. Each of these are relatively low yield wells (< 3 gallons per minute) that are located in areas of higher VOCs and chloropyridine concentrations. With the addition of these wells, a total of five containment wells and two mass removal wells are in operation at the plant.

Arch continues to evaluate the groundwater extraction and treatment system and has made substantial progress in increasing the total groundwater pumping rate of the system to contain off-site migration of VOCs and chloropyridines. Table 5 is summary of the extraction system flow measurements for each well from January through June 2001. Flow measurements are made twice a day to monitor the performance of each well.

New pumps and controls for BR-6A and BR-7A were installed in March and April 2001. In addition, new flow meters have been installed on several of the wells to monitor the well yields. Pumping wells BR-5A, BR-6A, BR-7A, and BR-9 were redeveloped and

rehabilitated in March 2001 to improve performance and remove precipitates that can contribute to well fouling and pump failure.

The improved groundwater extraction system is accomplishing significant removal of groundwater contaminants from the Rochester plant site. Table 6 presents the calculated mass removals attributable to the pumping system since the previous groundwater monitoring event (i.e., from November 2000 to June 2001). Arch estimates that a total of 232 pounds of target VOCs and 406 pounds of pyridine 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

Arch is preparing a Conceptual Design Report for the construction of the overburden groundwater collection trench that was proposed in the January 2000 Feasibility Study. This Report will be submitted to NYSDEC in the near future. The proposed trench will be located to control potential migration of contaminated overburden groundwater along the south and southeasterly property boundaries of the plant.

6.0 NEXT MONITORING EVENTS

The next monitoring event will occur in early September 2001 and will include surface water and seep sampling in the Erie Canal and at the Dolomite Products quarry. This will be followed in November 2001 with a full monitoring event consisting of surface water, seep, and groundwater sampling.

Table 7 shows the current monitoring program for the Arch Rochester site.

Tables

TABLE 1
SPRING 2001 GROUNDWATER SAMPLING AND ANALYTICAL PROGRAM

ARCH CHEMICALS, INC
ROCHESTER, NEW YORK

		ANALYSIS	PYRIDINES[1]	VOCs[2]
SITE / AREA	WELL	DATE		
AID TO HOSPITALS	BR-106	6/8/2001	X	X
	BR-108	6/5/2001	X	X
	MW-106	6/8/2001	X	X
	MW-108	6/5/2001	X	X
	PZ-101	6/7/2001	X	X
	PZ-102	6/7/2001	X	X
	PZ-103	6/7/2001	X	X
AMERICAN RECYCLE MANUF. (58 MCKEE RD.)	PZ-104	6/6/2001	X	X
ARCH ROCHESTER	B-17	6/4/2001	X	X
	B-7	5/30/2001	X	X
	B-9	5/30/2001	X	X
	BR-102	6/4/2001	X	X
	BR-3	6/1/2001	X	X
	BR-5A	6/1/2001	X	X
	BR-6A	6/1/2001	X	X
	BR-7A	6/1/2001	X	X
	BR-8	5/31/2001	X	X
	BR-9	6/1/2001	X	X
	E-1	5/31/2001	X	X
	E-3	6/4/2001		X
		6/8/2001	X	
	PW10	6/1/2001	X	X
	PW11	5/31/2001	X	X
	PW12	6/1/2001	X	X
	PZ-105	6/4/2001	X	X
	PZ-106	5/31/2001	X	X
	PZ-107	5/31/2001	X	X
	S-3	5/30/2001	X	X
	S-4	5/30/2001	X	X
DOLOMITE PRODUCTS, INC.	BR-117D	5/31/2001	X	
	BR-118D	5/31/2001	X	
	BR-119D	5/30/2001	X	
	BR-120D	5/30/2001	X	
	BR-121D	5/30/2001	X	
	QS-4	6/8/2001	X	X
EASTMAN KODAK (FORMERLY GERBER)	BR-103	6/1/2001	X	X
	MW-103	6/1/2001	X	X
ERIE BARGE CANAL	BR-111	6/5/2001	X	X
	BR-111D	6/5/2001	X	X
	BR-112A	6/5/2001	X	X
	BR-112D	6/5/2001	X	X
	BR-113	6/7/2001	X	
	BR-113D	6/7/2001	X	
	BR-122D	5/31/2001	X	
	BR-123D	5/31/2001	X	
	BR-124D	6/1/2001	X	X
JACKSON WELDING	BR-114	6/5/2001	X	X
	MW-114	6/5/2001	X	X
LEXINGTON MACHINING	NESS-E	6/7/2001	X	X

TABLE 1
SPRING 2001 GROUNDWATER SAMPLING AND ANALYTICAL PROGRAM

ARCH CHEMICALS, INC
ROCHESTER, NEW YORK

		ANALYSIS	PYRIDINES[1]	VOCs[2]
SITE / AREA	WELL	DATE		
	NESS-W	6/7/2001	X	X
PFAUDLER, INC.	BR-116	6/1/2001	X	
	BR-116D	6/1/2001	X	
RG & E RIGHT OF WAY	BR-104	6/6/2001	X	X
	BR-105	6/8/2001	X	X
	BR-105D	6/8/2001	X	X
	MW-104	6/6/2001	X	X
Totals			55	44

Notes:

1) Pyridines analysis by USEPA SW-846 Method 8270C.
2) VOCs analysis by USEPA SW-846 Method 8260B.

TABLE 2
SPRING 2001 GROUNDWATER MONITORING RESULTS
CHLOROPYRIDINES

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	B-17		B-7		B-9		BR-102		BR-103		BR-104		BR-105		BR-105D	
SAMPLE DATE:	6/4/2001		5/30/2001		5/30/2001		6/4/2001		6/1/2001		6/6/2001		6/8/2001		6/8/2001	
SELECTED CHLOROPYRIDINES BY SW-846 Method 8270C (µg/L)																
2,6-Dichloropyridine	1,400	J	480	J	530		110		10	U	10	U	79	J	120	
2-Chloropyridine	100,000	J	1,800	J	3,500		710		10	U	10	U	1200		3,800	
3-Chloropyridine	10,000	J	50	U	50	U	10	U	10	U	10	U	100	U	100	U
4-Chloropyridine	2,100	J	50	U	50	U	10	U	10	U	10	U	100	U	100	U
p-Fluoroaniline	200	J	50	U	50	U	39		10	U	10	U	100	U	100	U
Pyridine	23,000	J	120	U			25	U	25	U	25	U	250	U	250	U

Notes:
U = Compound not detected; value represents sample quantitation limit.
J = Estimated value.

TABLE 2
SPRING 2001 GROUNDWATER MONITORING RESULTS
CHLOROPYRIDINES

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	BR-106		BR-108		BR-111		BR-111D		BR-112A		BR-112D		BR-113		BR-113D	
SAMPLE DATE:	6/8/2001		6/5/2001		6/5/2001		6/5/2001		6/5/2001		6/5/2001		6/7/2001		6/7/2001	
SELECTED CHLOROPYRIDINES BY SW-846 Method 8270C (µg/L)																
2,6-Dichloropyridine	1,200		10	UJ	10	U	10	U	10	U	2	J	10	U	10	U
2-Chloropyridine	8,600		15	J	10	U	10	U	10	U	90	J	10	U	140	
3-Chloropyridine	500	U	10	UJ	10	U	10	U	10	U	10	U	10	U	10	U
4-Chloropyridine	500	U	10	UJ	10	U	10	U	10	U	10	U	10	U	10	U
p-Fluoroaniline	500	U	10	UJ	10	U	10	U	10	U	10	U	10	U	10	U
Pyridine	1,200	U	25	UJ	25	U	25	U	25	U	25	U	25	U	25	U

Notes:

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

J = Estimated value.

TABLE 2
SPRING 2001 GROUNDWATER MONITORING RESULTS
CHLOROPYRIDINES

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	BR-114		BR-116		BR-116D		BR-117D		BR-118D		BR-119D		BR-120D		BR-121D	
SAMPLE DATE:	6/5/2001		6/1/2001		6/1/2001		5/31/2001		5/31/2001		5/30/2001		5/30/2001		5/30/2001	
SELECTED CHLOROPYRIDINES BY SW-846 Method 8270C (µg/L)																
2,6-Dichloropyridine	14	J	10	U	10	U	10	U	10	U	9	U		R	9	U
2-Chloropyridine	33	J	10	U	10	U	44	J	10	U	9	U		R	9	U
3-Chloropyridine	10	U	10	U	10	U	10	U	10	U	9	U		R	9	U
4-Chloropyridine	10	U	10	U	10	U	10	U	10	U	9	U		R	9	U
p-Fluoroaniline	10	U	10	U	10	U	10	U	10	U	9	U		R	9	U
Pyridine	25	U	25	U	25	U	24	U	24	U	23	U		R	23	U

Notes:
U = Compound not detected; value represents sample quantitation limit.
J = Estimated value.

TABLE 2
SPRING 2001 GROUNDWATER MONITORING RESULTS
CHLOROPYRIDINES

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	BR-122D		BR-123D		BR-124D		BR-3		BR-5A		BR-6A		BR-7A		BR-8	
SAMPLE DATE:	5/31/2001		5/31/2001		6/1/2001		6/1/2001		6/1/2001		6/1/2001		6/1/2001		5/31/2001	
SELECTED CHLOROPYRIDINES BY SW-846 Method 8270C (µg/L)																
2,6-Dichloropyridine	66	J	96			R	5,000	U	42		860	J	1800		1400	J
2-Chloropyridine	580	J	700	J		R	7,400		140		14000		8100	J	10000	J
3-Chloropyridine	10	U	10	U		R	5,000	U	10	U	1000	U	1000	U	500	U
4-Chloropyridine	10	U	10	U		R	5,000	U	10	U	1000	U	1000	U	500	U
p-Fluoroaniline	10	U	10	U		R	5,000	U	43		1000	U	1000	U	500	U
Pyridine	24	U	24	U		R	12,000	U	25	U	1900	J	2500	U	1200	U

Notes:
U = Compound not detected; value represents sample quantitation limit.
J = Estimated value.

TABLE 2
SPRING 2001 GROUNDWATER MONITORING RESULTS
CHLOROPYRIDINES

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	BR-9		E-1		E-3		MW-103		MW-104		MW-106	
SAMPLE DATE:	6/1/2001		5/31/2001		6/8/2001		6/1/2001		6/6/2001		6/8/2001	
SELECTED CHLOROPYRIDINES BY SW-846 Method 8270C (µg/L)												
2,6-Dichloropyridine	64		2700	J	12		10	U	10	UJ	3500	
2-Chloropyridine	400		15000	J	44		10	U	10	UJ	16,000	
3-Chloropyridine	10	U	220		10	U	10	U	10	UJ	500	U
4-Chloropyridine	10	U	200	U	10	U	10	U	10	UJ	500	U
p-Fluoroaniline	7	J	200	U	10	U	10	U	10	UJ	500	U
Pyridine	25	U	2100		25	U	25	U	24	UJ	1200	U

Notes:
U = Compound not detected; value represents sample quantitation limit.
J = Estimated value.

TABLE 2
SPRING 2001 GROUNDWATER MONITORING RESULTS
CHLOROPYRIDINES

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	MW-108		MW-114		NESS-E		NESS-W		PW10		PW11		PW12		PZ-101	
SAMPLE DATE:	6/5/2001		6/5/2001		6/7/2001		6/7/2001		6/1/2001		5/31/2001		6/1/2001		6/7/2001	
SELECTED CHLOROPYRIDINES BY SW-846 Method 8270C (µg/L)																
2,6-Dichloropyridine	10	U	10	U	23	J	50	U	130	J	120	J	160	U	4	J
2-Chloropyridine	10	U	10	U	460		120		2000		2700	J	290		350	J
3-Chloropyridine	10	U	10	U	50	U	50	U	200	U	33	J	160	U	50	U
4-Chloropyridine	10	U	10	U	50	U	50	U	200	U	9	UJ	160	U	50	U
p-Fluoroaniline	10	U	10	U	50	U	50	U	200	U	84	J	160	U	50	U
Pyridine	25	U	25	U	120	U	120	U	51	J	70	J	400	U	120	U

Notes:
U = Compound not detected; value represents sample quantitation limit.
J = Estimated value.

TABLE 2
SPRING 2001 GROUNDWATER MONITORING RESULTS
CHLOROPYRIDINES

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	PZ-102		PZ-103		PZ-104		PZ-105		PZ-106		PZ-107		S-3		S-4	
SAMPLE DATE:	6/7/2001		6/7/2001		6/6/2001		6/4/2001		5/31/2001		5/31/2001		5/30/2001		5/30/2001	
SELECTED CHLOROPYRIDINES BY SW-846 Method 8270C (µg/L)																
2,6-Dichloropyridine	1,600		2,700		160	U	2,500	U	2,200	J	540	J	2,300		1,500	
2-Chloropyridine	8800		12000		810	J	4300	J	8700	J	1700	J	19000		160	
3-Chloropyridine	200	U	1000	U	160	U	2500	U	500	U	81	J	1900	U	100	U
4-Chloropyridine	200	U	1000	U	160	U	2500	U	500	U	100	U	41		100	U
p-Fluoroaniline	200	U	1000	U	160	U	2500	U	500	U	100	U	53		100	U
Pyridine	500	U	2500	U	400	U	6200	U	290	J	250	U	24	U	250	U

Notes:
U = Compound not detected; value represents sample quantitation limit.
J = Estimated value.

TABLE 3
SPRING 2001 GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	B-17		B-7		B-9		BR-102		BR-103		BR-104		BR-105		BR-105D		BR-106		BR-108		BR-111	
SAMPLE DATE:	6/4/2001		5/30/2001		5/30/2001		6/4/2001		6/1/2001		6/6/2001		6/8/2001		6/8/2001		6/8/2001		6/5/2001		6/5/2001	
VOLATILE ORGANIC COMPOUNDS BY SW-846 Method 8260/5ML (µg/L)																						
1,1,1-Trichloroethane	1,000	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	1,000	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1,2-Trichloroethane	1,000	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,1-Dichloroethane	1,000	U	5	U	5	U	5	U	5	U	5	U	1.5	J	12		1.4	J	5	U	5	U
1,1-Dichloroethene	1,000	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethane	1,000	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
1,2-Dichloroethene (total)	1,000	U	5	U	3.1	J	6.7		27		5	U	73		2.8	J	1.1	J	5	U	5	U
1,2-Dichloropropane	1,000	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
2-Butanone	2,000	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
2-Hexanone	2,000	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Methyl-2-pentanone	2,000	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Acetone	5,000	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	25	U	9.3	J	25	U
Benzene	1,000	U	3.5	J	2.8	J	25		5	U	5	U	2.4	J	9.6		30		5	U	5	U
Bromodichloromethane	1,000	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromoform	1,000	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Bromomethane	2,000	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Carbon disulfide	1,000	U	5	U	5	U	1.8	J	5	U	5	U	5	U	1	J	1.2	J	5	U	5	U
Carbon tetrachloride	24,000		5	U	5	U	11		5	U	5	U	1.9	J	5	U	5	U	5	U	5	U
Chlorobenzene	260	J	18		6.2		95		5	U	5	U	4.8	J	5	U	150		5	U	5	U
Chloroethane	2,000	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloroform	9,000		5	U	5	U	110		5	U	5	U	2	J	1.3	J	5	U	5	U	5	U
Chloromethane	2,000	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	1,000	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Dibromochloromethane	1,000	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Ethylbenzene	1,000	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Methylene chloride	2,200		5	U	5	U	25		5	U	5	U	5	U	5	U	5	U	5	U	5	U
Styrene	1,000	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Tetrachloroethene	2,700		5	U	1.4	J	3.3	J	5	U	5	U	1.9	J	5	U	5	U	5	U	5	U
Toluene	1,400		5	U	5	U	5.4		5	U	5	U	5	U	5	U	11		5	U	5	U
Total Xylenes	3,000	U	15	U	15	U	3.3	J	15	U	15	U	15	U	15	U	15	U	15	U	15	U
trans-1,3-Dichloropropene	1,000	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U
Trichloroethene	1,000	U	5	U	2	J	2.7	J	5	U	5	U	1.7	J	5	U	5	U	5	U	5	U
Vinyl acetate	2,000	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Vinyl chloride	1,000	U	5	U	1.2	J	3.6	J	3.7	J	5	U	18		5	U	5	U	5	U	5	U

Notes:

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

J = Estimated value.

TABLE 3
SPRING 2001 GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	BR-111D		BR-112A		BR-112D		BR-114		BR-124D		BR-3		BR-5A		BR-6A		BR-7A		BR-8		BR-9	
SAMPLE DATE:	6/5/2001		6/5/2001		6/5/2001		6/5/2001		6/1/2001		6/1/2001		6/1/2001		6/1/2001		6/1/2001		5/31/2001		6/1/2001	
VOLATILE ORGANIC COMPOUNDS BY SW-846 Method 8260/5ML (µg/L)																						
1,1,1-Trichloroethane	5	U	5	U	5	U	5	U	5	U	12000	U	5	U	50	U	20	U	100	U	1.7	J
1,1,2,2-Tetrachloroethane	5	U	5	U	5	U	5	U	5	U	12000	U	5	U	50	U	20	U	100	U	5	U
1,1,2-Trichloroethane	5	U	5	U	5	U	5	U	5	U	12000	U	5	U	50	U	20	U	100	U	5	U
1,1-Dichloroethane	1.3	J	5	U	19		5	U	5	U	12000	U	5	U	50	U	16	J	100	U	11	
1,1-Dichloroethene	5	U	5	U	5	U	5	U	5	U	12000	U	5	U	50	U	20	U	100	U	1.9	J
1,2-Dichloroethane	5	U	5	U	1	J	5	U	5	U	12000	U	5	U	50	U	20	U	100	U	5	U
1,2-Dichloroethene (total)	5	U	5	U	5	U	5	U	5	U	12000	U	22		28	J	86		100	U	360	
1,2-Dichloropropane	5	U	5	U	5	U	5	U	5	U	12000	U	5	U	50	U	20	U	100	U	5	U
2-Butanone	10	U	10	U	10	U	10	U	10	U	25000	U	10	U	100	U	40	U	200	U	10	U
2-Hexanone	10	U	10	U	10	U	10	U	10	U	25000	U	10	U	100	U	40	U	200	U	10	U
4-Methyl-2-pentanone	10	U	10	U	10	U	10	U	10	U	25000	U	10	U	100	U	40	U	200	U	10	U
Acetone	25	U	25	U	25	U	25	U	25	U	62000	U	25	U	70	J	100	U	500	U	5.8	J
Benzene	150		5	U	33		5	U	5	U	12000	U	16		22	J	47		53	J	78	
Bromodichloromethane	5	U	5	U	5	U	5	U	5	U	12000	U	5	U	50	U	20	U	100	U	5	U
Bromoform	5	U	5	U	5	U	5	U	5	U	8,800	J	5	U	120		20	U	100	U	5	U
Bromomethane	10	U	10	U	10	U	10	U	10	U	25000	U	10	U	100	U	40	U	200	U	10	U
Carbon disulfide	6.5		5	U	5	U	5	U	5	U	44,000		5	U	510		6.8	J	100	U	5	U
Carbon tetrachloride	5	U	5	U	5	U	5	U	5	U	110,000		5	U	2100		12	J	100	U	20	
Chlorobenzene	5	U	5	U	5	U	5	U	5	U	12000	U	9.9		120		500		2,400		44	
Chloroethane	10	U	10	U	3.6	J	10	U	10	U	25000	U	10	U	100	U	40	U	200	U	10	U
Chloroform	5	U	5	U	5	U	4.8	J	5	U	290,000		31		7,000		150		100	U	11	
Chloromethane	75		10	U	10	U	10	U	10	U	25000	U	10	U	100	U	40	U	200	U	10	U
cis-1,3-Dichloropropene	5	U	5	U	5	U	5	U	5	U	12000	U	5	U	50	U	20	U	100	U	5	U
Dibromochloromethane	5	U	5	U	5	U	5	U	5	U	12000	U	5	U	12	J	20	U	100	U	5	U
Ethylbenzene	44		5	U	1.4	J	5	U	5	U	12000	U	5	U	50	U	20	U	100	U	8.2	
Methylene chloride	5	U	5	U	5	U	1	J	5	U	87,000		55		780		79		100	U	3.2	J
Styrene	5	U	5	U	5	U	5	U	5	U	12000	U	5	U	50	U	20	U	100	U	5	U
Tetrachloroethene	5	U	5	U	5	U	1.8	J	5	U	3,600	J	5	U	360		9.4	J	100	U	1.9	J
Toluene	1.2	J	5	U	5	U	5	U	5	U	8,600	J	10		200		46		35	J	8.5	
Total Xylenes	31		15	U	15	U	15	U	1.4	J	38000	U	15	U	150	U	4.7	J	300	U	4.5	J
trans-1,3-Dichloropropene	5	U	5	U	5	U	5	U	5	U	12000	U	5	U	50	U	20	U	100	U	5	U
Trichloroethene	5	U	5	U	1.3	J	4	J	5	U	12000	U	120		43	J	4.6	J	100	U	3.3	J
Vinyl acetate	10	U	10	U	10	U	10	U	10	U	25000	U	10	U	100	U	40	U	200	U	10	U
Vinyl chloride	5	U	5	U	5	U	5	U	5	U	12000	U	8.1		14	J	140		100	U	270	

Notes:

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

J = Estimated value.

TABLE 3
SPRING 2001 GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	E-1	E-3	MW-103	MW-104	MW-106	MW-108	MW-114	NESS-E	NESS-W	PW10	PW11
SAMPLE DATE:	5/31/2001	6/4/2001	6/1/2001	6/6/2001	6/8/2001	6/5/2001	6/5/2001	6/7/2001	6/7/2001	6/1/2001	5/31/2001
VOLATILE ORGANIC COMPOUNDS BY SW-846 Method 8260/5ML (µg/L)											
1,1,1-Trichloroethane	100 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	500 U	20 U
1,1,2,2-Tetrachloroethane	100 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	500 U	20 U
1,1,2-Trichloroethane	100 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	500 U	20 U
1,1-Dichloroethane	100 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	4.4 J	500 U	32
1,1-Dichloroethene	100 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	500 U	20 U
1,2-Dichloroethane	100 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	500 U	20 U
1,2-Dichloroethene (total)	57 J	5 U	5 U	5 U	10 U	5 U	5 U	5 U	1.3 J	500 U	550
1,2-Dichloropropane	100 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	500 U	20 U
2-Butanone	200 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	1,000 U	40 U
2-Hexanone	200 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	1,000 U	40 U
4-Methyl-2-pentanone	200 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	1,000 U	40 U
Acetone	38 J	25 U	25 U	25 U	50 U	3.3 J	25 U	25 U	25 U	2,500 U	100 U
Benzene	26 J	2.4 J	5 U	5 U	34	5 U	5 U	5 U	18	500 U	43
Bromodichloromethane	100 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	500 U	20 U
Bromoform	100 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	1,400	20 U
Bromomethane	200 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	1,000 U	40 U
Carbon disulfide	230	5 U	5 U	5 U	2.1 J	5 U	5 U	5 U	5 U	2,100	20 U
Carbon tetrachloride	180	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	13,000	20 U
Chlorobenzene	200	2.6 J	5 U	5 U	290	5 U	5 U	5 U	1.2 J	440 J	61
Chloroethane	200 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	1,000 U	40 U
Chloroform	2300	1.6 J	5 U	5 U	10 U	5 U	5.4	5 U	5 U	16,000	20 U
Chloromethane	200 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	1,000 U	40 U
cis-1,3-Dichloropropene	100 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	500 U	20 U
Dibromochloromethane	100 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	150 J	20 U
Ethylbenzene	100 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	500 U	20 U
Methylene chloride	230	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	5,100	20 U
Styrene	100 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	500 U	20 U
Tetrachloroethene	60 J	5 U	5 U	5 U	10 U	5 U	2.4 J	5 U	5 U	1,700	20 U
Toluene	53 J	5 U	5 U	5 U	37	5 U	5 U	5 U	5 U	890	4.5 J
Total Xylenes	300 U	15 U	15 U	15 U	30 U	15 U	15 U	15 U	15 U	1,500 U	60 U
trans-1,3-Dichloropropene	100 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	500 U	20 U
Trichloroethene	100 U	5 U	5 U	5 U	10 U	5 U	5.9	5 U	5 U	500 U	20 U
Vinyl acetate	200 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	1,000 U	40 U
Vinyl chloride	78 J	5 U	5 U	5 U	10 U	5 U	5 U	5 U	2.1 J	500 U	430

Notes:

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

J = Estimated value.

TABLE 3
SPRING 2001 GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	PW12		PZ-101		PZ-102		PZ-103		PZ-104		PZ-105		PZ-106		PZ-107		S-3		S-4	
SAMPLE DATE:	6/1/2001		6/7/2001		6/7/2001		6/7/2001		6/6/2001		6/4/2001		5/31/2001		5/31/2001		5/30/2001		5/30/2001	
VOLATILE ORGANIC COMPOUNDS BY SW-846 Method 8260/5ML (µg/L)																				
1,1,1-Trichloroethane	120	U	5	U	25	U	40	U	5	U	25	U	25000	U	5	U	10	U	5	U
1,1,2,2-Tetrachloroethane	120	U	5	U	25	U	40	U	5	U	25	U	25000	U	5	U	10	U	5	U
1,1,2-Trichloroethane	120	U	5	U	25	U	40	U	5	U	25	U	25000	U	5	U	10	U	5	U
1,1-Dichloroethane	120	U	5	U	25	U	40	U	5	U	25	U	25000	U	5	U	3.6	J	5	U
1,1-Dichloroethene	120	U	5	U	25	U	40	U	5	U	25	U	25000	U	5	U	10	U	5	U
1,2-Dichloroethane	62	J	5	U	25	U	40	U	5	U	25	U	25000	U	5	U	10	U	5	U
1,2-Dichloroethene (total)	120	U	5	U	25	U	40	U	5	U	25	U	25000	U	13		42		1.3	J
1,2-Dichloropropane	120	U	5	U	25	U	40	U	5	U	25	U	25000	U	5	U	10	U	5	U
2-Butanone	250	U	10	U	50	U	80	U	10	U	50	U	50000	U	10	U	20	U	10	U
2-Hexanone	250	U	10	U	50	U	80	U	10	U	50	U	50000	U	10	U	20	U	10	U
4-Methyl-2-pentanone	250	U	10	U	50	U	80	U	10	U	50	U	50000	U	10	U	20	U	10	U
Acetone	620	U	25	U	120	U	200	U	25	U	120	U	120000	U	1.5	J	50	U	25	U
Benzene	130		5.3		25		63		3.4	J	33		25000	U	2.5	J	14		5	U
Bromodichloromethane	120	U	5	U	25	U	40	U	5	U	25	U	25000	U	5	U	10	U	5	U
Bromoform	120	U	5	U	25	U	40	U	5	U	25	U	14,000	J	2.2	J	15		5	U
Bromomethane	250	U	10	U	50	U	80	U	10	U	50	U	50000	U	10	U	20	U	10	U
Carbon disulfide	120	U	5	U	25	U	14	J	1.6	J	27		160,000		86		85		5	U
Carbon tetrachloride	120	U	5	U	25	U	40	U	5	U	72		130,000		60		140		5	U
Chlorobenzene	1,400		20		540		1,300		4.2	J	560		25000	U	1.5	J	110		20	
Chloroethane	250	U	10	U	50	U	80	U	10	U	50	U	50000	U	10	U	20	U	10	U
Chloroform	3,000		5	U	25	U	40	U	5	U	17	J	670,000		39		840		4.5	J
Chloromethane	250	U	10	U	50	U	80	U	10	U	50	U	50000	U	10	U	20	U	10	U
cis-1,3-Dichloropropene	120	U	5	U	25	U	40	U	5	U	25	U	25000	U	5	U	10	U	5	U
Dibromochloromethane	120	U	5	U	25	U	40	U	5	U	25	U	25000	U	5	U	10	U	5	U
Ethylbenzene	89	J	5	U	25	U	40	U	5	U	25	U	25000	U	5	U	10	U	5	U
Methylene chloride	1,800		5	U	25	U	40	U	5	U	25	U	20,000	J	5	U	130		5	U
Styrene	120	U	5	U	25	U	40	U	5	U	25	U	25000	U	5	U	10	U	5	U
Tetrachloroethene	120	U	5	U	25	U	40	U	5	U	10	J	25,000	U	3.6	J	37		5	U
Toluene	2,000		5	U	25	U	200		5	U	56		25000	U	4.6	J	32		5	U
Total Xylenes	510		15	U	75	U	120	U	15	U	75	U	75000	U	15	U	30	U	15	U
trans-1,3-Dichloropropene	120	U	5	U	25	U	40	U	5	U	25	U	25000	U	5	U	10	U	5	U
Trichloroethene	120	U	5	U	25	U	40	U	5	U	25	U	25000	U	6.1		6	J	5	U
Vinyl acetate	250	U	10	U	50	U	80	U	10	U	50	U	50000	U	10	U	20	U	10	U
Vinyl chloride	120	U	5	U	25	U	40	U	5	U	25	U	25000	U	4.4	J	27		1.7	J

Notes:

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

J = Estimated value.

TABLE 4
COMPARISON OF MAY 2001
CHLOROPYRIDINES AND VOLATILE ORGANICS CONCENTRATIONS
IN GROUNDWATER TO PREVIOUS RESULTS (ug/L)

ARCH ROCHESTER
SEMI-ANNUAL GROUNDWATER MONITORING REPORT - SPRING 2001

WELL	SELECTED CHLOROPYRIDINES						SELECTED VOCs					
	# EVENTS (PRIOR 5 YRS)	HISTORIC MAXIMUM	5-YEAR MEAN	MAY-2001 RESULT	=< MEAN OR ND	> MEAN	# EVENTS (PRIOR 5 YRS)	HISTORIC MAXIMUM	5-YEAR MEAN	MAY-2001 RESULT	=< MEAN OR ND	> MEAN
ON-SITE WELLS/LOCATIONS												
B-17	9	28,000,000	310,000	137,000	X		7	345,000	118,000	38,000	X	
BR-102	9	2,100	640	860		X	8	3900	430	150	X	
BR-3	8	6,500,000	130,000	7,400	X		6	600,000	320,000	490,000		X
BR-5A	11	1,700	120	230		X	6	9400	1,100	210	X	
BR-6A	9	93,000	30,000	17,000	X		8	26,000	10,000	10,000	X	
BR-7A	9	510,000	15,000	9,900	X		7	3000	800	260	X	
BR-8	10	57,000	7,600	11,000		X	1	6900	4	ND	X	
BR-9	4	720	630	470	X		4	160	130	39	X	
E-1	8	18,000	3,300	20,000		X	7	5,300	1,000	2,800		X
E-3	9	600	34	56		X	4	12000	240	1.6	X	
PW10*	3	160,000	97,000	2,200	X		3	120,000	83,000	36,000	X	
PW11*	1	27,000	NA	3,000	X		1	ND	ND	ND	X	
PW12	8	11,000	3000	290	X		7	120,000	9,700	4,800	X	
PZ-106	5	110,000	12,000	11,000	X		5	960,000	380,000	820,000		X
PZ-107	5	11,000	1,700	2,300		X	5	12,000	1,100	110	X	
S-3	3	6,800	410	21,000		X	2	260	150	1,200		X

TABLE 4
COMPARISON OF MAY 2001
CHLOROPYRIDINES AND VOLATILE ORGANICS CONCENTRATIONS
IN GROUNDWATER TO PREVIOUS RESULTS (ug/L)

ARCH ROCHESTER
SEMI-ANNUAL GROUNDWATER MONITORING REPORT - SPRING 2001

WELL	SELECTED CHLOROPYRIDINES						SELECTED VOCs					
	# EVENTS (PRIOR 5 YRS)	HISTORIC MAXIMUM	5-YEAR MEAN	MAY-2001 RESULT	=< MEAN OR ND	> MEAN	# EVENTS (PRIOR 5 YRS)	HISTORIC MAXIMUM	5-YEAR MEAN	MAY-2001 RESULT	=< MEAN OR ND	> MEAN
OFF-SITE WELLS/LOCATIONS												
BR-103	9	400	29	ND	X		6	1	ND	ND	X	
BR-104	10	3,100	15	ND	X		7	9	ND	ND	X	
BR-105	10	24,000	2,500	1,300	X		7	310	9.2	7.5	X	
BR-105D	10	10,000	3,300	3,900		X	7	230	56	1.3	X	
BR-106	10	21,000	8,000	9,800		X	6	6,300	1,300	ND	X	
BR-108	9	1,700	260	15	X		6	ND	ND	ND	X	
BR-112A	9	47	24	ND	X		3	ND	ND	ND	X	
BR-112D	10	310	89	92		X	3	4	4.3	1.3	X	
BR-113	9	8	4	ND	X		1	ND	ND	NA		
BR-113D	10	490	160	140	X		1	3	2.8	NA		
BR-114	10	450	150	47	X		5	5	2.5	12		X
BR-124D	7	65	65	NA	X		7	ND	ND	ND	X	
MW-106	9	130,000	21,000	20,000	X		6	89	6.0	ND	X	
MW-108	5	28	12	ND	X		5	ND	ND	ND	X	
MW-114	10	18	13	ND	X		5	11	7.5	14		X
NESS-E	12	5,000	970	480	X		6	700	3.0	ND	X	
NESS-W	11	2,100	950	120	X		6	89	1.1	ND	X	

Note:
1) Number of samples and mean reflect 5-year sampling period from March 1996 through November 2000.
Historic maximum based on all available results from March 1990 through November 2000.
2) Chloropyridines represented by: 2-Chloropyridine, 2,6-Dichloropyridine, and 3-Chloropyridine, p-Fluoroaniline, and Pyridine.
3) Selected VOCs represented by Carbon Tetrachloride, Chloroform, Methylene Chloride, Tetrachloroethene, and Trichloroethene.
4) X = Comparison of May 2001 concentration to 5-year mean.
5) NA = Not analyzed or not applicable
ND = Not detected
* = PW10 and PW11 were first sampled in January 1999 and May 2000, respectively.

TABLE 5
EXTRACTION WELL WEEKLY FLOW MEASUREMENTS - JANUARY 2001 THROUGH JUNE 2001

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

	BR-5A [Gal./Wk]	BR-6A [Gal./Wk]	BR-7A [Gal./Wk]	BR-9 [Gal./Wk]	PW12 [Gal./Wk]	PW-10 [Gal./Wk]	PW-11 [Gal./Wk]	Total [Gal./Wk]	Comments
January									
01/05/01	-	14,271	18,301	4,714	-	-	17,236	54,522	BR5 Pit Frozen, Work order in to pipe to area "D" line
01/12/01	-	12,722	20,435	6,825	-	-	18,251	58,233	"
01/19/01	-	17,315	24,501	3,955	-	-	15,397	61,168	"
01/26/01	-	15,815	21,186	5,820	-	-	20,641	63,462	"
							Total [Gal.]	237,385	
February									
02/02/01	-	18,492	20,195	6,027	-	-	21,047	65,761	"
02/09/01	-	16,402	23,945	8,347	-	-	19,540	68,234	"
02/16/01	-	15,067	27,680	11,348	-	-	22,947	77,042	"
02/23/01	2,619	2,056	25,301	15,347	-	-	20,517	65,840	
							Total [Gal.]	276,877	
March									
03/02/01	1,018	8,471	42,751	17,936	-	-	31,274	101,450	BR6 Shut down for 4 days for pump replacement, BR5 to have electrical repair
03/09/01	-	126,358	112,332	27,849	-	-	32,768	299,307	
03/16/01	-	112,284	96,323	37,830	10,214	9,531	31,728	297,910	PW10 and PW12 begin pumping.
03/23/01	-	40,743	39,861	21,549	23,000	23,621	13,113	161,887	Temporary shut downs for well Re-Development(BR-6A, BR-7A, BR-5A, BR-9).
03/30/01	34,715	-	-	526	23,921	11,497	34,253	104,912	BR-7A and BR-6A pump change out
							Total [Gal.]	965,466	
April									
04/06/01	76,320	-	-	8,598	23,042	17,550	11,500	137,010	
04/13/01	81,971	-	-	17,189	24,432	9,551	12,527	145,670	
04/20/01	71,581	25,308	-	17,082	27,932	24,558	9,747	176,208	BR-6A Back on-line
04/27/01	76,937	25,307	-	14,872	21,746	25,802	-	164,664	
							Total [Gal.]	623,552	
May									
05/04/01	81,504	78,172	-	32,317	28,392	25,802	15,589	261,776	
05/11/01	64,937	66,877	40,248	38,111	16,118	25,796	4,108	256,195	BR-7A back on-line
05/18/01	35,720	40,503	93,189	32,211	27,216	25,802	4,670	259,311	
05/25/01	39,699	95,342	90,287	26,137	27,109	23,632	16,186	318,392	
							Total [Gal.]	1,095,674	
June									
06/01/01	39,658	89,668	85,740	8,004	20,880	8,097	22,723	274,770	PW12 meter malfunction - Flow estimated as average of 5/25 and 6/8
06/08/01	30,841	85,717	91,225	15,737	14,651	4,984	26,196	269,351	
06/15/01	29,156	71,884	86,819	14,853	578	3,989	26,352	233,631	
06/22/01	26,077	50,763	85,776	15,473	16,379	1,402	24,700	220,570	
06/29/01	22,268	77,245	87,157	13,517	25,237	21,493	26,961	273,878	BR-9 meter malfunction - Flow estimated as average for prior 4 weeks.
							Total [Gal.]	1,272,200	
Total 6 Mo. Removal (Gal.)	715,021	1,106,782	1,133,252	422,174	330,847	263,107	499,971	4,471,154	

TABLE 6

MASS REMOVAL SUMMARY
PERIOD: 11/11/00 - 6/1/01

ARCH ROCHESTER
SEMI-ANNUAL GROUNDWATER MONITORING REPORT - SPRING 2001

Well	Total Vol. Pumped (gallons)	Avg. VOC Conc. (ppm)	Avg. PYR. Conc. (ppm)	VOCs Removed (pounds)	PYR. Removed (pounds)
BR-5A	612,000	0.14	0.16	0.7	0.8
BR-6A	906,000	7.7	12	58	91
BR-7A	922,000	0.7	13	5	100
BR-9	388,000	0.5	0.54	1.6	1.7
PW-10	231,000	79	81	152	156
PW-11	451,000	0.55	15	2.1	56
PW-12	274,000	5.6	0.46	13	1.0
Totals:	3,784,000			232.7	406.2

Note: VOC and pyridine concentrations used in this table are an average of the 2nd Quarter 2001 analytical result and the most recent previous analytical result available for each well

TABLE 7
QUARTERLY SAMPLING SCHEDULE
ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

ARCH ROCHESTER MONITORING PROGRAM					Q1		Q2		Q3		Q4		TOTAL	
	Well	zone	area	Data Objective:	Pyridines	VOC's	Pyridines	VOC's	Pyridines	VOC's	Pyridines	VOC's	Pyridines	VOC's
OFF-SITE MONITORING	MW-103	OB	KODAK EAST	overburden plume monitoring			1	1			1	1	2	2
	BR-103	BR	KODAK EAST	shallow bedrock plume monitoring			1	1			1	1	2	2
	MW-104	OB	BUFFALO RD	overburden plume monitoring			1	1			1	1	2	2
	BR-104	BR	BUFFALO RD	shallow bedrock plume monitoring			1	1			1	1	2	2
	BR-105	BR	AID-HOSP	shallow bedrock plume monitoring			1	1			1	1	2	2
	BR-105D	BR deep	AID-HOSP	deep bedrock plume monitoring			1	1			1	1	2	2
	MW-106	OB	AID-HOSP	overburden plume monitoring			1	1			1	1	2	2
	BR-106	BR	AID-HOSP	shallow bedrock plume monitoring			1	1			1	1	2	2
	MW-108	OB	AID-HOSP	overburden plume monitoring			1	1			1	1	2	2
	BR-108	BR	AID-HOSP	shallow bedrock plume monitoring			1	1			1	1	2	2
	BR-111	BR	NYSDOT	shallow bedrock plume monitoring			1	1			1	1	2	2
	BR-111D	BR deep	NYSDOT	deep bedrock plume monitoring			1	1			1	1	2	2
	BR-112A	BR	NYSDOT	shallow bedrock plume monitoring			1	1			1	1	2	2
	BR-112D	BR deep	NYSDOT	deep bedrock plume monitoring			1	1			1	1	2	2
	BR-113	BR	NYSDOT	shallow bedrock plume monitoring			1				1		2	0
	BR-113D	BR deep	NYSDOT	deep bedrock plume monitoring			1				1		2	0
	MW-114	OB	JACKSON	shallow bedrock plume monitoring			1	1			1	1	2	2
	BR-114	BR	JACKSON	deep bedrock plume monitoring			1	1			1	1	2	2
	BR-116	BR	PFAUDLER	shallow bedrock plume monitoring			1						1	0
	BR-116D	BR deep	PFAUDLER	deep bedrock plume monitoring			1						1	0
	BR-117D	BR deep	QUARRY	deep bedrock plume monitoring			1						1	0
	BR-118D	BR deep	QUARRY	deep bedrock plume monitoring			1						1	0
	BR-119D	BR deep	QUARRY	deep bedrock plume monitoring			1						1	0
	BR-120D	BR deep	QUARRY	deep bedrock plume monitoring			1						1	0
	BR-121D	BR deep	QUARRY	deep bedrock plume monitoring			1						1	0
	BR-122D	BR deep	QUARRY	deep bedrock plume monitoring			1						1	0
	BR-123D	BR deep	QUARRY	deep bedrock plume monitoring			1						1	0
	BR-124D	BR deep	QUARRY	deep bedrock plume monitoring			1	1			1	1	2	2
	NESS-E	BR deep	NESS	deep bedrock plume monitoring			1	1			1	1	2	2
	NESS-W	BR deep	NESS	deep bedrock plume monitoring			1	1			1	1	2	2
	PZ-101	BR	McKee Rd	shallow bedrock plume monitoring			1	1			1	1	2	2
	PZ-102	BR	McKee Rd	shallow bedrock plume monitoring			1	1			1	1	2	2
	PZ-103	BR	McKee Rd	shallow bedrock plume monitoring			1	1			1	1	2	2
	PZ-104	BR	ALH	shallow bedrock plume monitoring			1	1			1	1	2	2
ON-SITE MONITORING	PZ-107	BR	ON-SITE	onsite tracking of contam trends			1	1			1	1	2	2
	PZ-106	BR	ON-SITE	onsite tracking of contam trends			1	1			1	1	2	2
	PZ-105	BR	ON-SITE	onsite tracking of contam trends			1	1			1	1	2	2
	BR-102	BR	ON-SITE	onsite tracking of contam trends			1	1			1	1	2	2
	BR-3	BR	ON-SITE	onsite tracking of contam trends			1	1			1	1	2	2
	BR-8	BR	ON-SITE	onsite tracking of contam trends			1	1			1	1	2	2
	BR-9	pumping well	ON-SITE	onsite tracking of removed contaminants			1	1			1	1	2	2
	BR-5A	pumping well	ON-SITE	onsite tracking of removed contaminants			1	1			1	1	2	2
	BR-6A	pumping well	ON-SITE	onsite tracking of removed contaminants			1	1			1	1	2	2
	BR-7A	pumping well	ON-SITE	onsite tracking of removed contaminants			1	1			1	1	2	2
	B-17	OB	ON-SITE	onsite tracking of contam trends			1	1			1	1	2	2
	B-7	OB	ON-SITE	onsite tracking of contam trends			1	1			1	1	2	2
	B-9	OB	ON-SITE	onsite tracking of contam trends			1	1			1	1	2	2
	S-3	OB	ON-SITE	onsite tracking of contam trends			1	1			1	1	2	2
	S-4	OB	ON-SITE	onsite tracking of contam trends			1	1			1	1	2	2
	E-1	OB	ON-SITE	onsite tracking of contam trends			1	1			1	1	2	2
	E-3	OB	ON-SITE	onsite tracking of contam trends			1	1			1	1	2	2
	PW10	BR	ON-SITE	onsite tracking of contam trends			1	1			1	1	2	2
	PW11	BR	ON-SITE	onsite tracking of contam trends			1	1			1	1	2	2
	PW12	BR	ON-SITE	onsite tracking of contam trends			1	1			1	1	2	2
QUARRY/CANAL MONITORING	QS-4	quarry seep	QUARRY	track quarry seep quality	1		1	1	1		1	1	4	2
	QO-2	quarry outfall	CANAL	track water quality input to canal	1		1	1	1		1	1	4	2
	QO-2S1	canal at outfall	CANAL	track dilution of input to canal	1		1		1		1		4	0
	SW-1	barge canal	CANAL	track canal water quality	1		1		1		1		4	0
	SW-2	barge canal	CANAL	track canal water quality	1		1		1		1		4	0
	SW-3	barge canal	CANAL	track canal water quality	1		1		1		1		4	0
	SW-6	barge canal	CANAL	track canal water quality	1		1		1		1		4	0
	SW-12	barge canal	CANAL	track canal water quality	1		1		1		1		4	0
TOTAL SAMPLES					8	0	62	45	8	0	53	45	131	90

Figures

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LEGEND

ARCH PROPERTY

BR-121D BEDROCK WELL

I-390

ERIE BARGE CANAL

N

MW-107/BR-107

FIRTH RIXSON

McKEE ROAD

MW-103/BR-103

ARCH

KODAK

MW-108/BR-108

PZ-102

PZ-103

BR-111/111D

MW-106/BR-106

AID TO HOSPITALS

AMERICAN RECYCLE

BR-112/112D

MW-105/BR-105D

MW-104 /BR-104

BUFFALO ROAD

MW-114/BR-114

12-6

8-6

CUMBERLAND FARMS PETROLEUM TERMINAL

7-6

OW-105

11-6

RW-1

NESS-W

NESS-E

BR-113/113D

LEXINGTON

GENERAL RAIL SIGNAL CO.

9-6

10-6

OW-102A

BR-122D

OW-103

13-4

PFAUDLER

DOLOMITE PRODUCTS QUARRY

HOWARD ROAD

MOREY WELL

MAIN EXTENT OF WATER-BEARING FRACTURE IN QUARRY WALL

BR-117D

BR-117

BR-118

BR-118D

BR-121D

BR-120D

BR-119D

BR-116D

BR-116

BR-123D

BR-124D

Scale in Feet

0 500 1000

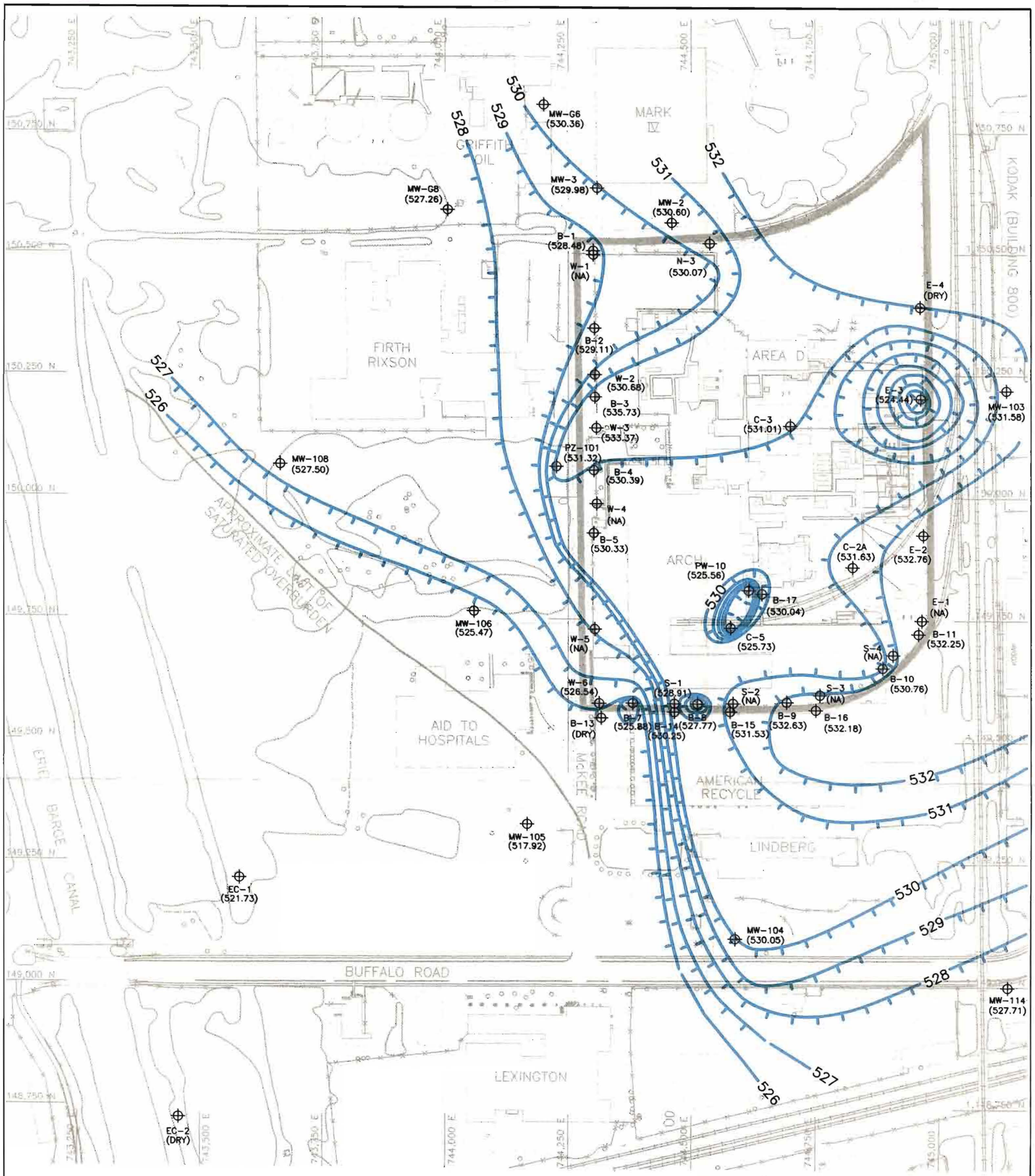
Source:
USGS Topographic Quadrangle 7.5-Minute Series;
Rochester West, N.Y., 1971 (Photorevised 1978).

LETTINGTON ROAD

FIGURE 1

OFF-SITE GROUNDWATER MONITORING WELL LOCATIONS

ARCH CHEMICALS
ROCHESTER, N.Y.



NOTE:

1. WATER LEVELS MEASURED ON MAY 29, 2001

N

0 100 200 400 FEET

SCALE: 1"=200'

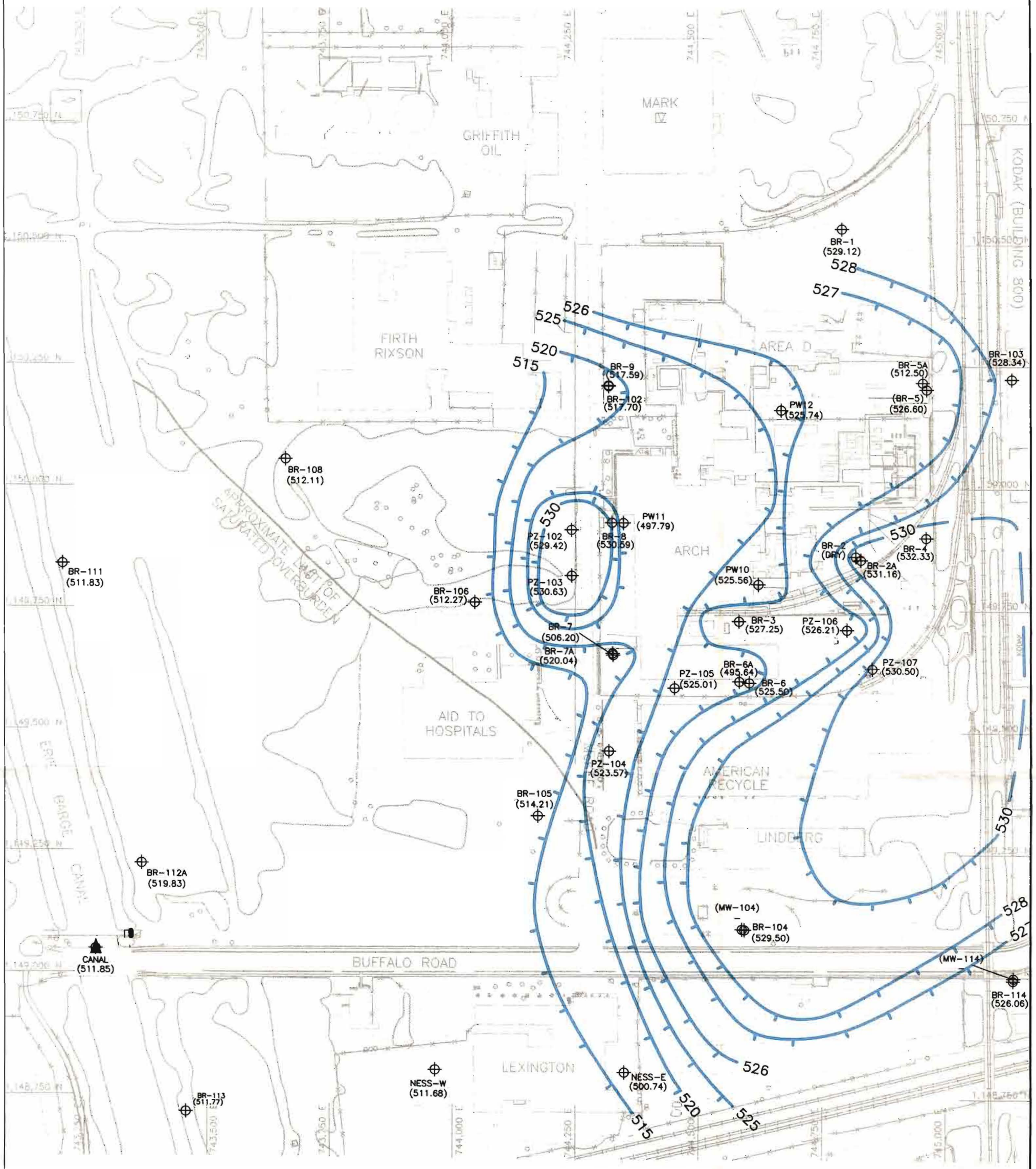
LEGEND

- OUTLINE OF ARCH PROPERTY BOUNDARY
- 530 — OVERBURDEN PIEZOMETRIC ELEVATION CONTOUR (MSL)
- INTERPRETED GROUNDWATER FLOW DIRECTION
- MW-106 (529.22) — PIEZOMETRIC ELEVATION AT WELL OR PIEZOMETER (MSL)

FIGURE 3

MAY 2001 OVERBURDEN GROUNDWATER INTERPRETED PIEZOMETRIC CONTOURS

ARCH CHEMICALS
ROCHESTER, N.Y.



LEGEND

OUTLINE OF ARCH PROPERTY BOUNDARY

{BR-112D} (511.68) — PIEZOMETRIC ELEVATION AT WELL OR PIEZOMETER (MSL

▲ PIEZOMETRIC ELEVATION AT SURFACE WATER MEASUREMENT POINT

0 100 200 400 FEET

SCALE: 1"=200'

N

NOTES:

1. WATER LEVELS MEASURED MAY 29, 2001.

FIGURE 4

MAY 2001 BEDROCK GROUNDWATER INTERPRETED PIEZOMETRIC CONTOURS

ARCH CHEMICALS
ROCHESTER, N.Y.

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LEGEND

ARCH PROPERTY

500 — DEEP BEDROCK GROUNDWATER PIEZOMETRIC ELEVATION CONTOUR (MSL)

INTERPRETED GROUNDWATER FLOW DIRECTION

BR-114D — BEDROCK WELL ('D' DESIGNATES DEEP WELL)

(500.0) — PIEZOMETRIC ELEVATION AT DEEP BEDROCK WELL

NOTES:

1. WATER LEVELS MEASURED MAY 29, 2001.
2. DASHED CONTOURS REFLECT UNCERTAINTY

N

ERIE BARGE CANAL

I-390

BUFFALO ROAD

HOWARD ROAD

DOLOMITE PRODUCTS QUARRY

CUMBERLAND FARMS PETROLEUM TERMINAL

FIRTH RIXSON

MCKEE ROAD

ARCH

KODAK

AID TO HOSPITALS

AMERICAN RECYCLE

LEXINGTON

GENERAL RAIL SIGNAL CO.

PFAUDLER

LETTINGTON DRIVE

BR-107
BR-9
BR-103
BR-108
BR-111
BR-111D (511.44)
BR-2D (537.95)
BR-106
BR-3D (466.05)
MW-PZ-105
BR-112
BR-112D (511.71)
BR-105
BR-105D (511.33)
BR-104
BR-114
BR-113
BR-113D (511.76)
BR-122D (508.11)
BR-117D (497.63)
BR-117
498
BR-121D (498.45)
BR-118
BR-118D (499.32)
499
BR-120D (499.05)
BR-119D (501.32)
500
501
502
503
504
505
506
507
508
509
510
BR-123D (508.43)
BR-116D (509.55)
BR-116
BR-124D (506.82)

Scale in Feet
0 500 1000

Source:
USGS Topographic Quadrangle 7.5-Minute Series;
Rochester West, N.Y., 1971 (Photorevised 1978).

FIGURE 5

MAY 2001
DEEP BEDROCK GROUNDWATER
INTERPRETED PIEZOMETRIC CONTOURS

ARCH CHEMICALS
ROCHESTER, N.Y.

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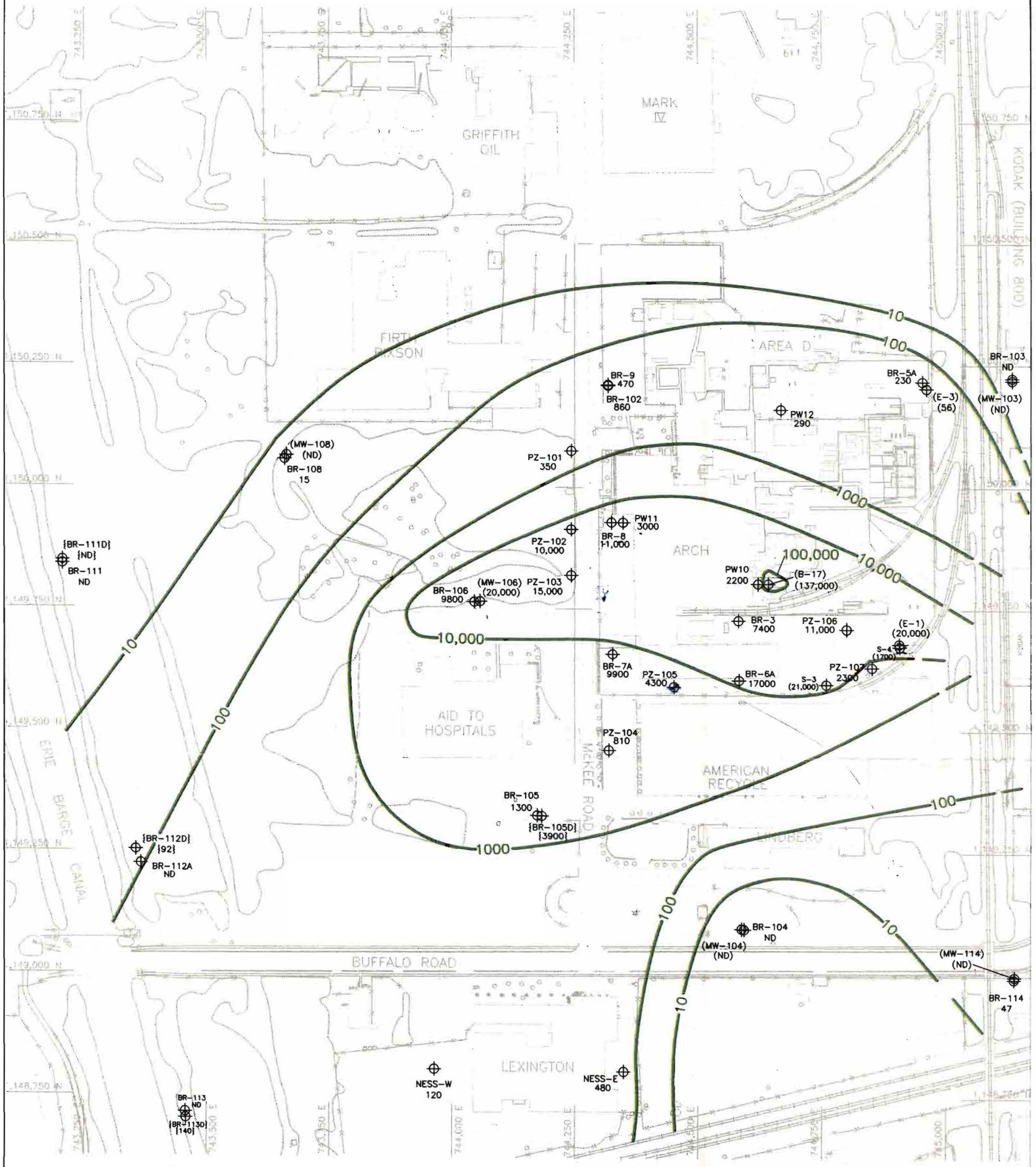


LEGEND

OUTLINE OF ARCH PROPERTY BOUNDARY

{BR-112D} {1.3} — CONCENTRATION AT SAMPLE LOCATION (ug/L)

{1000} DEEP BEDROCK WELL

(1000) OVERBURDEN WELL

1000 BEDROCK WELL

NOTES:

1. SAMPLES COLLECTED FROM MAY 30 THRU JUNE 8, 2001.
2. SELECTED CHLOROPYRIDINES CONSIST OF 2,6-DICHLOROPYRIDINE, 3-CHLOROPYRIDINE, AND 3-CHLOROPYRIDINE, 4-CHLOROPYRIDINE, AND P-FLUOROANILINE.
3. CONCENTRATION CONTOURS REPRESENTED FOR BEDROCK WELLS AND SELECTED OVERBURDEN AND DEEP BEDROCK WELLS.

0 100 200 400 FEET

SCALE: 1"=200'

N

FIGURE 6

MAY 2001 SELECTED CHLOROPYRIDINE CONCENTRATION CONTOURS IN BEDROCK GROUNDWATER

ARCH CHEMICALS
ROCHESTER, N.Y.

LEGEND

- OUTLINE OF ARCH PROPERTY BOUNDARY
- {BR-112D} {1.3} — CONCENTRATION AT SAMPLE LOCATION (ug/L)
- {1000} DEEP BEDROCK WELL
- (1000) OVERBURDEN WELL
- 1000 BEDROCK WELL

NOTES:

1. SAMPLES COLLECTED FROM MAY 30 THRU JUNE 8, 2001.
2. SELECTED VOLATILE ORGANIC COMPOUNDS CONSIST OF CARBON TETRACHLORIDE, CHLOROFORM, METHYLENE CHLORIDE, TETRA-CHLOROETHENE AND TRICHLOROEHTENE.
3. CONCENTRATION CONTOURS REPRESENTED FOR BEDROCK WELLS AND SELECTED OVERBURDEN AND DEEP BEDROCK WELLS.

0 100 200 400 FEET

SCALE: 1"=200'

N

FIGURE 7

MAY 2001 SELECTED VOLATILE ORGANIC COMPOUND CONCENTRATION CONTOURS FOR GROUNDWATER

ARCH CHEMICALS
ROCHESTER, N.Y.

Appendix A

Groundwater Field Sampling Data Sheets

Sampling (ry Table
HARDING LAWSON ASSOCIATES
JUNE 2001
RI SAMPLING/ROCHESTER NY FACILITY

Sample Point	—Water Level— Date	Time	Water Level (ft)*	Water Elevation (ft)**	Bottom Of Well (ft)*	Field Measurements Date	Time	pH (STD) (Units)	Spec. Cond. (umhos)	Temp (°C)	Turb. (NTU)	Other Field Measurements	
B-17	06/04/2001	1142	8.98	N/A	16.23	06/04/2001	1210	10.15	12020	13.8	3.04	EH(mv)= -104	DO(ppm)= 0
B-7	05/30/2001	1125	14.75	N/A	20.90	05/30/2001	1200	6.90	1301	13.1	69.10	EH(mv)= -96	DO(ppm)= 0
B-9	05/30/2001	1240	5.20	N/A	11.70	05/30/2001	1305	7.24	1551	13.0	84.60	EH(mv)= -63	DO(ppm)= 0
BR-101	06/01/2001	1152	10.10	N/A	N/A	06/01/2001	1210	6.97	5946	14.9	13.39	EH(mv)= -126	DO(ppm)= 0
BR-102	06/04/2001	1028	22.61	N/A	51.40	06/04/2001	1055	6.70	4287	13.5	0.57	EH(mv)= -133	DO(ppm)= 0
BR-103	06/01/2001	1445	5.06	N/A	43.45	06/01/2001	1515	7.14	1396	13.9	15.80	EH(mv)= -86	DO(ppm)= 0.09
BR-104	06/06/2001	1047	8.20	N/A	19.12	06/06/2001	1110	8.52	205	12.4	10.26	EH(mv)= 27	DO(ppm)= 0
BR-105	06/08/2001	1210	23.30	N/A	44.60	06/08/2001	1250	6.88	1659	12.9	15.18	EH(mv)= -148	DO(ppm)= 0.30
BR-105D	06/08/2001	1300	24.91	N/A	79.50	06/08/2001	1340	7.24	5519	13.9	5.99	EH(mv)= -353	DO(ppm)= 0.45
BR-106	06/08/2001	1010	22.80	N/A	43.22	06/08/2001	1100	6.80	2127	13.6	310.00	EH(mv)= -179	DO(ppm)= 0.32
BR-108	06/04/2001	1415	25.08	N/A	29.75	06/05/2001	1420	6.82	1037	13.7	158.90	EH(mv)= 21	DO(ppm)= 0
BR-111	06/05/2001	1104	28.64	N/A	47.75	06/05/2001	1520	6.91	1308	12.3	4.73	EH(mv)= -13	DO(ppm)= 0
BR-111D	06/05/2001	1105	28.77	N/A	77.10	06/05/2001	1535	6.74	31390	13.1	38.20	EH(mv)= -358	DO(ppm)= 0
BR-112A	06/05/2001	1021	27.80	N/A	42.58	06/05/2001	1500	7.12	1122	13.3	17.36	EH(mv)= 121	DO(ppm)= 0
BR-112D	06/05/2001	1020	36.18	N/A	72.26	06/05/2001	1505	6.99	2127	13.1	24.60	EH(mv)= -171	DO(ppm)= 0
BR-113	06/07/2001	1250	31.13	N/A	47.70	06/07/2001	1325	7.01	2827	12.0	24.50	EH(mv)= -301	DO(ppm)= 0.82
BR-113D	06/07/2001	1155	30.98	N/A	79.25	06/07/2001	1235	7.01	2145	11.7	1.20	EH(mv)= -290	DO(ppm)= 0.56
BR-114	06/05/2001	1210	14.00	N/A	36.93	06/05/2001	1245	7.65	1231	15.6	70.20	EH(mv)= -140	DO(ppm)= 0
BR-116	06/01/2001	1240	27.76	N/A	62.20	06/01/2001	1315	6.74	1801	18.4	20.20	EH(mv)= -91	DO(ppm)= 0.43
BR-116D	06/01/2001	1150	35.63	N/A	98.10	06/01/2001	1230	10.69	1909	15.8	19.90	EH(mv)= -135	DO(ppm)= 0.72
BR-117D	05/31/2001	1150	49.63	N/A	82.24	05/31/2001	1235	9.19	982	11.8	21.50	EH(mv)= -261	DO(ppm)= 0.53
BR-118D	05/31/2001	1050	48.55	N/A	87.27	05/31/2001	1130	6.84	2197	10.9	12.46	EH(mv)= -295	DO(ppm)= 0.73
BR-119D	05/30/2001	1420	65.18	N/A	111.70	05/30/2001	1455	7.38	3783	11.2	23.80	EH(mv)= -194	DO(ppm)= 0.00
BR-120D	05/30/2001	1140	58.62	N/A	92.24	05/30/2001	1230	6.83	5303	9.4	13.93	EH(mv)= -81	DO(ppm)= 0.00
BR-121D	05/30/2001	1300	56.49	N/A	94.02	05/30/2001	1350	7.14	672	11.1	12.83	EH(mv)= -135	DO(ppm)= 0.12
BR-122D	05/31/2001	1340	44.23	N/A	82.57	05/31/2001	1420	6.89	1933	11.8	13.42	EH(mv)= -222	DO(ppm)= 0.30
BR-123D	05/31/2001	1430	45.08	N/A	97.56	05/31/2001	1505	8.77	1284	12.2	23.50	EH(mv)= -174	DO(ppm)= 0.00
BR-124D	06/01/2001	1030	30.95	N/A	117.43	06/01/2001	1110	6.93	43810	11.3	9.05	EH(mv)= -186	DO(ppm)= 0.25
BR-3	06/01/2001	1255	11.03	N/A	23.25	06/01/2001	1320	6.64	20004	13.5	9.91	EH(mv)= -115	DO(ppm)= 0
BR-5A	06/01/2001	1133	26.52	N/A	N/A	06/01/2001	1135	6.85	1849	12.4	18.15	EH(mv)= -28	DO(ppm)= 0
BR-6A	06/01/2001	1339	22.91	N/A	N/A	06/01/2001	1345	9.32	4370	13.4	21.40	EH(mv)= -186	DO(ppm)= 0
BR-7A	06/01/2001	1413	34.62	N/A	N/A	06/01/2001	1415	7.28	2674	13.5	26.10	EH(mv)= -179	DO(ppm)= 0

SG - Specific Gravity
EH - Redox
DO - Dissolved Oxygen

* From Top of Riser
** Elevation Above Sea Level

Sampling ry Table
HARDING LAWSON ASSOCIATES
JUNE 2001
RI SAMPLING/ROCHESTER NY FACILITY

Sample Point	—Water Level— Date	Time	Water Level (ft)*	Water Elevation (ft)**	Bottom Of Well (ft)*	Field Measurements Date	Time	pH (STD) (Units)	Spec. Cond. (umhos)	Temp (°C)	Turb. (NTU)	Other Field Measurements	
BR-8	05/31/2001	1115	9.50	N/A	31.74	05/31/2001	1200	8.03	4068	14.5	12.11	EH(mv)= -210	DO(ppm)= 0
BR-9	06/01/2001	1100	25.11	N/A	N/A	06/01/2001	1105	6.63	2832	15.4	159.20	EH(mv)= -11	DO(ppm)= 0
E-1	05/31/2001	1250	1.51	N/A	9.75	05/31/2001	1315	8.01	3381	15.7	7.76	EH(mv)= -231	DO(ppm)= 0
E-3	06/01/2001	1125	11.55	N/A	12.05	06/04/2001	1130	7.15	1924	17.1	68.50	EH(mv)= 92	DO(ppm)= 0
	Comments: SAMPLED 6/4-6/8												
MW-103	06/01/2001	1355	1.90	N/A	8.05	06/01/2001	1430	7.25	507	16.9	4.47	EH(mv)= 6	DO(ppm)= 0.03
MW-104	06/06/2001	952	7.80	N/A	18.10	06/06/2001	1030	6.75	985	13.2	188.70	EH(mv)= 17	DO(ppm)= 0
MW-106	06/08/2001	1115	10.18	N/A	19.35	06/08/2001	1150	7.02	2110	13.2	26.80	EH(mv)= -203	DO(ppm)= 0.48
MW-108	06/04/2001	1400	13.80	N/A	20.20	06/05/2001	1405	6.89	1072	14.2	11.58	EH(mv)= 114	
MW-114	06/05/2001	1245	12.21	N/A	15.76	06/05/2001	1310	7.00	2080	15.6	8.21	EH(mv)= 93	DO(ppm)= 0
NESS-E	06/07/2001	1050	39.53	N/A	74.52	06/07/2001	1130	7.33	1530	12.9	33.20	EH(mv)= -56	DO(ppm)= 0.12
NESS-W	06/07/2001	945	31.41	N/A	77.23	06/07/2001	1030	7.13	3013	13.3	9.72	EH(mv)= -165	DO(ppm)= 0.46
PW-10	06/01/2001	1405	17.44	N/A	N/A	06/01/2001	1440	8.88	7760	15.4	82.90	EH(mv)= -190	DO(ppm)= 0
PW-11	05/31/2001	1040	28.00	N/A	N/A	05/31/2001	1050	6.81	2687	15.2	9.83	EH(mv)= 51	DO(ppm)= 0
PZ-101	06/07/2001	945	13.62	N/A	21.69	06/07/2001	1015	6.75	1885	15.4	5.44	EH(mv)= 85	DO(ppm)= 0
PZ-102	06/07/2001	1040	13.41	N/A	32.60	06/07/2001	1105	7.17	3420	17.5	2.44	EH(mv)= -240	DO(ppm)= 0
PZ-103	06/07/2001	1140	11.91	N/A	32.52	06/07/2001	1205	7.24	3845	16.2	1.20	EH(mv)= -291	DO(ppm)= 0
PZ-104	06/06/2001	1145	13.71	N/A	23.93	06/06/2001	1210	6.96	2149	14.1	1.95	EH(mv)= -191	DO(ppm)= 0
PZ-105	06/04/2001	1250	11.92	N/A	32.86	06/04/2001	1315	7.30	3536	14.5	69.30	EH(mv)= -258	DO(ppm)= 0
PZ-106	05/31/2001	1335	11.16	N/A	27.90	05/31/2001	1400	5.78	15530	14.7	69.10	EH(mv)= 49	DO(ppm)= 0
PZ-107	05/31/2001	1425	7.98	N/A	27.90	05/31/2001	1450	7.36	2867	12.7	1.25	EH(mv)= -103	DO(ppm)= 0
QO-2	06/08/2001	1140	0.00	N/A	N/A	06/08/2001	1145	8.08	2052	18.7	6.59	EH(mv)= 94	
QO-2S1	06/08/2001	1151	0.00	N/A	N/A	06/08/2001	1155	7.75	615	20.4	9.30	EH(mv)= 82	
QS-4	06/08/2001	1040	0.00	N/A	N/A	06/08/2001	1045	7.89	1720	13.3	3.28	EH(mv)= -30	
S-3	05/30/2001	1335	2.00	N/A	13.38	05/30/2001	1400	8.07	3374	14.5	3.49	EH(mv)= -192	DO(ppm)= 0
S-4	05/30/2001	1417	0.75	N/A	13.05	05/30/2001	1440	7.90	1316	14.1	9.39	EH(mv)= -111	DO(ppm)= 0
SW-1(490)	06/08/2001	1222	0.00	N/A	N/A	06/08/2001	1225	7.60	596	20.1	10.43	EH(mv)= 81	
SW-12	06/08/2001	1110	0.00	N/A	N/A	06/08/2001	1115	7.43	611	21.2	10.75	EH(mv)= 81	
SW-2(BRIDGE)	06/08/2001	1004	0.00	N/A	N/A	06/08/2001	1005	7.13	647	19.7	8.55	EH(mv)= 65	
SW-3(TRAIN)	06/08/2001	1020	0.00	N/A	N/A	06/08/2001	1025	7.60	581	19.5	10.15	EH(mv)= 85	
SW-6	06/08/2001	1205	0.00	N/A	N/A	06/08/2001	1210	7.58	594	19.6	9.01	EH(mv)= 92	

SG - Specific Gravity
EH - Redox
DO - Dissolved Oxygen

* From Top of Riser
** Elevation Above Sea Level

Date: 06/1[illegible]01
Time: 14:45:57

Groundwater [illegible]vation Report
HARDING LAWSON ASSOC.
JUNE 2001
ARCH-ROCHESTER WATER LEVEL MEASUREMENTS

Sample Point	Date	Time	Casing Elevation	Depth to Water	GW Elv.	Comments
B-1	05/29/2001	1241	0.00	9.00	N/A	
B-10	05/29/2001	1030	0.00	7.21	N/A	
B-11	05/29/2001	1027	0.00	3.75	N/A	
B-13	05/29/2001	1221	0.00	N/A	N/A	DRY
B-14	05/29/2001	1231	0.00	7.70	N/A	
B-15	05/29/2001	1233	0.00	3.76	N/A	
B-16	05/29/2001	1235	0.00	4.03	N/A	
B-17	05/29/2001	1012	0.00	8.80	N/A	
B-2	05/29/2001	1143	0.00	9.80	N/A	
B-3	05/29/2001	1139	0.00	5.89	N/A	
B-4	05/29/2001	1134	0.00	12.48	N/A	
B-5	05/29/2001	1128	0.00	9.77	N/A	
B-7	05/29/2001	1102	0.00	14.80	N/A	
B-8	05/29/2001	1046	0.00	10.44	N/A	
B-9	05/29/2001	1042	0.00	5.04	N/A	
BR-1	05/29/2001	1300	0.00	7.99	N/A	
BR-102	05/29/2001	1141	0.00	22.51	N/A	
BR-103	05/29/2001	1401	0.00	4.85	N/A	
BR-104	05/29/2001	1410	0.00	8.06	N/A	
BR-105	05/29/2001	1408	0.00	22.69	N/A	
BR-105D	05/29/2001	1410	0.00	25.16	N/A	
BR-106	05/29/2001	1358	0.00	23.47	N/A	
BR-107	05/29/2001	1359	0.00	N/A	N/A	DESTROYED
BR-108	05/29/2001	1350	0.00	28.47	N/A	
BR-111	05/29/2001	1438	0.00	28.59	N/A	
BR-111D	05/29/2001	1441	0.00	28.90	N/A	
BR-112A	05/29/2001	1430	0.00	27.89	N/A	
BR-112D	05/29/2001	1423	0.00	36.20	N/A	
BR-113	05/29/2001	1450	0.00	31.25	N/A	
BR-113D	05/29/2001	1452	0.00	31.17	N/A	
BR-114	05/29/2001	1405	0.00	13.71	N/A	
BR-116	05/29/2001	1348	0.00	27.86	N/A	
BR-116D	05/29/2001	1345	0.00	35.67	N/A	
BR-117	05/29/2001	1320	0.00	36.24	N/A	

Date: 06/1( )01
Time: 14:45:57

Groundwater ( )ation Report
HARDING LAWSON ASSOC.
JUNE 2001
ARCH-ROCHESTER WATER LEVEL MEASUREMENTS

Sample Point	Date	Time	Casing Elevation	Depth to Water	GW Elv.	Comments
BR-117D	05/29/2001	1323	0.00	49.53	N/A	
BR-118	05/29/2001	1312	0.00	37.36	N/A	
BR-118D	05/29/2001	1310	0.00	48.61	N/A	
BR-119D	05/29/2001	1330	0.00	65.74	N/A	
BR-120D	05/29/2001	1305	0.00	58.38	N/A	
BR-121D	05/29/2001	1300	0.00	56.34	N/A	
BR-122D	05/29/2001	1345	0.00	44.23	N/A	
BR-123D	05/29/2001	1340	0.00	45.19	N/A	
BR-124D	05/29/2001	1335	0.00	30.63	N/A	
BR-2	05/29/2001	1007	0.00	N/A	N/A	DRY
BR-2A	05/29/2001	1000	0.00	9.20	N/A	
BR-2D	05/29/2001	1008	0.00	0.05	N/A	
BR-3	05/29/2001	1035	0.00	10.79	N/A	
BR-3D	05/29/2001	1034	0.00	70.95	N/A	
BR-4	05/29/2001	1025	0.00	6.60	N/A	
BR-5	05/29/2001	944	0.00	9.70	N/A	
BR-5A	05/29/2001	945	0.00	23.85	N/A	
BR-6	05/29/2001	1045	0.00	12.50	N/A	
BR-6A	05/29/2001	1044	0.00	45.26	N/A	
BR-7	05/29/2001	1111	0.00	33.50	N/A	
BR-7A	05/29/2001	1115	0.00	19.22	N/A	
BR-8	05/29/2001	1129	0.00	9.41	N/A	
BR-9	05/29/2001	1144	0.00	N/A	N/A	TOP OF PUMP
C-1	05/29/2001	1128	0.00	N/A	N/A	BROKEN/BURIED
C-2A	05/29/2001	1001	0.00	7.49	N/A	
C-3	05/29/2001	955	0.00	10.62	N/A	BROKE AT GROUND SURFACE
C-4	05/29/2001	1129	0.00	N/A	N/A	BUILDING IN THIS AREA/WELL NO LONGER EXISTS
C-5	05/29/2001	1036	0.00	10.62	N/A	
E-1	05/29/2001	1028	0.00	N/A	N/A	FLOODED
E-2	05/29/2001	1026	0.00	5.56	N/A	
E-3	05/29/2001	942	0.00	11.56	N/A	
E-4	05/29/2001	940	0.00	N/A	N/A	DRY
E-5	05/29/2001	938	0.00	6.55	N/A	
EC-1	05/29/2001	1500	0.00	18.26	N/A	

Date: 06/11 01
Time: 14:45:57

Groundwater (/ation Report
HARDING LAWSON ASSOC.
JUNE 2001
ARCH-ROCHESTER WATER LEVEL MEASUREMENTS

Sample Point	Date	Time	Casing Elevation	Depth to Water	GW Elv.	Comments
EC-2	05/29/2001	1453	0.00	N/A	N/A	DRY
ERIE CANAL	05/29/2001	1510	0.00	32.94	N/A	
MW-103	05/29/2001	1400	0.00	1.67	N/A	
MW-104	05/29/2001	1409	0.00	7.49	N/A	
MW-105	05/29/2001	1407	0.00	18.99	N/A	
MW-106	05/29/2001	1359	0.00	9.97	N/A	
MW-107	05/29/2001	1350	0.00	N/A	N/A	DESTROYED
MW-108	05/29/2001	1349	0.00	13.19	N/A	
MW-114	05/29/2001	1406	0.00	11.98	N/A	
MW-2	05/29/2001	1425	0.00	4.90	N/A	
MW-3	05/29/2001	1310	0.00	5.91	N/A	
MW-G6	05/29/2001	1430	0.00	4.29	N/A	
MW-G7	05/29/2001	1435	0.00	2.72	N/A	
MW-G8	05/29/2001	1440	0.00	6.99	N/A	
MW-G9	05/29/2001	1445	0.00	10.99	N/A	
N-1	05/29/2001	1301	0.00	N/A	N/A	DAMAGED CASING/BAILER STUCK IN WELL
N-2	05/29/2001	935	0.00	4.61	N/A	
N-3	05/29/2001	934	0.00	7.09	N/A	
NESS-E	05/29/2001	1413	0.00	39.57	N/A	
NESS-W	05/29/2001	1415	0.00	31.36	N/A	
PW-10	05/29/2001	1014	0.00	13.20	N/A	
PW-11	05/29/2001	1130	0.00	40.38	N/A	
PW-12(BR-101)	05/29/2001	956	0.00	14.91	N/A	
PZ-101	05/29/2001	1316	0.00	11.63	N/A	
PZ-102	05/29/2001	1320	0.00	11.47	N/A	
PZ-103	05/29/2001	1403	0.00	9.59	N/A	
PZ-104	05/29/2001	1228	0.00	13.64	N/A	
PZ-105	05/29/2001	1043	0.00	11.92	N/A	
PZ-106	05/29/2001	1032	0.00	11.00	N/A	
PZ-107	05/29/2001	1031	0.00	7.89	N/A	
PZ-108	05/29/2001	1030	0.00	N/A	N/A	DESTROYED
S-1	05/29/2001	1050	0.00	7.85	N/A	
S-2	05/29/2001	1043	0.00	N/A	N/A	FLOODED
S-3	05/29/2001	1041	0.00	N/A	N/A	FLOODED

Date: 06/11 01
Time: 14:45:57

Groundwater [illegible]ation Report
HARDING LAWSON ASSOC.
JUNE 2001
ARCH-ROCHESTER WATER LEVEL MEASUREMENTS

Sample Point	Date	Time	Casing Elevation	Depth to Water	GW Elv.	Comments
S-4	05/29/2001	1029	0.00	N/A	N/A	FLOODED
W-1	05/29/2001	1154	0.00	N/A	N/A	UNABLE TO OBTAIN MEASUREMENT/OBSTRUCTION
W-2	05/29/2001	1147	0.00	8.85	N/A	
W-3	05/29/2001	1146	0.00	8.54	N/A	
W-4	05/29/2001	1133	0.00	N/A	N/A	FLOODED
W-5	05/29/2001	1117	0.00	N/A	N/A	UNABLE TO OBTAIN MEASUREMENT/OBSTRUCTION
W-6	05/29/2001	1104	0.00	11.71	N/A	

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** B-17

Field Personnel: R. Scott / P. Little Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 06/04/01 / 1142 Cond. of seal: (X) Good ( ) Cracked ___ %
( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked (X) Good
( ) Loose (X) Flush Mount
If prot. casing; depth to riser below: — ( ) Damaged ___

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 06/04/01 / 1150 Date/Time Completed: 06/04/01 / 1210

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 2.0

Initial Water Level, Feet: 8.98 Elevation, G/W MSL: ___

Well Total Depth, Feet: 16.23 Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: 1.18 Dedicated: (Y) / N

Total Volume Purged, Gal: 2.0 Purged To Dryness: Y / (N)

Purge Observations: Start DARK AMBER clear Finish DARK AMBER clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1155	200 9.01		13.8	10.28	12,260	5.95	0	-102
1200			13.6	10.31	12,230	4.86	0	-99
1205			13.8	10.25	12,050	3.49	0	-103
1210	9.01	2.0	13.8	10.15	12,020	3.64	0	-104

SAMPLED AT 1210 ON 06-04-01 JP Little

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** B-7

Field Personnel: R. Scott / P. Little Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 5/30/01 / 1125 Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged_____

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 5/30/01 / 1140 Date/Time Completed: 5/30/01 / 1200

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 2.0

Initial Water Level, Feet: 14.75 Elevation, G/W MSL: _____

Well Total Depth, Feet: 20.90 Method of Well Purge: PERISTALTIC PUMP

One (1) Riser Volume, Gal: 1.00 Dedicated: (Y) / N

Total Volume Purged, Gal: 1.00 Purged To Dryness: Y / (N)

Purge Observations: Start TURBID Finish SL TURBID

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1145	100 11.10		12.9	6.50	1219	79.1	0	-44
1150			13.1	6.79	1299	76.4	0	-95
1155			13.2	6.95	1279	75.0	0	-86
1200	17.40	1.0	13.1	6.90	1301	69.1	0	-96

SAMPLED AT 1200 ON 5-30-01

P. Little

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** B-9

Field Personnel: R. Scott / P. Little Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 5/30/01 / 1240 Cond. of seal: ( ) Good ( ) Cracked __% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good ( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged Riser Broken At Ground Surface

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 5/30/01 / 1245 Date/Time Completed: 5/30/01 / 1305

Surf. Meas. Pt.: ( ) Prot. Casing ( ) Riser Riser Diameter, Inches: 1.5

Initial Water Level, Feet: 5.20 Elevation, G/W MSL: —

Well Total Depth, Feet: 11.70 Method of Well Purge: PARASTALTIC PUMP

One (1) Riser Volume, Gal: — Dedicated: (Y) / N

Total Volume Purged, Gal: 2.0 Purged To Dryness: Y / (N)

Purge Observations: Start SL. TURBID Finish SL TURBID

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1250	100 6.60		12.9	7.06	755	49.3	0	22.
1255	6.65		13.1	7.20	1376	180.1	0	-35
1300	6.70		12.9	7.28	1576	175.9	0	-67
1305	6.70	2.0	13.0	7.24	1551	84.6	0	-63

SAMPLED AT 1305 ON 5-30-01 J.P Little

FIELD OBSERVATIONS

Facility: ARCH Chemical Sample Point ID: PW-12 (101)

Field Personnel: Paul Little CJ Sample Matrix: GW
(GRAB / COMPOSITE)

SAMPLING INFORMATION:

Date/Time: 6-1-01 1152 Water Level @ Sampling, Feet: 10.10

Method of Sampling: Peristaltic Pump Dedicated: (Y) / N

Multi-phased/layered: ( )Yes (X)No ; If yes; ( )light ( )heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (Std. Units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/l)	Other ORP (mV)
1210	14.9	6.97	5946	13.39	0	-126

INSTRUMENT CHECK DATA:

Turbidity Serial #: 3794 50 NTU std. = 50 NTU ___ NTU std. = ___ NTU

pH Serial #: 601347 4.0 std. = ___ 7.0 std. = 7.0 10.0 std. = 10.0

Conductivity Serial #: 601347 147 umhos/cm = 147 ___ umhos/cm = ___

GENERAL INFORMATION:

Weather Conditions @ time of sampling: clouds 60°

Sample Characterisitics: SL Turbid

COMMENTS AND OBSERVATIONS:

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

Date: 6/1/01 By: [signature] Company: STC

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-102

Field Personnel: R. Scott / P. Little Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/04/01 / 1028 Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged_____

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/04/01 / 1035 Date/Time Completed: 6/04/01 / 1055

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 4.0

Initial Water Level, Feet: 22.61 Elevation, G/W MSL: _____

Well Total Depth, Feet: 51.40 Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: 18.79 Dedicated: (Y) / (N) PC

Total Volume Purged, Gal: 2.5 Purged To Dryness: Y (N)

Purge Observations: Start Clear Finish Clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1040	250 ml/m 22%		13.4	6.55	4388	2.34	0	-117
1045		1.0	13.3	6.72	4312	1.90	0	-130
1050		1.5	13.4	6.67	4300	0.68	0	-129
1055	22.9%	2.5	13.5	6.70	4287	0.57	0	-133

SAMPLED AT 1055 ON 6-04-01 Pat Little

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-103

Field Personnel: R. Scott / P. Little Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/01/01 / 1445 Cond. of seal: (X) Good ( ) Cracked ___ %
( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked (X) Good
( ) Loose (X) Flush Mount
( ) Damaged ___

If prot. casing; depth to riser below: —

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/01/01 / 1450 Date/Time Completed: 6/01/01 / 1515

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 5.06 Elevation, G/W MSL: ___

Well Total Depth, Feet: 43.45 Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 25.06 Dedicated: Y / (N)

Total Volume Purged, Gal: 2.5 Purged To Dryness: Y / (N)

Purge Observations: Start BLACK TINT Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (ml/min gpm/htz)	WL	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1455	250	5.12	0.5	13.5	7.15	1382	26.2	0.09	-85
1500	|	5.08	1.0	13.7	7.13	1387	19.13	0.09	-82
1505	|	—	1.5	13.8	7.14	1392	16.62	0.09	-83
1510	|	5.06	2.0	13.8	7.13	1394	15.92	0.09	-85
1515	V	—	2.5	13.9	7.14	1396	15.80	0.09	-86

SAMPLED AT 1515 / 6-01-01

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL Sample Point ID: BR-104

Field Personnel: R. Scott / Pettit Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/16/01 / 1047 Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) Flush Mount ( ) Damaged

If prot. casing; depth to riser below: —

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/16/01 / 1050 Date/Time Completed: 6/16/01 / 1110

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 8.20 Elevation, G/W MSL: _____

Well Total Depth, Feet: 19.12 Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: 7.13 Dedicated: (Y) / N

Total Volume Purged, Gal: 2.5 Purged To Dryness: Y / (N)

Purge Observations: Start clear Finish clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP mV
1055	300 8.45		13.2	8.33	197	14.20	0	23
1100			12.9	8.48	200	10.50	0	29
1105	8.45		12.4	8.49	202	10.37	0	21
1110		2.5	12.4	8.52	205	10.26	0	27

SAMPLED AT 1110 ON 6-16-01

PAGE 1 OF 2

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-105

Field Personnel: R. Scott / PLittle Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/08/01 / 1210 Cond. of seal: (X) Good ( ) Cracked __ %
( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good
( ) Loose (X) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged _____

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/08/01 / 1220 Date/Time Completed: 6/08/01 / 1250

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 23.30 Elevation, G/W MSL: _____

Well Total Depth, Feet: 44.60 Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 3.48 Dedicated: Y / (N)

Total Volume Purged, Gal: 2.0 Purged To Dryness: Y / (N)

Purge Observations: Start TURBID Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1230	180	0.7	13.2	6.87	1662	21.8	0.33	-138
1235		1.0	13.0	6.87	1660	20.2	0.35	-145
1240		1.5	12.9	6.88	1662	16.30	0.31	-147
1245		2.0	12.9	6.88	1659	15.18	0.30	-148

SAMPLED AT 1250/6-8-01

By

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-105D

Field Personnel: R. Scott / P. Little Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/08/01 / 1300 Cond. of seal: (X) Good ( ) Cracked __% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) Flush Mount ( ) Damaged

If prot. casing; depth to riser below: —

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/08/01 / 1310 Date/Time Completed: 6/08/01 / 1340

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 24.91 Elevation, G/W MSL:

Well Total Depth, Feet: 79.50 Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 8.91 Dedicated: Y / (N)

Total Volume Purged, Gal: 3.0 Purged To Dryness: Y / (N)

Purge Observations: Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz) (ml/m WL)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1320	200 / 26.07	1.0	14.1	7.38	5450	7.40	0.62	-331
1325	\ / 26.15	1.5	14.0	7.30	5517	7.22	0.49	-343
1330	\ / 26.15	2.0	14.0	7.27	5515	6.20	0.47	-348
1335	\ / —	2.5	13.9	7.25	5521	6.10	0.47	-352
1340	↓ / 26.13	3.0	13.9	7.24	5519	5.99	0.45	-353

SAMPLED AT 1340/6-08-01

RS

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-106

Field Personnel: R. Scott / P. Little Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/08/01 / 1010 Cond. of seal: (X) Good ( ) Cracked __% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) Flush Mount ( ) Damaged

If prot. casing; depth to riser below: —

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/08/01 / 1030 Date/Time Completed: 6/08/01 / 1100

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 22.80 Elevation, G/W MSL: _____

Well Total Depth, Feet: 43.22 Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 13.33 Dedicated: Y / (N)

Total Volume Purged, Gal: 3.0 Purged To Dryness: Y / (N)

Purge Observations: Start TURBID-GRAY Finish TURBID - GREY

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz) (ml/min)	WL	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1040	150	23.05	1.0	13.3	6.83	2137	290	0.42	-187
1045	↓	—	1.5	13.3	6.86	2136	300	0.32	-182
1050	↓	23.05	2.0	13.4	6.84	2138	305	0.35	-185
1055	↓	—	2.5	13.5	6.82	2134	317	0.36	-183
1100	↓	23.04	3.0	13.6	6.80	2127	310	0.32	-178

SAMPLED AT 1100 / 6-8-01

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-108

Field Personnel: R. Scott / PLITH Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 06/04/01 / 1415 Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged_____

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 06/04/01 / 1420 Date/Time Completed: 06/04/01 / 1429

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 4.0

Initial Water Level, Feet: 25.08 Elevation, G/W MSL: _____

Well Total Depth, Feet: 29.75 Method of Well Purge: S/S BAILER

One (1) Riser Volume, Gal: 3.05 Dedicated: (Y) / N

Total Volume Purged, Gal: 6.0 to DRY Purged To Dryness: (Y) / N

Purge Observations: Start TURBID Finish TURBID

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV

FIELD OBSERVATIONS

Facility: ARCH Chemical **Sample Point ID:** BR-111

Field Personnel: R. Scott / P. Little Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/05/01 / 1104 Cond. of seal: (X) Good ( ) Cracked __%
( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked (X) Good
( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged ____

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6-05-01 / 1110 Date/Time Completed: 6/05/01 / 1145

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 4.0

Initial Water Level, Feet: 28.64 Elevation, G/W MSL: ____

Well Total Depth, Feet: 47.75 Method of Well Purge: PVC BAILER

One (1) Riser Volume, Gal: 12.48 Dedicated: (Y) / N

Total Volume Purged, Gal: 38.0 Purged To Dryness: Y / (N)

Purge Observations: Start TURB. / ORANGE Finish TURBID / ORANGE

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (μmhos/cm)	Turb. (NTU)	Other ___ (___)

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-1110

Field Personnel: R. Scott / P. Lithia Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/05/01 / 1105 Cond. of seal: (X) Good ( ) Cracked ___ %
( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked (X) Good
( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged ___

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/05/01 / 1110 Date/Time Completed: 6/05/01 / 1150

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 2.0

Initial Water Level, Feet: 28.77 Elevation, G/W MSL: ___

Well Total Depth, Feet: 77.10 Method of Well Purge: S/S BAILER

One (1) Riser Volume, Gal: 7.89 Dedicated: (Y) / N

Total Volume Purged, Gal: 24.0 Purged To Dryness: Y / (N)

Purge Observations: Start TURBID / BLACK Finish TURBID / BLACK

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (μmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-112A

Field Personnel: R. Scott / P. Little Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/05/01 / 1021 Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged_____

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/5/01 / 1025 Date/Time Completed: 6/5/01 / 1050

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 4.0

Initial Water Level, Feet: 27.80 Elevation, G/W MSL: _____

Well Total Depth, Feet: 42.58 Method of Well Purge: S/S BAILER

One (1) Riser Volume, Gal: 9.65 Dedicated: (Y) / N

Total Volume Purged, Gal: 10 GAL TO DRY Purged To Dryness: (Y) / N

Purge Observations: Start CLR / ORANGE Finish TURBID / ORANGE

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-112D

Field Personnel: R. Scott / Plittle Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/05/01 / 1020 Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged_____

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/05/01 / 1030 Date/Time Completed: 6/05/01 / 1055

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 2.0

Initial Water Level, Feet: 36.18 Elevation, G/W MSL: _____

Well Total Depth, Feet: 72.26 Method of Well Purge: S/S BA

One (1) Riser Volume, Gal: 5.89 Dedicated: (Y) / N

Total Volume Purged, Gal: 18.0 Purged To Dryness: Y / (N)

Purge Observations: Start Clear Finish Turbid

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-113

Field Personnel: R. Seat / PLITH Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/07/01/1250 Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged_____

Gas Meter (Calibration/Reading): % Gas: ____/____ % LEL: —/—

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): —/—

PURGE INFORMATION:

Date / Time Initiated: 6/07/01/1255 Date/Time Completed: 6/07/01/1325

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 4.0

Initial Water Level, Feet: 31.13 Elevation, G/W MSL: _____

Well Total Depth, Feet: 47.70 Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 10.82 Dedicated: Y / (N)

Total Volume Purged, Gal: 3.0 Purged To Dryness: Y / (N)

Purge Observations: Start SL. TURBID Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate ~~(gpm/htz)~~ mL/min WC	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1305	200 31.30	1.0	12.31	7.20	2850	72.5	0.80	-289
1310	31.28	1.5	12.3	7.07	2842	25.6	0.78	-299
1315	—	2.0	12.2	7.05	2844	24.9	0.80	-301
1320	—	2.5	12.1	7.02	~~2833~~ 2833	25.5	0.81	-301
1325	31.30	3.0	12.0	7.01	2827	24.5	0.82	-301

SAMPLED AT 1325/6-7-01

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** SR-113D

Field Personnel: R. Scott / P. Little Sample Matrix: GW

X Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/07/01 / 1155 Cond. of seal: X Good ( ) Cracked __% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked X Good ( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/07/01 / 1210 Date/Time Completed: 6/07/01 / 1235

Surf. Meas. Pt.: ( ) Prot. Casing X Riser Riser Diameter,Inches: 2.0

Initial Water Level, Feet: 30.98 Elevation, G/W MSL: _____

Well Total Depth, Feet: 79.25 Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 7.88 Dedicated: Y / (N)

Total Volume Purged, Gal: 2.5 Purged To Dryness: Y / (N)

Purge Observations: Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	WL (ml/min)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1225	200	31.02	0.5	12.2	7.07	2154	1.70	0.56	-283
1230		31.05	1.0	11.9	7.06	2156	1.44	0.60	-289
1225		—	1.5	11.9	7.04	2156	1.38	0.59	-290
1230		—	2.0	11.8	7.02	2149	1.10	0.57	-291
1235		31.02	2.5	11.7	7.01	2145	1.20	0.56	-290

SAMPLED AT 1235/6-7-01

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-114

Field Personnel: R. Scott / P. Little Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/5/01 / 1210 Cond. of seal: (X) Good ( ) Cracked __% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged ____

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/5/01 / 1220 Date/Time Completed: 6/5/01 / 1245

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 14.00 Elevation, G/W MSL: ____

Well Total Depth, Feet: 36.93 Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: 14.97 Dedicated: (Y) / N

Total Volume Purged, Gal: 3.5 Purged To Dryness: Y / (N)

Purge Observations: Start SL TURBID Finish SL TURBID

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1225	300 14.10		15.6	6.95	1307	97.2	0	-66
1230			15.4	7.61	1350	89.6	0	-136
1235	14.13		15.4	7.75	1344	77.5	0	-149
1240			15.6	7.68	1236	71.9	0	-142
1245	14.10		15.6	7.65	1231	70.2	0	-140

SAMPLED AT 1245 ON 06-05-01 P.L.

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-116

Field Personnel: R. Scott / PLitts Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/01/01 / 1240 Cond. of seal: (X) Good ( ) Cracked __% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/01/01 / 1245 Date/Time Completed: 6/01/01 / 1315

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 4.0

Initial Water Level, Feet: 27.76 Elevation, G/W MSL: _____

Well Total Depth, Feet: 62.20 Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 22.48 Dedicated: Y (N)

Total Volume Purged, Gal: 2.5 Purged To Dryness: Y (N)

Purge Observations: Start SL. TURBID Finish CLEAR

PURGE DATA: (if applicable)

Time	ml/min Purge Rate (gpm/htz)	WL	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP mV
1255	180	27.77	0.5	18.3	6.78	1747	70.3	0.44	-89.7
1300	↓	—	1.0	18.4	6.75	1799	30.5	0.40	-87
1305		27.77	1.5	18.5	6.74	1805	22.9	0.40	-86
1310		—	2.0	18.4	6.74	1801	20.8	0.42	-90
1315	↓	27.77	2.5	18.4	6.74	1801	20.2	0.43	-91

SAMPLED AT 1315/6-01-01

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-116 D

Field Personnel: R. Scott / Plitt Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/01/01 / 1150 Cond. of seal: (X) Good ( ) Cracked __% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose (X) Flush Mount ( ) Damaged

If prot. casing; depth to riser below: —

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/01/01 / 1200 Date/Time Completed: 6/01/01 / 1230

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 4.0

Initial Water Level, Feet: 35.63 Elevation, G/W MSL:

Well Total Depth, Feet: 98.10 Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 40.78 Dedicated: Y (N)

Total Volume Purged, Gal: 2.5 Purged To Dryness: Y (N)

Purge Observations: Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	WL	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1210	200	35.60	0.5	16.7	10.45	2250	24.8	0.63	-126
1215	↓	—	1.0	16.2	10.67	2002	21.5	0.66	-128
1220		35.63	1.5	15.9	10.70	1913	20.0	0.70	-132
1225		—	2.0	15.9	10.69	1915	19.73	0.71	-133
1230	↓	35.63	2.5	15.8	10.69	1909	19.90	0.72	-135

SAMPLED AT 1230/6-01-01

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-117 D

Field Personnel: R. Scott / P. Little Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 5/31/01 / 1150 Cond. of seal: (X) Good ( ) Cracked ___ % ( ) None ( ) Buried

Prot. casing/riser height: 2.10 Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount ( ) Damaged ___

If prot. casing; depth to riser below: 0.30

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 5/31/01 / 1205 Date/Time Completed: 5/31/01 / 1235

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 49.63 Elevation, G/W MSL: ___

Well Total Depth, Feet: 82.24 Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 21.29 Dedicated: Y / (N)

Total Volume Purged, Gal: 2.5 Purged To Dryness: Y / (N)

Purge Observations: Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge ~~(gpm)~~ (ml/m)	Rate ~~(ft/z)~~ (WL)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1215	215	49.65	0.5	11.7	9.57	972	20.5	0.55	-279
1220	280	—	1.0	11.8	9.42	974	20.8	0.47	-269
1225	280	49.63	1.5	11.8	9.32	975	20.1	0.42	-265
1230	280	—	2.0	11.8	9.24	979	21.3	0.49	-263
1235	280	49.63	2.5	11.8	9.19	982	21.5	0.53	-261

SAMPLED AT 1235/5-31-01

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-118 D

Field Personnel: R. Scott / Plitt Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 5/31/01 / 1050 Cond. of seal: (X) Good ( ) Cracked ___ % ( ) None ( ) Buried

Prot. casing/riser height: 2.10 Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: 0.27 ( ) Damaged ___

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 5/31/01 / 1100 Date/Time Completed: 5/31/01 / 1130

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 48.55 Elevation, G/W MSL: ___

Well Total Depth, Feet: 87.27 Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 25.28 Dedicated: Y / (N)

Total Volume Purged, Gal: 2.5 Purged To Dryness: Y / (N)

Purge Observations: Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz) (ml/min)	WL	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1110	200	48.81	0.5	11.2	6.93	2153	17.80	0.92	-267
1115	"	—	1.0	10.9	6.90	2242	13.97	0.80	-289
1120	"	48.91	1.5	10.9	6.87	2229	12.96	0.77	-294
1125	"	—	2.0	10.9	6.85	2209	12.58	0.69	-297
1130	↓	48.92	2.5	10.9	6.84	2197	12.46	0.73	-295

SAMPLED AT 1130/5-31-01

BJ

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: BR-119D

Field Personnel: R. Scott / P. Lithia

Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 5/30/01 / 1420

Cond. of seal: (X) Good ( ) Cracked __% ( ) None ( ) Buried

Prot. casing/riser height: 2.97

Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount ( ) Damaged

If prot. casing; depth to riser below: 1.33

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 5/30/01 / 1430

Date/Time Completed: 5/30/01 / 1455

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser

Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 65.18

Elevation, G/W MSL:

Well Total Depth, Feet: 111.70

Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 30.37

Dedicated: Y (N)

Total Volume Purged, Gal: 2.5

Purged To Dryness: Y (N)

Purge Observations: Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge ~~(gpm~~ ml/min /htz)	WL Rate	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1435	250	65.60	0.5	11.5	7.30	3779	30.1	0	-187
1440	↓	65.90	1.0	11.4	7.37	3789	23.7	0	-185
1445	↓	65.98	1.5	11.3	7.38	3785	23.9	0	-188
1450	↓	—	2.0	11.3	7.39	3785	23.8	0	-191
1455	↓	66.43	2.5	11.2	7.38	3783	23.8	0	-194

SAMPLED AT 1455/5-30-01

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: BR-120 D

Field Personnel: R. Scott / Plittle

Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 5/30/01 / 1140

Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: 2.50

Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount ( ) Damaged_____

If prot. casing; depth to riser below: 0.23

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 5/30/01 / 1200

Date/Time Completed: 5/30/01 / 1230

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser

Riser Diameter,Inches: 4.0

Initial Water Level, Feet: 58.62

Elevation, G/W MSL: _____

Well Total Depth, Feet: 92.24

Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 21.95

Dedicated: Y (N)

Total Volume Purged, Gal: 3.5

Purged To Dryness: Y / (N)

Purge Observations: Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	ml/min Purge ~~(gpm/htz)~~	WL Rate	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1205	180	59.25	0.25	9.5	6.99	5298	20.3	0	-110
1210	200	—	1.0	9.5	6.95	5300	14.76	0	-90
1215	200	59.45	1.5	9.5	6.89	5296	14.52	0	-88
1220	200	—	2.0	9.4	6.87	5297	14.45	0	-85
1225	200	59.90	2.5	9.4	6.85	5301	13.90	0	-83
1230	200	60.02	3.5	9.4	6.83	5303	13.93	0	-81

SAMPLED AT 1230/5-30-01

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-121 D

Field Personnel: R. Scott / P. Little Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 5/30/01/1300 Cond. of seal: (X) Good ( ) Cracked __% ( ) None ( ) Buried

Prot. casing/riser height: 1.95 Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: 0.30 ( ) Damaged

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 5/30/01/1320 Date/Time Completed: 5/30/01/1350

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 56.49 Elevation, G/W MSL:

Well Total Depth, Feet: 94.02 Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 24.50 Dedicated: Y / (N)

Total Volume Purged, Gal: 3.5 Purged To Dryness: Y / (N)

Purge Observations: Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate ml/min ~~(gpm/mtz)~~	WL	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1325	210	56.90	0.25	10.9	7.20	708	30.3	0.12	-147
1330	210	—	0.5	11.0	7.22	699	27.5	0.15	-147
1335	240	57.05	1.0	11.0	7.22	692	18.00	0.17	-145
1340	240	—	1.5	11.0	7.20	683	13.62	0.13	-140
1345	240	57.28	2.5	11.1	7.16	678	12.96	0.14	-138
1350	240	57.33	3.5	11.1	7.14	672	12.83	0.12	-135

SAMPLED AT 1350 / 5-30-00

BS

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-122 P

Field Personnel: R. Scott / PLitHa Sample Matrix: GW

X Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 5/31/01 / 1340 Cond. of seal: X Good ( ) Cracked __% ( ) None ( ) Buried

Prot. casing/riser height: 2.70 Cond. of prot. casing/riser: ( ) Unlocked ( ) Good ( ) Loose ( ) Flush Mount X Damaged

If prot. casing; depth to riser below: ~~0.30~~ RS

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 5/31/01 / 1350 Date/Time Completed: 5/31/01 / 1420

Surf. Meas. Pt.: ( ) Prot. Casing X Riser Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 44.23 Elevation, G/W MSL: _____

Well Total Depth, Feet: 82.57 Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 25.03 Dedicated: Y / (N)

Total Volume Purged, Gal: 2.5 Purged To Dryness: Y / (N)

Purge Observations: Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate ~~(gpm/htz)~~ (ml/min)	WL (ft)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
~~1400~~ ~~1340~~	200	44.30	0.5	11.6	6.96	1960	14.90	0.43	-210
1405		—	1.0	11.7	6.93	1950	13.70	0.37	-228
1410			1.5	11.7	6.92	1942	13.30	0.29	-223
1415			2.0	11.8	6.90	1935	13.37	0.32	-223
1420			2.5	11.8	6.89	1933	13.42	0.30	-222

SAMPLED AT 1420 / 5-31-01

BJ

FIELD OBSERVATIONS

'acility: ARCH CHEMICAL **Sample Point ID:** BR-123D

Field Personnel: R. Scott / P. Little Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 5/31/01 / 1430 Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: 2.56 Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged_____

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 5/31/01 / 1435 Date/Time Completed: 5/31/01 / 1505

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 4.0

'nitial Water Level, Feet: 45.08 Elevation, G/W MSL: _____

Well Total Depth, Feet: 97.56 Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 34.26 Dedicated: Y / (N)

Total Volume Purged, Gal: 2.5 Purged To Dryness: Y / (N)

Purge Observations: Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge (gpm/htz)	WL Rate	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1445	190	45.17	0.5	12.0	8.71	1289	28.2	0.19	-174
1450	"	—	1.0	12.1	8.75	1280	24.0	0.15	-189
1455	"	45.21	1.5	12.2	8.73	1269	23.7	-0-	-182
1500	"	—	2.0	12.2	8.74	1280	23.5	-0-	-177
1505	↓	45.20	2.5	12.2	8.77	1284	23.5	-0-	-174

SAMPLED AT 1505/5-31-01

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-124D

Field Personnel: R. Scott / P. Little Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/01/01 / 1030 Cond. of seal: (X) Good ( ) Cracked __% ( ) None ( ) Buried

Prot. casing/riser height: 2.08 Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount ( ) Damaged

If prot. casing; depth to riser below: 0.77

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/01/01 / 1040 Date/Time Completed: 6/01/01 / 1110

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 30.95 Elevation, G/W MSL:

Well Total Depth, Feet: 117.43 Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 56.45 Dedicated: Y / (N)

Total Volume Purged, Gal: 2.5 Purged To Dryness: Y / (N)

Purge Observations: Start BLACK TINT Finish CLEAR

PURGE DATA: (if applicable)

Time	ml/min Purge ~~(gpm/htz)~~	WL Rate	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1050	180	30.97	0.5	11.4	6.69	43,497	12.80	0.26	-150
1055	↓	30.95	1.0	11.3	6.89	43,801	10.93	0.26	-173
1100	↓	30.99	1.5	11.3	6.87	43,778	9.20	0.25	-177
1105	↓	31.00	2.0	11.3	6.91	43,863	9.07	0.26	-181
1110	↓	31.00	2.5	11.3	6.93	43,810	9.05	0.25	-186

SAMPLED AT 1110 / 6-01-01

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-3

Field Personnel: R. Scott / P. Little Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6 / 1 / 01 / 1255 Cond. of seal: (X) Good ( ) Cracked __ %
( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked (X) Good
( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged _____

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6 / 1 / 01 / 1300 Date/Time Completed: 6 / 1 / 01 / 1320

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 4.0

Initial Water Level, Feet: 11.03 Elevation, G/W MSL: _____

Well Total Depth, Feet: 23.25 Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: 7.98 Dedicated: (Y) / N

Total Volume Purged, Gal: 2.0 Purged To Dryness: Y / (N)

Purge Observations: Start TURBID Finish clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1305		250 ml 11.90	13.4	6.52	18,970	127.0	0	-129
1310			13.6	6.64	19,800	47.9	0	-117
1315			13.2	6.61	20,000	18.18	0	-116
1320		2.0	13.5	6.64	20,004	9.91	0	-115

SAMPLED ~~SAMPLED~~ AT 1320 ON 6-1-01 40 Liter

FIELD OBSERVATIONS

Facility: ARCH Chemical Sample Point ID: BR-5A

Field Personnel: DL / CS Sample Matrix: Ground Water

(GRAB) ( )COMPOSITE

SAMPLING INFORMATION:

Date/Time: 6-1-01 1133 Water Level @ Sampling, Feet: 26.52

Method of Sampling: In Situ Pump Dedicated: (Y) N

Multi-phased/layered: ( )Yes (X)No ; If yes; ( )light ( )heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (Std. Units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO ( )	Other ORP (mV)
1135	12.4	6.85	1849	18.15	0	-28

INSTRUMENT CHECK DATA:

Turbidity Serial #: 3794 50 NTU std. = 50 NTU ___ NTU std. = ___ NTU

pH Serial #: 601347 4.0 std. = ___ 7.0 std. = 7.0 10.0 std. = 10.0

Conductivity Serial #: 601347 147 umhos/cm = 147 ___ umhos/cm = ___

GENERAL INFORMATION:

Weather Conditions @ time of sampling: 60° clouds

Sample Characterisitics: SL TURB.

COMMENTS AND OBSERVATIONS:

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

Date: 6/1/01 By: [signature] Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHemical Sample Point ID: BR-6A

Field Personnel: RL / CJ Sample Matrix: GW

( )GRAB ( )COMPOSITE

SAMPLING INFORMATION:

Date/Time: 6-1-01 / 1339 Water Level @ Sampling, Feet: 22.91

Method of Sampling: IN SITU PUMP Dedicated: (Y) / N

Multi-phased/layered: ( )Yes (X)No ; If yes; ( )light ( )heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (Std. Units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (0)	Other ORP (mv)
1345	13.4	9.32	4370	21.40	0	-188

INSTRUMENT CHECK DATA:

Turbidity Serial #: 3794 50 NTU std. = 50 NTU ___ NTU std. = ___ NTU

pH Serial #: 601347 4.0 std. = ___ 7.0 std. = 7.0 10.0 std. = 10.0

Conductivity Serial #: 601347 147 umhos/cm = 147 ___ umhos/cm = ___

GENERAL INFORMATION:

Weather Conditions @ time of sampling: RAIN 60°

Sample Characterisitics: AMBER

COMMENTS AND OBSERVATIONS:

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

Date: 6/1/01 By: RL Lite Company: STL

FIELD OBSERVATIONS

Facility: ARCH Sample Point ID: BR-7A

Field Personnel: P.L.Hl /CS Sample Matrix: GW

(GRAB) COMPOSITE

SAMPLING INFORMATION:

Date/Time: 6-1-01 / 1413 Water Level @ Sampling, Feet: 34.62

Method of Sampling: In Situ Pump Dedicated: (Y) / N

Multi-phased/layered: ( )Yes (X)No ; If yes; ( )light ( )heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (Std. Units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO ( )	Other ORP (mv)
1415	13.5	7.28	2674	26.10	0	-179

INSTRUMENT CHECK DATA:

Turbidity Serial #: 3754 50 NTU std. = 50 NTU ___ NTU std. = ___ NTU

pH Serial #: 601347 4.0 std. = ___ 7.0 std. = 7.0 10.0 std. = 10.0

Conductivity Serial #: 601347 147 umhos/cm = 147 ___ umhos/cm = ___

GENERAL INFORMATION:

Weather Conditions @ time of sampling: RAIN 60°

Sample Characterisitics: SL TURBID

COMMENTS AND OBSERVATIONS: ___

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

Date: 6/1/01 By: P.L. Hall Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** BR-B

Field Personnel: R. Scott / P. Little Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 5/31/01 / 1115 Cond. of seal: (X) Good ( ) Cracked __ %
( ) None ( ) Buried

Prot. casing/riser height: 1.96 Cond. of prot. casing/riser: ( ) Unlocked (X) Good
( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: 0.50 ( ) Damaged _____

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 5/31/01 / 1140 Date/Time Completed: 5/31/01 / 1200

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 4.0

Initial Water Level, Feet: 9.50 Elevation, G/W MSL: _____

Well Total Depth, Feet: 31.74 Method of Well Purge: PLASTIC PUMP

One (1) Riser Volume, Gal: 14.52 Dedicated: Y / (N)

Total Volume Purged, Gal: ~ 3.0 Purged To Dryness: Y / (N)

Purge Observations: Start SL Turbid Finish SC Turb.0

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1145	425 mL/m	WL 9.82	14.2	8.03	4068	17.11	0	-207
1150		1	14.4	8.03	4080	16.04	0	-207
1155		2	14.7	8.04	4078	13.68	0	-208
1200	9.82	3	14.5	8.03	4068	12.11	0	-210

SAMPLED AT 1200 ON 5-31-01

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL Sample Point ID: BR-9

Field Personnel: BL / CT Sample Matrix: GW
(GRAB / COMPOSITE)

SAMPLING INFORMATION:

Date/Time: 6-1-01 / 1100 Water Level @ Sampling, Feet: 25.11

Method of Sampling: Small Pump Dedicated: (Y) / N

Multi-phased/layered: ( )Yes (X)No ; If yes; ( )light ( )heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (Std. Units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other ORP (mV)	Other DO ( )
1105	15.4	6.63	2832	159.2	-11	0

INSTRUMENT CHECK DATA:

Turbidity Serial #: 3794 5.0 NTU std. = 5.0 NTU ___ NTU std. = ___ NTU

pH Serial #: 601347 4.0 std. = ___ 7.0 std. = 7.0 10.0 std. = 10.0

Conductivity Serial #: 601347 147 umhos/cm = 147 ___ umhos/cm = ___

GENERAL INFORMATION:

Weather Conditions @ time of sampling: Cloudy 60°

Sample Characterisitics: TAN

COMMENTS AND OBSERVATIONS: ___

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

Date: 6/1/01 By: BL Lm Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** E-1

Field Personnel: R. Scott / Plitt Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 5/31/01 / 1250 Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) Flush Mount ( ) Damaged

If prot. casing; depth to riser below: —

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 5/31/01 / 1255 Date/Time Completed: 5/31/01 / 1315

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 2.0

Initial Water Level, Feet: 1.51 Elevation, G/W MSL: —

Well Total Depth, Feet: 9.75 Method of Well Purge: PERISTALTIC PUMP

One (1) Riser Volume, Gal: 1.35 Dedicated: (Y) / N

Total Volume Purged, Gal: 2.0 Purged To Dryness: Y / (N)

Purge Observations: Start SL. TURBID BLACK Finish CLEAR BLACK TINT

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1300			14.5	7.95	3962	9.99	0	-265
1305			15.1	7.97	3341	9.48	0	-241
1310			15.5	7.94	3360	8.53	0	-232
1315		2.0	15.7	8.01	3381	7.76	0	-231

SAMPLED AT 1315 ON 5-31-01 RL Plitt

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** E-3

Field Personnel: R. Scott / Plittle Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/1/01 / 1125 Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount ( ) Damaged

If prot. casing; depth to riser below: —

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/1/01 / 1130 Date/Time Completed: 6/1/01 / 1131

Surf. Meas. Pt.: ( ) Prot. Casing ( ) Riser Riser Diameter,Inches: 2.0

Initial Water Level, Feet: 11.55 Elevation, G/W MSL: _____

Well Total Depth, Feet: 12.05 Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: .08 Dedicated: (Y) / N

Total Volume Purged, Gal: ≈.5 Purged To Dryness: (Y) / N

Purge Observations: Start TURBID Finish TURBID

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1130			17.1	7.15	1924	68.5	0	92

W.L 11.60

SAMPLED VOC ON 6-04-01 AT 1130 R.P. Little

PYRIDINE SAMPLE IS A COMPOSITE OF MON — FRI COMPLETED SAMPLE AT 1330 ON 6-8-01 R.P. Little

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** MW-103

Field Personnel: R. Scott / P. Little Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/01/01 / 1355 Cond. of seal: (X) Good ( ) Cracked __% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) Flush Mount ( ) Damaged

If prot. casing; depth to riser below: —

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/01/01 / 1405 Date/Time Completed: 6/01/01 / 1430

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 1.90 Elevation, G/W MSL:

Well Total Depth, Feet: 8.05 Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 1.00 Dedicated: Y / (N)

Total Volume Purged, Gal: 2.0 Purged To Dryness: Y / (N)

Purge Observations: Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (ml/min) (gpm/htz)	WL	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1415	160	2.32	0.5	16.9	7.26	509	9.90	0.10	29
1420	↓	2.39	1.0	17.0	7.25	504	7.18	0.09	11
1425	↓	2.43	1.5	17.0	7.25	504	4.38	0.09	7
1430	↓	2.43	2.0	16.9	7.25	507	4.47	0.03	6

SAMPLED AT 1430 / 6-01-01

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL Sample Point ID: MW-104

Field Personnel: R. Scott / P. Little Sample Matrix: GW
( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/06/01 / 0952 Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) Flush Mount ( ) Damaged

If prot. casing; depth to riser below: —

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/06/01 / 1010 Date/Time Completed: 6/6/01 / 1030

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 7.60 Elevation, G/W MSL:

Well Total Depth, Feet: 18.10 Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: 1.68 Dedicated: (Y) / N

Total Volume Purged, Gal: 1.5 Purged To Dryness: Y / (N)

Purge Observations: Start TURBID Finish TURBID

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1015	200 8.85		12.8	6.81	862	190.3	0	44
1020	8.88		13.4	6.88	918	188.6	0	10
1025			13.2	6.80	972	188.8	0	18
1030	8.90	1.5	13.2	6.75	985	188.7	0	17

SAMPLED AT 1030 ON 6-6-01 PL Little

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** MW-106

Field Personnel: R. Scott / P. Little Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/08/01 / 1115 Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) Flush Mount ( ) Damaged_____

If prot. casing; depth to riser below: —

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/08/01 / 1120 Date/Time Completed: 6/08/01 /

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 2.0

Initial Water Level, Feet: 10.18 Elevation, G/W MSL:

Well Total Depth, Feet: 19.35 Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 1.50 Dedicated: Y / (N)

Total Volume Purged, Gal: 3.0 Purged To Dryness: Y / (N)

Purge Observations: Start TURBID - ORANGE Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz) (ml/min)	WL	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1130	150	20.02	1.0	13.0	6.92	1812	45.5	0.39	-162
1135	|	20.08	1.5	13.1	6.93	1898	28.2	0.45	-189
1140	|	—	2.0	13.1	6.96	2095	27.0	0.43	-194
1145	|	—	2.5	13.2	7.00	2103	26.7	0.47	-200
1150	↓	20.10	3.0	13.2	7.02	2110	26.8	0.48	-203

SAMPLED AT 1150 / 6-8-01

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** MW-108

Field Personnel: R. Scott / P. Little Sample Matrix: GW
( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 06/04/01 / 1400 Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged_____

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 06/04/01 / 1405 Date/Time Completed: 06/04/01 / 1408

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 2.0

Initial Water Level, Feet: 13.80 Elevation, G/W MSL: _____

Well Total Depth, Feet: 20.20 Method of Well Purge: S/S BAILER

One (1) Riser Volume, Gal: 1.04 Dedicated: (Y) / N

Total Volume Purged, Gal: 1.5 TO DRY Purged To Dryness: (Y) / N

Purge Observations: Start TURBID Finish TURBID

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** MW-114

Field Personnel: R. Scott / P. Little Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/5/01 / 1245 Cond. of seal: (X) Good ( ) Cracked __% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged ____

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/5/01 / 1255 Date/Time Completed: 6/5/01 / 1310

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 2.0

Initial Water Level, Feet: 12.21 Elevation, G/W MSL: ____

Well Total Depth, Feet: 15.76 Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: .58 Dedicated: (Y) / N

Total Volume Purged, Gal: 1.0 Purged To Dryness: Y / (N)

Purge Observations: Start Clear Finish Clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1300	15c 12.95		15.4	6.87	2067	11.58	0	95
1305	13.15		15.9	6.99	2088	9.10	0	84
1310	13.21	1.0	15.6	7.00	2080	8.21	0	93

Sampled At 1310 on 6-5-01 JJ Little

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** NESS-E

Field Personnel: R. Scott / P. Little Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/07/01 / 1050 Cond. of seal: (X) Good ( ) Cracked ___ %
( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good
( ) Loose (X) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged ___

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/07/01 / 1100 Date/Time Completed: 6/07/01 / 1130

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 39.53 Elevation, G/W MSL: ___

Well Total Depth, Feet: 74.52 Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 22.84 Dedicated: Y / (N)

Total Volume Purged, Gal: 3.0 Purged To Dryness: Y / (N)

Purge Observations: Start SL. TURBID Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (~~gpm/htz~~) mL/min WL	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1110	195 / 40.01	1.0	13.0	7.29	1528	41.5	0.09	-49
1115	" / 40.03	1.5	13.0	7.29	1532	35.2	0.11	-50
1120	" / —	2.0	12.9	7.30	1531	34.0	0.13	-51
1125	" / —	2.5	12.9	7.33	1532	33.7	0.12	-55
1130	↓ / 40.00	3.0	12.9	7.33	1530	33.2	0.12	-56

SAMPLED AT 1139 6-7-01

BS

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** NESS - W

Field Personnel: R. Seat / P. Little Sample Matrix: GW

(X) Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/07/01 / 0945 Cond. of seal: (X) Good ( ) Cracked __% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/07/01/1000 Date/Time Completed: 6/07/01 / 1030

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 31.41 Elevation, G/W MSL:

Well Total Depth, Feet: 77.23 Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: 29.91 Dedicated: Y / (N)

Total Volume Purged, Gal: 3.0 Purged To Dryness: Y / (N)

Purge Observations: Start BLACK TINT Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	WL	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1010	210	31.45	1.0	13.1	7.00	2884	15.35	0.53	-172
1015	↓	—	1.5	13.2	7.13	2996	13.40	0.49	-178
1020	↓	—	2.0	13.2	7.13	3001	11.50	0.47	-175
1025	↓	—	2.5	13.2	7.13	3006	10.00	0.47	-169
1030	↓	31.69	3.0	13.3	7.13	3013	9.72	0.46	-165

SAMPLED AT 1030/6-7-01

BJS

FIELD OBSERVATIONS

Facility: ARCH Chemical Sample Point ID: PW-10

Field Personnel: P. Little / C Jones Sample Matrix: GW

( )GRAB ( )COMPOSITE

SAMPLING INFORMATION:

Date/Time: 6-1-01 / 1405 Water Level @ Sampling, Feet: 17.44

Method of Sampling: IN SITU PUMP Dedicated: (Y) / N

Multi-phased/layered: ( )Yes (X)No ; If yes; ( )light ( )heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (Std. Units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (___)	Other ORP (MV)
1410 PL	15.4	8.88	7760	82.9	0	-190
1440						

INSTRUMENT CHECK DATA:

Turbidity Serial #: 3794 5.0 NTU std. = 5.0 NTU ___ NTU std. = ___ NTU

pH Serial #: 601347 4.0 std. = ___ 7.0 std. = 7.0 10.0 std. = 10.0

Conductivity Serial #: 601347 147 umhos/cm = 147 ___ umhos/cm = ___

GENERAL INFORMATION:

Weather Conditions @ time of sampling: RAIN 60°

Sample Characterisitics: TURBID AMBER

COMMENTS AND OBSERVATIONS: ___

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

Date: 6/1/01 By: [signature] Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL Sample Point ID: PW-11

Field Personnel: R. Scott / P. Little Sample Matrix: GW

(X)GRAB ( )COMPOSITE

SAMPLING INFORMATION:

Date/Time: 5-31-01 / 1040 Water Level @ Sampling, Feet: 28.00

Method of Sampling: Peristaltic Pump Dedicated: (Y) / N

Multi-phased/layered: ( )Yes (X)No ; If yes; ( )light ( )heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (Std. Units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other D.O (mg/L)	Other ORP (mv)
1050	15.2	6.81	2687	9.83	0	51

INSTRUMENT CHECK DATA:

Turbidity Serial #: 3794 5.0 NTU std. = 5.0 NTU ___ NTU std. = ___ NTU

pH Serial #: 601347 4.0 std. = ___ 7.0 std. = 7.0 10.0 std. = 10.0

Conductivity Serial #: 601347 147 umhos/cm = 147 ___ umhos/cm = ___

GENERAL INFORMATION:

Weather Conditions @ time of sampling: 65° F cloudy

Sample Characterisitics: clear

COMMENTS AND OBSERVATIONS:

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

Date: 5/31/01 By: [signature] Company: STL

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL Sample Point ID: PZ-101

Field Personnel: R. Scott / P. Little Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/07/01 / 945 Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged_____

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/07/01 / 955 Date/Time Completed: 6/07/01 / 1015

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 2.0

Initial Water Level, Feet: 13.62 Elevation, G/W MSL: _____

Well Total Depth, Feet: 21.69 Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: 1.32 Dedicated: (Y) / N

Total Volume Purged, Gal: 1.0 Purged To Dryness: Y / (N)

Purge Observations: Start Clear Finish Clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1000	200 14.03		15.1	6.73	3678	9.68	0	81
1005			15.4	6.79	2141	9.48	0	65
1010	14.20		15.4	6.67	1864	6.60	0	90
1015	14.20	1.0	15.4	6.75	1885	5.44	0	85

SAMPLED AT 1015 ON 06-07-01

P. Little

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL Sample Point ID: P2-102

Field Personnel: R. Scott / P. Little Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/07/01 / 1040 Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount ( ) Damaged_____

If prot. casing; depth to riser below: —

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/07/01 / 1045 Date/Time Completed: 6/07/01 / 1105

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 13.41 Elevation, G/W MSL: _____

Well Total Depth, Feet: 32.60 Method of Well Purge: Peristaltic pump

One (1) Riser Volume, Gal: 3.13 Dedicated: (Y) / N

Total Volume Purged, Gal: 2.0 Purged To Dryness: Y / (N)

Purge Observations: Start clear Finish clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1050	200 13.60		TR 17.1	7.15	3385	4.80	0	-106
1055			17.4	7.19	3430	2.46	0	-182
1100	13.60		17.4	7.16	3360	2.70	0	-233
1105		~2.0	17.5	7.17	3420	2.44	0	-240

SAMPLED AT 1105 ON 06-07-01 fd Little

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL Sample Point ID: PZ-103

Field Personnel: R. Scott / P. Little Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/07/01 / 1140 Cond. of seal: (X) Good ( ) Cracked ___ %
( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked (X) Good
( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged ___

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/07/01 / 1145 Date/Time Completed: 6/07/01 / 1205

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 11.91 Elevation, G/W MSL: ___

Well Total Depth, Feet: 32.52 Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: 3.36 Dedicated: (Y) / N

Total Volume Purged, Gal: 1.0 Purged To Dryness: Y / (N)

Purge Observations: Start Clear Finish Clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1150	200		16.1	7.18	3575	1.03	0	-278
1155	13.25		16.0	7.23	3909	1.05	0	-295
1200	13.40		16.5	7.24	3866	1.11	0	-292
1205	13.40	1.0	16.2	7.24	3845	1.20	0	-291

SAMPLED AT 1205 ON 6-7-01 PL Little

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** PZ-104

Field Personnel: R. Seat / P. Little Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 6/6/01 / 1145 Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged_____

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 6/6/01 / ~~1150~~ 1150 PL Date/Time Completed: 6/6/01 / 1210

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 2.0

Initial Water Level, Feet: 13.71 Elevation, G/W MSL: _____

Well Total Depth, Feet: 23.93 Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: 1.67 Dedicated: (Y) / N

Total Volume Purged, Gal: 1.5 Purged To Dryness: Y / (N)

Purge Observations: Start Clear Finish Clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1155	150 13.75		14.5	6.92	2077	14.95	0	-141
1200	13.75		14.2	6.98	2135	4.90	0	-181
1205			14.4	6.86	2143	2.43	0	-194
~~1210~~ PL	—	—	↓	↓	↓	—	—	~~-19~~
1210		≈ 1.5	14.1	6.96	2149	1.95	0	-191

SAMPLED AT 1210 ON 6-6-01 PL Little

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** PZ-105

Field Personnel: R. Scott / Plitt Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 06/04/01 / 1250 Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) Flush Mount ( ) Damaged_____

If prot. casing; depth to riser below: —

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 06/04/01 / 1255 Date/Time Completed: 06/04/01 / 1315

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 2.0

Initial Water Level, Feet: 11.92 Elevation, G/W MSL: _____

Well Total Depth, Feet: 32.86 Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: 3.42 Dedicated: (Y) / N

Total Volume Purged, Gal: ~~2.00~~ 1.5 L Purged To Dryness: Y / (N)

Purge Observations: Start TURB-0 Finish TURB-0

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1300	25 14.20		14.6	7.63	3380	44.1	0	-219
1305			14.6	7.44	3402	57.1	0	-215
1310	15.62		14.4	7.33	3517	64.1	0	-256
1315	16.10	~~2.0~~ 1.5	14.5	7.30	3536	69.3	0	-258

SAMPLED AT 1315 ON 06-04-01 JP Litt

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** 02-106

Field Personnel: R. Scott / Plitt Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 5/31/01 / 1335 Cond. of seal: ( ) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good ( ) Loose ( ) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged_____

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 5/31/01 / 1340 Date/Time Completed: 5/31/01 / 1400

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 2.0

Initial Water Level, Feet: 11.16 Elevation, G/W MSL: _____

Well Total Depth, Feet: 27.90 Method of Well Purge: PERISTALTIC PUMP

One (1) Riser Volume, Gal: 2.73 Dedicated: (Y) / N

Total Volume Purged, Gal: ~2.0 Purged To Dryness: Y / N

Purge Observations: Start SL SAT'D TURB./ AMBER Finish SL TURBID AMBER

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1345	75 13.10		14.9	5.63	16,350	81.1	0	52
1350	13.85		14.5	5.62	16,580	60.1	0	57
1355			14.8	5.71	15,980	71.0	0	51
1400	1430	~2.0	14.7	5.78	~~15~~ 15530	69.1	0	49

SAMPLED AT 1400 ON 5-31-01 PL

FLDLOGBF

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL Sample Point ID: PZ-107

Field Personnel: R. Scott / PLitha Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 5/31/01 / 1425 Cond. of seal: (X) Good ( ) Cracked__% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked (X) Good ( ) Loose ( ) Flush Mount ( ) Damaged_____

If prot. casing; depth to riser below: —

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 5/31/01 / 1430 Date/Time Completed: 5/31/01 / 1450

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 2.0

Initial Water Level, Feet: 7.98 Elevation, G/W MSL: _____

Well Total Depth, Feet: 27.90 Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: 3.26 Dedicated: (Y) / N

Total Volume Purged, Gal: 2.0 Purged To Dryness: Y / (N)

Purge Observations: Start clear Finish clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1435	200 8.25		12.8	7.27	2804	3.78	0	-98
1440			12.4	7.36	2879	1.52	0	-103
1445			12.7	7.33	2885	1.39	0	-106
1450	8.25	2.0	12.7	7.36	2867	1.25	0	-103

Sampled At 1450 on 5-31-01 JL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** S-3

Field Personnel: R. Scott / Plitt Sample Matrix: GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 5/30/01 / 1335 Cond. of seal: (X) Good ( ) Cracked__%
( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good
( ) Loose (X) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged_____

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 5/30/01 / 1340 Date/Time Completed: 5/30/01 / 1400

Surf. Meas. Pt.: ( ) Prot. Casing ( ) Riser Riser Diameter,Inches: 4.0

Initial Water Level, Feet: 2.00 Elevation, G/W MSL: _____

Well Total Depth, Feet: 13.38 Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: 7.43 Dedicated: (Y) / N

Total Volume Purged, Gal: 2.0 Purged To Dryness: Y / (N)

Purge Observations: Start clear Finish clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP MV
1345	200 2.00		15.1	8.02	3275	5.35	0	-172
1350			14.6	8.07	3368	3.62	0	-188
1355	2.00		14.5	8.08	3377	3.53	0	-192
1400			14.5	8.07	3374	3.49	0	-192

Sampled At 1400 on 5-30-01

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL **Sample Point ID:** S-4

Field Personnel: R. Scott / Pettitt **Sample Matrix:** GW

( )Grab ( ) Composite

MONITORING WELL INSPECTION:

Date/Time 5/30/01 / 1417 Cond. of seal: (X) Good ( ) Cracked __% ( ) None ( ) Buried

Prot. casing/riser height: — Cond. of prot. casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) Flush Mount

If prot. casing; depth to riser below: — ( ) Damaged ____

Gas Meter (Calibration/Reading): % Gas: — / — % LEL: — / —

Vol. Org Meter (Calibration/Reading): Volatiles(ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 5/30/01 / 1420 Date/Time Completed: 5/30/01 / 1440

Surf. Meas. Pt.: ( ) Prot. Casing (X) Riser Riser Diameter,Inches: 2.0

Initial Water Level, Feet: 0.75 Elevation, G/W MSL: ____

Well Total Depth, Feet: 13.05 Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: 2.01 Dedicated: (Y) / N

Total Volume Purged, Gal: 2.00 Purged To Dryness: Y / (N)

Purge Observations: Start SL Turbid Finish SL Turbid

PURGE DATA: (if applicable)

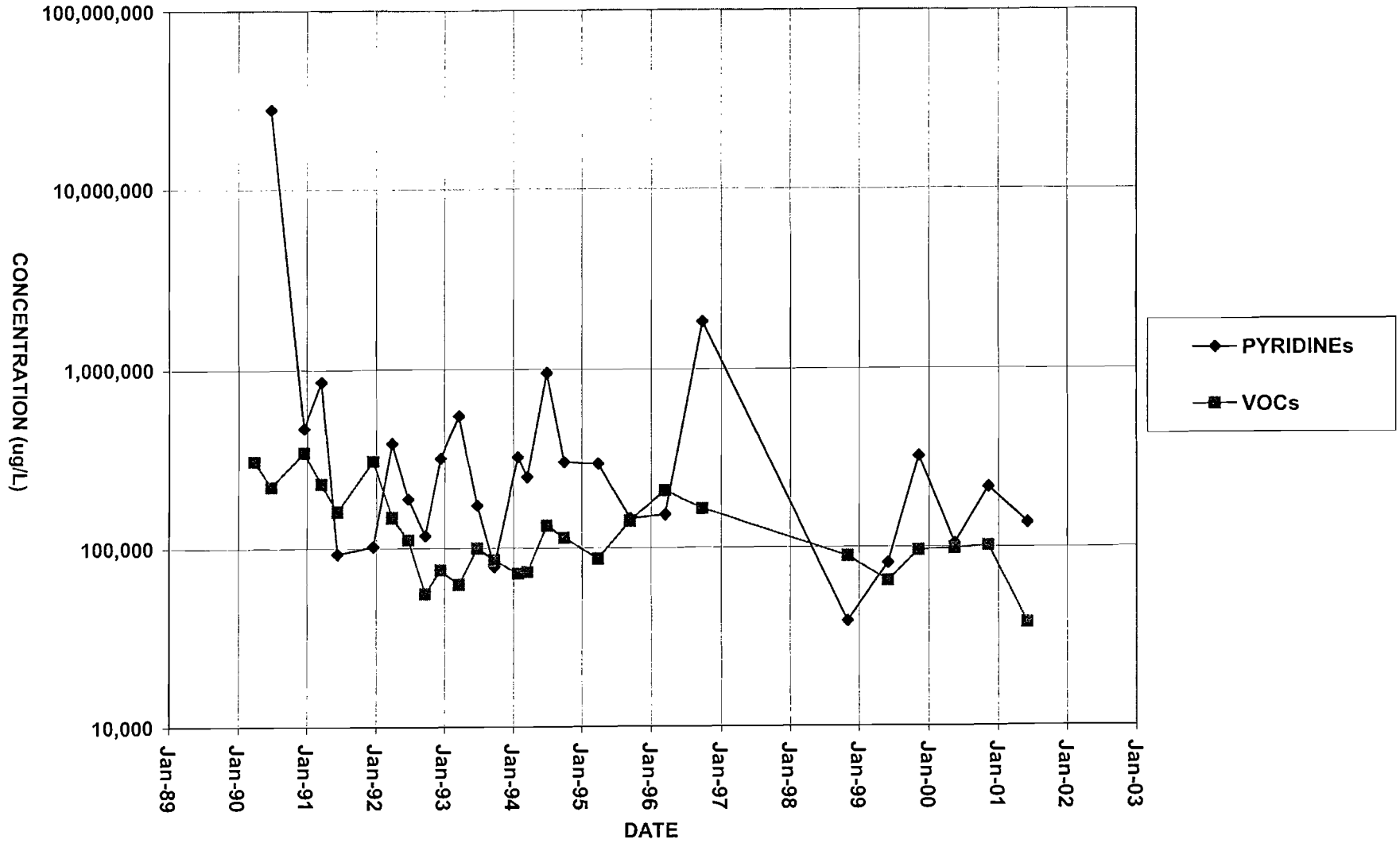
Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (°C)	pH (std units)	Conduct. (µmhos/cm)	Turb. (NTU)	Other DO (mg/L)	ORP mV
1425	250 0.75		14.3	8.03	1377	48.7	0	-94
1430			14.2	7.93	1317	13.02	0	-130
1435			14.1	7.91	1316	10.28	0	-115
1440	0.75	2.0	14.1	7.90	1316	9.39	0	-111

SAMPLED AT 1440 on 5-30-01 for Lotta

Appendix B

Well Trend Data

B-17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10,000
CONCENTRATION (ug/L)
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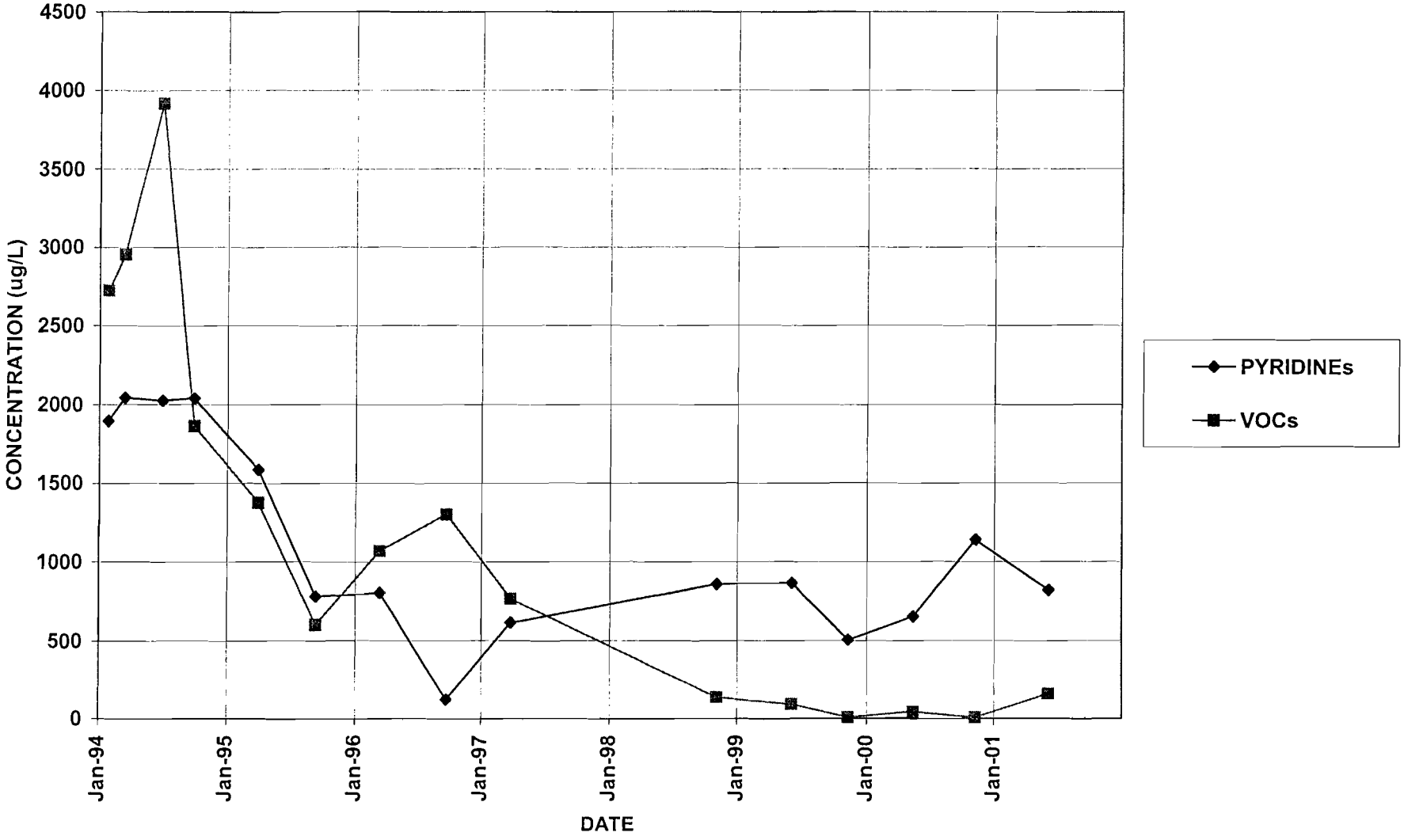
Jan-90
Jan-91
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
Jan-02
Jan-03
DATE
PYRIDINEs
VOCs

BR-102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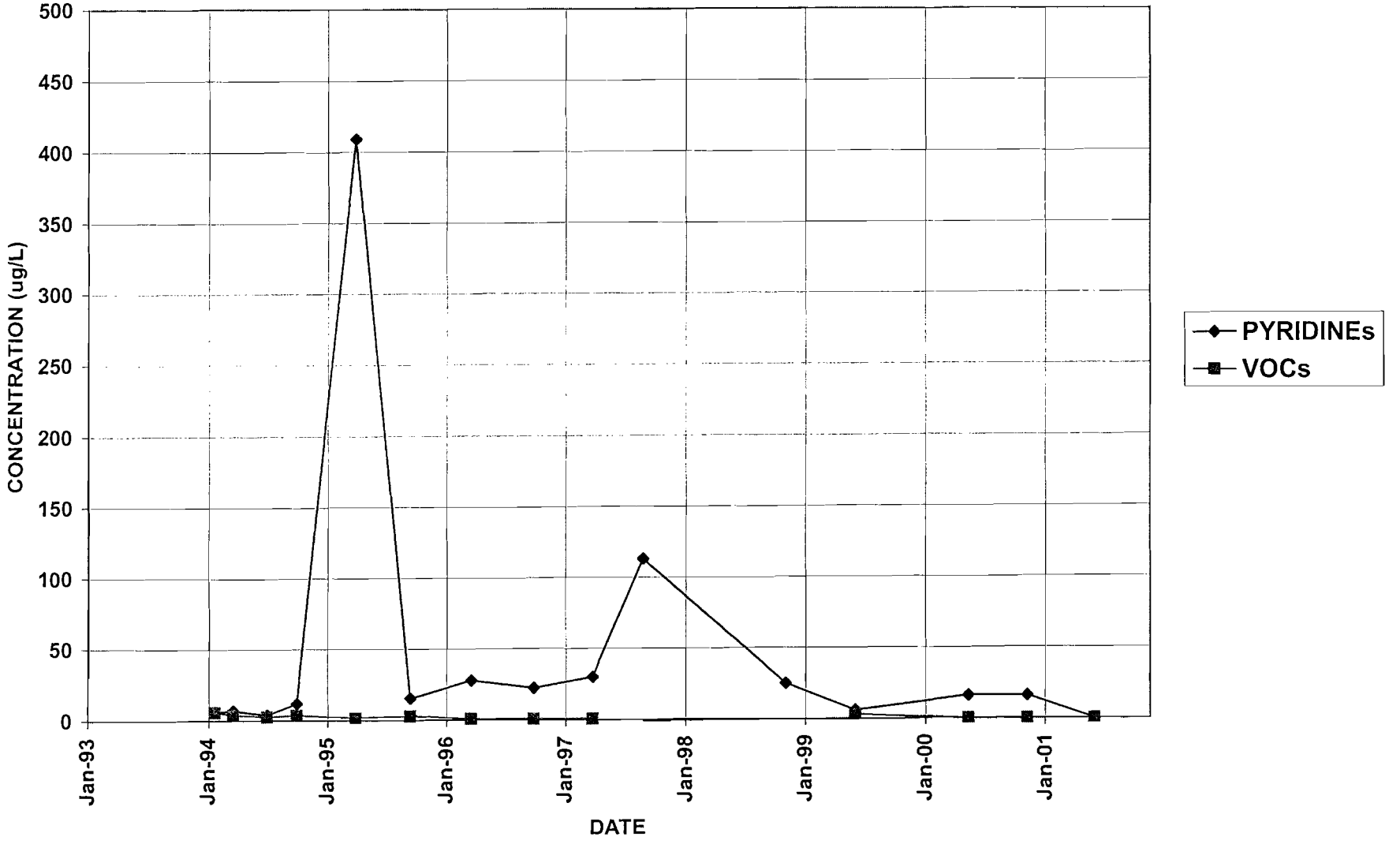
3500
3000
2500
2000
1500
1000
500
0
CONCENTRATION (ug/L)
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs

BR-103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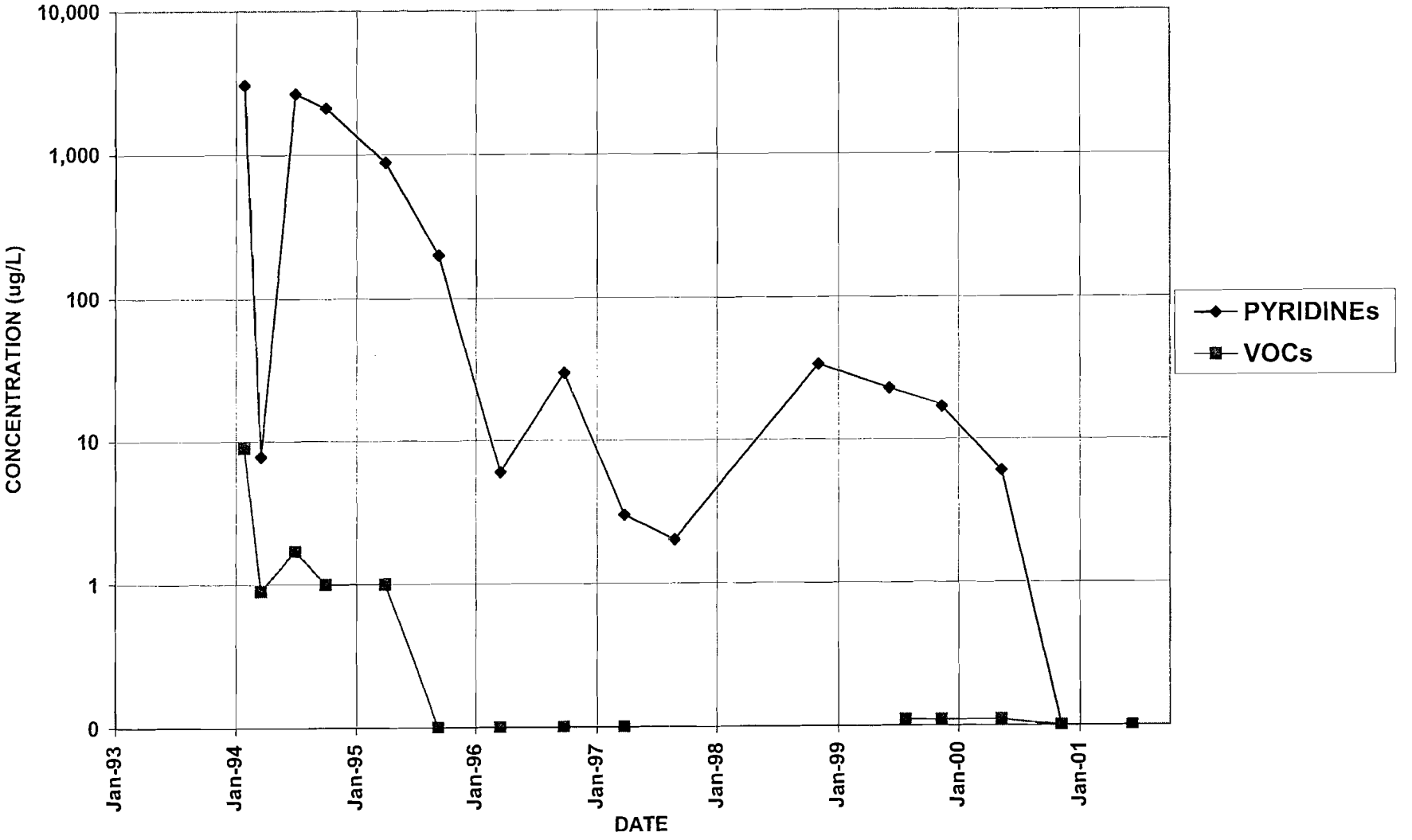
400
350
300
250
200
150
100
50
0
CONCENTRATION (ug/L)
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs

BR-104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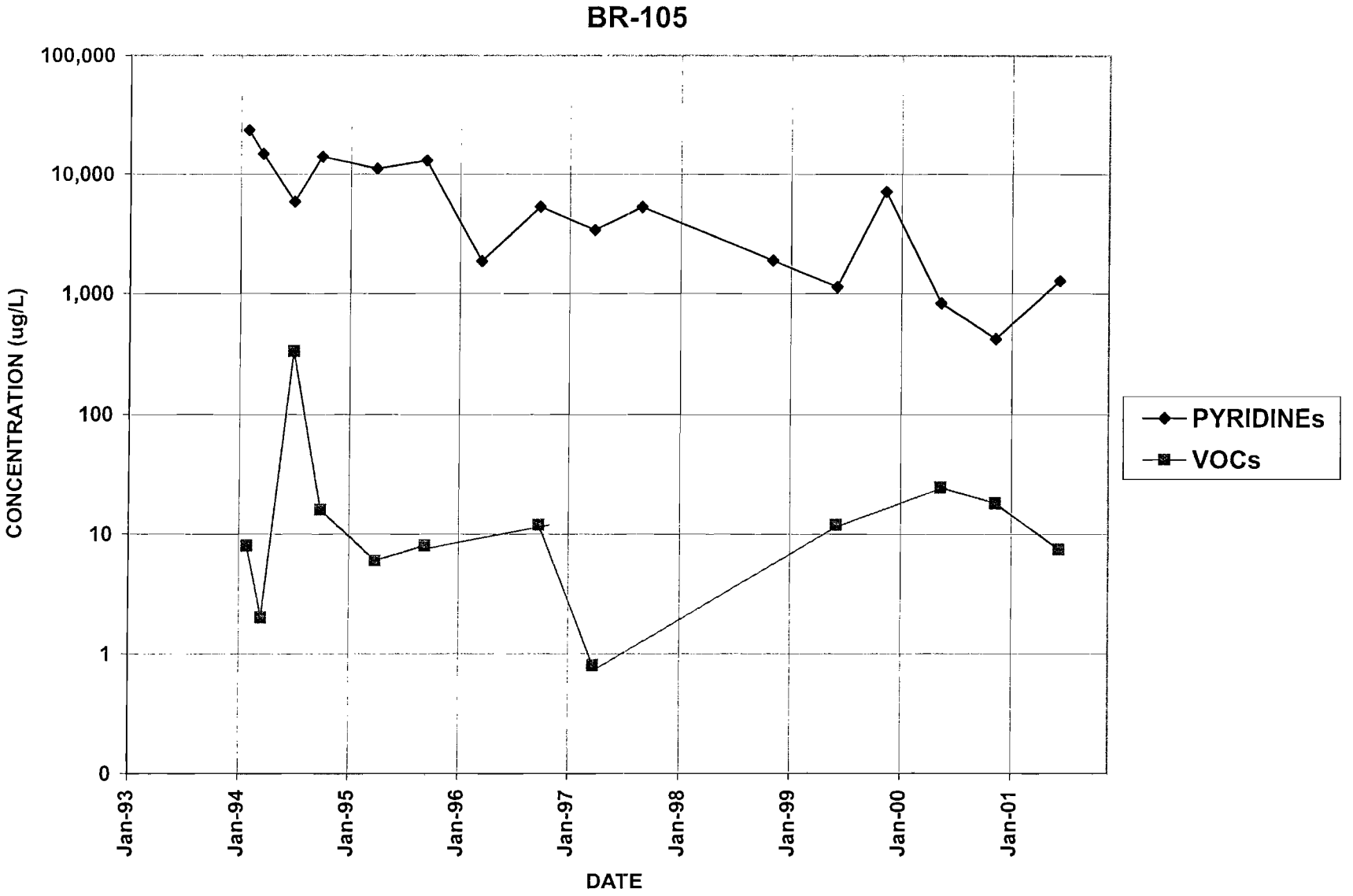
1,000
100
10
1
0
CONCENTRATION (ug/L)
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs


BR-105
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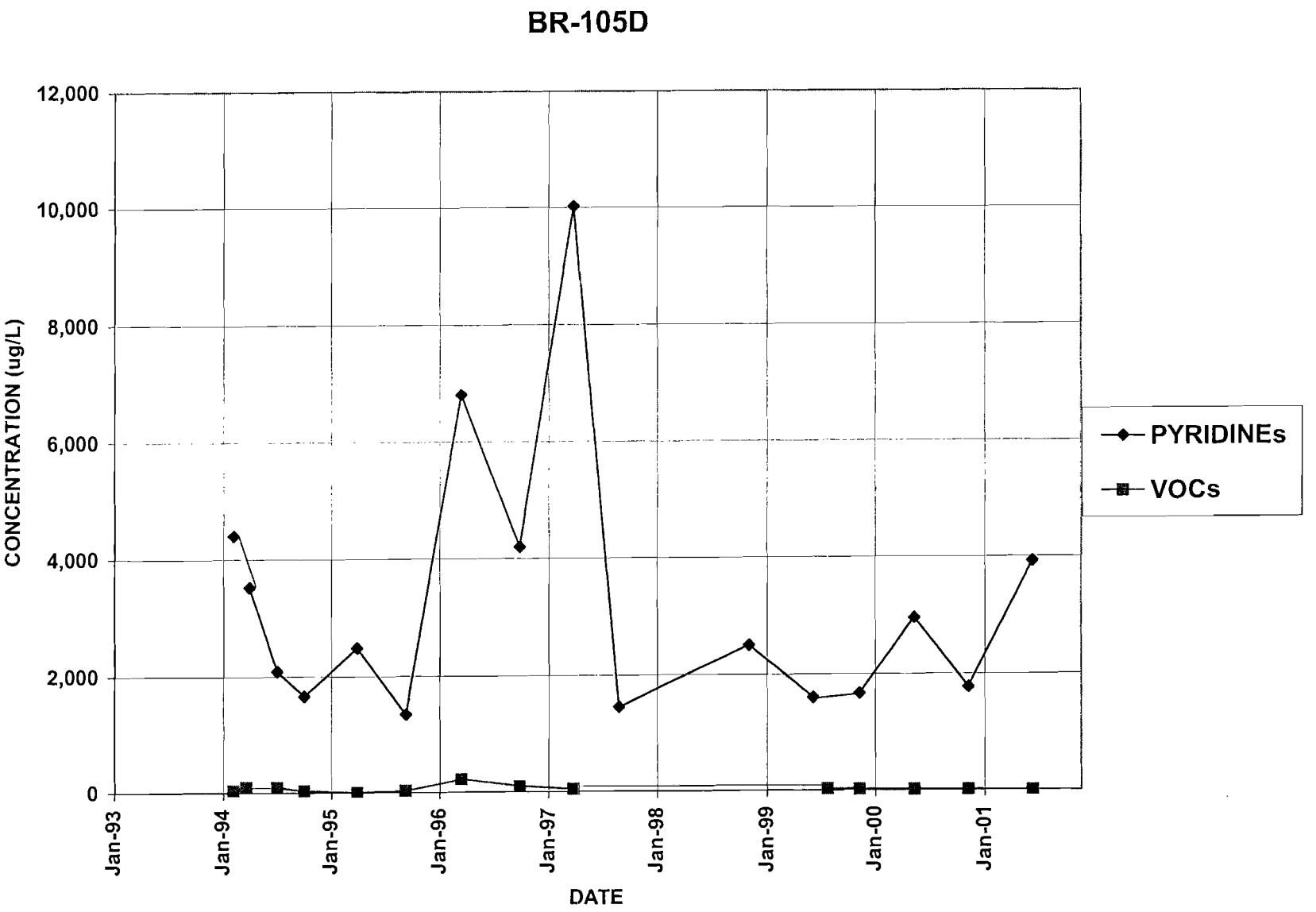
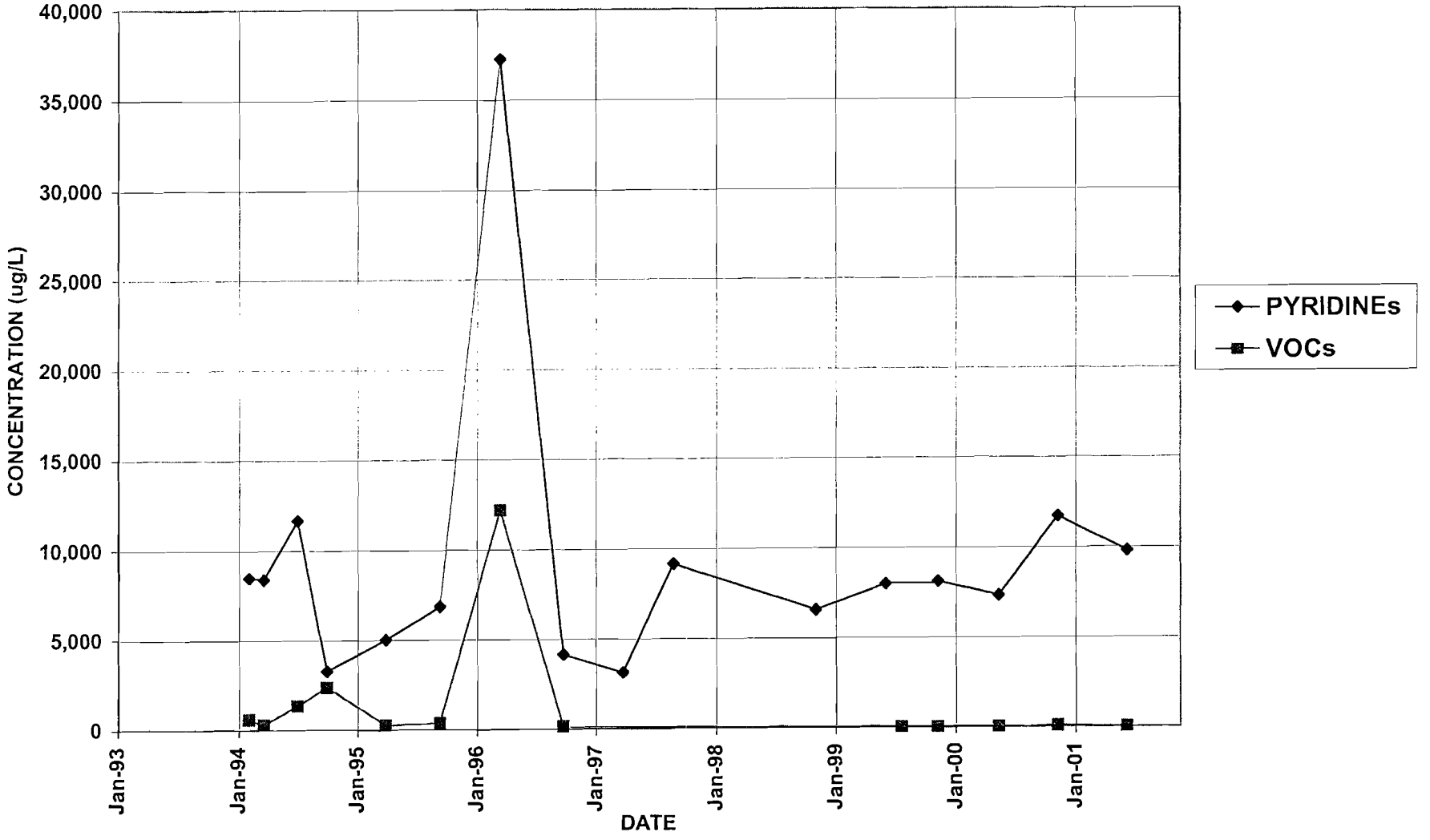
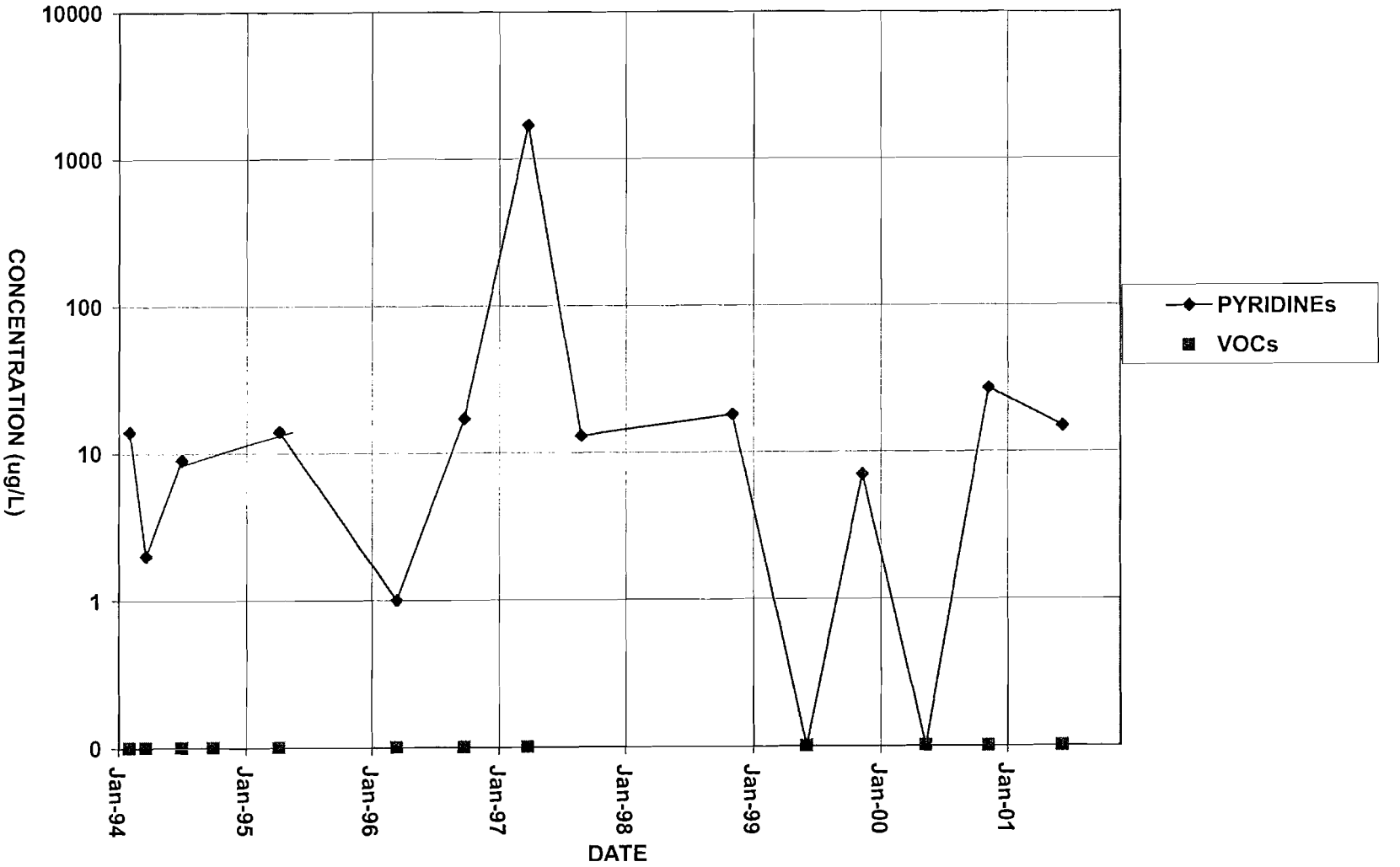
10,000
1,000
100
10
1
0
CONCENTRATION (ug/L)
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs

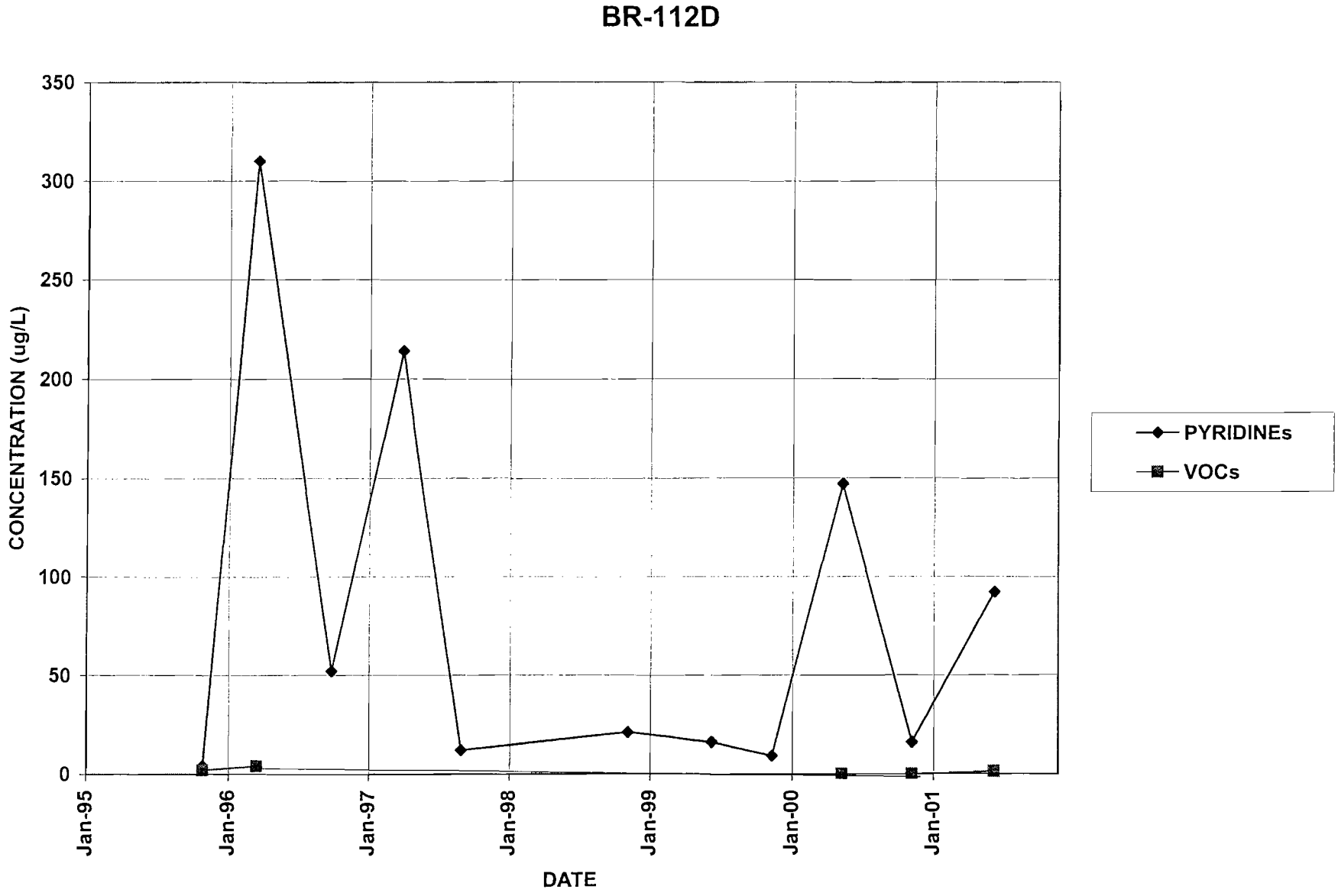

BR-105D
12,000
10,000
8,000
6,000
4,000
2,000
0
CONCENTRATION (ug/L)
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs

BR-106

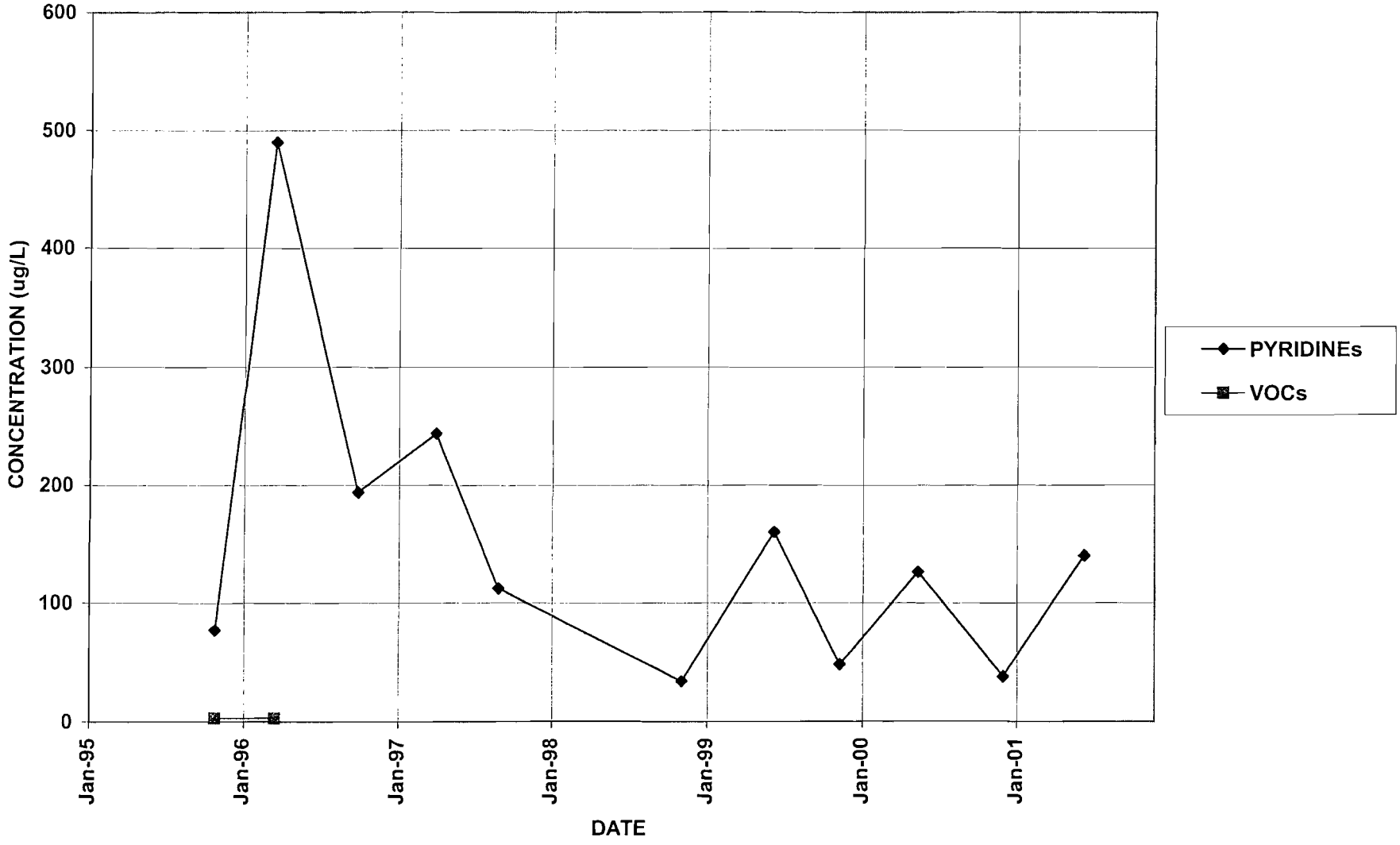

40,000
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
CONCENTRATION (ug/L)
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs

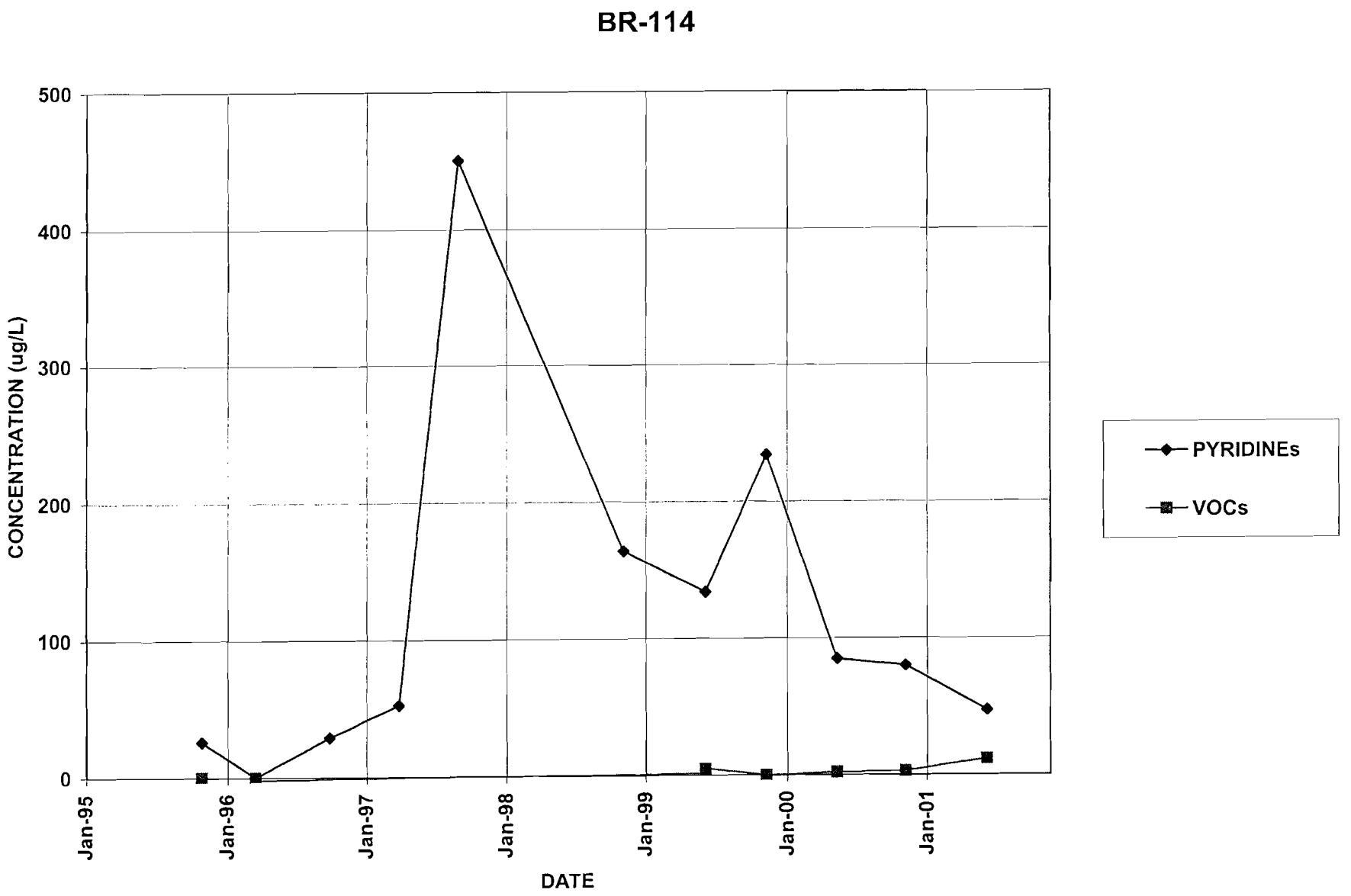
BR-108

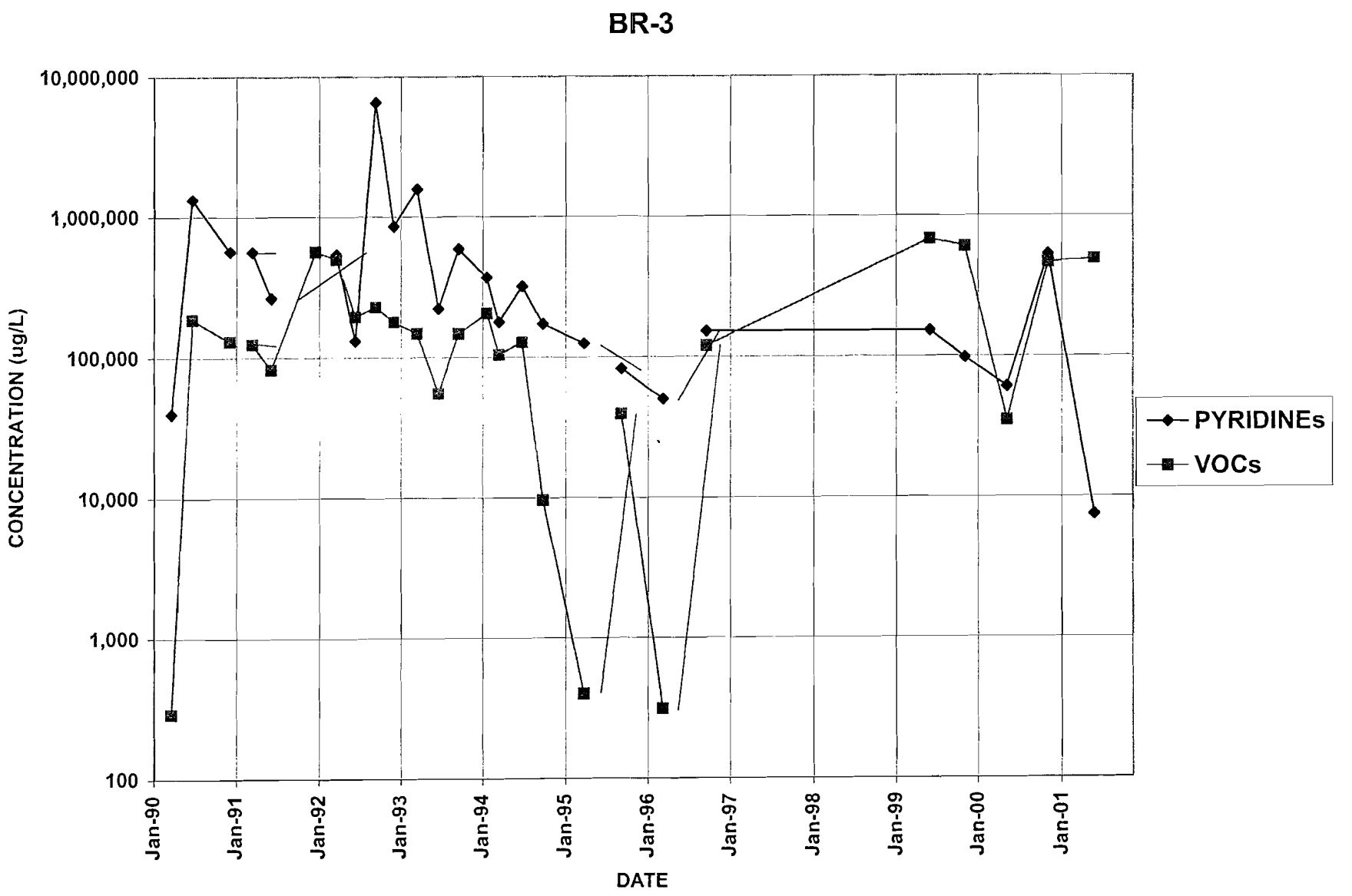

10000
1000
100
10
1
0
CONCENTRATION (ug/L)
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs

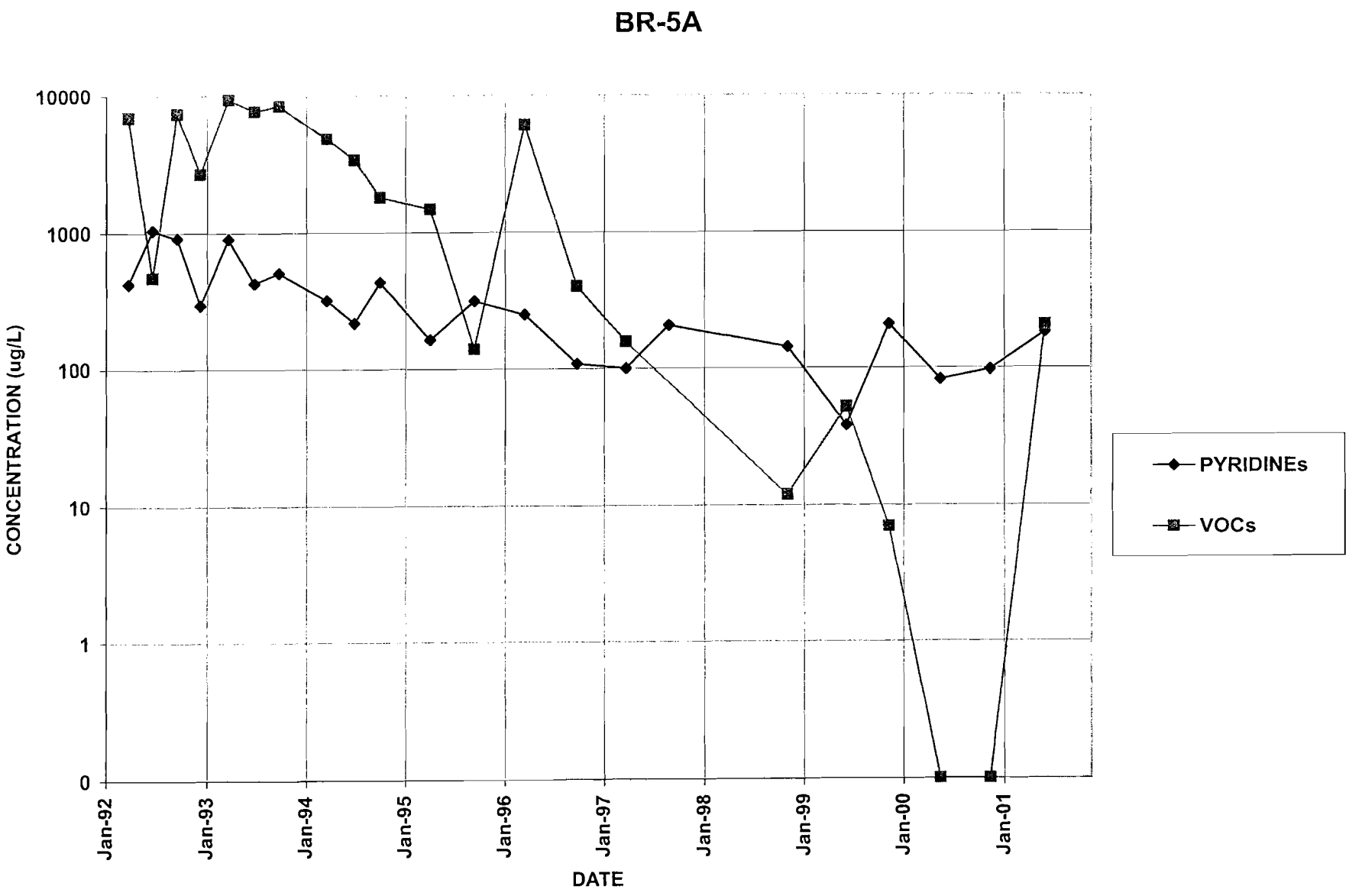

BR-112D
CONCENTRATION (ug/L)
350
300
250
200
150
100
50
0
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs

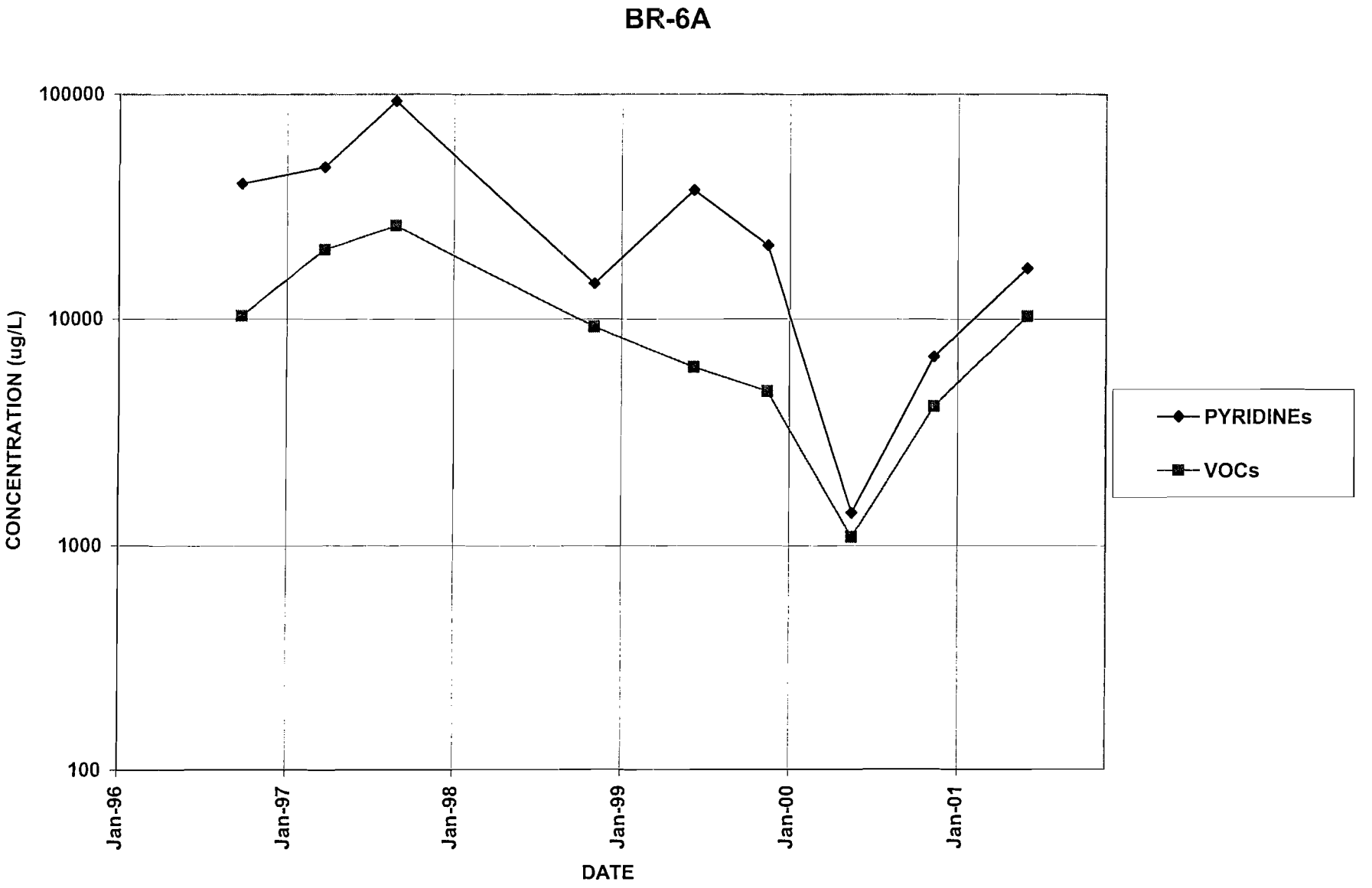
BR-113D

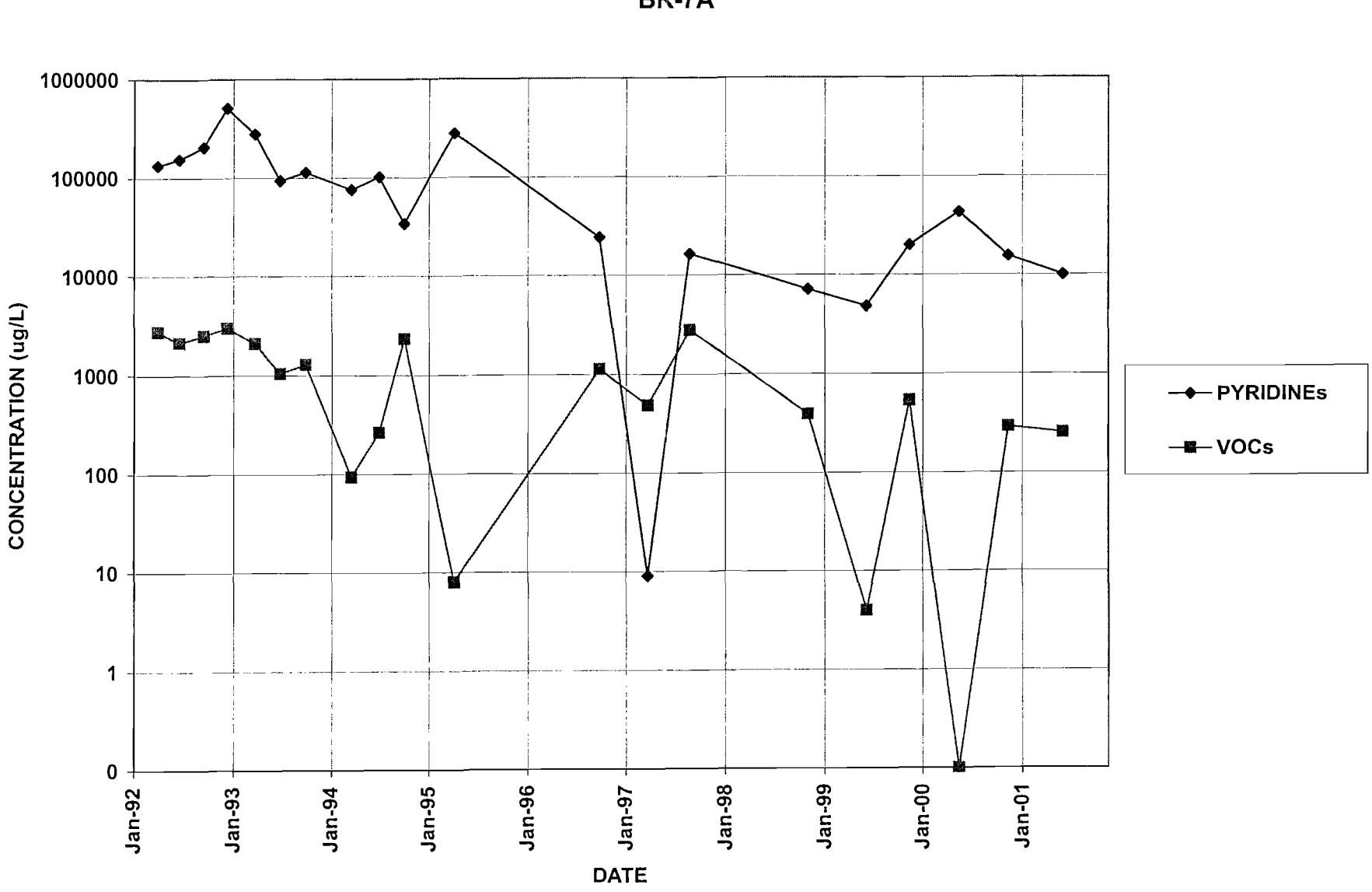

600
500
400
300
200
100
0
CONCENTRATION (ug/L)
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs


BR-114
500
400
300
200
100
0
CONCENTRATION (ug/L)
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs

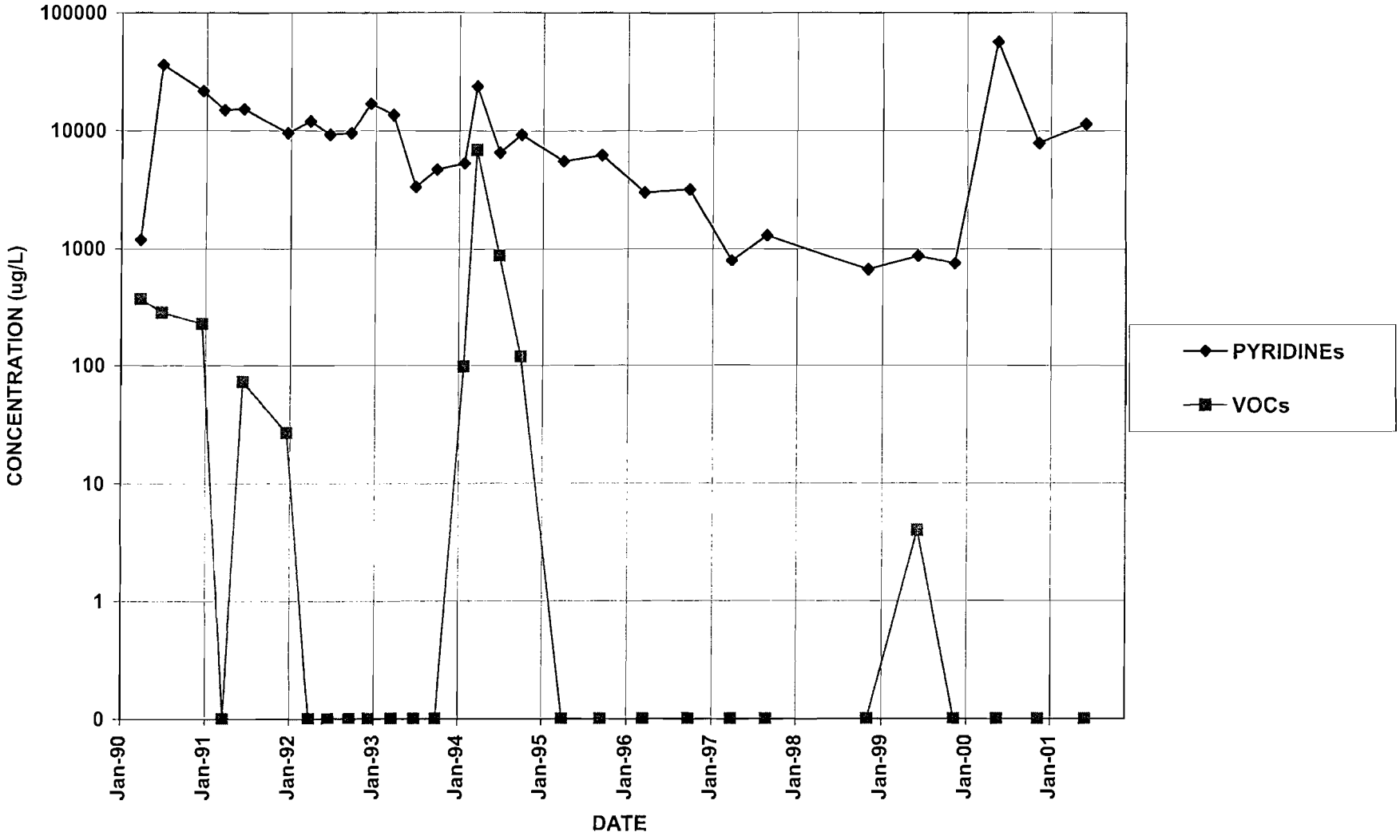

BR-3
10,000,000
1,000,000
100,000
10,000
1,000
100
CONCENTRATION (ug/L)
Jan-90
Jan-91
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs


BR-5A
CONCENTRATION (ug/L)
10000
1000
100
10
1
0
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs

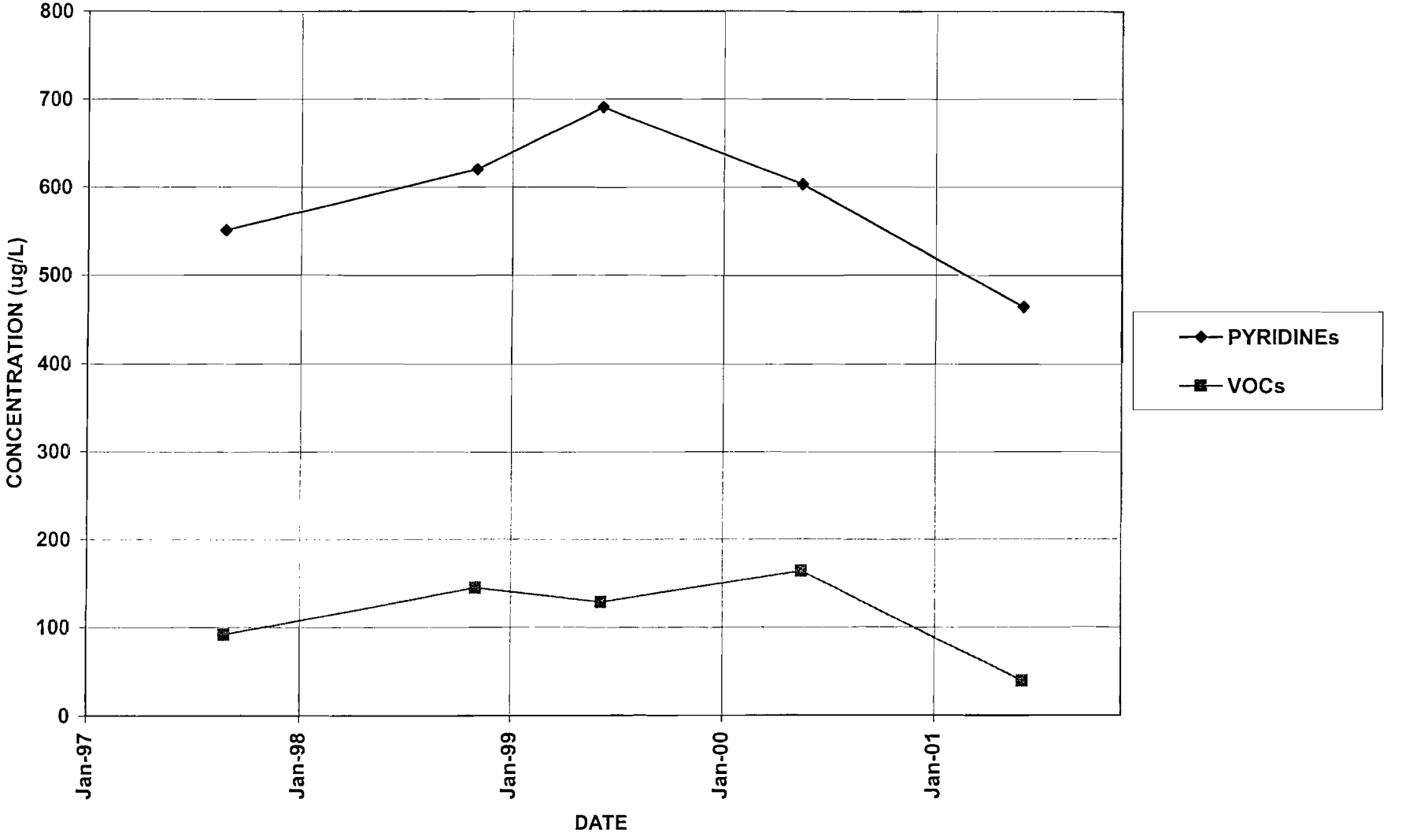

BR-6A
100000
10000
1000
100
CONCENTRATION (ug/L)
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs


BR-7A
1000000
100000
10000
1000
100
10
1
0
CONCENTRATION (ug/L)
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs

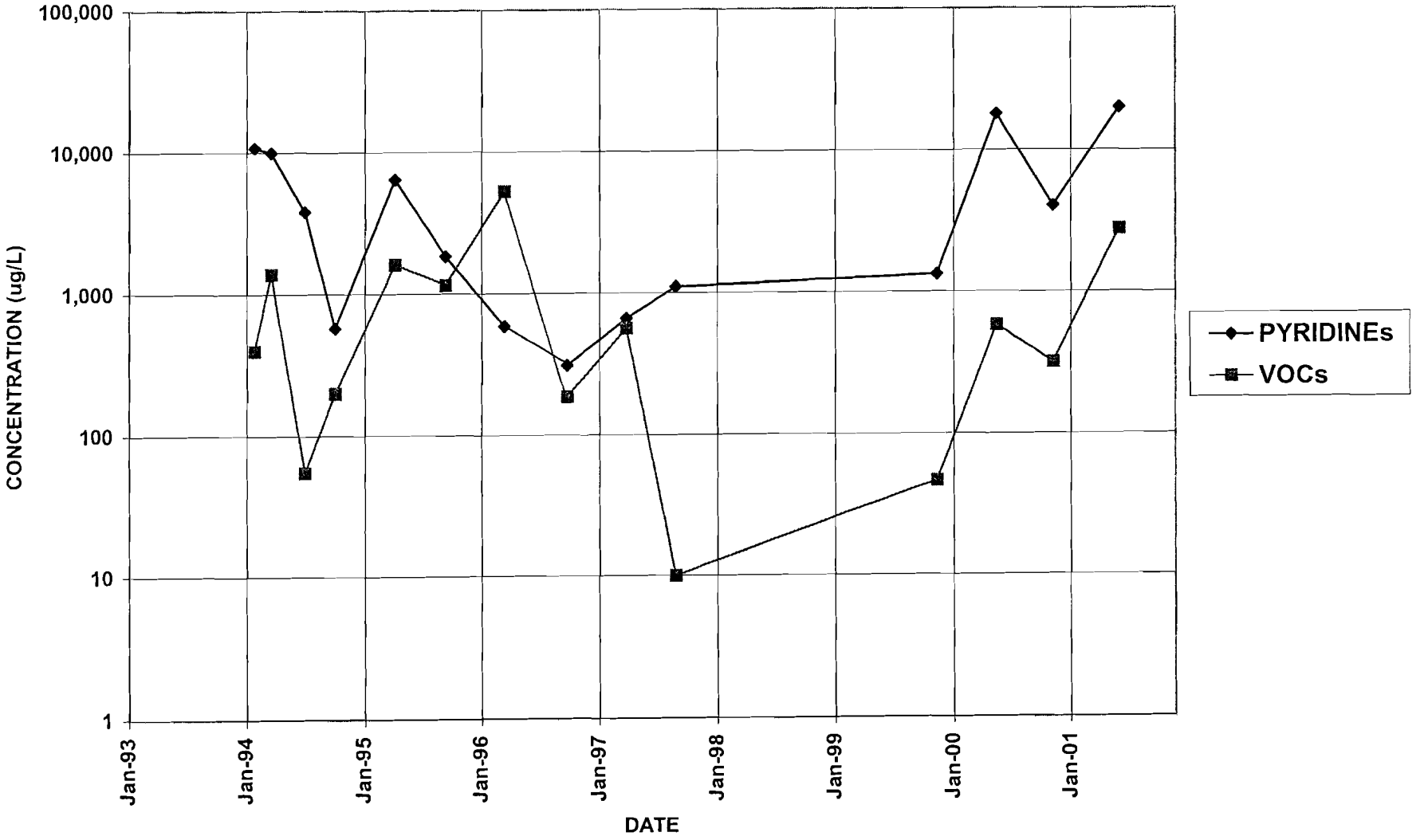
BR-8


100000
10000
1000
100
10
1
0
CONCENTRATION (ug/L)
Jan-90
Jan-91
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs

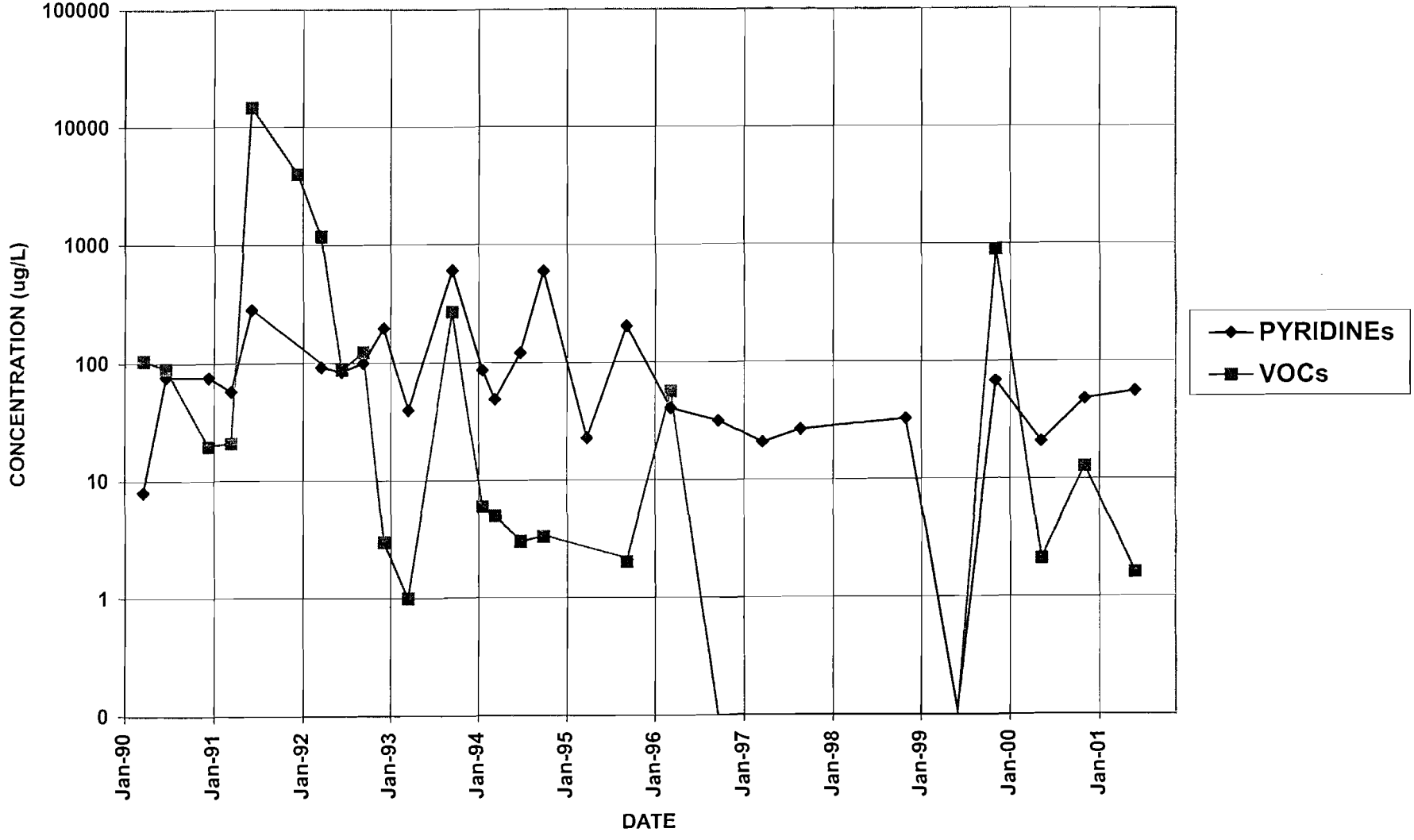
BR-9


800
700
600
500
400
300
200
100
0
CONCENTRATION (ug/L)
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs

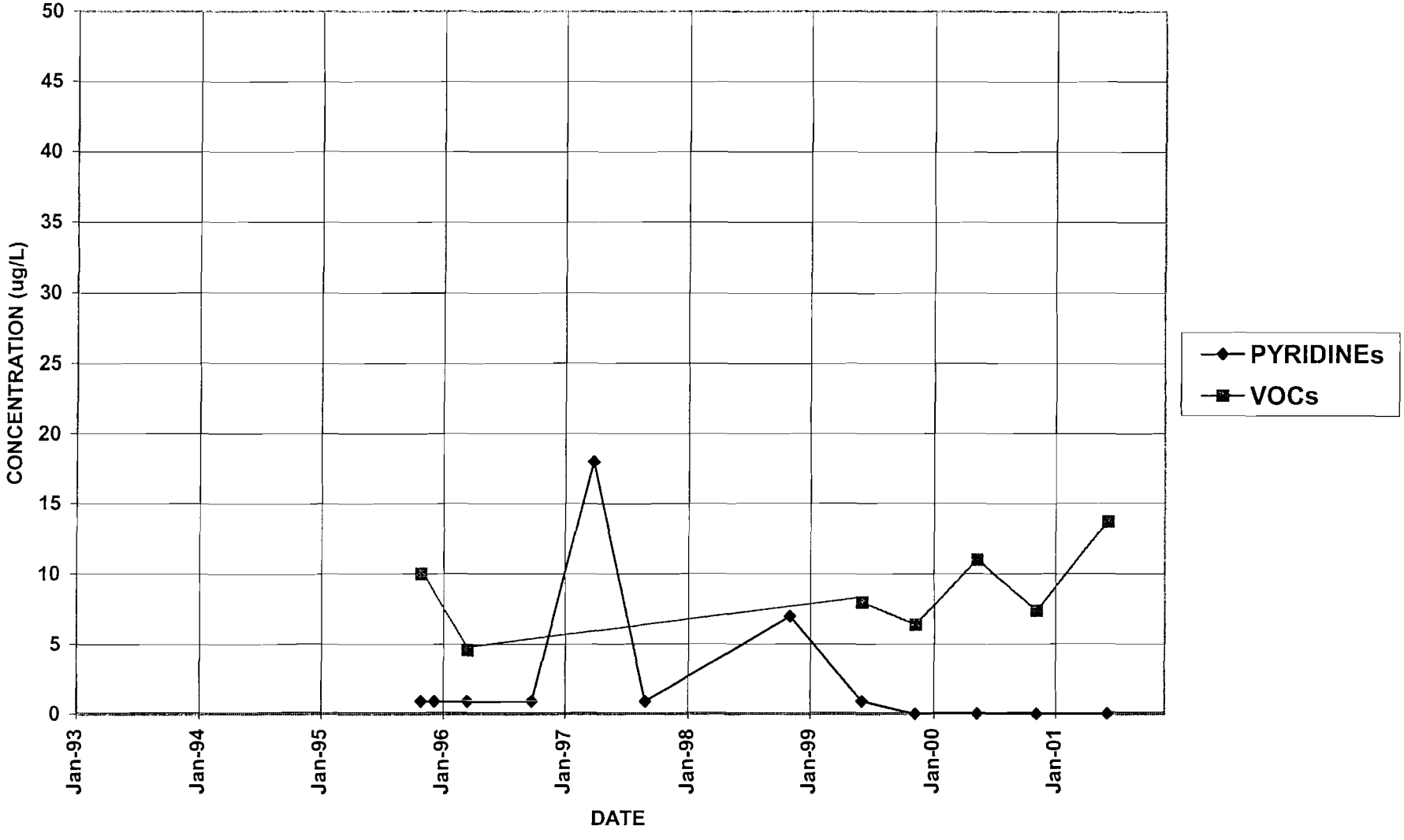
E-1

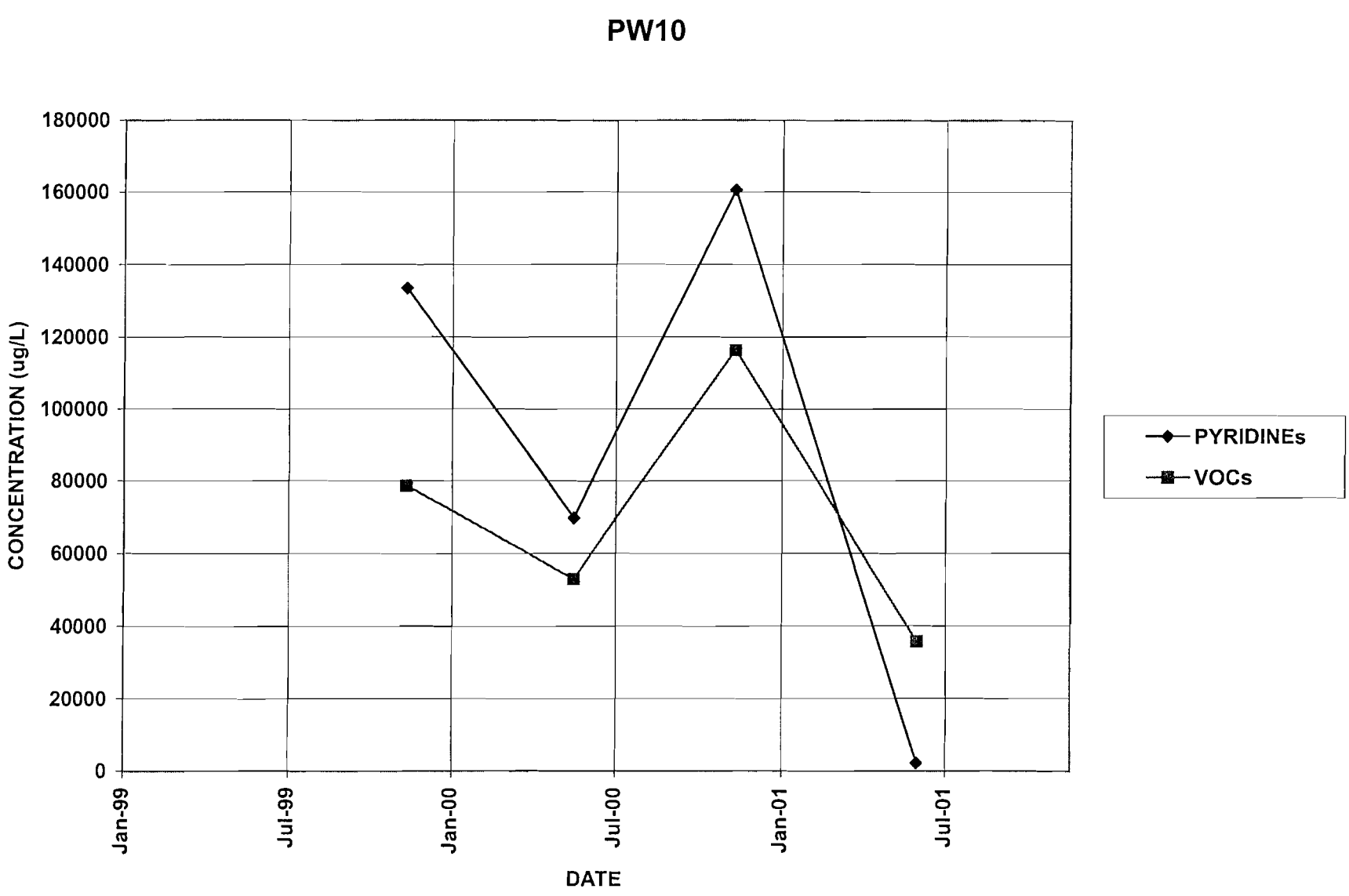

100,000
10,000
1,000
100
10
1
CONCENTRATION (ug/L)
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs

E-3

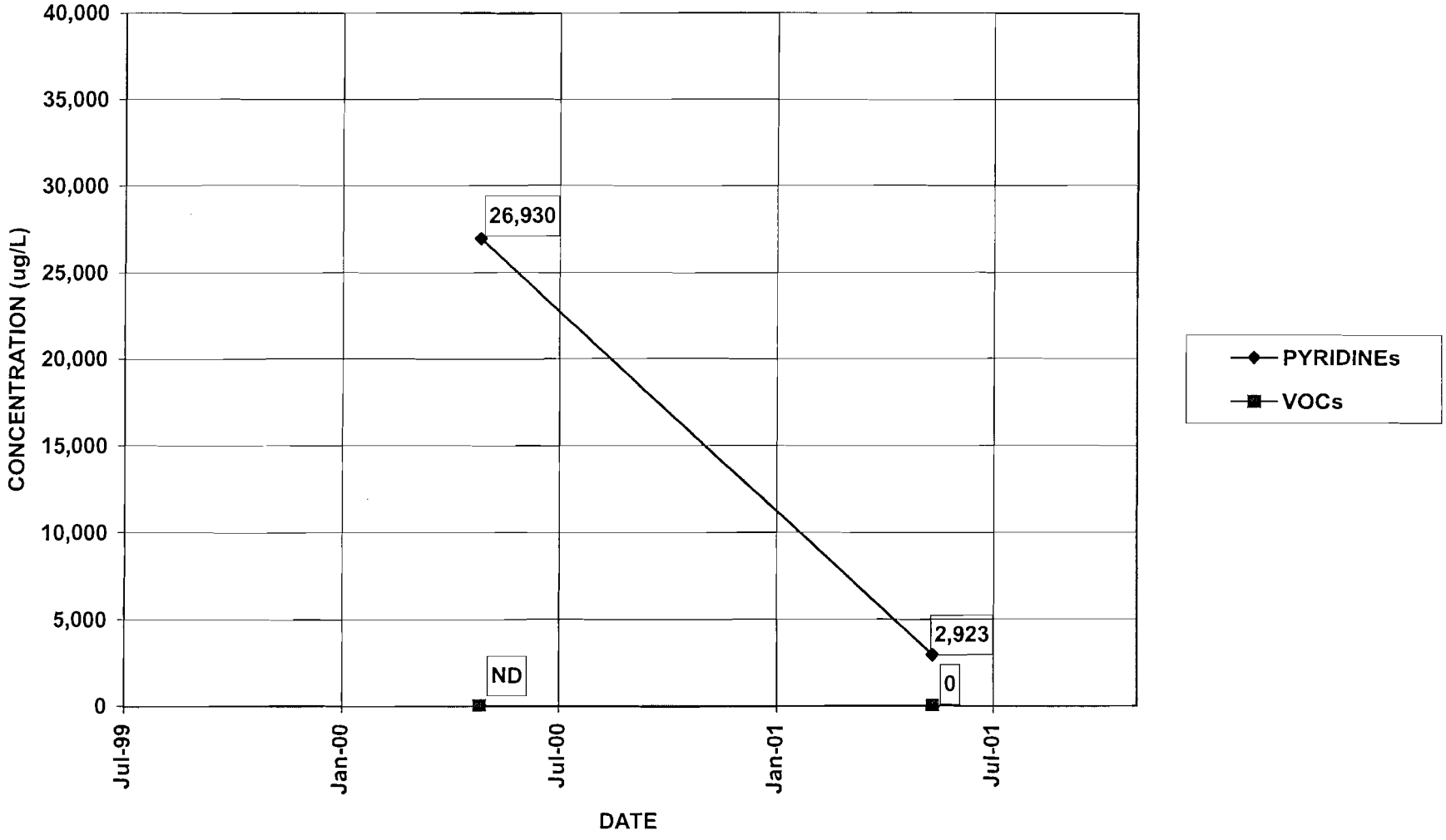

100000
10000
1000
100
10
1
0
CONCENTRATION (ug/L)
Jan-90
Jan-91
Jan-92
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs

MW-114


50
45
40
35
30
25
20
15
10
5
0
CONCENTRATION (ug/L)
Jan-93
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs


PW10
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
CONCENTRATION (ug/L)
Jan-99
Jul-99
Jan-00
Jul-00
Jan-01
Jul-01
DATE
PYRIDINEs
VOCs

PW11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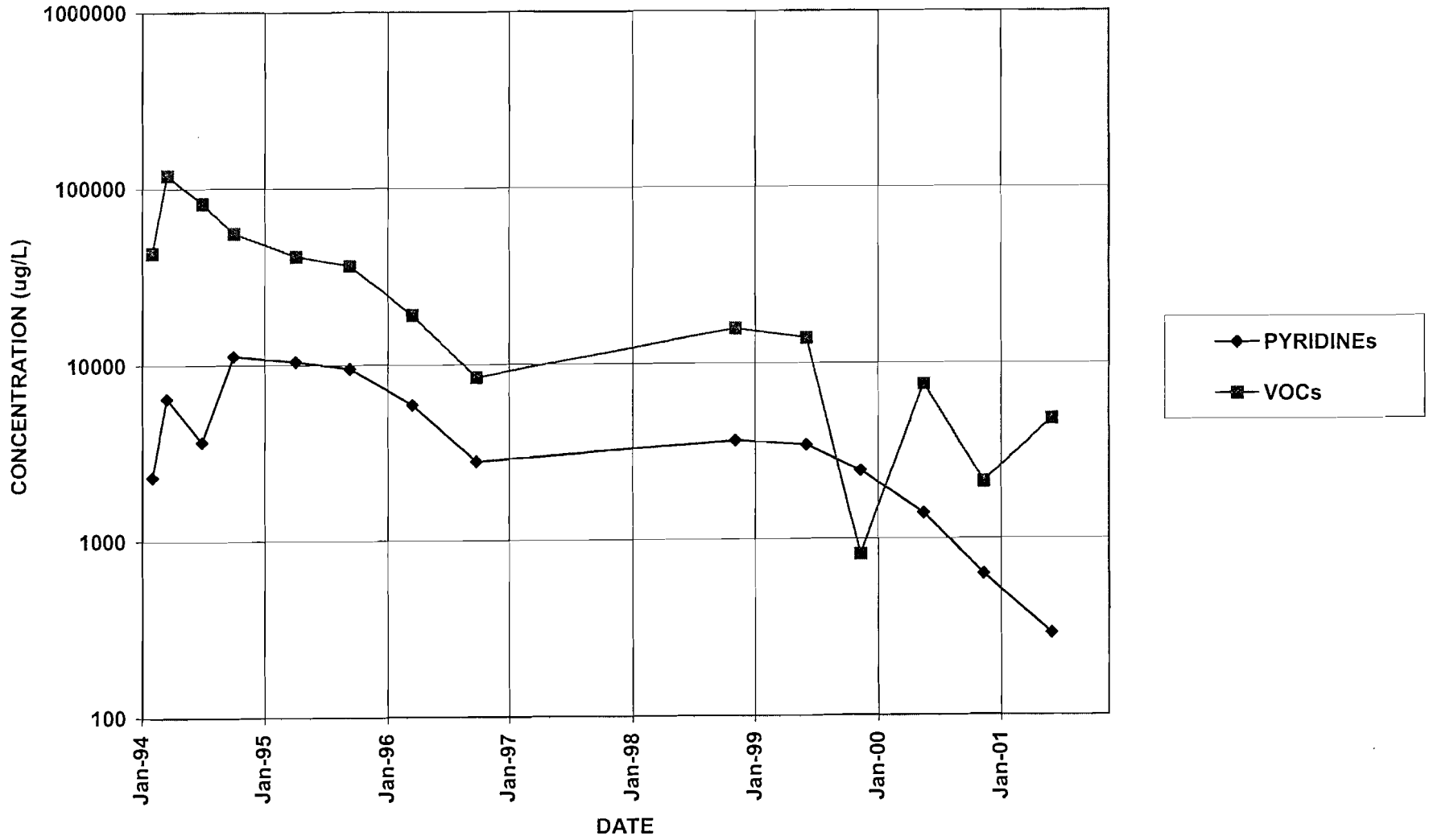
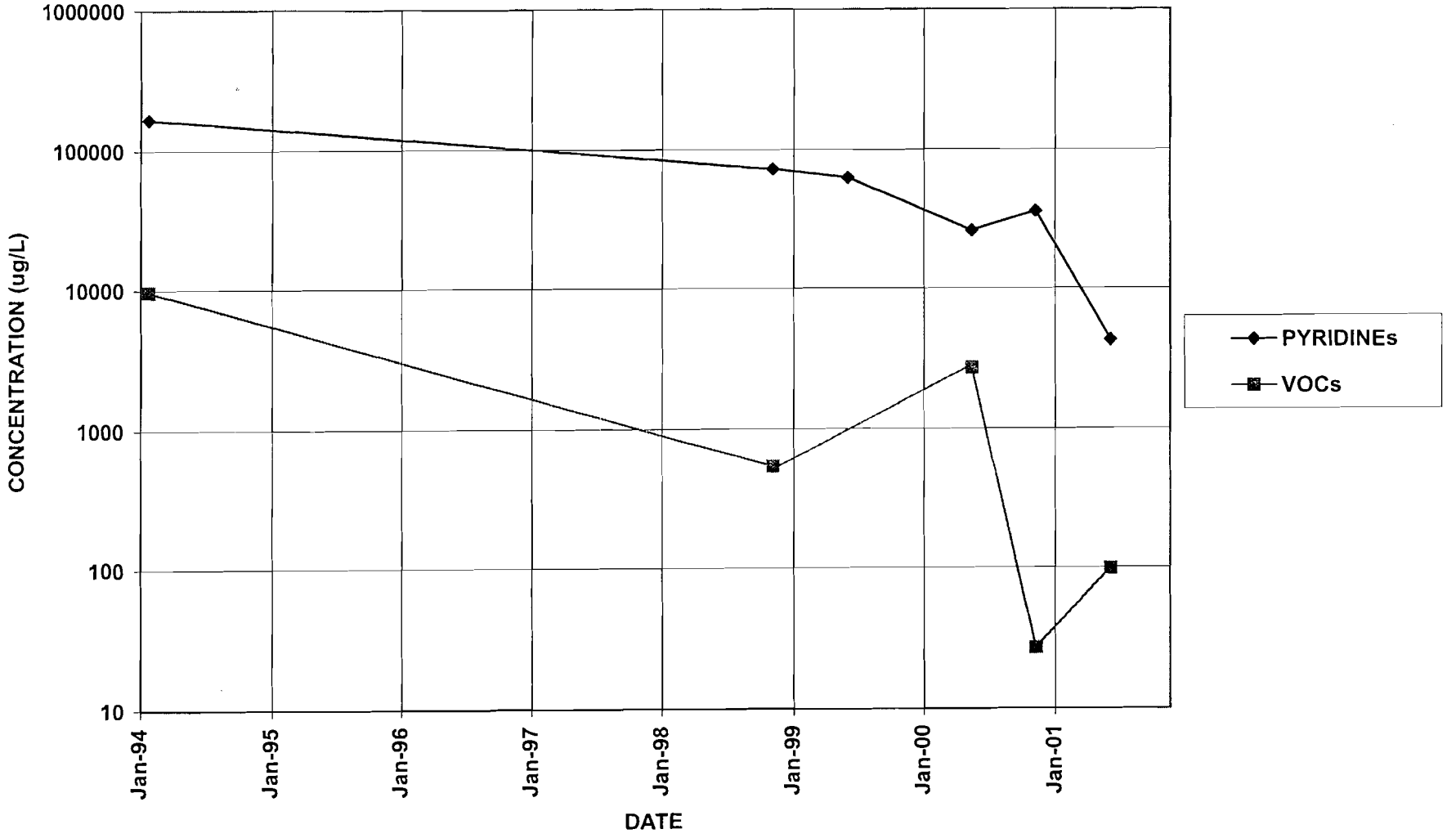
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
CONCENTRATION (ug/L)
26,930
2,923
ND
0
Jul-99
Jan-00
Jul-00
Jan-01
Jul-01
DATE
PYRIDINEs
VOCs

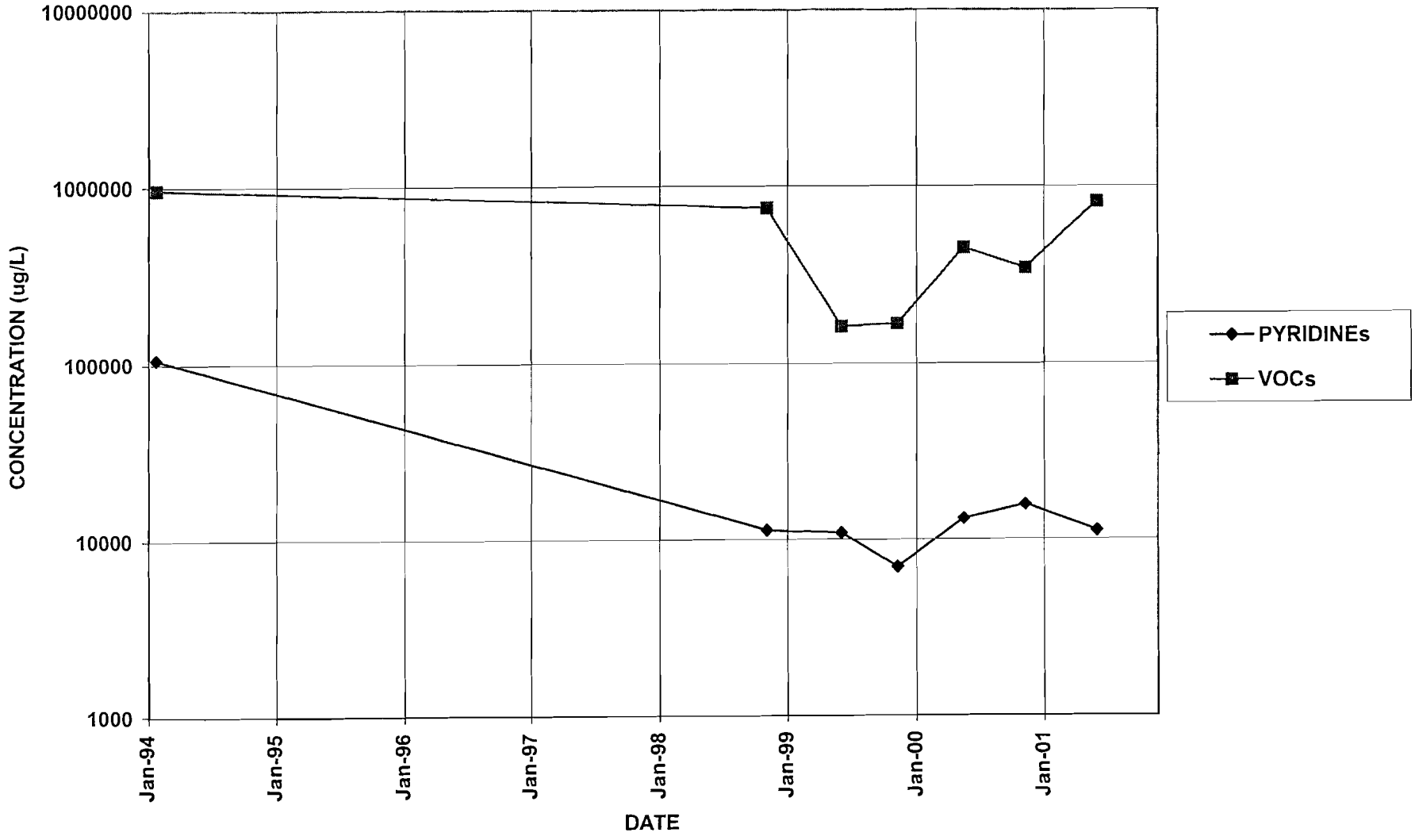
PW12 (Formerly BR-101)



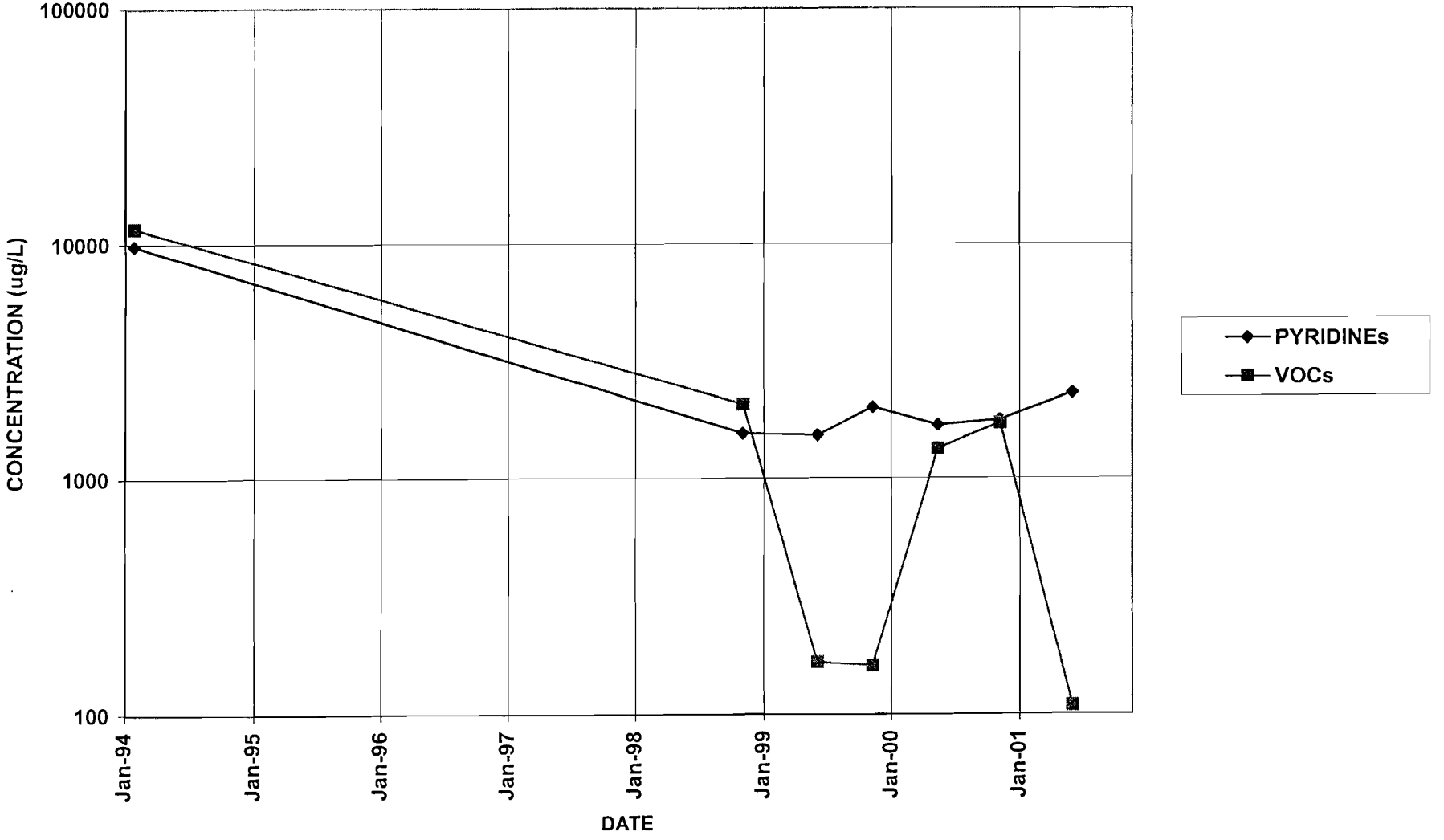
PZ-105


1000000
100000
10000
1000
100
10
CONCENTRATION (ug/L)
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs

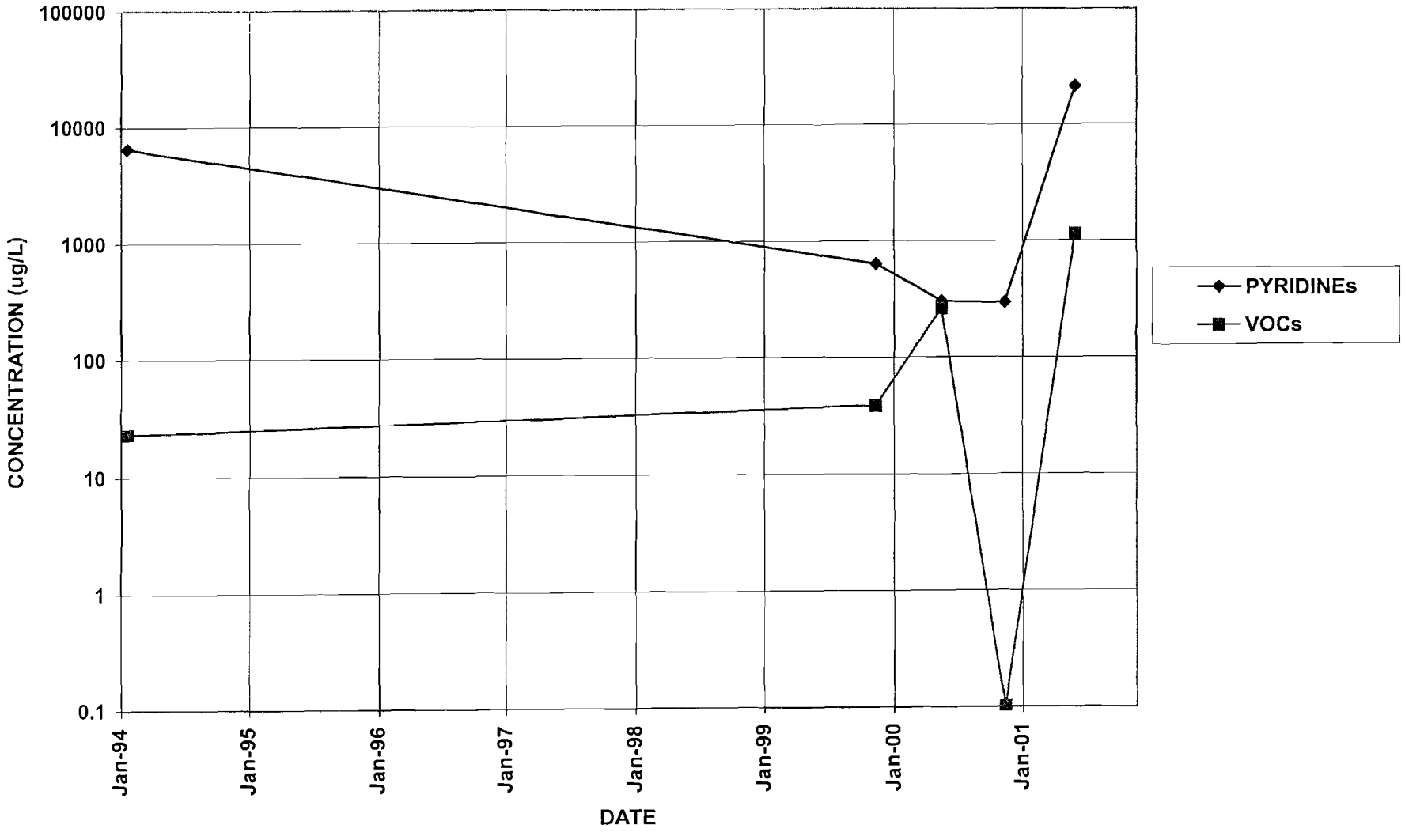
PZ-106


10000000
1000000
100000
10000
1000
CONCENTRATION (ug/L)
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs

PZ-107


100000
10000
1000
100
CONCENTRATION (ug/L)
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs

S-3


100000
10000
1000
100
10
1
0.1
CONCENTRATION (ug/L)
Jan-94
Jan-95
Jan-96
Jan-97
Jan-98
Jan-99
Jan-00
Jan-01
DATE
PYRIDINEs
VOCs