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

August 5, 2005

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

Re: Arch Rochester Spring 2005 Monitoring Report
Arch Chemicals (Site #628018a) 100 McKee Rd., Rochester, NY

Dear Mr. Craft:

The enclosed report presents the Spring 2005 results for the on-going groundwater and surface water monitoring program being conducted by Arch Chemicals, Inc., at its Rochester, New York, manufacturing facility.

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

Sincerely,

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

encl.

cc (w/encl): Bart Putzig, NYSDEC
Renee Gelblat, USEPA Region II
Ron Skipp, Arch Chemicals, Inc.
Jeffrey Brandow, MACTEC Engineering & Consulting, P.C.

SURFACE WATER AND GROUNDWATER MONITORING PROGRAM
SPRING 2005 MONITORING REPORT

ARCH CHEMICALS
ROCHESTER PLANT SITE
ROCHESTER, NEW YORK

ARCH CHEMICALS, INC.
CHARLESTON, TENNESSEE

AUGUST 2005

SURFACE WATER AND GROUNDWATER MONITORING PROGRAM
SPRING 2005 MONITORING REPORT

ARCH CHEMICALS
ROCHESTER PLANT SITE
ROCHESTER, NEW YORK

Prepared by

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

for

ARCH CHEMICALS, INC.
Charleston, Tennessee

August 2005

Nelson M. Breton, C.G.
Project Geologist

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EXECUTIVE SUMMARY

This monitoring report presents the results of an on-going groundwater and surface water monitoring program being conducted by Arch Chemicals, Inc., at its Rochester, New York, manufacturing facility. Results in this report include surface and groundwater samples collected from June 7 through June 16, 2005.

During this monitoring event, samples from a total of 49 groundwater monitoring or pumping wells and four locations associated with the Dolomite Products Quarry seep and outfall were collected and analyzed by Severn Trent Laboratories in Amherst, New York.

As in prior reports, monitoring results were compared with previous average concentrations at each sampling location. Out of the 53 regular monitoring locations sampled for chloropyridines, seven had contaminant concentrations exceeding their respective 5-year prior averages. For the 37 routine monitoring locations sampled for volatile organic compounds, four had concentrations exceeding the 5-year prior average. Contaminant contour plots are generally consistent with past observations.

Regular sampling locations associated with the quarry included the main quarry seep (QS-4), the quarry ditch as it enters the Erie Barge Canal (QO-2), and the surface water in the canal approximately 100-feet downstream of the quarry ditch (QO-2S1). Along with these routine quarry sampling locations, a sample was taken from the quarry ditch (QD-1) at the point where the quarry dewatering system discharges into the ditch at the rim of the quarry.

The sample from quarry seep QS-4 remained below its historical average. The remaining samples associated with the quarry discharge and the canal all had no detectable chloropyridines.

During the period November 29, 2004 through May 30, 2005, the on-site groundwater extraction system pumped approximately 6.2 million gallons of groundwater to the on-site treatment system, containing an estimated 506 pounds of chloropyridines and 78 pounds of target volatile organic compounds. During the period, two new pumping wells were activated: PW-13, a perimeter containment well located along the western property boundary between BR-7A and PW-11; and PW-14, located near PZ-106 in the southeastern portion of the plant site in an area with historically high VOC concentrations.

Pump and/or meter repairs were required in wells BR-5A, BR-7A, BR-9, PW-10, PW-11and PW-13. Pumping well PW-12 is currently inoperable. This well is a former monitoring well that was converted to a pumping well in 1999 in an effort to address elevated VOC concentrations observed in groundwater in that portion of the site during the RI/FS. Since the time the RI was conducted, VOCs in this well (formerly known as BR-101) have declined by around 99 percent. There are also pumping wells located directly east (BR-5A) and west (BR-9) of PW-12 which continue to control groundwater flow in this part of the site. Based on the current conditions at this location and the amount of effort that is likely to be required to restore the well, Arch has recommended that its use as a pumping well be terminated. Arch will attempt to continue to use the well for monitoring purposes.

All accessible on-site monitoring wells were checked for the presence of dense non-aqueous phase liquids (DNAPL), using an interface probe. No DNAPL was observed in any of these wells. Separately, Arch has been tracking the accumulation of LNAPL in pumping well PW-13, which currently measures approximately 4 inches. Arch continues to believe this is fuel oil from an off-site source.

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

Finally, Arch is proposing to revise the site monitoring program based on a review of groundwater data and long-term trends. Given the extensive data base that has been developed for most of the wells, Arch believes that annual monitoring is now adequate for the majority of the sampling locations in the current program. In addition, several wells that have consistently shown contaminant levels to be very low or non-detectable will be dropped from the regular sampling schedule. Pumping wells will continue to be sampled semi-annually to track mass removal rates, and newly-installed monitoring wells will be sampled semi-annually for their first two years to develop a baseline.

1.0 INTRODUCTION

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

The Spring 2005 sampling event included the collection and analysis of a total of 33 groundwater, surface water, and seep samples from off-site and on-site locations. Samples were collected from June 7 through June 16, 2005, for analysis of selected chloropyridines and volatile organic compounds (VOCs).

This report presents the results of the Spring 2005 monitoring event.

2.0 SAMPLE COLLECTION AND ANALYSIS

2.1 GROUNDWATER

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

Groundwater was collected with the low flow/low stress purging technique from most of the wells using bladder or peristaltic pumps. Samples from pumping wells (BR-5A, BR-7A, BR-9, PW-10, PW-11, PW-13, and PW-14) were collected from the discharge lines.

Groundwater piezometric elevations were measured on June 6, 2005. Piezometric contour maps were constructed for each water-bearing zone (overburden, bedrock, and deep bedrock) and are presented in Figures 3, 4, and 5.

All accessible on-site monitoring wells were again checked for the presence of dense non-aqueous phase liquids (DNAPL), using an interface probe. No DNAPL was observed in any of these wells. Separately, Arch has been tracking the accumulation of LNAPL in pumping well PW-13, which currently measures approximately 4 inches. As discussed in the Fall 2004 monitoring report, this fuel oil is believed to be from an off-site source.

2.2 SURFACE WATER

Surface water and quarry seep samples were collected as part of the on-going monitoring program for the Arch Rochester site. The location of the quarry and its outfall in relation to the site is shown on Figure 6. Samples of the quarry seep, the surface ditch that receives

the quarry discharge, and the Barge Canal were collected by Severn Trent Laboratories on June 16, 2005. Samples were analyzed for the Arch suite of selected chloropyridines. In addition, the seep sample was analyzed for TCL VOCs. The quarry locations sampled during this event are shown on Figure 7.

2.3 ANALYTICAL PROCEDURES

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

Samples were analyzed for the Arch suite of selected chloropyridines and TCL VOCs by USEPA SW-846 Methods 8270C and 8260B, respectively. The reporting limits for the chloropyridines and VOCs are approximately 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 U.S. Environmental Protection Agency Contract Laboratory Program (USEPA CLP), "National Functional Guidelines For Organic Data Review", October, 1999, as modified by USEPA Region II, "SOP No. HW-6 Revision XII", March 2001. Analytical results were evaluated for the following parameters:

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

* - *all criteria were met for this parameter*

With the exception of the items discussed below, results are determined to be usable as reported by the laboratory.

Collection and Preservation. Some of the sample coolers associated with samples in SDG 5846 and SDG 5969 were received at the laboratory at temperatures greater than the acceptable range of 2° C to 6° C. As noted by the laboratory, ice was present in the coolers. Since the samples were collected on the same day that the coolers were received by the laboratory, it was not possible for the samples to cool to the acceptable range. Based on professional judgment, no qualifications were necessary.

The VOC sample from PW-10 exhibited a pH greater than 2, indicating inadequate preservation. However, PW-10 was analyzed within 7 days of collection, therefore no qualifications were necessary.

Blank Contamination. Blank contamination was observed in method blanks associated with samples in SDG 5846 for methylene chloride and bromomethane. Results for methylene chloride and bromomethane were not reported from samples associated with these blanks, therefore no qualifications were necessary. Blank contamination was observed in method blanks associated with samples in SDG 5969 for methylene chloride and bromomethane. Bromomethane was reported as non-detect (U) in associated samples, therefore no qualifications were necessary. An action level for methylene chloride was established at ten times the concentration reported in the blank. The methylene chloride detection in associated sample PW-13 was greater than the action level, therefore no qualifications were necessary. The methylene chloride detection in associated sample PZ-103 was less than the reporting limit and less than the action level. The methylene chloride result in sample PZ-103 was qualified as non-detect (U) at the reporting limit.

Matrix Spike/Matrix Spike Duplicate. The percent recoveries for the matrix spike/matrix spike duplicate (MS/MSD) sample associated with sample PZ-103 were below the QC limits for trichloroethene, benzene and toluene, which may indicate a low bias. Results for trichloroethene, benzene and toluene in sample PZ-103 were qualified as estimated (J/UJ). The relative percent difference (RPD) between the MS/MSD associated with sample BR-17 was outside the QC limits for p-fluoroaniline. p-Fluoroaniline was reported as non-detect (U) in sample BR-17 and was qualified as estimated (J). The RPD between the MS/MSD associated with sample MW-127 was outside the QC limits for 2-chloropyridine. The detection of 2-chloropyridine in sample MW-127 was qualified as estimated (J). The RPD between the MS/MSD associated with sample BR-7A was outside the QC limits for 2-chloropyridine. The detection of 2-chloropyridine in sample BR-7A was qualified as estimated (J).

Miscellaneous. The detections of dibromochloromethane and toluene in sample PW-14 exceeded the calibration range and were qualified as estimated (J). The detection of 3-chloropyridine in sample BR-127 exceeded the calibration range and was qualified as estimated (J).

3.0 ANALYTICAL RESULTS

3.1 GROUNDWATER

The validated results from the Spring 2005 groundwater monitoring event are provided in Tables 2 and 3. Table 4 provides a comparison of the Spring 2005 analytical results for selected chloropyridines and VOCs in representative wells to mean concentrations of the prior five years (Spring 2000 through Fall 2004). Long term trends for both selected chloropyridines and VOCs are also presented as time-series plots for representative wells in Appendix B. A summary of the analytical findings is presented below by parameter class.

3.1.1 Chloropyridines

On-Site. Chloropyridines were detected above sample quantitation limits in all 22 on-site wells sampled in the Spring 2005 event. Concentrations of chloropyridines ranged from 122 micrograms per liter (µg/L) (sum of all chloropyridine and pyridine isomer

concentrations) in pumping well BR-9 to 190,000 µg/L in monitoring well B-17. Five on-site wells had selected chloropyridines concentrations above their respective means from monitoring events over the previous five years (see Table 4).

Off-Site. Chloropyridines were detected above sample quantitation limits in 21 of 27 off-site wells that were sampled. Concentrations of total selected chloropyridines ranged from non-detect to 9,000 µg/L in newly-installed bedrock monitoring well BR-126. Two of the off-site wells contained total chloropyridines concentrations above their respective 5-year prior means.

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

3.1.2 Selected VOCs.

On-Site. Selected VOCs were detected in 17 of the 22 on-site wells sampled in the Spring 2005 event. Concentrations of VOCs ranged from non-detect to 390,000 µg/L for the sum of the principal site-related contaminants (carbon tetrachloride, chloroform, methylene chloride, tetrachloroethene, and trichloroethene). Two of the fourteen on-site wells had VOC concentrations slightly greater than their 5-year prior means. In addition to the selected VOCs, other notable constituents detected in on-site wells include chlorobenzene (in 18 out of 22 wells), toluene (17 of 22), carbon disulfide (16 of 22), benzene (15 of 22), 1,2-dichloroethene (12 of 22), vinyl chloride (8 of 22), ethylbenzene (7 of 22), 1,1-dichloroethane (6 of 22), bromoform (6 of 22), and dibromochloromethane (4 of 22).

Off-Site. Selected VOCs were detected in six of the fourteen off-site wells sampled for VOCs in the Fall 2004 event. Total concentrations of selected VOCs ranged from non-detect to 220 ug/L. Two off-site wells had selected VOC concentrations above their prior 5-year mean. In addition to the selected VOCs, other notable constituents detected in off-site wells include benzene (in 11 out of 14 wells), chlorobenzene (9 of 14), 1,2-dichloroethene (5 of 14), toluene (4 of 14), carbon disulfide (3 of 14), and vinyl chloride (3 of 14).

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

3.2 SURFACE WATER

Results from the Spring 2005 canal and quarry monitoring event are presented in Table 5, and summarized below.

3.2.1 Quarry

One quarry seep was sampled in the Spring 2005 monitoring event. Quarry seep QS-4 contained 165 µg/L total chloropyridines, and had no detectable VOCs. These results remain below historical averages.

3.2.2 Quarry Discharge Ditch

Two samples were collected from the quarry discharge ditch and analyzed for chloropyridines. Sample QD-1 was collected from the ditch at the location of the discharge pipe from the quarry, near the quarry rim. Sample QO-2 was collected at the point where the ditch discharges to the canal. No chloropyridines were detected in either of the ditch samples.

3.2.3 Barge Canal

No chloropyridines were detected in the surface water sample collected from the Erie Barge Canal (QO-2S1, located approximately 100 feet downstream of QO-2).

4.0 EXTRACTION SYSTEM PERFORMANCE AND MAINTENANCE

Table 6 is a summary of the system flow measurements for the on-site extraction wells from December 2004 through May 2005. The total volume pumped during the six-month period is approximately 6.2 million gallons.

During the period, two new pumping wells were activated: PW-13, a perimeter containment well located along the western property boundary between BR-7A and PW-11; and PW-14, located near PZ-106 in the southeastern portion of the plant site in an area with historically high VOC concentrations.

Pump and/or meter repairs were required in wells BR-5A, BR-7A, BR-9, PW-10, PW-11, and PW-13.

On-site pumping well PW-12 is currently inoperable. While attempting to perform preventative maintenance, Arch found that the pump was firmly lodged within this open-core well, and could not be extracted. It is unknown whether the formation has collapsed around the pump, or whether a build-up of sediment and scale has cemented the pump in place. This well is a former monitoring well that was converted to a pumping well in 1999 in an effort to address elevated VOC concentrations observed in groundwater in that portion of the site during the RI/FS. Since the time the RI was conducted, VOCs in this well (formerly known as BR-101) have declined by around 99 percent. There are also pumping wells located directly east (BR-5A) and west (BR-9) of PW-12 which continue to control groundwater flow in this part of the site. Based on the current conditions at this location and the amount of effort that is likely to be required to restore the well, Arch has recommended that its use as a pumping well be terminated. Arch will attempt to continue to use the well for monitoring purposes.

Table 7 provides a calculation of mass removal rates since the previous groundwater monitoring event (i.e., from December 2004 through May 2005). Arch estimates that

approximately 192 pounds of target VOCs and 534 pounds of chloropyridine compounds were removed by the groundwater extraction system and treated by the plant's activated carbon adsorption units over that time period.

5.0 OTHER ISSUES

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

6.0 NEXT MONITORING EVENT

Arch is proposing to revise the site monitoring program based on a review of groundwater data and long-term trends. Given the extensive data base that has been developed for most of the wells, Arch believes that annual monitoring is now adequate for the majority of the sampling locations in the current program. In addition, several sampling locations that have consistently shown contaminant levels to be very low or non-detectable will be dropped from the regular sampling schedule. Pumping wells will continue to be sampled semi-annually to track mass removal rates, and newly-installed monitoring wells will be sampled semi-annually for their first two years. The proposed revised sampling schedule is shown in Table 8.

In accordance with the proposed sampling schedule, the next monitoring event will occur in November 2005 and will consist of sampling of the active pumping wells and new monitoring wells BR/MW-125 (if installed by then), BR/MW-126, and BR/MW-127.

Figures

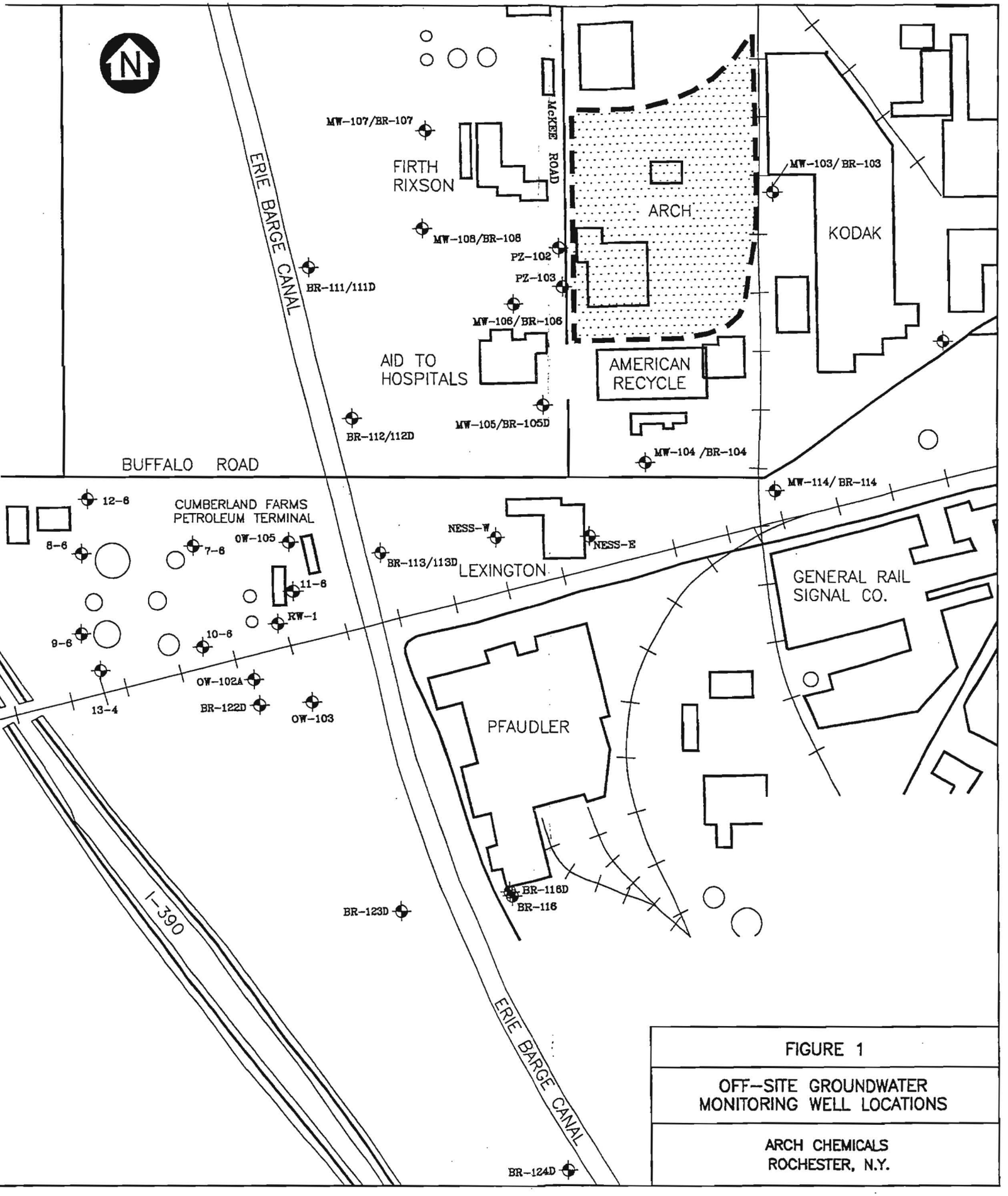
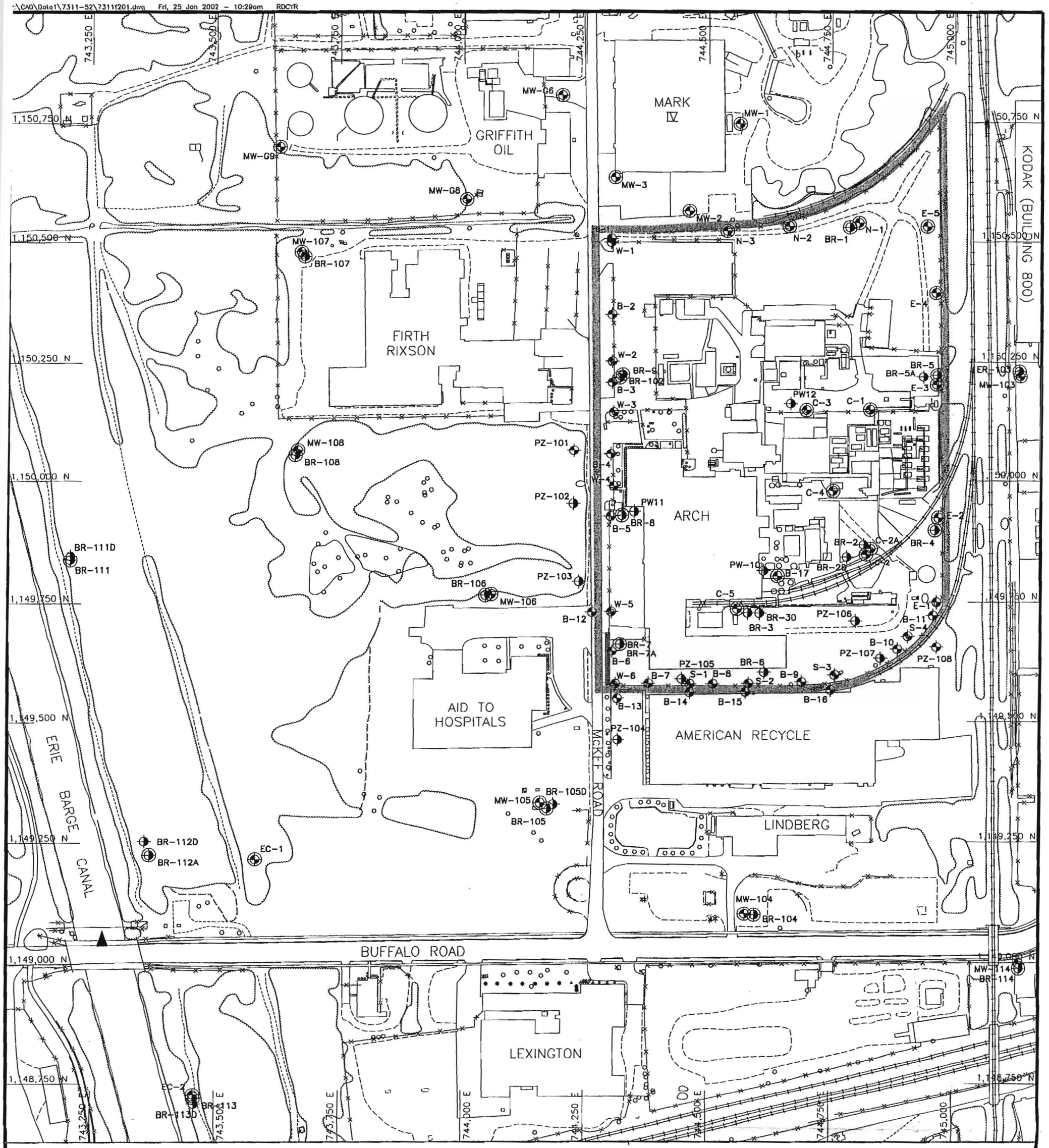


FIGURE 1

OFF-SITE GROUNDWATER MONITORING WELL LOCATIONS

ARCH CHEMICALS
ROCHESTER, N.Y.



LEGEND

- OUTLINE OF ARCH PROPERTY BOUNDARY
- OVERBURDEN PIEZOMETER / PUMPING WELL
- BEDROCK PIEZOMETER / PUMPING WELL / DEEP BEDROCK MONITORING WELL
- OVERBURDEN MONITORING WELL
- BEDROCK MONITORING WELL
- SURFACE WATER MEASUREMENT POINT

0 100 200 400 FEET

SCALE: 1"=200'

NOTE:

1. OFF-SITE WELL LOCATIONS ALSO INCLUDED ON FIGURE 1

FIGURE 2

ON-SITE MONITORING WELL LOCATIONS

ARCH CHEMICALS
ROCHESTER, N.Y.

MW-G6 (529.74)
MW-G9 (527.01)
MW-G8 (526.68)
MW-3 (529.68)
B-1 (528.31)
MW-2 (NA)
N-3 (529.31)
N-2 (530.84)
E-5 (532.41)
W-1 (NA)
B-2 (528.70)
W-2 (528.83)
B-3 (531.53)
E-4 (NA)
E-3 (528.23)
MW-103 (531.50)
MW-108 (527.26)
PZ-101 (530.38)
B-4 (530.97)
B-5 (531.24)
PW10
C-2A
E-2 (532.50)
E-1 (532.96)
B-17 (532.01)
MW-127 (532.00)
PW-14 (519.39)
B-11 (532.07)
S-4 (NA)
B-10 (531.88)
MW-106 (525.74)
W-5 (532.07)
C-5 (531.41)
W-6 (529.80)
B-14 (530.56)
B-15 (531.62)
B-7 (527.97)
B-8 (531.34)
B-9 (NA)
B-16 (532.03)
B-1 (DRY)
MW-126 (532.00)
MW-105 (< 518.01)
EC-1 (521.73)
MW-104 (528.96)
MW-114 (528.76)
EC-2 (DRY)

528
530
532

Approximate Limit of Saturated Overburden

Legend

- Outline of Arch Property Boundary
- Interpreted Groundwater Flow Direction
- 528 — Overburden Piezometric Elevation Contour (MSL)
- MW-114 (528.76) A — Piezometric Elevation at Well or Piezometer

NOTES:

1. Water Levels Measured on June 6, 2005
2. NA = Not Available
3. Dashed Contours Reflect Uncertainty
4. (<518.01) Reflects Bottom of Well Elevation, Well Observed Dry

0 100 200 400 Feet

Prepared by FJB | Checked by NMB

Figure 3
Spring 2005
Overburden Groundwater
Interpreted Piezometric Contours

Arch Chemicals
Rochester, NY
MACTEC, Inc.

Document: P:\Projects\Arch\Rochester\GIS\MapDocuments\Spring2005\Arch_OverburdenGW_Fig3.mxd PDF: P:\Projects\Arch\Rochester\GIS\Figures\Monitoring_Spring2005\Figure3_revised_072605.pdf 07/26/2005 3:17 PM fboettner

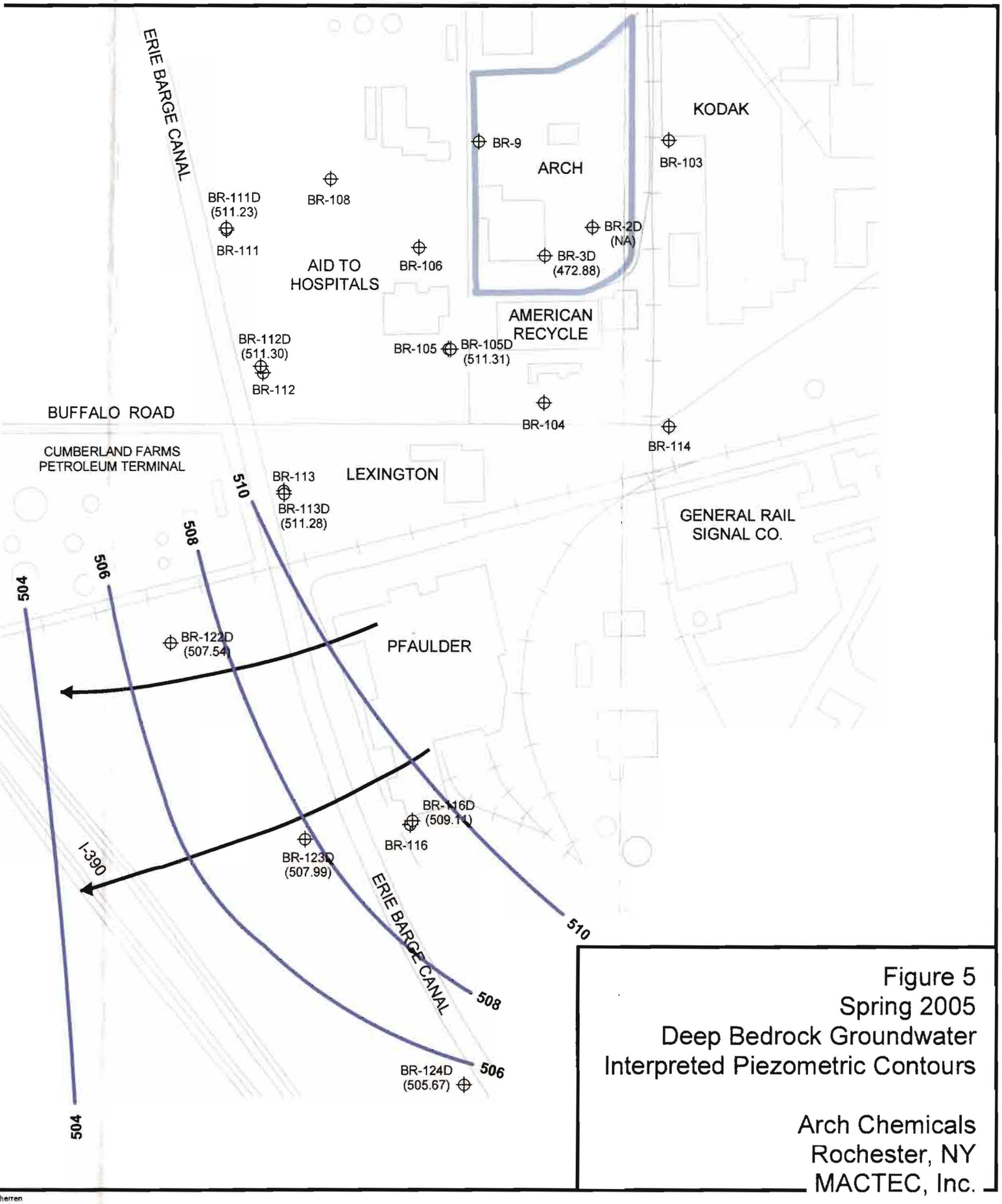


Figure 5
Spring 2005
Deep Bedrock Groundwater
Interpreted Piezometric Contours

Arch Chemicals
Rochester, NY
MACTEC, Inc.

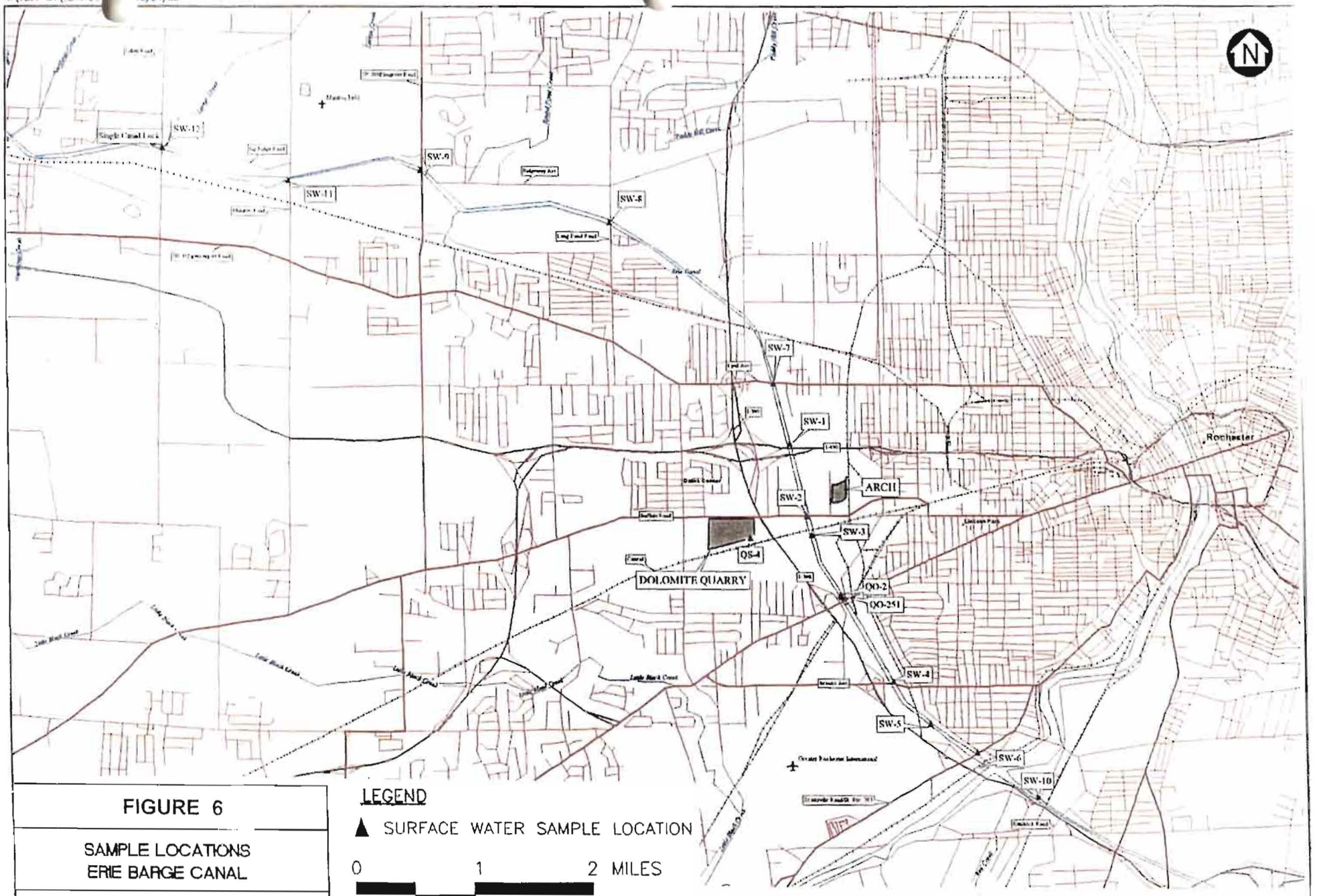


FIGURE 6

SAMPLE LOCATIONS
ERIE BARGE CANAL

ARCH CHEMICALS
ROCHESTER, N.Y.

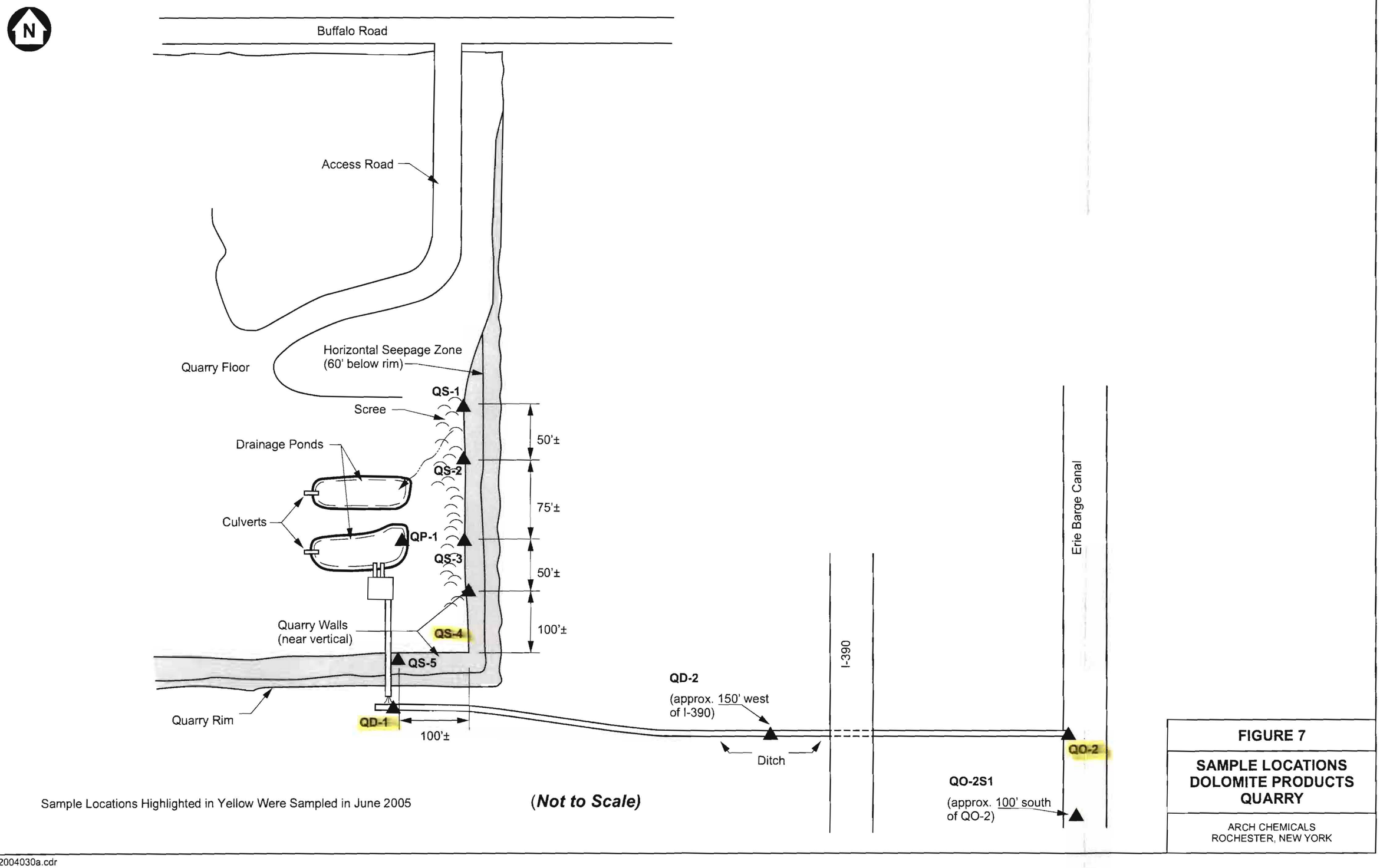
LEGEND

▲ SURFACE WATER SAMPLE LOCATION

0 1 2 MILES

APPROXIMATE SCALE

SOURCE: DeLorme Mapping 1995



Sample Locations Highlighted in Yellow Were Sampled in June 2005

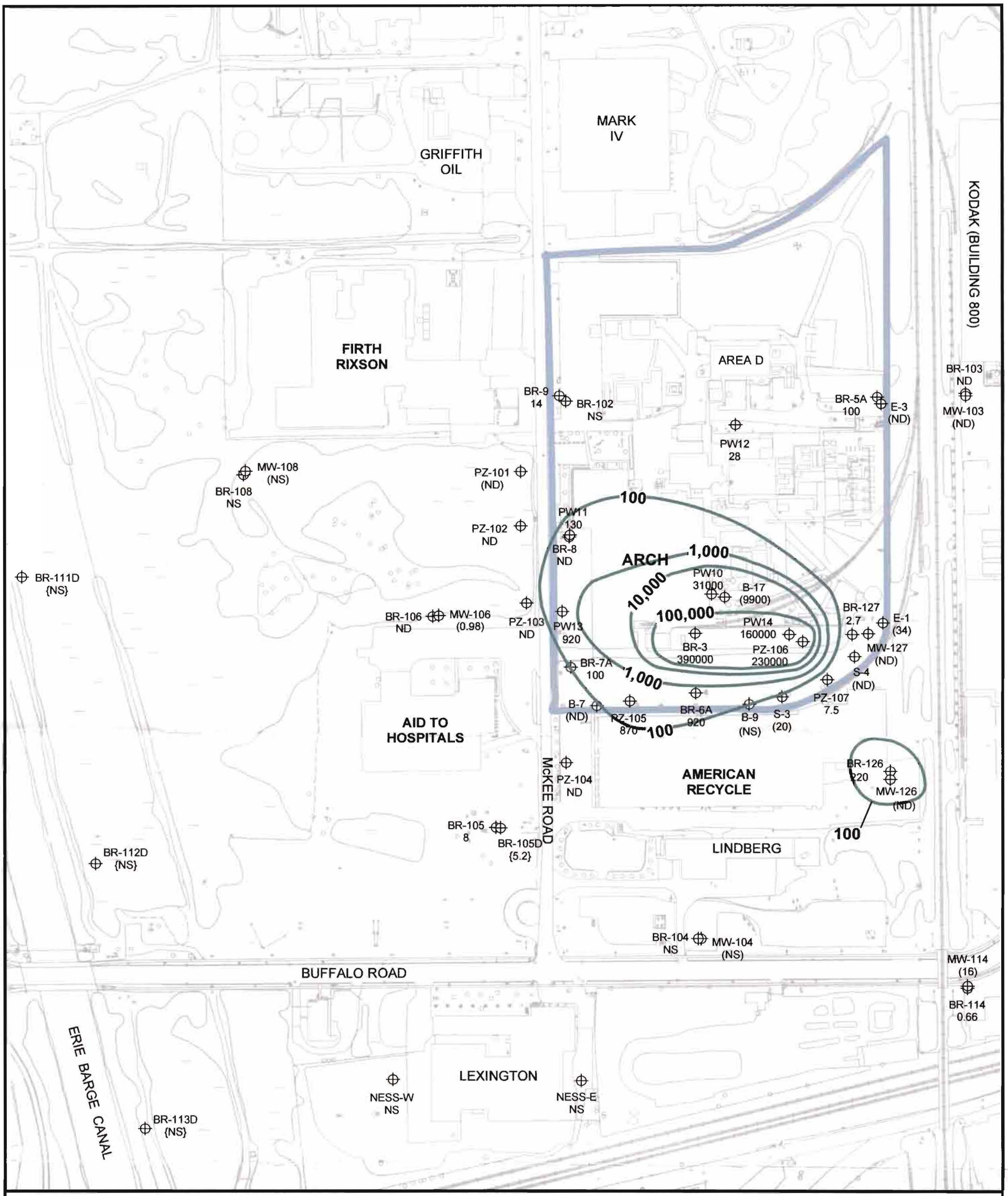
(Not to Scale)

FIGURE 7

SAMPLE LOCATIONS
DOLOMITE PRODUCTS
QUARRY

ARCH CHEMICALS
ROCHESTER, NEW YORK

W2004030a.cdr



Legend

- Outline of Arch Property Boundary
- —100— VOC Concentration Contour
- BR-113D {NS} ⊕ Monitoring Location with Concentration

{1000}	Deep Bedrock Well
(1000)	Overburden Well
1000	Bedrock Well
NS	Not Sampled
ND	Not Detected

NOTES:

1. Samples Collected in June, 2005
2. Selected VOCs consist of Carbon tetrachloride, Methylene chloride Chloroform, TCE, and PCE.
3. Concentration contours represented for Bedrock Wells and selected Overburden and Deep Bedrock Wells.
4. Dashed concentration contours represent inferences from historical analytical results.

0 100 200 Feet

N

Prepared by JJW | Checked by NMB

Figure 9
Spring 2005
Selected Volatile Organic Compound Concentration Contours

Arch Chemicals
Rochester, NY
MACTEC, Inc.

Document: P:\Projects\Arch\Rochester\GIS\MapDocuments\Spring2005\Arch_VOCs_Fig9.mxd PDF: P:\Projects\Arch\Rochester\GIS\Figures\Monitoring_Spring2005\Figure9.pdf 08/03/2005 4:31 PM jjwherren

TABLE 1
SPRING 2005 GROUNDWATER SAMPLING AND ANALYTICAL PROGRAM

ARCH CHEMICALS, INC
ROCHESTER, NEW YORK

			ANALYSIS	PYRIDINES	VOCs
SITE / AREA	WELL / POINT	DATE	QC TYPE		
AID TO HOSPITALS	BR-106	6/8/2005	Sample	X	X
	BR-108	6/14/2005	Sample	X	
	MW-106	6/8/2005	Sample	X	X
	PZ-101	6/13/2005	Sample	X	X
	PZ-102	6/13/2005	Sample	X	X
	PZ-103	6/13/2005	Sample	X	X
AMERICAN RECYCLE MANUF. (58 MCKEE ROAD)	PZ-104	6/13/2005	Duplicate	X	X
	PZ-104	6/13/2005	Sample	X	X
ARCH ROCHESTER	B-17	6/8/2005	Sample	X	X
	B-7	6/9/2005	Sample	X	X
	BR-126	6/15/2005	Sample	X	X
	BR-127	6/7/2005	Sample	X	X
	BR-3	6/7/2005	Sample	X	X
	BR-5A	6/9/2005	Sample	X	X
	BR-6A	6/7/2005	Sample	X	X
	BR-7A	6/9/2005	Sample	X	X
	BR-8	6/9/2005	Sample	X	X
	BR-9	6/9/2005	Sample	X	X
	E-1	6/8/2005	Sample	X	X
	E-3	6/8/2005	Sample	X	X
	MW-126	6/15/2005	Sample	X	X
	MW-127	6/7/2005	Sample	X	X
	PW10	6/9/2005	Sample	X	X
	PW11	6/9/2005	Sample	X	X
	PW12	6/9/2005	Sample	X	X
	PW13	6/9/2005	Sample	X	X
	PW14	6/9/2005	Sample	X	X
	PZ-105	6/7/2005	Sample	X	X
	PZ-106	6/8/2005	Sample	X	X
	PZ-107	6/7/2005	Sample	X	X
	S-3	6/8/2005	Sample	X	X
	S-4	6/8/2005	Sample	X	X
DOLOMITE PRODUCTS, INC.	BR-117D	6/8/2005	Sample	X	
	BR-118D	6/8/2005	Sample	X	
	QD-1	6/16/2005	Sample	X	
	QS-4	6/16/2005	Sample	X	X
EASTMAN KODAK (FORMERLY GERBER PROPERTY)	BR-103	6/7/2005	Sample	X	X
	MW-103	6/7/2005	Sample	X	X
ERIE BARGE CANAL	BR-112D	6/14/2005	Sample	X	
	BR-113D	6/13/2005	Sample	X	
	BR-122D	6/7/2005	Sample	X	
	BR-123D	6/7/2005	Sample	X	
	QO-2	6/16/2005	Sample	X	
	QO-2S1	6/16/2005	Sample	X	
JACKSON WELDING	BR-114	6/13/2005	Sample	X	X
	MW-114	6/13/2005	Sample	X	X
LEXINGTON MACHINING	NESS-E	6/15/2005	Sample	X	
	NESS-W	6/15/2005	Sample	X	
PFAUDLER, INC.	BR-116	6/13/2005	Sample	X	
	BR-116D	6/13/2005	Sample	X	
RG & E RIGHT OF WAY	BR-104	6/7/2005	Sample	X	
	BR-105	6/8/2005	Sample	X	X
	BR-105D	6/8/2005	Sample	X	X
	MW-104	6/7/2005	Sample	X	

TABLE 2
SPRING 2005 GROUNDWATER MONITORING RESULTS
CHLOROPYRIDINES

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	B-17		B-7		BR-103		BR-104		BR-105		BR-105D		BR-106		BR-108		BR-112D		BR-113D	
SAMPLE DATE:	06/08/05		06/09/05		06/07/05		06/07/05		06/08/05		06/08/05		06/08/05		06/14/05		06/14/05		06/13/05	
QC TYPE:	N		N		N		N		N		N		N		N		N		N	
BY SW-846 Method 8270C (µg/L)																				
2,6-Dichloropyridine	12000		390		9	U	9	U	140		73	J	340	J	4	J	4	J	9	U
2-Chloropyridine	150000		630		9	U	9	U	1100		1100		1300		55		18		27	
3-Chloropyridine	10000	U	50	U	9	U	9	U	100	U	100	U	500	U	9	U	9	U	9	U
4-Chloropyridine	10000	U	50	U	9	U	9	U	100	U	100	U	500	U	9	U	9	U	9	U
p-Fluoroaniline	10000	UJ	50	U	9	U	9	U	100	U	100	U	500	U	9	U	9	U	9	U
Pyridine	28000		120	U	24	U	24	U	250	U	250	U	1200	U	24	U	24	U	24	U

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

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

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Prepared by: NMB Checked by: JEB

TABLE 2
SPRING 2005 GROUNDWATER MONITORING RESULTS
CHLOROPYRIDINES

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	BR-114		BR-116		BR-116D		BR-117D		BR-118D		BR-122D		BR-123D		BR-126		BR-127		BR-3	
SAMPLE DATE:	06/13/05		06/13/05		06/13/05		06/08/05		06/08/05		06/07/05		06/07/05		06/15/05		06/07/05		06/07/05	
QC TYPE:	N		N		N		N		N		N		N		N		N		N	
BY SW-846 Method 8270C (µg/L)																				
2,6-Dichloropyridine	21		9	U	10	U	10	U	9	U	21		19		690	J	690		5000	U
2-Chloropyridine	68		9	U	10	U	6	J	70		130		120		8200		3000		3900	J
3-Chloropyridine	9	U	9	U	10	U	10	U	9	U	9	U	9	U	57		210	J	5000	U
4-Chloropyridine	9	U	9	U	10	U	10	U	9	U	9	U	9	U	9	U	9	U	5000	U
p-Fluoroaniline	9	U	9	U	10	U	10	U	9	U	9	U	9	U	20		17		5000	U
Pyridine	24	U	24	U	24	U	24	U	24	U	24	U	24	U	24	U	24	U	12000	U

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

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

TABLE 2
SPRING 2005 GROUNDWATER MONITORING RESULTS
CHLOROPYRIDINES

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	BR-5A		BR-6A		BR-7A		BR-8		BR-9		E-1		E-3		MW-103		MW-104		MW-106	
SAMPLE DATE:	06/09/05		06/07/05		06/09/05		06/09/05		06/09/05		06/08/05		06/08/05		06/07/05		06/07/05		06/08/05	
QC TYPE:	N		N		N		N		N		N		N		N		N		N	
BY SW-846 Method 8270C (µg/L)																				
2,6-Dichloropyridine	41	J	1000	U	900	J	75		26		4200		49		9	U	4	J	1000	
2-Chloropyridine	140		2400		2500	J	110		92		12000		140		9	U	9	U	2600	
3-Chloropyridine	50	U	1000	U	1000	U	9	U	9	U	1000	U	9	U	9	U	9	U	500	U
4-Chloropyridine	50	U	1000	U	1000	U	9	U	9	U	1000	U	9	U	9	U	9	U	500	U
p-Fluoroaniline	24	J	1000	U	1000	U	3	J	4	J	1000	U	9	U	9	U	9	U	500	U
Pyridine	120	U	2500	U	2500	U	24	U	24	U	2500	U	24	U	24	U	24	U	1200	U

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

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

TABLE 2
SPRING 2005 GROUNDWATER MONITORING RESULTS
CHLOROPYRIDINES

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	MW-114		MW-126		MW-127		NESS-E		NESS-W		PW10		PW11		PW12		PW13		PW14	
SAMPLE DATE:	06/13/05		06/15/05		06/07/05		06/15/05		06/15/05		06/09/05		06/09/05		06/09/05		06/09/05		06/09/05	
QC TYPE:	N		N		N		N		N		N		N		N		N		N	
BY SW-846 Method 8270C (µg/L)																				
2,6-Dichloropyridine	9	U	44		260		32		10	U	6000		170		950		300		3100	
2-Chloropyridine	9	U	19		770	J	210		5	J	52000		710		2000		1400		17000	
3-Chloropyridine	9	U	9	U	250	U	4	J	10	U	1700	J	50	U	110		100	U	360	
4-Chloropyridine	9	U	9	U	250	U	9	U	10	U	1000	J	50	U	100	U	100	U	90	J
p-Fluoroaniline	9	U	9	U	250	U	9	U	10	U	2000	U	15	J	590		100	U	100	U
Pyridine	24	U	24	U	620	U	24	U	24	U	5400		120	U	450		250	U	860	

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

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

TABLE 2
SPRING 2005 GROUNDWATER MONITORING RESULTS
CHLOROPYRIDINES

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	PZ-101		PZ-102		PZ-103		PZ-104		PZ-104		PZ-105		PZ-106		PZ-107		QD-1		QO-2	
SAMPLE DATE:	06/13/05		06/13/05		06/13/05		06/13/05		06/13/05		06/07/05		06/08/05		06/07/05		06/16/05		06/16/05	
QC TYPE:	N		N		N		D		N		N		N		N		N		N	
BY SW-846 Method 8270C (µg/L)																				
2,6-Dichloropyridine	52		470		870		240		290		500	J	3500		820		10	U	10	U
2-Chloropyridine	280		940		2000		1500		1800		2000		9800		4200		10	U	10	U
3-Chloropyridine	9	U	200	U	500	U	100	U	100	U	1000	U	1000	U	110		10	U	10	U
4-Chloropyridine	9	U	200	U	500	U	100	U	100	U	1000	U	1000	U	100	U	10	U	10	U
p-Fluoroaniline	8	J	200	U	500	U	100	U	100	U	1000	U	1000	U	100	U	10	U	10	U
Pyridine	24	U	500	U	1200	U	250	U	250	U	2500	U	930	J	250	U	24	U	24	U

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

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

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Prepared by: NMB Checked by: JEB

TABLE 2
SPRING 2005 GROUNDWATER MONITORING RESULTS
CHLOROPYRIDINES

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	QO-2S1		QS-4		S-3		S-4	
SAMPLE DATE:	06/16/05		06/16/05		06/08/05		06/08/05	
QC TYPE:	N		N		N		N	
BY SW-846 Method 8270C (µg/L)								
2,6-Dichloropyridine	10	U	35		2000		58	
2-Chloropyridine	10	U	130		4700		650	
3-Chloropyridine	10	U	10	U	100	U	9	
4-Chloropyridine	10	U	10	U	100	U	8	J
p-Fluoroaniline	10	U	10	U	100	U	9	U
Pyridine	24	U	24	U	250	U	24	U

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

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

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SPRING 2005 GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	B-17	B-7	BR-103	BR-105	BR-105D	BR-106	BR-114	BR-126	BR-127	BR-3
SAMPLE DATE:	06/08/05	06/09/05	06/07/05	06/08/05	06/08/05	06/08/05	06/13/05	06/15/05	06/07/05	06/07/05
QC TYPE:	N	N	N	N	N	N	N	N	N	N
VOLATILE ORGANIC COMPOUNDS										
BY SW-846 Method 8260/5ML (µg/L)										
1,1,1-Trichloroethane	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5000 U
1,1,2,2-Tetrachloroethane	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5000 U
1,1,2-Trichloroethane	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5000 U
1,1-Dichloroethane	500 U	5 U	5 U	0.77 J	5.8	5 U	5 U	5 U	5 U	5000 U
1,1-Dichloroethene	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5000 U
1,2-Dichloroethane	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5000 U
1,2-Dichloroethene (total)	1000 U	10 U	9.9 J	53	8.2 J	10 U	10 U	3.9 J	4.4 J	10000 U
1,2-Dichloropropane	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5000 U
2-Butanone	2500 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25000 U
2-Hexanone	2500 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25000 U
4-Methyl-2-pentanone	2500 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25000 U
Acetone	2500 U	25 U	25 U	25 U	25 U	10 J	25 U	25 U	25 U	25000 U
Benzene	500 U	1.1 J	5 U	2.4 J	8.4	20	5.2	6	4.5 J	5000 U
Bromodichloromethane	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5000 U
Bromoform	500 U	5 U	5 U	5 U	5 U	5 U	5 U	1.5 J	5 U	7500
Bromomethane	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5000 U
Carbon disulfide	160 J	5 U	5 U	5 U	5 U	5 U	5 U	7.8	0.89 J	42000
Carbon tetrachloride	160 J	5 U	5 U	2.2 J	5 U	5 U	5 U	200	5 U	100000
Chlorobenzene	61 J	14	5 U	4.2 J	5 U	160	5 U	0.75 J	1 J	5000 U
Chloroethane	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5000 U
Chloroform	8400	5 U	5 U	1.8 J	5.2	5 U	5 U	15	5 U	230000
Chloromethane	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	1400 J
cis-1,3-Dichloropropene	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5000 U
Dibromochloromethane	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	580 J
Ethylbenzene	500 U	5 U	5 U	5 U	1.3 J	5 U	5 U	5 U	0.64 J	5000 U
Methylene chloride	400 J	5 U	5 U	5 U	5 U	5 U	5 U	0.76 J	5 U	57000
Styrene	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5000 U
Tetrachloroethene	790	5 U	5 U	2.7 J	5 U	5 U	0.66 J	2.1 J	5 U	4400 J
Toluene	110 J	5 U	5 U	5 U	5 U	1.3 J	5 U	0.87 J	0.82 J	9700
Total Xylenes	1500 U	15 U	15 U	15 U	2.2 J	15 U	15 U	15 U	15 U	15000 U
trans-1,3-Dichloropropene	500 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5000 U
Trichloroethene	170 J	5 U	5 U	1.3 J	5 U	5 U	5 U	5 U	2.7 J	5000 U
Vinyl acetate	2500 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25000 U
Vinyl chloride	500 U	5 U	14	15	5 U	5 U	5 U	5.4	5 U	5000 U

Notes:

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

J = Estimated value.

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

SPRING 2005 GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	BR-5A	BR-6A	BR-7A	BR-8	BR-9	E-1	E-3	MW-103	MW-106	MW-114
SAMPLE DATE:	06/09/05	06/07/05	06/09/05	06/09/05	06/09/05	06/08/05	06/08/05	06/07/05	06/08/05	06/13/05
QC TYPE:	N	N	N	N	N	N	N	N	N	N
VOLATILE ORGANIC COMPOUNDS										
BY SW-846 Method 8260/5ML (µg/L)										
1,1,1-Trichloroethane	5 U	25 U	10 U	5 U	3.1 J	25 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	25 U	10 U	5 U	20 U	25 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	25 U	10 U	5 U	20 U	25 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	25 U	2 J	5 U	12 J	25 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	25 U	10 U	5 U	2.9 J	25 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	25 U	10 U	5 U	20 U	25 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	12	22 J	3.8 J	10 U	330	15 J	10 U	10 U	1.6 J	10 U
1,2-Dichloropropane	5 U	25 U	10 U	5 U	20 U	25 U	5 U	5 U	5 U	5 U
2-Butanone	25 U	120 U	50 U	25 U	100 U	120 U	25 U	25 U	25 U	25 U
2-Hexanone	25 U	120 U	50 U	25 U	100 U	120 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone	25 U	120 U	50 U	25 U	100 U	120 U	25 U	25 U	25 U	25 U
Acetone	4.1 J	120 U	50 U	25 U	24 J	130	25 U	25 U	25 U	25 U
Benzene	9.1	5.9 J	21	0.58 J	80	5.4 J	5 U	5 U	29	5 U
Bromodichloromethane	5 U	25 U	10 U	5 U	20 U	25 U	5 U	5 U	5 U	5 U
Bromoform	5 U	22 J	10 U	5 U	20 U	25 U	5 U	5 U	5 U	5 U
Bromomethane	5 U	25 U	10 U	5 U	20 U	25 U	5 U	5 U	5 U	5 U
Carbon disulfide	1 J	140	3.9 J	0.67 J	20 U	8.1 J	5 U	5 U	5 U	5 U
Carbon tetrachloride	5 U	320	4.4 J	5 U	20 U	25 U	5 U	5 U	5 U	5 U
Chlorobenzene	10	41	280	16	17 J	34	5 U	5 U	260	5 U
Chloroethane	5 U	25 U	10 U	5 U	20 U	25 U	5 U	5 U	5 U	5 U
Chloroform	26	500	76	5 U	5 J	21 J	5 U	5 U	5 U	6.9
Chloromethane	5 U	25 U	10 U	5 U	20 U	25 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	25 U	10 U	5 U	20 U	25 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5 U	25 U	10 U	5 U	20 U	25 U	5 U	5 U	5 U	5 U
Ethylbenzene	5 U	25 U	10 U	5 U	12 J	3.9 J	5 U	5 U	0.7 J	5 U
Methylene chloride	54	45	18	5 U	6 J	4.3 J	5 U	5 U	5 U	5 U
Styrene	5 U	25 U	10 U	5 U	20 U	25 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5 U	39	2 J	5 U	20 U	8.2 J	5 U	5 U	5 U	3.3 J
Toluene	4.4 J	53	7 J	5 U	3.9 J	4.7 J	5 U	5 U	2 J	5 U
Total Xylenes	15 U	75 U	30 U	15 U	60 U	75 U	15 U	15 U	2.1 J	15 U
trans-1,3-Dichloropropene	5 U	25 U	10 U	5 U	20 U	25 U	5 U	5 U	5 U	5 U
Trichloroethene	21	12 J	1.7 J	5 U	2.8 J	25 U	5 U	5 U	0.98 J	5.6
Vinyl acetate	25 U	120 U	50 U	25 U	100 U	120 U	25 U	25 U	25 U	25 U
Vinyl chloride	4.1 J	7.1 J	5 J	5 U	170	9.9 J	5 U	5 U	5 U	5 U

Notes:

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

J = Estimated value.

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

SPRING 2005 GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	MW-126	MW-127	PW10	PW11	PW12	PW13	PW14	PZ-101	PZ-102	PZ-103
SAMPLE DATE:	06/15/05	06/07/05	06/09/05	06/09/05	06/09/05	06/09/05	06/09/05	06/13/05	06/13/05	06/13/05
QC TYPE:	N	N	N	N	N	N	N	N	N	N
VOLATILE ORGANIC COMPOUNDS										
BY SW-846 Method 8260/5ML (µg/L)										
1,1,1-Trichloroethane	5 U	5 U	500 U	1.7 J	100 U	5 U	5 U	5 U	10 U	25 U
1,1,2,2-Tetrachloroethane	5 U	5 U	500 U	10 U	100 U	5 U	5 U	5 U	10 U	25 U
1,1,2-Trichloroethane	5 U	5 U	500 U	10 U	89 J	5 U	5 U	5 U	10 U	25 U
1,1-Dichloroethane	5 U	5 U	500 U	10	100 U	3.8 J	1.5 J	5 U	10 U	25 U
1,1-Dichloroethene	5 U	5 U	500 U	1.2 J	100 U	5 U	0.72 J	5 U	10 U	25 U
1,2-Dichloroethane	5 U	5 U	500 U	10 U	100 U	5 U	5 U	5 U	10 U	25 U
1,2-Dichloroethene (total)	10 U	10 U	1000 U	200	200 U	10	38	10 U	20 U	50 U
1,2-Dichloropropane	5 U	5 U	500 U	10 U	100 U	5 U	5 U	5 U	10 U	25 U
2-Butanone	25 U	25 U	2500 U	50 U	500 U	25 U	25 U	25 U	50 U	120 U
2-Hexanone	25 U	25 U	2500 U	50 U	500 U	25 U	25 U	25 U	50 U	120 U
4-Methyl-2-pentanone	25 U	25 U	2500 U	50 U	500 U	25 U	3.5 J	25 U	50 U	120 U
Acetone	25 U	25 U	580 J	50 U	500 U	25 U	82	25 U	50 U	120 U
Benzene	5 U	5 U	500 U	38	72 J	13	21	1.8 J	17	30 J
Bromodichloromethane	5 U	5 U	500 U	10 U	100 U	5 U	24	5 U	10 U	25 U
Bromoform	5 U	5 U	2700	10 U	100 U	5 U	2600	5 U	10 U	25 U
Bromomethane	5 U	5 U	500 U	10 U	100 U	5 U	5 U	5 U	10 U	25 U
Carbon disulfide	5 U	5 U	1100	10 U	170	0.9 J	18000	5 U	1.9 J	9.3 J
Carbon tetrachloride	5 U	5 U	16000	10 U	100 U	12	87000	5 U	10 U	25 U
Chlorobenzene	5 U	5 U	230 J	65	1200	67	21	11	330	610
Chloroethane	5 U	5 U	500 U	10 U	100 U	5 U	5 U	5 U	10 U	25 U
Chloroform	5 U	5 U	11000	120	12 J	720	71000	5 U	10 U	25 U
Chloromethane	5 U	5 U	500 U	10 U	100 U	5 U	70	5 U	10 U	25 U
cis-1,3-Dichloropropene	5 U	5 U	500 U	10 U	100 U	5 U	5 U	5 U	10 U	25 U
Dibromochloromethane	5 U	5 U	220 J	10 U	100 U	5 U	220 J	5 U	10 U	25 U
Ethylbenzene	5 U	5 U	500 U	4.1 J	140	0.71 J	0.56 J	5 U	10 U	25 U
Methylene chloride	5 U	5 U	1900	12	16 J	180	5 U	5 U	10 U	25 U
Styrene	5 U	5 U	500 U	10 U	100 U	5 U	2.6 J	5 U	10 U	25 U
Tetrachloroethene	5 U	5 U	1600	10 U	100 U	8.3	1500 J	5 U	10 U	25 U
Toluene	5 U	0.71 J	350 J	4 J	990	3.8 J	180 J	5 U	10 U	5.6 J
Total Xylenes	15 U	15 U	1500 U	3.4 J	1000	15 U	3.2 J	15 U	30 U	75 U
trans-1,3-Dichloropropene	5 U	5 U	500 U	10 U	100 U	5 U	5 U	5 U	10 U	25 U
Trichloroethene	5 U	5 U	91 J	2.4 J	100 U	1.9 J	21	5 U	10 U	25 UJ
Vinyl acetate	25 U	25 U	2500 U	50 U	500 U	25 U	25 U	25 U	50 U	120 U
Vinyl chloride	5 U	5 U	500 U	140	100 U	14	5 U	5 U	10 U	25 U

Notes:

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

J = Estimated value.

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

SPRING 2005 GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	PZ-104	PZ-104	PZ-105	PZ-106	PZ-107	QS-4	S-3	S-4
SAMPLE DATE:	06/13/05	06/13/05	06/07/05	06/08/05	06/07/05	06/16/05	06/08/05	06/08/05
QC TYPE:	D	N	N	N	N	N	N	N
VOLATILE ORGANIC COMPOUNDS BY SW-846 Method 8260/5ML (µg/L)								
1,1,1-Trichloroethane	5 U	5 U	5 U	10000 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	10000 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	10000 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	10000 U	5 U	5 U	2.1 J	5 U
1,1-Dichloroethene	5 U	5 U	5 U	10000 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	10000 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	10 U	10 U	1.2 J	20000 U	4.9 J	10 U	23	10 U
1,2-Dichloropropane	5 U	5 U	5 U	10000 U	5 U	5 U	5 U	5 U
2-Butanone	25 U	25 U	25 U	50000 U	25 U	25 U	25 U	25 U
2-Hexanone	25 U	25 U	25 U	50000 U	25 U	25 U	25 U	25 U
4-Methyl-2-pentanone	25 U	25 U	25 U	50000 U	25 U	25 U	25 U	25 U
Acetone	25 U	25 U	25 U	50000 U	25 U	25 U	25 U	25 U
Benzene	2.1 J	2 J	7.8	10000 U	3.9 J	5 U	4.3 J	5 U
Bromodichloromethane	5 U	5 U	5 U	10000 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	23	2700 J	5 U	5 U	5 U	5 U
Bromomethane	5 U	5 U	5 U	10000 U	5 U	5 U	5 U	5 U
Carbon disulfide	5 U	5 U	88	46000	3 J	5 U	0.99 J	5 U
Carbon tetrachloride	5 U	5 U	330	55000	2.9 J	5 U	0.55 J	5 U
Chlorobenzene	3.4 J	3.4 J	64	10000 U	2.2 J	5 U	34	0.77 J
Chloroethane	5 U	5 U	5 U	10000 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	490	170000	1.2 J	5 U	15	5 U
Chloromethane	5 U	5 U	5 U	10000 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	10000 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5 U	5 U	1.6 J	10000 U	5 U	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	10000 U	5 U	5 U	5 U	5 U
Methylene chloride	5 U	5 U	29	5200 J	5 U	5 U	0.78 J	5 U
Styrene	5 U	5 U	5 U	10000 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5 U	5 U	16	1800 J	0.99 J	5 U	2.4 J	5 U
Toluene	5 U	5 U	38	10000 U	0.66 J	5 U	0.66 J	5 U
Total Xylenes	15 U	15 U	15 U	30000 U	15 U	15 U	15 U	15 U
trans-1,3-Dichloropropene	5 U	5 U	5 U	10000 U	5 U	5 U	5 U	5 U
Trichloroethene	5 U	5 U	0.64 J	10000 U	2.4 J	5 U	0.86 J	5 U
Vinyl acetate	25 U	25 U	25 U	50000 U	25 U	25 U	25 U	25 U
Vinyl chloride	5 U	5 U	5 U	10000 U	5 U	5 U	26	5 U

Notes:

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

J = Estimated value.

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

TABLE 4
COMPARISON OF SPRING 2005
CHLOROPYRIDINES AND VOLATILE ORGANICS CONCENTRATIONS
IN GROUNDWATER TO PREVIOUS RESULTS (ug/L)

ARCH ROCHESTER
SEMI-ANNUAL GROUNDWATER MONITORING REPORT - AUGUST 2005

WELL	SELECTED CHLOROPYRIDINES				SELECTED VOCs			
	# EVENTS IN PRIOR 5 YRS	HISTORIC MAXIMUM	5-YEAR MEAN	JUNE-2005 RESULT	# EVENTS IN PRIOR 5 YRS	HISTORIC MAXIMUM	5-YEAR MEAN	JUNE-2005 RESULT
ON-SITE WELLS/LOCATIONS								
B-17	6	28,000,000	170,000	**190,000**	6	345,000	58,000	9920
B-7	6	9,100	2,700	1,020	6	91	58	ND
BR-127	1	1,500	1,500	**3,920**	1	2	2	**2.7**
BR-3	6	6,500,000	150,000	3,900	6	920,000	550,000	391000
BR-5A	10	1,700	510	205	10	9,400	95	**101**
BR-6A	10	144,500	33,000	2,400	10	26,000	7,100	916
BR-7A	10	510,000	21,000	3,400	10	3,000	280	102
BR-8	6	57,000	13,000	188	6	6,900	4.3	ND
BR-9	9	720	320	122	9	160	41	13.8
E-1	9	171,680	50,000	16,200	9	5,300	470	33.5
E-3	6	600	62	**189**	6	12,000	87	ND
MW-127	1	15,000	15,000	1,030	1	180	180	ND
PW10	10	171,400	79,000	66,100	10	120,000	33,000	30600
PW11	9	27,000	5,000	895	10	30,000	7,100	134
PW12	10	15,000	3,100	**4,100**	10	120,000	4,100	28
PW13	1	NA	7,500	1,700	1	NA	ND	922
PW14*	0	NA	NA	21,410	0	NA	NA	159500
PZ-105	6	190,000	17,000	2,500	6	9,700	1,400	866
PZ-106	6	120,000	45,000	14,230	6	1,359,000	880,000	232000
PZ-107	10	11,000	2,600	**5,130**	10	12,000	590	7.49
S-3	9	18,240	8,200	6,700	9	2,500	520	19.6
S-4	9	3,200	820	725	9	870	100	ND
OFF-SITE WELLS/LOCATIONS								
BR-103	6	400	9.8	ND	6	1	0.45	ND
BR-104	6	3,100	2	ND	3	9	ND	
BR-105	10	24,000	1,300	1,240	10	310	6	**8**
BR-105D	10	10,000	2,300	1,170	10	230	5.9	5.2
BR-106	10	21,000	9,100	1,640	11	6,300	330	ND
BR-108	6	1,700	7.7	**59**	3	ND	0.0	
BR-112D	6	310	53	22	3	4.3	0.43	
BR-113D	6	490	76	27		2.8		
BR-114	6	521	230	89	6	5	3.2	0.66
BR-116	5	12	0.0	ND		84		
BR-116D	5	710	94	ND		120		
BR-117D	5	80	23	6		1.9		
BR-118D	5	330	91	70		6.6		
BR-122D	5	650	210	151		ND		
BR-123D	5	860	410	139		4		
BR-126*	0	NA	NA	8,970	0	NA	NA	218
MW-103	6	82	4.3	ND	6	ND	120	ND
MW-104	6	180	1.6	**4**	3	1	ND	
MW-106	10	130,000	14,000	3,600	10	453	46	0.98
MW-114	6	18	0.33	ND	6	19	14	**15.8**
MW-126*	0	NA	NA	63	0	NA	NA	ND
MW-16	4	360	230		NA	NA		

Prepared by: NMB
Checked by: JEB

TABLE 4
COMPARISON OF SPRING 2005
CHLOROPYRIDINES AND VOLATILE ORGANICS CONCENTRATIONS
IN GROUNDWATER TO PREVIOUS RESULTS (ug/L)

ARCH ROCHESTER
SEMI-ANNUAL GROUNDWATER MONITORING REPORT - AUGUST 2005

WELL	SELECTED CHLOROPYRIDINES				SELECTED VOCs			
	# EVENTS IN PRIOR 5 YRS	HISTORIC MAXIMUM	5-YEAR MEAN	JUNE-2005 RESULT	# EVENTS IN PRIOR 5 YRS	HISTORIC MAXIMUM	5-YEAR MEAN	JUNE-2005 RESULT
NESS-E	6	5,000	430	246	3	700	ND	
NESS-W	6	2,100	240	5	3	89	0.37	
PZ-101	10	27,000	1,300	340	10	6.1	0.77	ND
PZ-102	10	58,000	7,000	1,410	10	10,000	2.2	ND
PZ-103	10	73,000	25,000	2,870	11	44,300	7,200	ND
PZ-104	10	9,100	3,900	2,090	10	40	1.1	ND
QD-1	1	ND	ND	ND				
QO-2	13	380	36	ND	10	ND	ND	
QO-2S1	13	27	0.038	ND	7	ND	ND	
QS-4	15	3,400	510	165	11	ND	ND	ND

Note:

1) Number of samples and mean reflect 5-year sampling period from June 2000 through November 2004. Historic maximum based on all available results from March 1990 through November 2004
2) Chloropyridines represented by: 2-Chloropyridine, 2,6-Dichloropyridine, and 3-Chloropyridine, 4-Chloropyridine, p-Fluoroaniline, and Pyridine.
3) Selected VOCs represented by Carbon Tetrachloride, Chloroform, Methylene Chloride, Tetrachloroethene, and Trichloroethene.
4) **Bold and shade** - June 2005 exceeds 5-year mean.
5) NA = Not analyzed or not applicable
   ND = Not detected
   BLANK = Not sampled

* - First sampling event for newly installed wells BR-126, MW-126, and PW14.

Prepared by: NMB
Checked by: JEB

TABLE 5
SPRING 2005 QUARRY SEEP AND OUTFALL WATER SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION	QD-1		QO-2		QO-2S1		QS-4	
DATE	6/16/2005		6/16/2005		6/16/2005		6/16/2005	
SAMPLE ID	QD-1		QO-2		QO-2S1		QS-4	
VOLATILE ORGANIC COMPOUNDS BY SW-846 Method 8260/5ML (µg/L)								
1,1,1-Trichloroethane							5	U
1,1,2,2-Tetrachloroethane							5	U
1,1,2-Trichloroethane							5	U
1,1-Dichloroethane							5	U
1,1-Dichloroethene							5	U
1,2-Dichloroethane							5	U
1,2-Dichloroethene (total)							10	U
1,2-Dichloropropane							5	U
2-Butanone							25	U
2-Hexanone							25	U
4-Methyl-2-pentanone							25	U
Acetone							25	U
Benzene							5	U
Bromodichloromethane							5	U
Bromoform							5	U
Bromomethane							5	U
Carbon disulfide							5	U
Carbon tetrachloride							5	U
Chlorobenzene							5	U
Chloroethane							5	U
Chloroform							5	U
Chloromethane							5	U
cis-1,3-Dichloropropene							5	U
Dibromochloromethane							5	U
Ethylbenzene							5	U
Methylene chloride							5	U
Styrene							5	U
Tetrachloroethene							5	U
Toluene							5	U
Total Xylenes							15	U
trans-1,3-Dichloropropene							5	U
Trichloroethene							5	U
Vinyl acetate							25	U
Vinyl chloride							5	U
SELECTED CHLOROPYRIDINES BY SW-846 Method 8270C (µg/L)								
2,6-Dichloropyridine	10	U	10	U	10	U	35	
2-Chloropyridine	10	U	10	U	10	U	130	
3-Chloropyridine	10	U	10	U	10	U	10	U
4-Chloropyridine	10	U	10	U	10	U	10	U
p-Fluoroaniline	10	U	10	U	10	U	10	U
Pyridine	24	U	24	U	24	U	24	U

Notes:

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

J = Estimated value.

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Prepared by: NMB Checked by: JEB

TABLE 6
EXTRACTION WELL WEEKLY FLOW MEASUREMENTS - DECEMBER 2004 THROUGH MAY 2005

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

Week Ending	BR-5A [Gal./Week]	BR-7A [Gal./Week]	BR-9 [Gal./Week]	PW-10 [Gal./Week]	PW-11 [Gal./Week]	PW-12 [Gal./Week]	PW-13 [Gal./Week]	PW-14 [Gal./Week]	Total [Gal.]
Dec. '04									
12/06/04	60,365	52,766	66,800	39,004	21,855	28,875			269,665
12/13/04	60,370	52,863	62,733	33,890	26,996	27,560			264,412
12/20/04	52,026	60,329	58,210	27,070	10,201	24,503			232,339
12/27/04	58,748	76,059	54,347	28,190	13,208	25,272 *			255,824
								Total [Gal.]	1,022,240
Jan. '05									
01/03/05	24,549	26,131	14,025	9,705	13,822	12,877			101,109
01/10/05	59,996	36,771	53,068	23,920	29,536	24,381			227,672
01/17/05	64,029	43,966	54,233	23,550	28,652	25,319			239,749
01/24/05	53,658	51,231	49,996	15,112	26,607	23,086			219,690
01/31/05	53,733	34,654	54,168	17,388	30,693	20,817			211,453
								Total [Gal.]	788,220
Feb. '05									
02/07/05	53,127	28,377	55,430	16,050	32,705	22,197			207,886
02/14/05	56,040	32,825	57,269	21,790	33,278	20,559			221,761
02/21/05	63,651	63,384	58,543	18,720	30,409	20,175			254,882
02/28/05	60,723	58,293	57,102	16,930	29,831	19,850			242,729
								Total [Gal.]	927,258
Mar. '05									
03/07/05	59,061	51,004	56,548	15,140 *	30,468	19,639			231,860
03/14/05	56,582	39,802	56,579	12,570	29,747	19,200			214,480
03/21/05	63,571	28,465	55,857	12,230	32,919	18,861			211,903
03/28/05	65,249	43,980	55,402	11,360	32,685	18,551			227,227
								Total [Gal.]	885,470
Apr. '05									
04/04/05	65,396	64,142	55,025	11,100	31,600	17,931			245,194
04/11/05	69,186	49,258	47,275	11,200	35,689	17,777			230,385
04/18/05	63,345	42,123	48,666	10,080	36,307	17,592			218,113
04/25/05	66,612	51,656	51,656	8,980	36,915 *	20,992			236,811
								Total [Gal.]	930,503
May '05									
05/02/05	67,831	44,990	62,568	9,270	37,800 *	23,341			245,800
05/09/05	61,781	39,937	53,832	2,060	37,800 *	15,415	33,242 *		244,067
05/16/05	54,038	38,527	66,690	8,170	48,954	9,618	67,612 *	19,113	312,722
05/23/05	40,365 *	45,498	71,851	6,150	49,178	6,853	69,299	34,982	324,176
05/30/05	36,648 *	54,970	71,915	4,600	47,196	5,633	65,693	28,382	315,037
								Total [Gal.]	1,441,801
Total 6 Mo. Removal (Gal.)	1,490,680	1,212,001	1,449,788	414,229	815,051	506,874	235,846	82,477	6,206,945

Notes:
1) * - Flow rate is estimated due to a meter failure

Prepared by: NMB Checked by: JEB

TABLE 7

MASS REMOVAL SUMMARY
PERIOD: DECEMBER 2004 - MAY 2005

ARCH ROCHESTER
SPRING 2005 GROUNDWATER MONITORING REPORT

Well	Total Vol. Pumped (gallons)	Avg. VOC Conc. (ppm)	Avg. PYR. Conc. (ppm)	VOCs Removed (pounds)	PYR. Removed (pounds)
BR-5A	1,491,000	0.058	0.22	0.71	2.8
BR-7A	1,212,000	0.073	8	0.73	84
BR-9	1,450,000	0.007	0.15	0.085	1.8
PW-10	414,000	23	119	78	410
PW-11	815,000	0.073	0.8	0.50	5.4
PW-12	507,000	0.321	3.0	1.4	13
PW-13	236,000	0.922	1.7	1.8	3.3
PW-14	82,000	159.5	21.4	109	15
Totals:	6,207,000			192	534

Note: VOC and pyridine concentrations used in this table are an average of the analytical results from the Fall 2004 and Spring 2005 sampling events for each well (except for new wells PW13 & PW14)

Prepared by: NMB Checked by: JEB

TABLE 8
2005/2006 SAMPLING SCHEDULE
ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

ARCH ROCHESTER						2005				2006	
MONITORING PROGRAM						SPRING		FALL		SPRING	
	Well	*zone*	*area*	*Frequency/Parameters*	*Purpose*	*Pyridines*	*VOCs*	*Pyridines*	*VOCs*	*Pyridines*	*VOCs*
OFF-SITE WELLS	MW-103	OB	KODAK EAST	annual monitoring, VOCs & PYR	trend monitoring	1	1				
	BR-103	BR	KODAK EAST	annual monitoring, VOCs & PYR	trend monitoring	1	1				
	MW-125	OB	KODAK EAST	semi-annual monitoring, VOCs & PYR	trend monitoring			1	1	1	1
	BR-125	BR	KODAK EAST	semi-annual monitoring, VOCs & PYR	trend monitoring			1	1	1	1
	MW-104	OB	BUFFALO RD	annual monitoring, PYR	trend monitoring	1					
	BR-104	BR	BUFFALO RD	annual monitoring, PYR	trend monitoring	1					
	BR-105	BR	AID-HOSP	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1			1	1
	BR-105D	BR deep	AID-HOSP	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1			1	
	MW-106	OB	AID-HOSP	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1			1	
	BR-106	BR	AID-HOSP	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1			1	
	BR-108	BR	AID-HOSP	annual monitoring, PYR	trend monitoring	1					
	BR-112D	BR deep	NYSDOT	annual monitoring, PYR	trend monitoring	1					
	BR-113D	BR deep	NYSDOT	annual monitoring, PYR	trend monitoring	1					
	MW-114	OB	JACKSON	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	1
	BR-114	BR	JACKSON	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	
	BR-116	BR	PFAUDLER	annual monitoring, PYR	trend monitoring	1					
	BR-116D	BR deep	PFAUDLER	annual monitoring, PYR	trend monitoring	1					
	BR-117D	BR deep	QUARRY	annual monitoring, PYR	trend monitoring	1				1	
	BR-118D	BR deep	QUARRY	annual monitoring, PYR	trend monitoring	1				1	
	BR-122D	BR deep	QUARRY	annual monitoring, PYR	trend monitoring	1				1	
	BR-123D	BR deep	QUARRY	annual monitoring, PYR	trend monitoring	1				1	
	NESS-E	BR deep	NESS	annual monitoring, PYR	trend monitoring	1				1	
	NESS-W	BR deep	NESS	annual monitoring, PYR	trend monitoring	1					
	PZ-101	BR	McKee Rd	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1			1	
	PZ-102	BR	McKee Rd	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1			1	
	PZ-103	BR	McKee Rd	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1			1	1
	PZ-104	BR	ALH	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1			1	
	MW-126	OB	ALH	semi-annual monitoring, VOCs & PYR	trend monitoring	1	1			1	1
	BR-126	BR	ALH	semi-annual monitoring, VOCs & PYR	trend monitoring	1	1	1	1	1	1
	MW-16	BR	Gen'l Circuits	annual monitoring, PYR	trend monitoring					1	
ON-SITE WELLS	PZ-107	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1			1	1
	PZ-106	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	trend monitoring	1	1			1	1
	PZ-105	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	trend monitoring	1	1			1	1
	BR-127	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	1	1
	BR-3	BR	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	1
	BR-8	BR	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	
	BR-9	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	1	1
	BR-5A	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	1	1
	BR-6A	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1			1	1
	BR-7A	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	1	1
	B-17	OB	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	1
	B-7	OB	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	
	S-3	OB	ON-SITE	semi-annual monitoring, VOCs & PYR	continue until replaced by trench	1	1			1	1
	S-4	OB	ON-SITE	semi-annual monitoring, VOCs & PYR	continue until replaced by trench	1	1			1	1
	E-1	OB	ON-SITE	semi-annual monitoring, VOCs & PYR	continue until replaced by trench	1	1			1	1
	E-3	OB	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	1
	MW-127	OB	ON-SITE	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	1	1
	PW10	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	1	1
	PW11	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	1	1
	PW12	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1			1	1
	PW13	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	1	1
	PW14	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	1	1
QUARRY & CANAL	QS-4	quarry seep	QUARRY	semi-annual monitoring, VOCs & PYR	trend monitoring	1	1			1	
	QD-1	quarry outfall	DITCH	temporary monitoring	risk evaluation/SPDES Permit	1				1	
	QO-2	quarry outfall	DITCH	semi-annual monitoring, VOCs & PYR	trend monitoring	1					
	QO-2S1	canal at outfall	CANAL	semi-annual monitoring, VOCs & PYR	surface water monitoring	1					
TOTAL SAMPLES						53	37	12	12	44	27

Revised: 07/26/05 (New Monitoring Program)

Prepared by: NMB Checked by: JEB

Appendix A

Groundwater Field Sampling Data Sheets

SEVERN TRENT STL

FIELD REPORT

REMEDIAL INVESTIGATION SAMPLING
ARCH CHEMICAL
ROCHESTER, NEW YORK

SPRING 2005 Event

Prepared For:

Harding Lawson Associates
511 Congress Street
Portland, Maine 04112-7050

Attention: Mr. Nelson Breton

Prepared By:

SEVERN TRENT LABORATORIES, INC.
Audubon Business Center
10 Hazelwood Drive
Amherst, New York 14228-2298

NY5A5762

Written By: Roger Senf

Reviewed By:

Date: 7-08-05

1.0 INTRODUCTION

This report describes the sampling of the following points:

- Fourty-nine (49) groundwater samples
- One (1) barge canal sample
- Two (2) quarry outfall samples
- One (1) quarry seep/pond sample

These activities were in support of the Phase II Remediation Investigation being conducted at the Arch Chemical facility in Rochester, New York. The samples were collected from June 6 – June 16, 2005 by Severn Trent Laboratories, Inc. (STL) personnel.

2.0 METHODOLOGIES

2.1 Water Level Measurements

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

2.2 Well Purging

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

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

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

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

2.3 Surface Water Samples

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

3.0 SAMPLING

3.1 Monitoring Wells

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

3.2 Canal Sampling

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

3.3 Seep Sampling

Groundwater samples were collected from seeps at the quarry (QS4) located on Buffalo Road. The samples were collected with the use of a laboratory cleaned stainless steel bucket and was then poured directly into the appropriate containers. An additional container was collected to facilitate the measurement of field parameters. Data pertaining to this sampling is presented in the Sampling Summary Table and Field Observation Forms.

4.0 SAMPLE CONTAINERS

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

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

5.0 FIELD MEASUREMENTS

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

6.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

6.1 Trip Blanks

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

6.2 Equipment Rinse Blank

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

7.0 CHAIN OF CUSTODY

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

Sampling Summary Table
HARDING LAWSON ASSOCIATES
JUNE 2005
RI SAMPLING/ROCHESTER NY FACILITY

Sample Point	Water Level Date	Water Level Time	Water Level (ft)*	Water Elevation (ft)**	Bottom Of Well (ft)*	Field Measurements Date	Field Measurements Time	pH (STD) (Units)	Spec. Cond. (umhos)	Temp (°C)	Turb. (NTU)	Other Field Measurements	
B-17	06/08/2005	1305	6.78	N/A	N/A	06/08/2005	1330	8.50	7610	17.8	8.21	EH(mv)= -181	DO(ppm)= 0.90
	Comments: CLEAR AMBER												
B-7	06/09/2005	1122	13.12	N/A	20.90	06/09/2005	1150	6.95	1484	19.4	12.20	EH(mv)= -45	DO(ppm)= 0.96
	Comments: CLEAR												
BR-103	06/07/2005	1325	6.51	N/A	N/A	06/07/2005	1350	8.32	1350	14.6	8.03	EH(mv)= -272	DO(ppm)= 0.10
	Comments: CLEAR												
BR-104	06/07/2005	1440	9.95	N/A	N/A	06/07/2005	1515	8.28	657	16.0	107.00	EH(mv)= -266	DO(ppm)= 0.73
	Comments: SL.TURBID												
BR-105	06/08/2005	1435	23.04	N/A	N/A	06/08/2005	1505	6.51	2010	13.4	9.39	EH(mv)= -283	DO(ppm)= 0.33
	Comments: CLEAR												
BR-105D	06/08/2005	1420	24.41	N/A	N/A	06/08/2005	1445	6.58	11740	17.8	2.16	EH(mv)= -371	DO(ppm)= 0.16
	Comments: CLEAR												
BR-106	06/08/2005	1250	23.40	N/A	N/A	06/08/2005	1320	6.37	2910	15.9	67.10	EH(mv)= 48	DO(ppm)= 0.64
	Comments: SL.TURBID												
BR-108	06/13/2005	1359	24.50	N/A	29.75	06/14/2005	1345	7.32	1712	17.2	200.00	EH(mv)= -116	
	Comments: SL.TURBID/ORANGE												
BR-112D	06/14/2005	1150	36.63	N/A	N/A	06/14/2005	1225	7.05	1582	14.6	5.47	EH(mv)= -173	DO(ppm)= 0.20
	Comments: CLEAR												
BR-113D	06/13/2005	1215	31.65	N/A	N/A	06/13/2005	1250	6.87	2460	13.2	2.87	EH(mv)= -314	DO(ppm)= 0.13
	Comments: CLEAR												
BR-114	06/13/2005	1400	13.53	N/A	N/A	06/13/2005	1430	6.69	1780	15.1	7.15	EH(mv)= -278	DO(ppm)= 0.08
	Comments: CLEAR												
BR-116	06/13/2005	1135	27.07	N/A	N/A	06/13/2005	1205	6.58	2870	19.3	10.35	EH(mv)= -16	DO(ppm)= 0.17
	Comments: CLEAR												
BR-116D	06/13/2005	1040	36.14	N/A	N/A	06/13/2005	1115	9.36	853	18.3	43.10	EH(mv)= -70	DO(ppm)= 0.18
	Comments: SL.TURBID												
BR-117D	06/08/2005	1130	49.91	N/A	N/A	06/08/2005	1210	8.13	539	11.6	15.90	EH(mv)= 155	DO(ppm)= 0.99
	Comments: CLEAR												
BR-118D	06/08/2005	1012	48.98	N/A	N/A	06/08/2005	1105	9.18	1720	13.3	17.80	EH(mv)= -76	DO(ppm)= 2.81
	Comments: CLEAR												
BR-122D	06/07/2005	1040	45.10	N/A	N/A	06/07/2005	1125	6.89	2400	13.4	5.28	EH(mv)= -270	DO(ppm)= 0.35
	Comments: CLEAR												

SG - Specific Gravity
EH - Redox
DO - Dissolved Oxygen

* From Top of Riser
** Elevation Above Sea Level

Sampling Summary Table
HARDING LAW ASSOCIATES
JUNE 2005
RI SAMPLING/ROCHESTER NY FACILITY

Sample Point	Water Level Date	Water Level Time	Water Level (ft)*	Water Elevation (ft)**	Bottom Of Well (ft)*	Field Measurements Date	Field Measurements Time	pH (STD) (Units)	Spec. Cond. (umhos)	Temp (°C)	Turb. (NTU)	Other Field Measurements
BR-123D	06/07/2005	1150	45.70	N/A	N/A	06/07/2005	1230	7.03	1690	12.2	17.30	EH(mv)= -323 DO(ppm)= 0.33
	Comments: CLEAR											
BR-126	06/15/2005	1025	7.88	N/A	45.45	06/15/2005	1100	7.12	1930	14.1	49.90	EH(mv)= -90 DO(ppm)= 0.23
	Comments: CLEAR											
BR-127	06/07/2005	1140	4.29	N/A	50.63	06/07/2005	1210	7.96	3182	16.1	5.19	EH(mv)= -161 DO(ppm)= 0.95
	Comments: CLEAR BLACK SPECKS											
BR-3	06/07/2005	1220	9.03	N/A	23.25	06/07/2005	1245	7.16	15410	14.5	10.10	EH(mv)= -87 DO(ppm)= 0.93
	Comments: CLEAR YELLOW TINT											
BR-5A	06/09/2005	1250	29.41	N/A	N/A	06/09/2005	1253	7.87	1434	19.8	8.60	EH(mv)= -71
	Comments: CLEAR 3.84 G.P.M.											
BR-6A	06/07/2005	1302	10.32	N/A	N/A	06/07/2005	1325	8.13	3100	19.0	3.19	EH(mv)= -133 DO(ppm)= 1.40
	Comments: CLEAR BLACK TINT											
BR-7A	06/09/2005	1205	20.33	N/A	N/A	06/09/2005	1209	7.13	2763	18.2	33.20	EH(mv)= -148
	Comments: SL.TURBID GREY											
BR-8	06/09/2005	1037	8.97	N/A	31.74	06/09/2005	1100	7.43	3110	17.3	17.70	EH(mv)= -143 DO(ppm)= 0.95
	Comments: CLEAR											
BR-9	06/09/2005	1230	31.87	N/A	N/A	06/09/2005	1233	7.42	2645	20.8	271.00	EH(mv)= -104
	Comments: TURBID ORANGE/ 6.57 G.P.M.											
E-1	06/08/2005	1148	1.87	N/A	N/A	06/08/2005	1210	8.17	10040	20.4	11.30	EH(mv)= -63 DO(ppm)= 0.90
	Comments: CLEAR BLACK TINT											
E-3	06/07/2005	1040	8.98	N/A	12.05	06/08/2005	1022	7.11	2638	15.6	5.75	EH(mv)= 17 DO(ppm)= 00000
	Comments: CLEAR											
MW-103	06/07/2005	1245	1.49	N/A	N/A	06/07/2005	1320	7.22	603	19.0	5.97	EH(mv)= -286 DO(ppm)= 0.30
	Comments: CLEAR											
MW-104	06/07/2005	1420	7.95	N/A	N/A	06/07/2005	1530	6.82	1220	12.8	147.00	EH(mv)= -243 DO(ppm)= 0.36
	Comments: SL.TURBID											
MW-106	06/08/2005	1330	9.81	N/A	N/A	06/08/2005	1400	6.51	2610	11.5	54.00	EH(mv)= 31 DO(ppm)= 0.43
	Comments: SL.TURBID											
MW-114	06/13/2005	1320	10.72	N/A	N/A	06/13/2005	1350	7.01	1890	16.7	8.32	EH(mv)= -237 DO(ppm)= 1.74
	Comments: CLEAR											
MW-126	06/15/2005	1115	5.58	N/A	13.40	06/15/2005	1145	7.07	1720	15.8	34.30	EH(mv)= 4 DO(ppm)= 2.37
	Comments: CLEAR											

SG - Specific Gravity
EH - Redox
DO - Dissolved Oxygen

* From Top of Riser
** Elevation Above Sea Level

Sampling Summary Table
HARDING LAW ASSOCIATES
JUNE 2005
RI SAMPLING/ROCHESTER NY FACILITY

Sample Point	Water Level Date	Water Level Time	Water Level (ft)*	Water Elevation (ft)**	Bottom Of Well (ft)*	Field Measurements Date	Field Measurements Time	pH (STD) (Units)	Spec. Cond. (umhos)	Temp (°C)	Turb. (NTU)	Other Field Measurements	
MW-127	06/07/2005	1100	4.85	N/A	11.25	06/07/2005	1130	7.69	1935	16.2	1.13	EH(mv)= 20	DO(ppm)= 0.92
	Comments: CLEAR												
NESS-E	06/15/2005	1305	18.80	N/A	N/A	06/15/2005	1335	6.47	3700	16.8	33.60	EH(mv)= -2	DO(ppm)= 0.32
	Comments: CLEAR												
NESS-W	06/15/2005	1210	32.20	N/A	N/A	06/15/2005	1240	6.86	2670	18.6	20.60	EH(mv)= -72	DO(ppm)= 0.28
	Comments: CLEAR												
PW-10	06/09/2005	1305	0.00	N/A	N/A	06/09/2005	1308	8.22	7725	22.4	19.50	EH(mv)= -140	
	Comments: CLEAR AMBER/COULD NOT ACCESS MATERIAL HOPPER ON WELL												
PW-11	06/09/2005	1030	28.13	N/A	N/A	06/09/2005	1032	8.40	5045	19.2	12.30	EH(mv)= -112	
	Comments: CLEAR												
PW-12(BR-101)	06/09/2005	1240	7.32	N/A	N/A	06/09/2005	1242	7.48	4612	33.5	15.72	EH(mv)= -200	
	Comments: YELLOW TINT CLEAR												
PW-13	06/09/2005	1215	27.66	N/A	N/A	06/09/2005	1218	7.62	2043	19.1	7.84	EH(mv)= -175	
	Comments: CLEAR												
PW-14	06/09/2005	1315	34.03	N/A	N/A	06/09/2005	1318	8.54	4398	17.4	25.50	EH(mv)= -157	
	Comments: YELLOW TINT												
PZ-101	06/13/2005	1122	12.88	N/A	21.69	06/13/2005	1145	7.01	3882	20.2	2.69	EH(mv)= -36	DO(ppm)= 0.96
	Comments: CLEAR												
PZ-102	06/13/2005	1216	12.25	N/A	32.60	06/13/2005	1240	7.33	3910	16.3	0.89	EH(mv)= -44	DO(ppm)= 0.87
	Comments: CLEAR												
PZ-103	06/13/2005	1302	12.44	N/A	32.52	06/13/2005	1325	7.29	3360	16.6	1.65	EH(mv)= -166	DO(ppm)= 1.42
	Comments: CLEAR												
PZ-104	06/13/2005	1028	12.83	N/A	23.13	06/13/2005	1050	6.99	1920	15.2	1.97	EH(mv)= -93	DO(ppm)= 0.95
	Comments: CLEAR												
PZ-104	06/13/2005	1028	12.83	N/A	23.13	06/13/2005	1052	7.01	1920	15.2	1.94	EH(mv)= -94	DO(ppm)= 0.93
	Comments: CLEAR/FIELD DUP												
PZ-105	06/07/2005	1338	8.87	N/A	32.86	06/07/2005	1400	7.90	1247	18.4	90.20	EH(mv)= -170	DO(ppm)= 0.90
	Comments: SL.TURBID GREY												
PZ-106	06/08/2005	1227	14.91	N/A	27.90	06/08/2005	1250	6.75	4110	17.1	12.10	EH(mv)= -173	DO(ppm)= 0.90
	Comments: CLEAR YELLOW TINT												
PZ-107	06/07/2005	1419	6.73	N/A	27.90	06/07/2005	1440	7.36	3675	13.4	0.97	EH(mv)= -122	DO(ppm)= 0.90
	Comments: CLEAR												

SG - Specific Gravity
EH - Redox
DO - Dissolved Oxygen

* From Top of Riser
** Elevation Above Sea Level

Sampling Summary Table
HARDING LAW ASSOCIATES
JUNE 2005
RI SAMPLING/ROCHESTER NY FACILITY

Sample Point	Water Level Date	Water Level Time	Water Level (ft)*	Water Elevation (ft)**	Bottom Of Well (ft)*	Field Measurements Date	Field Measurements Time	pH (STD) (Units)	Spec. Cond. (umhos)	Temp (°C)	Turb. (NTU)	Other Field Measurements
QD-1	06/16/2005	1230	0.00	N/A	N/A	06/16/2005	1235	7.44	1838	17.5	N/A	EH(mv)= 86
	Comments: CLEAR											
QO-2	06/16/2005	1300	0.00	N/A	N/A	06/16/2005	1305	7.98	1713	18.4	N/A	EH(mv)= 86
	Comments: CLEAR											
QO-2S1	06/16/2005	1315	0.00	N/A	N/A	06/16/2005	1320	7.92	492	23.2	N/A	EH(mv)= 81
	Comments: CLEAR											
QS-4	06/16/2005	1205	0.00	N/A	N/A	06/16/2005	1210	7.40	1656	14.3	N/A	EH(mv)= 102
	Comments: CLEAR											
S-3	06/08/2005	1037	2.56	N/A	N/A	06/08/2005	1100	7.53	3062	16.5	3.32	EH(mv)= -39 DO(ppm)= 0.93
	Comments: CLEAR											
S-4	06/08/2005	1110	0.72	N/A	N/A	06/08/2005	1135	8.07	4222	16.7	7.57	EH(mv)= -45 DO(ppm)= 0.90
	Comments: CLEAR											

SG - Specific Gravity
EH - Redox
DO - Dissolved Oxygen

* From Top of Riser
** Elevation Above Sea Level

Groundwater Elevation Report
HARDING [illegible]ON ASSOC.
JUNE 2005
ARCH-ROCHESTER WATER LEVEL MEASUREMENTS

Sample Point	Date	Time	Casing Elevation	Depth to Water	GW Elv.	Comments
B-1	06/06/2005	1248	0.00	9.44	N/A	NO NAPL
B-10	06/06/2005	1210	0.00	6.92	N/A	NO NAPL
B-11	06/06/2005	1154	0.00	3.93	N/A	
B-13	06/06/2005	1334	0.00	N/A	N/A	DRY AT 12.80
B-14	06/06/2005	1338	0.00	7.39	N/A	
B-15	06/06/2005	1339	0.00	3.67	N/A	
B-16	06/06/2005	1341	0.00	4.18	N/A	
B-17	06/06/2005	1146	0.00	6.73	N/A	NO NAPL
B-2	06/06/2005	1246	0.00	10.32	N/A	NO NAPL
B-3	06/06/2005	1251	0.00	10.28	N/A	NO NAPL
B-4	06/06/2005	1305	0.00	11.90	N/A	NO NAPL
B-5	06/06/2005	1310	0.00	8.97	N/A	NO NAPL
B-7	06/06/2005	1316	0.00	13.14	N/A	NO NAPL
B-8	06/06/2005	1219	0.00	7.54	N/A	NO NAPL
B-9	06/06/2005	0	0.00	N/A	N/A	BROKEN AT SURFACE AND BURIED UNDER ROCKS
BR-1	06/06/2005	1120	0.00	8.53	N/A	
BR-102	06/06/2005	1254	0.00	21.92	N/A	NO NAPL
BR-103	06/06/2005	1420	0.00	6.27	N/A	
BR-104	06/06/2005	1215	0.00	9.95	N/A	OBSTRUCTION AT 20FT
BR-105	06/06/2005	1155	0.00	22.99	N/A	
BR-105D	06/06/2005	1150	0.00	25.18	N/A	
BR-106	06/06/2005	1125	0.00	23.44	N/A	
BR-107	06/06/2005	0	0.00	N/A	N/A	DESTROYED
BR-108	06/06/2005	1140	0.00	24.62	N/A	
BR-111	06/06/2005	1235	0.00	28.98	N/A	
BR-111D	06/06/2005	1240	0.00	29.11	N/A	
BR-112A	06/06/2005	1235	0.00	27.66	N/A	
BR-112D	06/06/2005	1230	0.00	36.61	N/A	
BR-113	06/06/2005	1220	0.00	31.75	N/A	
BR-113D	06/06/2005	1225	0.00	31.65	N/A	
BR-114	06/06/2005	1440	0.00	13.70	N/A	
BR-116	06/06/2005	1400	0.00	26.94	N/A	
BR-116D	06/06/2005	1404	0.00	36.11	N/A	
BR-117	06/06/2005	1320	0.00	31.15	N/A	

Date: 07/01/2005
Time: 16:42

Groundwater Elevation Report
HARDING ESPOSITO ASSOC.
JUNE 2005
ARCH-ROCHESTER WATER LEVEL MEASUREMENTS

Sample Point	Date	Time	Casing Elevation	Depth to Water	GW Elv.	Comments
BR-117D	06/06/2005	1325	0.00	50.06	N/A	
BR-118	06/06/2005	1335	0.00	37.22	N/A	
BR-118D	06/06/2005	1330	0.00	49.01	N/A	
BR-119D	06/06/2005	1340	0.00	67.95	N/A	
BR-120D	06/06/2005	1305	0.00	56.23	N/A	
BR-121D	06/06/2005	1315	0.00	54.89	N/A	
BR-122D	06/06/2005	1350	0.00	44.80	N/A	
BR-123D	06/06/2005	1345	0.00	45.63	N/A	
BR-124D	06/06/2005	1343	0.00	31.78	N/A	
BR-126	06/06/2005	1025	0.00	7.88	N/A	
BR-127	06/06/2005	1235	0.00	4.29	N/A	NO NAPL
BR-2	06/06/2005	1140	0.00	7.60	N/A	NO NAPL
BR-2A	06/06/2005	1139	0.00	8.61	N/A	NO NAPL
BR-2D	06/06/2005	1142	0.00	0.06	N/A	NO NAPL
BR-3	06/06/2005	1204	0.00	10.36	N/A	
BR-3D	06/06/2005	1201	0.00	64.79	N/A	NO NAPL
BR-4	06/06/2005	1150	0.00	7.74	N/A	NO NAPL
BR-5	06/06/2005	1127	0.00	16.31	N/A	NO NAPL
BR-5A	06/06/2005	1129	0.00	32.22	N/A	6.20=GPM FLOW RATE
BR-6	06/06/2005	1217	0.00	13.43	N/A	NO NAPL
BR-6A	06/06/2005	1215	0.00	10.19	N/A	
BR-7	06/06/2005	1323	0.00	29.56	N/A	
BR-7A	06/06/2005	1322	0.00	20.30	N/A	NO NAPL
BR-8	06/06/2005	1313	0.00	8.83	N/A	NO NAPL
BR-9	06/06/2005	1255	0.00	33.08	N/A	6.51 GPM=FLOW RATE
C-1	06/06/2005	0	0.00	N/A	N/A	DESTROYED
C-2A	06/06/2005	1141	0.00	7.64	N/A	NO NAPL
C-3	06/06/2005	1133	0.00	N/A	N/A	BROKE AT GROUND SURFACE OBSTRUCTION AT 4.49FT
C-4	06/06/2005	0	0.00	N/A	N/A	BUILDING IN THIS AREA/WELL NO LONGER EXISTS
C-5	06/06/2005	1203	0.00	8.22	N/A	NO NAPL
E-1	06/06/2005	1152	0.00	2.05	N/A	
E-2	06/06/2005	1148	0.00	5.82	N/A	NO NAPL
E-3	06/06/2005	1126	0.00	8.36	N/A	NO NAPL
E-4	06/06/2005	1125	0.00	N/A	N/A	OBSTRUCTION AT 2.83FT

Groundwater Elevation Report
HARDING ON ASSOC.
JUNE 2005
ARCH-ROCHESTER WATER LEVEL MEASUREMENTS

Sample Point	Date	Time	Casing Elevation	Depth to Water	GW Elv.	Comments
E-5	06/06/2005	1122	0.00	6.90	N/A	NO NAPL
EC-1	06/06/2005	1250	0.00	18.26	N/A	
EC-2	06/06/2005	1227	0.00	N/A	N/A	DRY AT 12.69
ERIE CANAL	06/06/2005	1255	0.00	33.30	N/A	
MW-103	06/06/2005	1425	0.00	1.75	N/A	
MW-104	06/06/2005	1210	0.00	8.58	N/A	
MW-105	06/06/2005	1157	0.00	N/A	N/A	DRY AT 18.90
MW-106	06/06/2005	1130	0.00	9.70	N/A	
MW-107	06/06/2005	0	0.00	N/A	N/A	DESTROYED
MW-108	06/06/2005	1135	0.00	13.43	N/A	
MW-114	06/06/2005	1435	0.00	10.93	N/A	
MW-126	06/06/2005	1115	0.00	5.58	N/A	
MW-127	06/06/2005	1234	0.00	4.87	N/A	NO NAPL
MW-16	06/06/2005	1415	0.00	10.96	N/A	
MW-2	06/06/2005	0	0.00	N/A	N/A	NOT FOUND
MW-3	06/06/2005	1050	0.00	6.21	N/A	
MW-G6	06/06/2005	1055	0.00	4.91	N/A	
MW-G7	06/06/2005	1100	0.00	4.95	N/A	
MW-G8	06/06/2005	1105	0.00	7.57	N/A	
MW-G9	06/06/2005	1110	0.00	9.59	N/A	
N-1	06/06/2005	1119	0.00	N/A	N/A	DAMAGED CASING/BAILER STUCK IN WELL AT 3.04FT
N-2	06/06/2005	1116	0.00	6.49	N/A	
N-3	06/06/2005	1115	0.00	8.07	N/A	NO NAPL
NESS-E	06/06/2005	1205	0.00	19.10	N/A	
NESS-W	06/06/2005	1200	0.00	31.99	N/A	
PW-10	06/06/2005	1145	0.00	N/A	N/A	INACCESSIBLE
PW-11	06/06/2005	1314	0.00	20.02	N/A	
PW-12(BR-101)	06/06/2005	1134	0.00	7.25	N/A	0.00 G.P.M.
PW-13	06/06/2005	1327	0.00	27.06	N/A	NO NAPL
PW-14	06/06/2005	1157	0.00	17.64	N/A	
PZ-101	06/06/2005	1115	0.00	12.57	N/A	
PZ-102	06/06/2005	1117	0.00	12.15	N/A	
PZ-103	06/06/2005	1120	0.00	11.16	N/A	
PZ-104	06/06/2005	1336	0.00	12.71	N/A	

Groundwater Elevation Report
HARDING (ON ASSOC.
JUNE 2005
ARCH-ROCHESTER WATER LEVEL MEASUREMENTS

Sample Point	Date	Time	Casing Elevation	Depth to Water	GW Elv.	Comments
PZ-105	06/06/2005	1222	0.00	8.71	N/A	NO NAPL
PZ-106	06/06/2005	1156	0.00	13.49	N/A	NO NAPL
PZ-107	06/06/2005	1208	0.00	6.71	N/A	NO NAPL
S-1	06/06/2005	1221	0.00	4.22	N/A	NO NAPL
S-2	06/06/2005	1217	0.00	3.36	N/A	
S-3	06/06/2005	1206	0.00	2.67	N/A	
S-4	06/06/2005	1216	0.00	0.77	N/A	
W-1	06/06/2005	1247	0.00	N/A	N/A	UNABLE TO OBTAIN MEASUREMENT/OBSTRUCTION
W-2	06/06/2005	1243	0.00	11.49	N/A	NO NAPL
W-3	06/06/2005	1303	0.00	4.22	N/A	NO NAPL
W-4	06/06/2005	1307	0.00	4.66	N/A	NO NAPL
W-5	06/06/2005	1324	0.00	6.46	N/A	NO NAPL
W-6	06/06/2005	1320	0.00	9.19	N/A	

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: B-17

Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-8-05 / 1305

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. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-8-05 / 1310

Date / Time Completed: 6-8-05 / 1330

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

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 6.78

Elevation. G/W MSL: ____

Total Depth, Feet: ____

Method of Well Purge: ~~BLADDER PUMP~~ PERISTALTIC PUMP

One (1) Riser Volume, Gal: ____

Dedicated: (Y) / N

Total Volume Purged, Gal: 15

Purged To Dryness Y / (N)

Purge Observations: ____

Start Amber clear Finish Amber clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1315	ML/MN 100	WL 6.80		17.1	7.81	7241	23.7	-165	1.09
1320	↓	↓		18.2	8.09	7531	17.2	-174	1.00
1325				17.9	8.32	7600	10.2	-179	.95
1330	↓	↓		17.8	8.50	7610	8.21	-181	.90

SAMPLED AT 1335 / 6-8-05

PM Lot

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: B-7

Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-9-05 / 1122

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. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-9-05 / 1125

Date / Time Completed: 6-9-05 / 1150

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

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 13.12

Elevation. G/W MSL:

Total Depth, Feet: 20.90

Method of Well Purge: ~~BLADDER PUMP~~ PERISTALTIC PUMP

One (1) Riser Volume, Gal:

Dedicated: (Y) N

Total Volume Purged, Gal: 1.0

Purged To Dryness Y / (N)

Purge Observations:

Start TURBID Brown Finish Clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1130	MV/mm 100 / WL 14.50		18.7	7.55	1559	147.0	-38	1.32
1135			19.0	7.09	1499	31.4	-40	1.15
1140		14.61	19.3	7.00	1484	25.7	-42	1.06
1145			19.4	6.97	1483	16.9	-44	0.88
1150		14.69	19.4	6.95	1484	12.2	-45	0.96

SAMPLED AT 1155 / 6-9-05 RL Lee

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

FIELD OBSERVATIONS

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

Sampled Personnel: R.SENF/P.LITTLE | Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-07-05 / 1325 | 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. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-07-05 / 1335 | Date / Time Completed: 6-07-05 / 1350

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

Initial Water Level, Feet: 6.51 | Elevation. G/W MSL: ____

Total Depth, Feet: ____ | Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

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

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

Purge Observations: Low Flow | Start Clear Finish Clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1340	Flow 200 / wc 6.65		14.9	8.23	1340	8.97	-266	0.12
1345	↓ / 6.65		14.8	8.33	1350	8.11	-269	0.13
1350	↓ / 6.65		14.6	8.32	1350	8.03	-272	0.10

SAMPLED AT 1350 / 6-07-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID BR-103

Date/Time 6-07-05 1350 Water Level @ Sampling, Feet: 6.65

Method of Sampling: ~~PERISTALTIC PUMP~~ BLADDER PUMP Dedicated: (Y) N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: SUNNY, 85°F

Sample Characteristics: CLEAR

COMMENTS AND OBSERVATIONS:

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

Date: 6/07/05 By: BJ Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL | Sample Point ID: BR-104

Sampling Personnel: R.SENF/P.LITTLE | Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-07-05 / 1440 | 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. Organic Meter (Calibration/Reading): | Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-07-05 / 1445 | Date / Time Completed: 6-07-05 / 1515

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

Initial Water Level, Feet: 9.95 | Elevation. G/W MSL: ____

Sampling Total Depth, Feet: ____ | Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

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

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

Purge Observations: LOW FLOW | Start SL. TURBID Finish SL. TURBID

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1500	FLOW 200 / WL 10.00		16.2	7.68	913	137	-252	0.79
1505	↓ / 10.00		16.4	8.16	640	114	-258	0.72
1510	↓ / ↓		16.2	8.24	651	111	-261	0.75
1515	↓ / ↓		16.0	8.28	657	107	-266	0.73

Sampling SAMPLED AT

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID BR - 104

Date/Time 6-07-05 / 1520 Water Level @ Sampling, Feet: 10.00

Method of Sampling: ~~PERISTALTIC PUMP~~ BLADDER PUMP Dedicated: (Y) N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sunny, 85°F

Sample Characteristics: SL. TURBID

COMMENTS AND OBSERVATIONS:

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

Date: 6/07/05 By: _____ Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: BR-105

Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-8-05 , 1435

Cond of seal: (✓) Good ( ) Cracked ( ) None ( ) Buried %

Prot. Casing/riser height:

Cond of prot. Casing/riser: ( ) Unlocked (✓) Good ( ) Loose (✓) Flush Mount ( ) Damaged

If prot.casing; depth to riser below:

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

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) /

PURGE INFORMATION:

Date / Time Initiated: 6.8.05 / 1440

Date / Time Completed: 6.8.05 / 1505

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

Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 23.04

Elevation. G/W MSL:

Total Depth, Feet:

Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

One (1) Riser Volume, Gal:

Dedicated: Y / (N)

Total Volume Purged, Gal:

Purged To Dryness Y / (N)

Purge Observations: Low flow Sampling

Start SLTURBID Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1450	380mL	2305		14.05	6.50	2000	23.7	-331	2.07
1455	380mL			13.13	6.58	2000	16.4	-297	0.28
1500	380mL			13.42	6.58	2000	118	-287	0.32
1505	380mL			13.41	6.51	2010	9.39	-283	0.33

SAMPLED AT

Sampled at 1510 on 6.8.05 PS

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

FIELD OBSERVATIONS

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

Personnel: R.SENF/P.LITTLE Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-8-05 / 1420 Cond of seal: (✓) Good ( ) Cracked ( ) None ( ) Buried %

Prot. Casing/riser height: Cond of prot. Casing/riser: ( ) Unlocked (✓) Good ( ) Loose (✓) Flush Mount ( ) Damaged

If prot.casing; depth to riser below:

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

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) /

PURGE INFORMATION:

Date / Time Initiated: 6-8-05 / 1422 Date / Time Completed: 6-8-05 / 1445

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

Initial Water Level, Feet: 24.41 Elevation. G/W MSL:

Total Depth, Feet: Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

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

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

Purge Observations: Low flow Sampling Start SL TURBID Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1430	340mL 2'/60		14.59	6.62	11490	2.70	-354	0.33
1435	340mL		14.56	6.59	11640	2.61	-350	0.15
1440	340mL		17.82	6.61	11740	2.51	-368	0.27
1445	340ml		17.81	6.58	11740	2.16	-371	0.16

SAMPLED AT Sampled at 1450 on 6-8-05 CRS

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL Sample Point ID: BR-106

Field Personnel: R.SENF/P.LITTLE Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-8-05 / 1250 Cond of seal: ( ) Good ( ) Cracked ( ) None ( ) Buried %

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

If prot.casing; depth to riser below:

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

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) /

PURGE INFORMATION:

Date / Time Initiated: 6-8-05 / 1255 Date / Time Completed: 6-8-05 / 1320

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

Initial Water Level, Feet: 23.40 Elevation. G/W MSL:

Total Depth, Feet: Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

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

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

Purge Observations: Low flow Sampling Start TURBID Finish SL TURBID

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1305	340 mL	23.49		18.02	6.68	2900	70.1	89	2.63
1310	340 mL	23.49		15.03	6.43	2910	69.9	56	1.11
1315	↓	↓		15.53	6.39	2910	66.6	47	0.77
1320	↓	↓		15.94	6.37	2910	67.1	48	0.64

SAMPLED AT Sampled at 1325 on 6-8-05

CLS

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: BR-10B

Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-13-05 / 1359

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. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-13-05/ 1405

Date / Time Completed: 6-13-05/

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

Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 24.50

Elevation. G/W MSL:

Total Depth, Feet: 29.75

Method of Well Purge: ~~BLADDER PUMP~~ ~~PERISTALTIC PUMP~~ SS BAILER

One (1) Riser Volume, Gal: 3.42

Dedicated: (Y) / N

Total Volume Purged, Gal: 4.0

Purged To Dryness (Y) / N

Purge Observations:

Start TURBID Red Finish TURBID Red

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO

SAMPLED AT 1335/6-14-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID BR-108

Date/Time 6-14-05 1335 Water Level @ Sampling, Feet: 24.87

Method of Sampling: ~~PERISTALTIC PUMP~~ S/S BAILER Dedicated: (Y) N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1345	17.2	7.32	1712	>200	-116	

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: Cloudy, 80°F

Sample Characteristics: ORANGE

COMMENTS AND OBSERVATIONS:

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

Date: 6/14/05 By: [signature] Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: BR-112 D

Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-14-05 / 1150

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. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-14-05 / 1200

Date / Time Completed: 6-14-05 / 1225

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

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 36.63

Elevation. G/W MSL:

Total Depth, Feet:

Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

One (1) Riser Volume, Gal:

Dedicated: Y / (N)

Total Volume Purged, Gal:

Purged To Dryness Y / (N)

Purge Observations: LOW FLOW

Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate ~~(gpm/htz)~~	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1210	FLOW 200 / WL 36.75		14.1	6.97	1643	14.70	-181	0.32
1215	↓ / 36.80		14.5	7.03	1592	6.26	-180	0.22
1220	↓ / 36.80		14.5	7.05	1585	5.30	-177	0.19
1225	↓ / 36.80		14.6	7.05	1582	5.47	-173	0.20

SAMPLED AT 1230 / 6-14-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID BR-112 D

Date/Time 6-14-05 1230 Water Level @ Sampling, Feet: 36.86

Method of Sampling: ~~PERISTALTIC PUMP~~ BLADDER PUMP Dedicated: (Y) N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sunny, 85°F

Sample Characteristics: CLEAR

COMMENTS AND OBSERVATIONS:

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

Date: 6/14/05 By: [signature] Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: B.2-113 D

Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-13-05 / 1215

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

Prot. Casing/riser height: 2.63

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

If prot.casing; depth to riser below: 0.21

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

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-13-05 / 1225

Date / Time Completed: 6-13-05 / 1250

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

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 31.65

Elevation. G/W MSL:

Total Depth, Feet:

Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

One (1) Riser Volume, Gal:

Dedicated: Y / N

Total Volume Purged, Gal:

Purged To Dryness Y / N

Purge Observations: LOW FLOW

Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1235	FLOW 200	WL 31.75		13.1	7.19	2480	5.87	-302	0.15
1240	↓	31.80		13.1	7.01	2470	2.99	-311	0.14
1245		31.80		13.2	6.92	2460	2.85	-312	0.13
1250	↓	31.80		13.2	6.87	2460	2.87	-314	0.13

SAMPLED AT 1255 / 6-13-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID BR-113 D

Date/Time 6-13-05 / 1255 Water Level @ Sampling, Feet: 31.80

Method of Sampling: ~~PERISTALTIC PUMP~~ BLADDER PUMP Dedicated: (Y) N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: SUNNY, 85°F

Sample Characteristics: CLEAR

COMMENTS AND OBSERVATIONS:

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

Date: 6/13/05 By: [signature] Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: BG-114

Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-13-05 / 1400

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. Organic Meter (Calibration/Reading):

Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-13-05 / 1410

Date / Time Completed: 6-13-05 / 1430

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

Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 13.53

Elevation. G/W MSL:

Total Depth, Feet:

Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

One (1) Riser Volume, Gal:

Dedicated: Y / (N)

Total Volume Purged, Gal:

Purged To Dryness Y / (N)

Purge Observations: LOW FLOW

Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1415	FLOW 200 / WL 13.85		15.3	6.67	1790	11.35	-271	0.10
1420	| / 13.85		15.1	6.68	1780	8.11	-275	0.09
1425	| / 13.85		15.1	6.69	1780	7.39	-277	0.08
1430	↓ / 13.85		15.1	6.69	1780	7.15	-278	0.08

SAMPLED AT 1435/6-13-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID BR-14

Date/Time 6-13-05 1435 Water Level @ Sampling, Feet: 13.85

Method of Sampling: ~~PERISTALTIC PUMP~~ BLADDER PUMP Dedicated: (Y) / N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sunny, 90°F

Sample Characteristics: CLEAR

COMMENTS AND OBSERVATIONS:

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

Date: 6/13/05 By: [signature] Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: BR-116

Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-13-05 / 1135

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. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-13-05 / 1140

Date / Time Completed: 6-13-05 / 1205

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

Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 27.07

Elevation. G/W MSL: ____

Total Depth, Feet: ____

Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

One (1) Riser Volume, Gal: ____

Dedicated: Y (N)

Total Volume Purged, Gal: ____

Purged To Dryness Y (N)

Purge Observations: LO FLOW

Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1150	FLOW 200	WL 27.20		19.3	6.88	2070	20.9	-8	0.31
1155	200	27.20		19.3	6.70	2855	13.50	-12	0.21
1200	↓	27.20		19.3	6.65	2863	11.10	-15	0.19
1205	↓	27.20		19.3	6.58	2870	10.35	-16	0.17

SAMPLED AT

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID BR-116

Date/Time 6-13-05 1210 Water Level @ Sampling, Feet: 27.20

Method of Sampling: ~~PERISTALTIC PUMP~~ BLADDER PUMP Dedicated: (Y) N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sunny, 85°F

Sample Characteristics: CLEAR

COMMENTS AND OBSERVATIONS:

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

Date: 6/13/05 By: [signature] Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: BR-116 D

Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-13-05 / 1040

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. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-13-05/1050

Date / Time Completed: 6-13-05/1115

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

Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 36.14

Elevation. G/W MSL: ____

Total Depth, Feet: ____

Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

One (1) Riser Volume, Gal: ____

Dedicated: Y / (N)

Total Volume Purged, Gal: ____

Purged To Dryness Y / (N)

Purge Observations: LOW FLOW

Start SL. TURBID Finish SL. TURBID

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	WL	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1100	FLOW 200	36.32		18.7	9.47	839	48.1	-82	0.29
1105	↓	36.30		18.5	9.40	855	45.2	-77	0.23
1110	↓	36.30		18.3	9.38	854	43.2	-75	0.19
1115	↓	36.30		18.3	9.36	853	43.1	-70	0.18

SAMPLED AT 1120/6-13-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID BR-116 D

Date/Time 6-13-05 1 Water Level @ Sampling, Feet: 36.30

Method of Sampling: ~~PERISTALTIC PUMP~~ BLADDER PUMP Dedicated: (Y) / N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: SUNNY, 85°F

Sample Characteristics: SL. TURBID

COMMENTS AND OBSERVATIONS:

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

Date: 6/13/05 By: [signature] Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: BR-117D

Field Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-8-05 1130

Cond of seal: (✓) Good ( ) Cracked ____ %
( ) None ( ) Buried

Prot. Casing/riser height: ____

Cond of prot. Casing/riser: ( ) Unlocked (✓) Good
( ) Loose ( ) Flush Mount
( ) Damaged ____

If prot.casing; depth to riser below: ____

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

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm /

PURGE INFORMATION:

Date / Time Initiated: 6-8-05 / 1140

Date / Time Completed: 6-8-05 / 1210

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

Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 49.91

Elevation. G/W MSL: ____

Total Depth, Feet: ____

Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

One (1) Riser Volume, Gal: ____

Dedicated: Y / (N)

Total Volume Purged, Gal: ____

Purged To Dryness Y / (N)

Purge Observations: Low flow Sampling

Start SL TURBID Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1145	340ml	49.95		13.01	8.18	539	44.1	185	3.80
1150	340ml	49.95		11.77	8.12	538	35.7	173	2.55
1155	340ml	1		11.72	8.13	539	28.4	154	1.80
1200	340ml			11.58	8.13	539	17.2	154	1.24
1205	340ml			11.60	8.13	540	16.3	154	1.00
1210	340ml	↓		11.60	8.13	539	15.9	155	0.99

SAMPLED AT Sampled at 1215 on 6-8-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: BR 118D

Field Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-8-05 / 1012

Cond of seal: (✓) Good ( ) Cracked ( ) None ( ) Buried %

Prot. Casing/riser height:

Cond of prot. Casing/riser: ( ) Unlocked (✓) Good ( ) Loose ( ) Flush Mount ( ) Damaged

If prot.casing; depth to riser below:

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

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) /

PURGE INFORMATION:

Date / Time Initiated: 6-8-05 / 1030

Date / Time Completed: 6-8-05 / 1110

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

Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 48.98

Elevation. G/W MSL:

Total Depth, Feet:

Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

One (1) Riser Volume, Gal:

Dedicated: Y / N

Total Volume Purged, Gal:

Purged To Dryness Y / (N)

Purge Observations: Low flow Sampling

Start SC TURBID Finish Clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1040	320mL 49.21		13.02	9.22	1900	~~18.2~~	-128	3.47
1045	320mL 49.21		12.81	9.22	1720	~~18.0~~	-91	2.81
1055	320ml 49.21		13.09	9.18	1720	18.0	-74	2.80
1100	320ml 49.21		13.10	9.19	1721	~~17.7~~	-75	2.81
1105	320mL 49.21		13.30	9.18	1720	17.8	-76	2.81

SAMPLED AT Sampled at 1110 on 6-8-05 CRS

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL | Sample Point ID: BR-122 D

Field Personnel: R.SENF/P.LITTLE | Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-07-05 / 1040 | Cond of seal: (X) Good ( ) Cracked ( ) None ( ) Buried ____ %

Prot. Casing/riser height: 2.72 | 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. Organic Meter (Calibration/Reading): | Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-07-05 / 1050 | Date / Time Completed: 6-07-05 / 1125

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

Initial Water Level, Feet: 45.10 | Elevation. G/W MSL: ____

Total Depth, Feet: ____ | Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

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

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

Purge Observations: LOW FLOW | Start BLACK TINT Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate ~~(gpm/htz)~~	WL	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1110	ROTA 250ml	45.05		13.0	7.06	2450	13.2	-257	0.79
1115	↓	45.05		13.3	6.98	2450	11.1	-261	0.40
1120	↓	45.05		13.4	6.93	2430	6.75	-264	0.38
1125	↓	45.05		13.4	6.89	2400	5.28	-270	0.35

SAMPLED AT 1125 / 6-07-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID BR-122D

Date/Time 6-07-05 1125 Water Level @ Sampling, Feet: 45.05

Method of Sampling: ~~PERISTALTIC PUMP~~ BLADDER PUMP Dedicated: (Y) N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other (DO)
1125	13.4	6.89	2400	5.28	-270	0.35

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sunny, 80°F

Sample Characteristics: CLEAR

COMMENTS AND OBSERVATIONS:

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

Date: 6 10705 By: _____ Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: BR-123D

Field Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-07-05 / 1150

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

Prot. Casing/riser height: 2.55

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. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-07-05/ 1155

Date / Time Completed: 6-07-05/ 1230

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

Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 45.70

Elevation. G/W MSL: ____

Total Depth, Feet: ____

Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

One (1) Riser Volume, Gal: ____

Dedicated: Y (N)

Total Volume Purged, Gal: ____

Purged To Dryness Y (N)

Purge Observations: LOW FLOW

Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
	Flow	WL							
1200	300	45.75		12.3	7.02	1700	21.4	-319	0.47
1210		45.75		12.3	6.97	1690	20.1	-322	0.41
1220	↓	45.75		12.3	6.99	1690	17.9	-324	0.35
1230	↓	45.75		12.2	7.03	1690	17.3	-323	0.33

SAMPLED AT 1230/6-07-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID BR-123D

Date/Time 6-07-05 1230 Water Level @ Sampling, Feet: 45.75

Method of Sampling: ~~PERISTALTIC PUMP~~ BLADDER PUMP Dedicated: (Y) N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: SUNNY, 80°F

Sample Characteristics: CLEAR

COMMENTS AND OBSERVATIONS:

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

Date: 6 10 05 By: [signature] Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: BR-126

Field Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-15-05 / 1025

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. Organic Meter (Calibration/Reading):

Volatiles (ppm) — / —

PURGE INFORMATION:

Date / Time Initiated: 6-15-05 / 1030

Date / Time Completed: 6-15-05 / 1100

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

Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 7.88

Elevation. G/W MSL:

Total Depth, Feet: 45.45

Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

One (1) Riser Volume, Gal:

Dedicated: Y / (N)

Total Volume Purged, Gal:

Purged To Dryness Y / (N)

Purge Observations: LOW FLOW

Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1040	200	WL 7.92		13.9	8.06	1930	63.7	-62	0.30
1045	200	7.92		14.0	7.10	1930	56.9	-85	0.26
1050	200	7.92		14.0	7.09	1940	57.3	-87	0.25
1100	200	7.92		14.1	7.12	1930	49.9	-90	0.23

SAMPLED AT 1105 / 6-15-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID BR-126

Date/Time 6-15-05 1105 Water Level @ Sampling, Feet: 7.92

Method of Sampling: ~~PERISTALTIC PUMP~~ BLADDER PUMP Dedicated: (Y) N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: SUNNY, 70°F

Sample Characteristics: CLEAR

COMMENTS AND OBSERVATIONS:

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

Date: 6/15/05 By: [signature] Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: BR-127

[redacted] Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-7-05 / 1140

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. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6/7/05 / 1150

Date / Time Completed: 6-7-05 1210

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

Riser Diameter, Inches: 6.0

Initial Water Level, Feet: 4.29

Elevation. G/W MSL: ____

Total Depth, Feet: 50.63

Method of Well Purge: ~~BLADDER PUMP~~ PERISTALTIC PUMP

One (1) Riser Volume, Gal: ____

Dedicated: (Y) / N

Total Volume Purged, Gal: 2.0

Purged To Dryness Y / (N)

Purge Observations: ____ Start Clear Black Specks Finish Clear Black Specks

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1155	ml/min 100	WL 4.29		16.2	7.65	3158	7.45	-101	1.04
1200	↓	↓		15.8	7.89	3177	7.22	-158	1.00
1205	↓	↓		16.1	7.94	3179	5.55	-160	0.97
1210	↓	↓		16.1	7.96	3182	5.19	-161	0.95

SAMPLED AT 1215 / 6-7-05

[signature]

Field Form
Revision 0
03/14/02

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL Sample Point ID: BR-3

Field Personnel: R.SENF/P.LITTLE Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-7-05 / 1220 Cond of seal: (X) Good ( ) Cracked ( ) None ( ) Buried %

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

If prot.casing; depth to riser below:

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

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-7-05 / 1225 Date / Time Completed: 6-7-05 / 1245

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

Initial Water Level, Feet: 9.63 Elevation. G/W MSL:

Total Depth, Feet: 23.25 Method of Well Purge: ~~BLADDER PUMP~~ PERISTALTIC PUMP

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

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

Purge Observations: Start clear (yellow tint) Finish clear (yellow tint)

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1230	ml/min 100	9.31		15.4	7.22	15,540	35.9	-56	1.11
1235	↓	10.34		14.9	6.93	15,490	17.0	-80	1.01
1240	↓	10.37		14.7	7.20	15,450	16.5	-85	0.95
1245	↓	10.40		14.5	7.16	15,410	10.1	-87	0.93

SAMPLED AT 1250 / 6-7-05 PL

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____umhos/cm= _____ _____umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

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Revision 0
March 15,2002

FIELD OBSERVATIONS

cility: ARCH CHEMICAL Sample Point ID: BR-5A

Field Personnel: R. Little, T. Palmer Sample Matrix: GW

(K) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 6-9-05 1250 Water Level @ Sampling, Feet: 29.41

Method of Sampling: SAMP. PUMP Dedicated: (Y) / N

Multi-phased/ layered: ( ) Yes (K) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1253	19.8	7.87	1439	8.60	-71	

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: _____

Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: _____

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: _____

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sun 90°

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS: 3.84 GPM

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

Date: 6/9/05 By: R. Little Company: ST

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: BK-69

Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-7-05 / 1302

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

Prot. Casing/riser height:

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

If prot.casing; depth to riser below:

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

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm /

PURGE INFORMATION:

Date / Time Initiated: 6-7-05 / 1305

Date / Time Completed: 6-7-05 / 1321

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

Riser Diameter, Inches: 6.0

Initial Water Level, Feet: 10.32

Elevation. G/W MSL:

Total Depth, Feet:

Method of Well Purge: ~~BLADDER PUMP~~ PERISTALTIC PUMP

One (1) Riser Volume, Gal:

Dedicated: (Y) / N

Total Volume Purged, Gal: 1.0

Purged To Dryness Y / N

Purge Observations:

Start Clear Black Tint Finish Clear Black Tint

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1310	ml/min 160	10.35		18.9	7.80	3103	14.4	-123	2.11
1315	↓	↓		18.8	8.00	3089	4.72	-130	1.57
1320				19.0	8.10	3090	3.42	-132	1.45
1325	↓	↓		19.0	8.13	3100	3.19	-133	1.40

SAMPLED AT 1330 / 6-7-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

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FIELD OBSERVATIONS

Facility: ARCH CHEMICAL Sample Point ID: BR-7A

Field Personnel: R. Little, T. Palmer Sample Matrix: GW

(K) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 6-8-05 1120 Water Level @ Sampling, Feet: 20.33

Method of Sampling: SAMP. PUMP Dedicated: (Y) / N

Multi-phased/ layered: ( ) Yes (K) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1209	18.2	7.13	27.63	33.2	-148	

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: _____

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: _____

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: _____

GENERAL INFORMATION:

Weather conditions @ time of sampling: 88° SUN

Sample Characteristics: SL TURBID GRAY

COMMENTS AND OBSERVATIONS:

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

Date: 6/9/05 By: [signature] Company: SE

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: BR-8

Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-9-05 / 1037

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. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-9-05 / 1040

Date / Time Completed: 6-9-05 / 1100

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

Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 8.97

Elevation. G/W MSL:

Total Depth, Feet: 31.74

Method of Well Purge: ~~BLADDER PUMP~~ PERISTALTIC PUMP

One (1) Riser Volume, Gal:

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 (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
	mean	wt							
1045	150	4.05		17.4	7.42	3006	26.4	-134	1.20
1050	↓	↓		17.2	7.45	3093	18.1	-139	1.09
1055				17.1	7.44	3111	18.6	-142	0.98
1100	↓	↓		17.3	7.43	3110	17.7	-143	0.95

SAMPLED AT 1105 / 6-9-05

see Lab

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: 3925 NTU std. = 20 NTU 20 NTU std. = 20 NTU

Solutions: CHA-48-E

pH Serial #: 614162 UIMA 4.0 std.= 4.00 7.0 std.= 7.00 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: 614162 1392 umhos/cm= 1352 _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

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FIELD OBSERVATIONS

cility: ARCH CHEMICAL Sample Point ID: BR-9

Field Personnel: R. Little, T. Palmer Sample Matrix: GW

(K) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 6-9-05 / 1230 Water Level @ Sampling, Feet: 31.87

Method of Sampling: SAMP. PUMP Dedicated: (Y)/ N

Multi-phased/ layered: ( ) Yes (K) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1233	20.8	7.42	2645	271	-104	

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: _____

Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: _____

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: _____

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sun 90°

Sample Characteristics: TURBID ORANGE

COMMENTS AND OBSERVATIONS: 6.57 GPM

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

Date: 6/9/05 By: M Lee Company: ST

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: E-1

Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-8-05 / 1148

Cond of seal: ( ) Good ( ) Cracked VAULT % ( ) None ( ) Buried

Prot. Casing/riser height: _____

Cond of prot. Casing/riser: ( ) Unlocked ( ) Good ( ) Loose ( ) Flush Mount ( ) Damaged _____

If prot.casing; depth to riser below: _____

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

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) /

PURGE INFORMATION:

Date / Time Initiated: 6-8-05 / 1150

Date / Time Completed: 6-8-05 / 1210

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

Riser Diameter, Inches: VAULT

Initial Water Level, Feet: 1.87

Elevation. G/W MSL: _____

Total Depth, Feet: _____

Method of Well Purge: ~~BLADDER PUMP~~ PERISTALTIC PUMP

One (1) Riser Volume, Gal: _____

Dedicated: (Y) N

Total Volume Purged, Gal: 2.0

Purged To Dryness Y / (N)

Purge Observations: _____

Start Clear BLACK TINT Finish Clear BLACK TINT

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1155	1.87		20.8	7.69	10,020	19.6	-52	1.17
1200	↓		20.9	7.84	10,020	12.3	-57	1.09
1205	↓		19.7	8.12	10,030	11.6	-60	.93
1210	↓		20.4	8.17	10,040	11.3	-63	.90

SAMPLED AT 1215/6-8-05

M Litton

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

FIELD OBSERVATIONS

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

Field Personnel: R.SENF/P.LITTLE | Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-7-05 / 1040 | Cond of seal: (X) Good ( ) Cracked ( ) None ( ) Buried ____ %

Prot. Casing/riser height: ____ | Cond of prot. Casing/riser: ( ) Unlocked ( ) Good ( ) Loose ( ) Flush Mount (X) Damaged Bent

If prot.casing; depth to riser below: ____

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

Vol. Organic Meter (Calibration/Reading): | Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-7-05 / 1042 | Date / Time Completed: 6-7-05 / 1052

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

Initial Water Level, Feet: 8.96 | Elevation. G/W MSL: ____

Total Depth, Feet: 12.05' | Method of Well Purge: ~~BLADDER PUMP~~ PERISTALTIC PUMP

One (1) Riser Volume, Gal: .50 | Dedicated: (Y) / N

Total Volume Purged, Gal: .50 | 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 (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1047	10.57		14.9	7.10	2520	9.22	35	1.41
1052	11.40		15.3	7.21	2475	3.45	30	1.06

SAMPLED AT

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID E-3

Date/Time 6-8-05 1020 Water Level @ Sampling, Feet: 9.07

Method of Sampling: PERISTALTIC PUMP Dedicated: (Y) N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1022	15.1	7.11	2638	5.75	17	

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sun 85°

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

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

Date: 6/8/05 By: [signature] Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: MW-103

Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-07-05 / 1245

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. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-07-05 / 1255

Date / Time Completed: 6-07-05 / 1320

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

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 1.49

Elevation. G/W MSL:

Total Depth, Feet:

Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

One (1) Riser Volume, Gal:

Dedicated: Y (N)

Total Volume Purged, Gal:

Purged To Dryness Y (N)

Purge Observations: LOW FLOW

Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate ~~(gpm/htz)~~		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1310	FLOW ISO	WL 2.57		19.0	7.23	597	8.04	-281	0.25
1315	↓	2.77		19.0	7.20	602	6.07	-284	0.27
1320	↓	2.80		19.0	7.22	603	5.97	-286	0.30

SAMPLED AT 1320 / 6-07-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID MW-103

Date/Time 6-07-05 / 1320 Water Level @ Sampling, Feet: 2.80

Method of Sampling: ~~PERISTALTIC PUMP~~ BLADDER PUMP Dedicated: (Y) / N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sunny, 85°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

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

Date: 6/07/05 By: [signature] Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: MW-104

Field Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-07-05 / 1420

Cond of seal: ( ) Good ( ) Cracked ____ %
( ) None (X) 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. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-07-05 / 1425

Date / Time Completed: 6-07-05 / 1530

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

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 7.95

Elevation. G/W MSL: ____

Total Depth, Feet: ____

Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

One (1) Riser Volume, Gal: ____

Dedicated: Y (N)

Total Volume Purged, Gal: ____

Purged To Dryness Y (N)

Purge Observations: ____

Start TURBID BROWN Finish SL. TURBID

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1440	FLOW 150	WL 8.20		13.1	6.72	1170	169	-234	0.45
1510 ~~1445~~	|	8.50		13.0	6.73	1190	157	-239	0.36
1520 ~~1450~~	|	8.90		12.9	6.79	1210	143	-240	0.38
1530	↓	9.10		12.8	6.82	1220	147	-243	0.36

SAMPLED AT

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID MW-104

Date/Time 6-07-05 1 1530 Water Level @ Sampling, Feet: 9.10

Method of Sampling: ~~PERISTALTIC PUMP~~ BLADDER PUMP Dedicated: (Y) N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sunny, 80°F

Sample Characteristics: SL. TURBID

COMMENTS AND OBSERVATIONS:

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

Date: 6/07/05 By: [signature] Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: MW-106

Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-8-05 / 1330

Cond of seal: (✓) Good ( ) Cracked ( ) None ( ) Buried %

Prot. Casing/riser height:

Cond of prot. Casing/riser: ( ) Unlocked (✓) Good ( ) Loose (✓) Flush Mount ( ) Damaged

If prot.casing; depth to riser below:

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

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) /

PURGE INFORMATION:

Date / Time Initiated: 6-8-05 / 1335

Date / Time Completed: 6-8-05 / 1400

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

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 9.81

Elevation. G/W MSL:

Total Depth, Feet:

Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

One (1) Riser Volume, Gal:

Dedicated: Y (N)

Total Volume Purged, Gal:

Purged To Dryness Y / (N)

Purge Observations: Low flow Sampling

Start TURBID Finish SL TURBID

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1340	340 mL	12.31	12.34	6.58	1950	64.5	30	1.62
1345	340 mL	12.31	11.90	6.51	2520	56.9	33	0.59
1350	"	12.31	11.66	6.59	2600	54.5	31	0.42
1355	"	"	11.55	6.49	2610	54.1	32	0.41
1400	"	"	11.55	6.51	2610	54.0	31	0.43

SAMPLED AT Sampled on 1403 at 6-8-05 CFS

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

FIELD OBSERVATIONS

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

Field Personnel: R.SENF/P.LITTLE | Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-13-05 / 1320 | 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. Organic Meter (Calibration/Reading): | Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-13-05 / 1330 | Date / Time Completed: 6-13-05 / 1350

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

Initial Water Level, Feet: 10.72 | Elevation. G/W MSL: ____

Total Depth, Feet: ____ | Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

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

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

Purge Observations: LOW FLOW | Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1335	FLOW 100 / WL 11.75		17.3	6.97	1970	32.2	-251	1.55
1340	75	11.80	16.9	6.99	1900	13.50	-240	1.69
1345	75	11.75	16.7	7.00	1890	9.73	-237	1.75
1350	75	11.75	16.7	7.01	1890	8.32	-237	1.74

SAMPLED AT 1355 / 6-13-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID MW-114

Date/Time 6-13-05 / 1355 Water Level @ Sampling, Feet: 11.75

Method of Sampling: ~~PERISTALTIC PUMP~~ BLADDER PUMP Dedicated: (Y) / N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sunny, 90°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

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

Date: 6/13/05 By: [signature] Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: MW-126

Field Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-15-05 / 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. Organic Meter (Calibration/Reading): Volatiles (ppm) — / —

PURGE INFORMATION:

Date / Time Initiated: 6-15-05 / 1120

Date / Time Completed: 6-15-05 / 1145

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

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 5.58

Elevation. G/W MSL:

Total Depth, Feet: 13.40

Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

One (1) Riser Volume, Gal:

Dedicated: Y (N)

Total Volume Purged, Gal:

Purged To Dryness Y (N)

Purge Observations: LOW FLOW

Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1130	FLOW 150	WL 5.70		15.9	7.04	1710	36.4	1	2.47
1135	|	5.70		15.9	7.02	1710	37.1	-3	2.50
1140	|	5.70		15.8	7.09	1720	35.5	2	2.40
1145	↓	5.70		15.8	7.07	1720	34.3	4	2.37

SAMPLED AT 1150/6-15-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID MW-126

Date/Time 6-15-05 1150 Water Level @ Sampling, Feet: 5.70

Method of Sampling: ~~PERISTALTIC PUMP~~ BLADDER PUMP Dedicated: (Y) N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: Cloudy, 70°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

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

Date: 6/15/05 By: _____ Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: MW-127

Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-7-05 / 1100

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. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-7-05 / 1105

Date / Time Completed: 6-7-05 / 1130

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

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 4.85

Elevation. G/W MSL: ____

Total Depth, Feet: 11.25

Method of Well Purge: ~~BLADDER PUMP~~ PERISTALTIC PUMP

One (1) Riser Volume, Gal: ____

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 (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1110	mL/mn 50 / mL 5.21		18.3	7.44	1957	1.38	14	1.17
1115	5.30		17.8	7.58	1946	1.20	21	1.01
1120	5.39		16.9	7.60	1935	1.16	20	0.98
1125	5.42		16.5	7.65	1936	1.15	19	0.95
1130	5.47		16.2	7.69	1935	1.13	20	0.92

SAMPLED AT 1135 / 6-7-05

PL Little

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL Sample Point ID: NASS - E

Field Personnel: R.SENF/P.LITTLE Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-15-05 / 1305 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. Organic Meter (Calibration/Reading): Volatiles (ppm — / —

PURGE INFORMATION:

Date / Time Initiated: 6-15-05 / 1310 Date / Time Completed: 6-15-05 / 1335

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

Initial Water Level, Feet: 18.80 Elevation. G/W MSL:

Total Depth, Feet: Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

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

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

Purge Observations: LOW FLOW Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
	FLOW	WL							
1320	200	19.05		18.5	6.45	3670	22.6	6	0.34
1325	|	19.20		17.9	6.46	3700	31.7	2	0.26
1330	|	19.20		16.9	6.46	3690	31.7	0	0.29
1335	↓	19.20		16.8	6.47	3700	33.6	-2	0.32

SAMPLED AT 1340 / 6-15-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID NRSS - E

Date/Time 6-15-05 1340 Water Level @ Sampling, Feet: _____

Method of Sampling: ~~PERISTALTIC PUMP~~ BLADDER PUMP Dedicated: (Y) N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: CLOUDY, 70°F

Sample Characteristics: CLEAR

COMMENTS AND OBSERVATIONS:

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

Date: 6/15/05 By: [signature] Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: NESS - W

Field Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-15-05 / 1210

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. Organic Meter (Calibration/Reading):

Volatiles (ppm) — / —

PURGE INFORMATION:

Date / Time Initiated: 6-15-05 / 1215

Date / Time Completed: 6-15-05 / 1240

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

Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 32.20

Elevation. G/W MSL:

Total Depth, Feet:

Method of Well Purge: BLADDER PUMP ~~PERISTALTIC PUMP~~

One (1) Riser Volume, Gal:

Dedicated: Y / (N)

Total Volume Purged, Gal:

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 (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
	Flow	WL							
1225	200	32.25		18.5	6.93	2670	37.8	-45	0.47
1230	200	32.30		18.5	6.88	2670	16.2	-69	0.32
1235	200	32.30		18.5	6.88	2670	25.2	-70	0.29
1240	200	32.30		18.6	6.86	2670	20.6	-72	0.28

SAMPLED AT 1240/6-15-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID NASS - W

Date/Time 6-15-05 / 1240 Water Level @ Sampling, Feet: _____

Method of Sampling: ~~PERISTALTIC PUMP~~ BLADDER PUMP Dedicated: (Y) / N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: Cloudy, 70°F

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

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

Date: 6/15/05 By: [signature] Company: STL

LeachField Form
Revision 0
March 15,2002

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: PW-10

Field Personnel: P. Little, T. Palmer

Sample Matrix: GW

(X) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 6-9-05 / 1305

Water Level @ Sampling, Feet: Covered with manual Hollow

Method of Sampling: Sample Port

Dedicated: (Y) / N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1300	22.4	8.22	7725	19.5	-140	

INSTRUMENT CHECK DATA:

Turbidity Serial #: ________ NTU std. = ____ NTU ____ NTU std. = ____ NTU
Solutions: ________

Serial #: ________ 4.0 std.= ________ 7.0 std.= ________ 10.0 std. = ________
Solutions: ________

Conductivity Serial #: ________ ____ umhos/cm= ____ ____ umhos/cm= ____
Solutions: ________

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sun 90°

Sample Characteristics: Amber Clear

COMMENTS AND OBSERVATIONS: Unpres VIAL

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

Date: 6/9/05 By: [signature] Company: STL

LeachField Form
Revision 0
March 15,2002

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL Sample Point ID: PW-11

Field Personnel: R. Little, T. Palmer Sample Matrix: GW

(K) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 6-9-05 1030 Water Level @ Sampling, Feet: 28.13

Method of Sampling: SAMP. PUMP Dedicated: (Y) N

Multi-phased/ layered: ( ) Yes (K) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1032	19.2	8.40	5045	12.7	-112	

INSTRUMENT CHECK DATA:

Turbidity Serial #: 3121 NTU std. = 20 NTU 20 NTU std. = 20 NTU

Solutions: CHA-48-E

Serial #: 614162 4.0 std.= 4.00 7.0 std.= 7.00 10.0 std. = _____

Solutions: 4-5045, 7-5015

Conductivity Serial #: 614162 1392 umhos/cm= 1392 _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: SUN 80°

Sample Characteristics: clear

COMMENTS AND OBSERVATIONS:

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

Date: 6/9/05 By: M Lee Company: SA

LeachField Form
Revision 0
March 15,2002

FIELD OBSERVATIONS

cility: ARCH CHEMICAL Sample Point ID: PW-12

Field Personnel: R. Little, T. Palmer Sample Matrix: GW

(K) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 6-9-05 1240 Water Level @ Sampling, Feet: 7.32

Method of Sampling: SAMP. PUMP Dedicated: (Y) N

Multi-phased/ layered: ( ) Yes (K) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1242	33.5	7.48	4612	15.72	-200	

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: _____

Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: _____

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: _____

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sun 90°

Sample Characteristics: Yellow Tint Clear

COMMENTS AND OBSERVATIONS:

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

Date: 6/9/05 By: [signature] Company: STC

LeachField Form
Revision 0
March 15,2002

FIELD OBSERVATIONS

cility: ARCH CHEMICAL Sample Point ID: PW-13

Field Personnel: P. Little, T. Palmer Sample Matrix: GW

(K) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 6-9-05 1215 Water Level @ Sampling, Feet: 27.66

Method of Sampling: SAMP. PUMP Dedicated: (Y) / N

Multi-phased/ layered: ( ) Yes (K) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1218	19.1	7.62	2093	7.84	-175	

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

Solutions: _____

pH Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

Solutions: _____

Conductivity Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

Solutions: _____

GENERAL INFORMATION:

Weather conditions @ time of sampling: SUN 88°

Sample Characteristics: Clear SC Sheen

COMMENTS AND OBSERVATIONS:

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

Date: 6/9/05 By: M Little Company: SR

LeachField Form
Revision 0
March 15,2002

FIELD OBSERVATIONS

cility: ARCH CHEMICAL Sample Point ID: PW-14

Field Personnel: R. Little, T. Pacheco Sample Matrix: GW

(X) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 6-9-05 1315 Water Level @ Sampling, Feet: 34.03

Method of Sampling: SAMP. PUMP Dedicated: (Y) / N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1318	17.4	8.54	4398	25.5	-157	

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: _____

~~pH~~ Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: _____

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: _____

GENERAL INFORMATION:

Weather conditions @ time of sampling: Cloudy 90°

Sample Characteristics: Yellow Tint

COMMENTS AND OBSERVATIONS: _____

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

Date: 6/9/05 By: _____ Company: SEC

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: PZ-101

Field Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-13-05 / 1122 ~~1128~~ PL

Cond of seal: ( ) Good ( ) Cracked ____ %
( ) None ( ) Buried

Prot. Casing/riser height: ____

Cond of prot. Casing/riser: ( ) Unlocked ( ) Good
( ) Loose ( ) Flush Mount
( ) Damaged ____

If prot.casing; depth to riser below: ____

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

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) ____ / ____

PURGE INFORMATION:

Date / Time Initiated: 6-13-05 / 1125

Date / Time Completed: 6-13-05 / 1145

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

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 12.88

Elevation. G/W MSL: ____

Total Depth, Feet: 21.69

Method of Well Purge: ~~BLADDER PUMP~~ PERISTALTIC PUMP

One (1) Riser Volume, Gal: ____

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 (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1130	150 / 13.10		19.1	6.82	5254	4.61	-30	1.17
1135			19.6	7.02	3917	3.11	-33	1.01
1140			20.1	7.00	3891	2.90	-35	.97
1145			20.2	7.01	3882	2.69	-36	.96

SAMPLED AT 1150 / 6-13-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: P2-102

Field Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-13-05 / 1216

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. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-13-05 / 1220

Date / Time Completed: 6-13-05 / 1240

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

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 12.25

Elevation. G/W MSL: ____

Total Depth, Feet: 32.60

Method of Well Purge: ~~BLADDER PUMP~~ PERISTALTIC PUMP

One (1) Riser Volume, Gal: ____

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 (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1225	mL/m 200	ac 12.33		16.3	7.17	3156	2.10	-27	.98
1230				15.9	7.20	3827	1.83	-39	.94
1235				16.0	7.25	3901	1.72	-43	.90
1240				16.3	7.33	3910	.89	-44	.87

SAMPLED AT 1245 / 6-13-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: P2-103

Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-13-05 / 1302

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. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6/13/05 / 1305

Date / Time Completed: 6/13/05 / 1325

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

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 12.44

Elevation. G/W MSL: ____

Total Depth, Feet: 32.52

Method of Well Purge: ~~BLADDER PUMP~~ PERISTALTIC PUMP

One (1) Riser Volume, Gal: ____

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 (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1310	mL/m 200	uL 12.72		17.4	7.50	3644	1.32	-159	1.61
1315	↓	↓		16.6	7.48	3371	1.79	-162	1.55
1320				16.2	7.38	3367	1.70	-164	1.49
1325	↓	↓		16.6	7.29	3360	1.65	-166	1.42

SAMPLED AT 1330/6-13-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: P2-104

Field Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-13-05 / 1020

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. Organic Meter (Calibration/Reading): Volatiles (ppm) ~~0~~ / ~~0~~

PURGE INFORMATION:

Date / Time Initiated: 6-13-05 / 1030

Date / Time Completed: 6-13-05 / 1050

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

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 12.83

Elevation. G/W MSL: ____

Total Depth, Feet: 23.13

Method of Well Purge: ~~BLADDER PUMP~~ PERISTALTIC PUMP

One (1) Riser Volume, Gal: ____

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 (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1035	200 ml/min	mL 12.90		15.2	7.33	1924	11.3	-78	1.15
1040				14.9	7.00	1924	3.55	-87	1.01
1045				15.1	6.98	1921	2.04	-90	0.97
1050				15.2	6.99	1920	1.97	-93	0.95

SAMPLED AT 1055 / 6-13-05

Field Form
Revision 0
03/14/02

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other (DO)
1052	15.2	7.01	1920	1.94	-.94	6.93

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL Sample Point ID: PZ-10S'

Field Personnel: R.SENF/P.LITTLE Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-7-05 / 1338 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. Organic Meter (Calibration/Reading): Volatiles (ppm) ____ / ____

PURGE INFORMATION:

Date / Time Initiated: 6-7-05/1346 Date / Time Completed: 6-7-05/1406

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

Initial Water Level, Feet: 8.87 Elevation. G/W MSL: ____

Total Depth, Feet: 32.86 Method of Well Purge: ~~BLADDER PUMP~~ PERISTALTIC PUMP

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

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

Purge Observations: ____ Start SC TUBING 6/7 Finish SC TUBING 6/7

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1345	75 ml/m	9.81 Ltr	18.7	8.52	1205	91.5	-135	1.10
1350		10.73	18.5	8.41	1220	90.9	-156	-97
1355		11.11	18.6	7.94	1241	89.7	-165	-93
1400		12.32	18.4	7.90	1247	90.2	-170	-90

SAMPLED AT 1405/6-7-05 PL Little

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: PZ-106

Field Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-8-05 / 1227

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. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-8-05 / 1230

Date / Time Completed: 6-8-05 / 1250

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

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 14.91

Elevation. G/W MSL: ____

Total Depth, Feet: 27.80

Method of Well Purge: ~~BLADDER PUMP~~ PERISTALTIC PUMP

One (1) Riser Volume, Gal: ____

Dedicated: (Y) / N

Total Volume Purged, Gal: ____

Purged To Dryness Y / (N)

Purge Observations: ____

Start Yellow Tint Clear Finish Yellow Tint Clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1235	15.30		17.9	8.51	4617	15.6	-186	1.11
1240	15.75		16.5	7.06	4203	15.4	-169	1.02
1245	16.61		16.6	6.91	4190	12.3	-172	.95
1250	16.30		17.1	6.75	4110	12.1	-173	.90

SAMPLED AT 1255 / 6-8-05 JL Low

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: P2-107

Field Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-7-05 / 1419

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. Organic Meter (Calibration/Reading): Volatiles (ppm) ____ / ____

PURGE INFORMATION:

Date / Time Initiated: 6-7-05 / 1420

Date / Time Completed: 6-7-05 / 1440

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

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 6.73

Elevation. G/W MSL: ____

Total Depth, Feet: 27.90

Method of Well Purge: ~~BLADDER PUMP~~ PERISTALTIC PUMP

One (1) Riser Volume, Gal: ____

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 (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1425	W/W 200 / WL 6.83		14.5	7.42	3553	2.18	-111	1.10
1430			14.0	7.37	3609	1.11	-119	.78
1435			13.8	7.36	3661	1.10	-120	.95
1440		1.5	13.4	7.36	3675	0.97	-122	.90

SAMPLED AT 1445 / 6-7-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

LeachField Form
Revision 0
March 15,2002

FIELD OBSERVATIONS

cility: ARCH Sample Point ID: SD-1

Field Personnel: R. SENA Sample Matrix: S/W

(X) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 6-16-05 1230 Water Level @ Sampling, Feet: N/A

Method of Sampling: MANUAL GRAB Dedicated: (Y)/ N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1235	17.5	7.44	1838		86	

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = ____ NTU ____ NTU std. = ____ NTU

Solutions: _____

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: _____

Conductivity Serial #: _____ ____ umhos/cm= ____ ____ umhos/cm= ____

Solutions: _____

GENERAL INFORMATION:

Weather conditions @ time of sampling: RAIN, 65°F

Sample Characteristics: CLEAR

COMMENTS AND OBSERVATIONS:

_____

_____

_____

ertify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific locals.

Date: 6/16/05 By: _____ Company: STC

LeachField Form
Revision 0
March 15,2002

FIELD OBSERVATIONS

cility: ARCH Sample Point ID: QO-2

Field Personnel: R. SENF Sample Matrix: S/W

(X) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 6-16-05 1300 Water Level @ Sampling, Feet: N/A

Method of Sampling: MANUAL GRAB Dedicated: (Y) / N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1305	18.4	7.98	1713		86	

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: _____

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: _____

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: _____

GENERAL INFORMATION:

Weather conditions @ time of sampling: RAIN, 65°F

Sample Characteristics: CLEAR

COMMENTS AND OBSERVATIONS:

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

Date: 6/16/05 By: _____ Company: STC

LeachField Form
Revision 0
March 15,2002

FIELD OBSERVATIONS

cility: ACCH Sample Point ID: GO-251

Field Personnel: R. SRAF Sample Matrix: S/W

(X) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 6-16-05 1315 Water Level @ Sampling, Feet: N/A

Method of Sampling: DIPPER Dedicated: (Y) / N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1320	23.2	7.92	492		81	

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: _____

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: _____

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: _____

GENERAL INFORMATION:

Weather conditions @ time of sampling: RAIN, 65°F

Sample Characteristics: CLEAR

COMMENTS AND OBSERVATIONS:

_____

_____

_____

_____

ertify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific tocals.

Date: 6/16/05 By: _____ Company: SK

LeachField Form
Revision 0
March 15,2002

FIELD OBSERVATIONS

cility: ARCH Sample Point ID: QS-4

Field Personnel: R. STOUT Sample Matrix: SEEP

(X) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 6-16-05 1120 Water Level @ Sampling, Feet: N/A

Method of Sampling: MANUAL GRAB Dedicated: (Y) N

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

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1210	14.3	7.40	1656		102	

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: _____

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: _____

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: _____

GENERAL INFORMATION:

Weather conditions @ time of sampling: RAIN, 65°F

Sample Characteristics: CLEAR

COMMENTS AND OBSERVATIONS: _____

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

Date: 6/16/05 By: [signature] Company: STC

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: S-3

Field Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

VAULT

Date/Time 6-8-05 / 1037

Cond of seal: ( ) Good ( ) Cracked ( ) None ( ) Buried %

Prot. Casing/riser height:

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

If prot.casing; depth to riser below:

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

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) 0 / 0

PURGE INFORMATION:

Date / Time Initiated: 6-8-05 / 1040

Date / Time Completed: 6-8-05 / 1100

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

Riser Diameter, Inches: —

Initial Water Level, Feet: 2.56

Elevation. G/W MSL:

Total Depth, Feet: —

Method of Well Purge: ~~BLADDER PUMP~~ PERISTALTIC PUMP

One (1) Riser Volume, Gal:

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 (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1045	256		17.3	7.59	3034	4.85	-40	1.36
1050	↓		16.8	7.52	3045	5.05	-37	1.10
1055	↓		16.1	7.53	3055	4.28	-38	.95
1100	↓		16.5	7.53	3062	3.32	-59	-93

SAMPLED AT 1105 / 6-8-05

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____/_____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

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

Date: / / By: _____ Company: STL

FIELD OBSERVATIONS

Facility: ARCH CHEMICAL

Sample Point ID: S-4

Field Personnel: R.SENF/P.LITTLE

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 6-8-05 / 1110

Cond of seal: ( ) Good ( ) Cracked VAULT %
( ) None ( ) Buried

Prot. Casing/riser height:

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

If prot.casing; depth to riser below:

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

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm /

PURGE INFORMATION:

Date / Time Initiated: 6-8-05 / 1115

Date / Time Completed: 6-8-05 / 1135

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

Riser Diameter, Inches: VAULT

Initial Water Level, Feet: .72

Elevation. G/W MSL:

Total Depth, Feet:

Method of Well Purge: ~~BLADDER PUMP~~ PERISTALTIC PUMP

One (1) Riser Volume, Gal:

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 (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1120	.72		16.3	7.67	4203	8.64	-9	1.56
1125	↓		15.8	7.92	4216	8.09	-39	1.21
1130	↓		16.2	8.07	4220	7.92	-42	1.06
1135	↓		16.7	8.07	4222	7.57	-45	.90

SAMPLED AT 1140 / 6-8-05
All Lite

FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION: POINT ID _____

Date/Time _____ / _____ Water Level @ Sampling, Feet: _____

Method of Sampling: PERISTALTIC PUMP Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

Solutions: CHA-48-E

pH Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

Solutions: 4-5045 7-5015

Conductivity Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

Solutions: 3312

GENERAL INFORMATION:

Weather conditions @ time of sampling: _____

Sample Characteristics: _____

COMMENTS AND OBSERVATIONS: _____

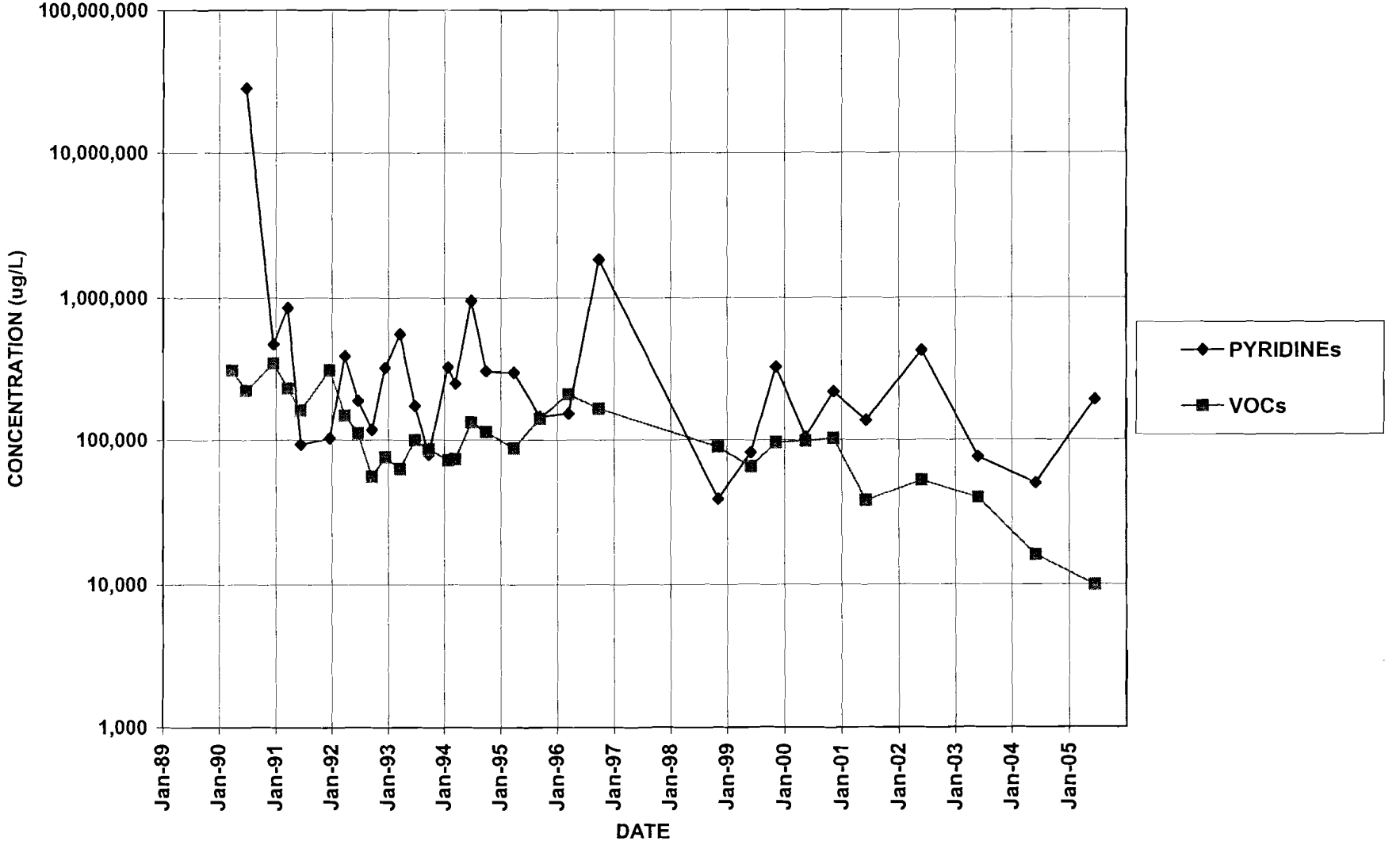
I certify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocals.

Date: / / By: _____ Company: STL

Appendix B

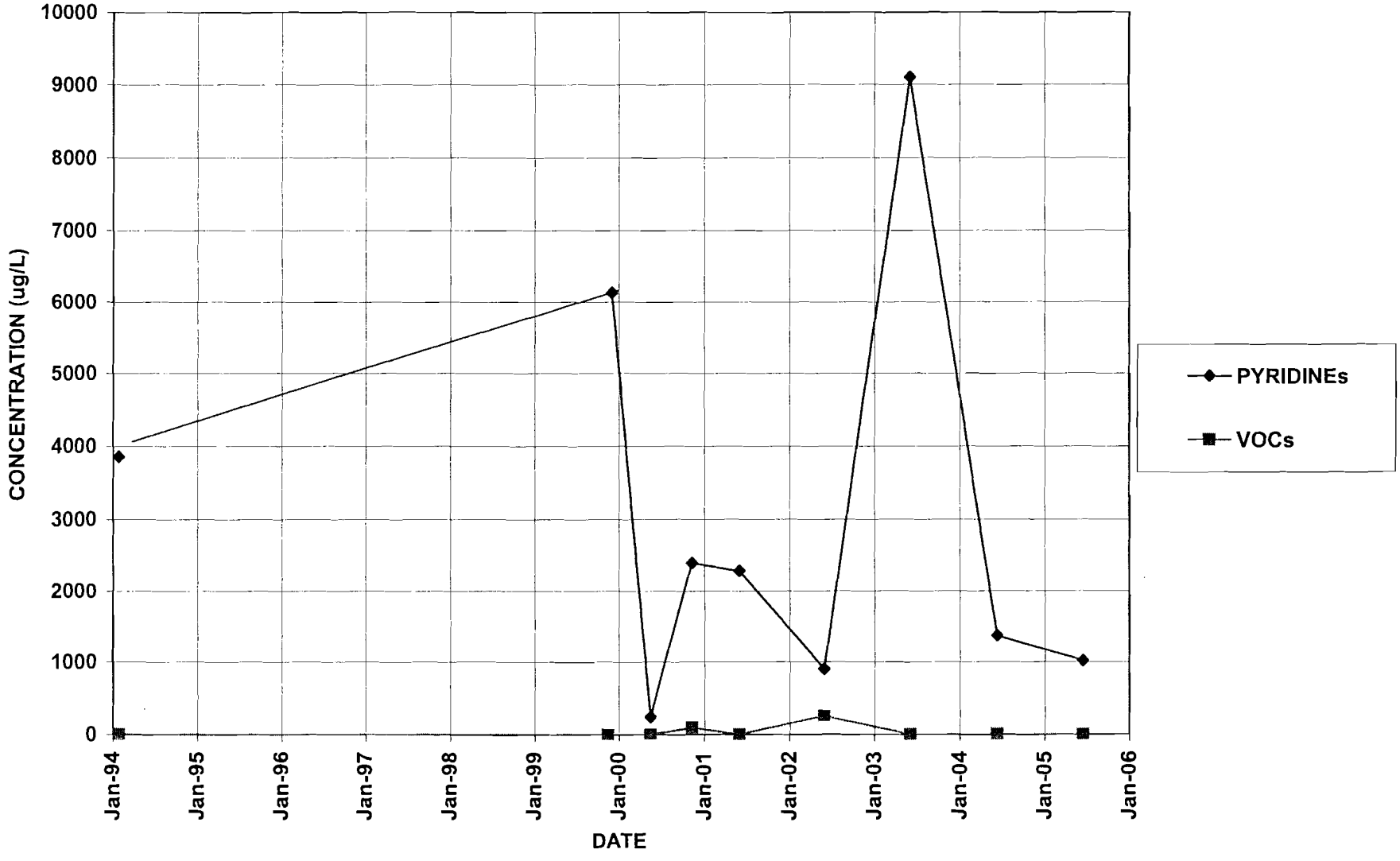
Well Trend Data

B-17



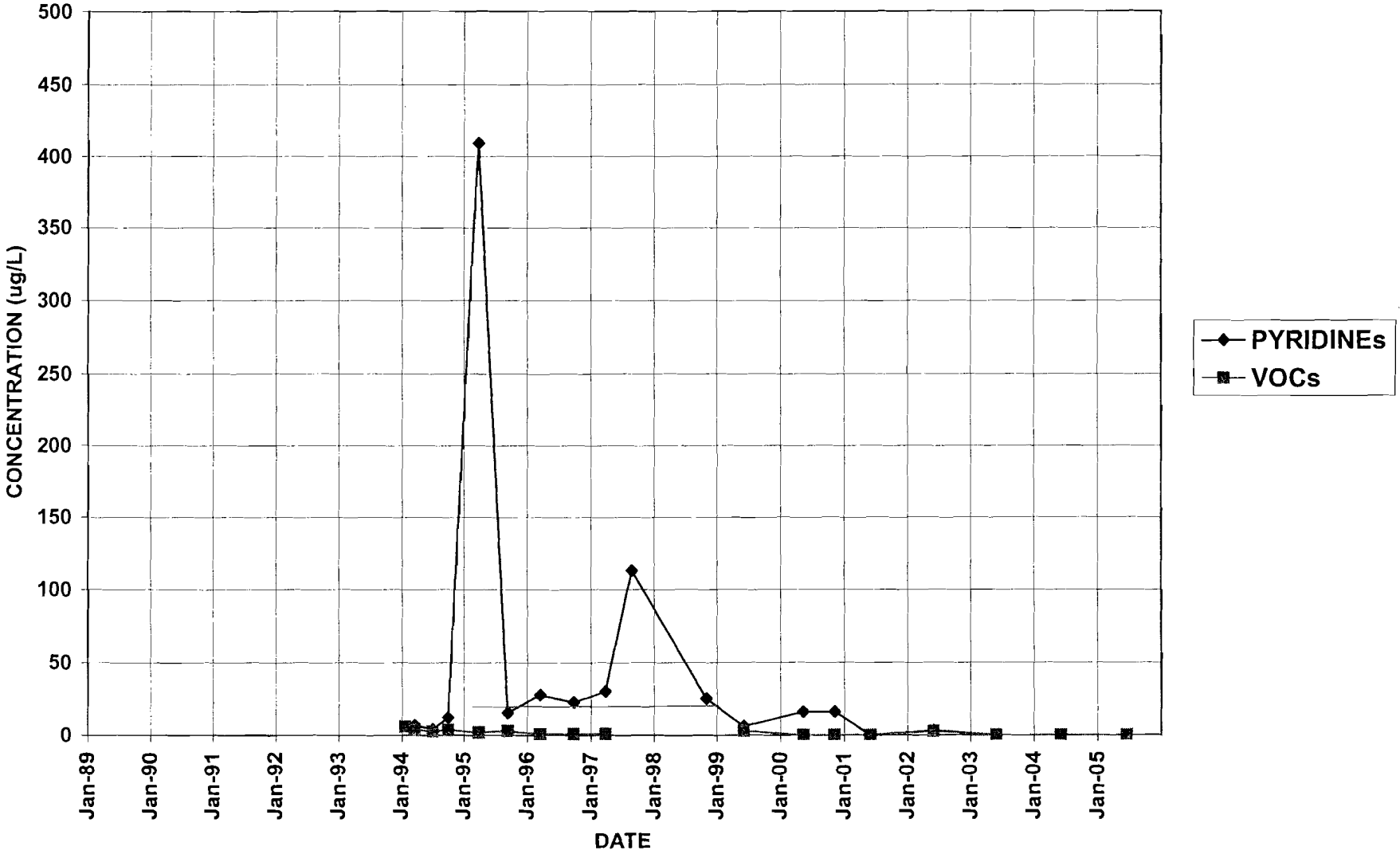
Prepared by: nmb
Reviewed by: jrb

B-7



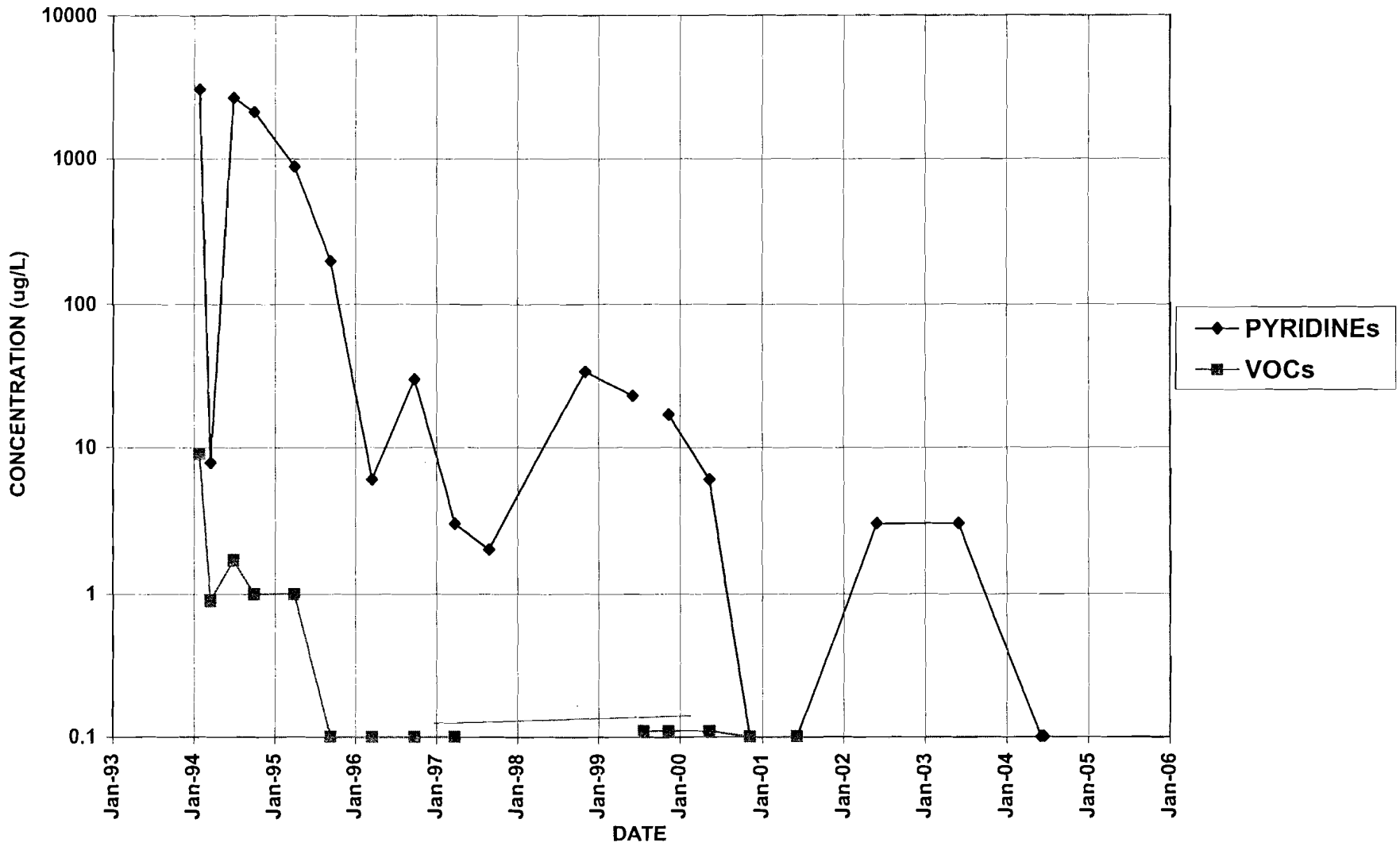
Prepared by: nmb
Reviewed by: jrb

BR-103

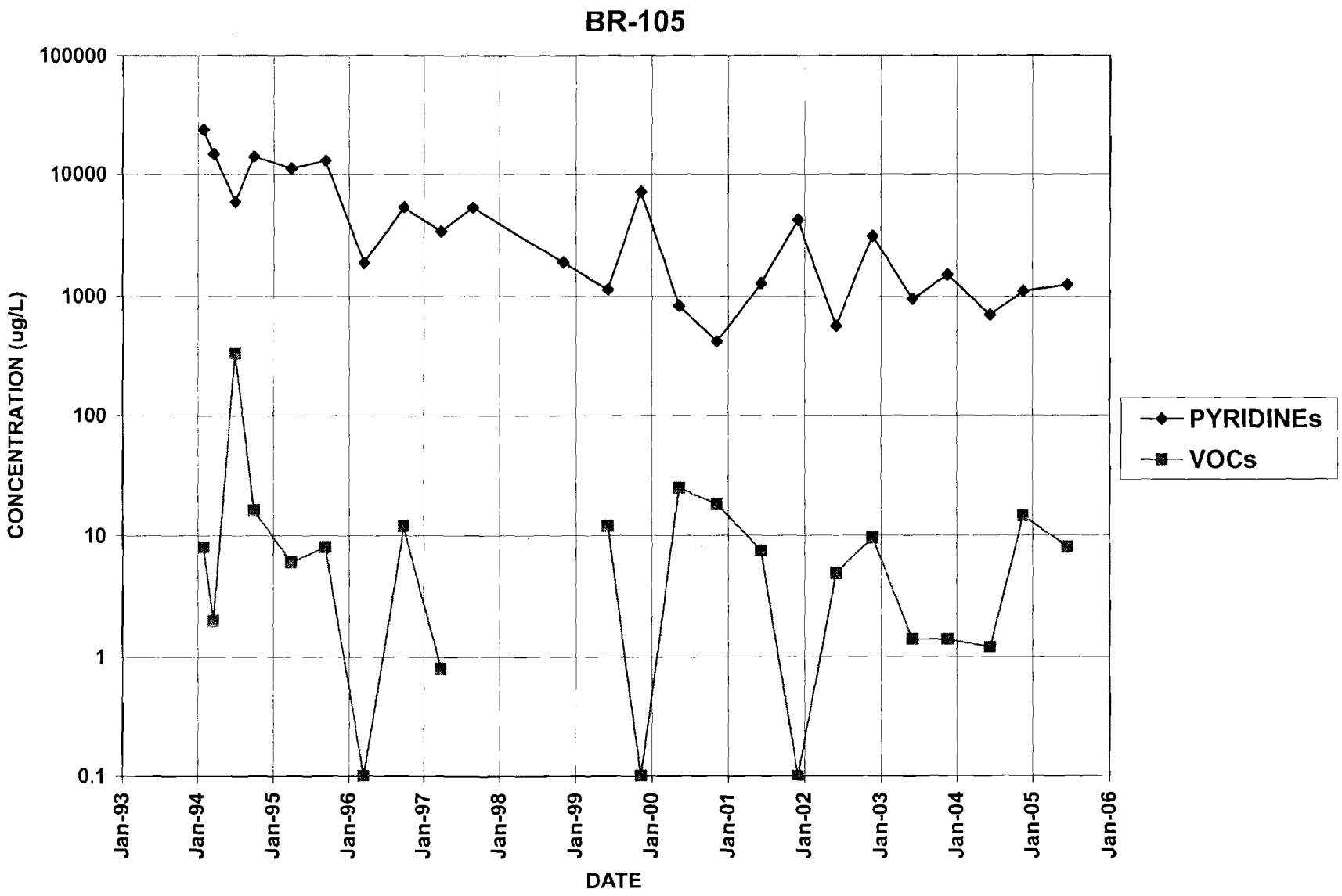


Prepared by: nmb
Reviewed by: jrb

BR-104

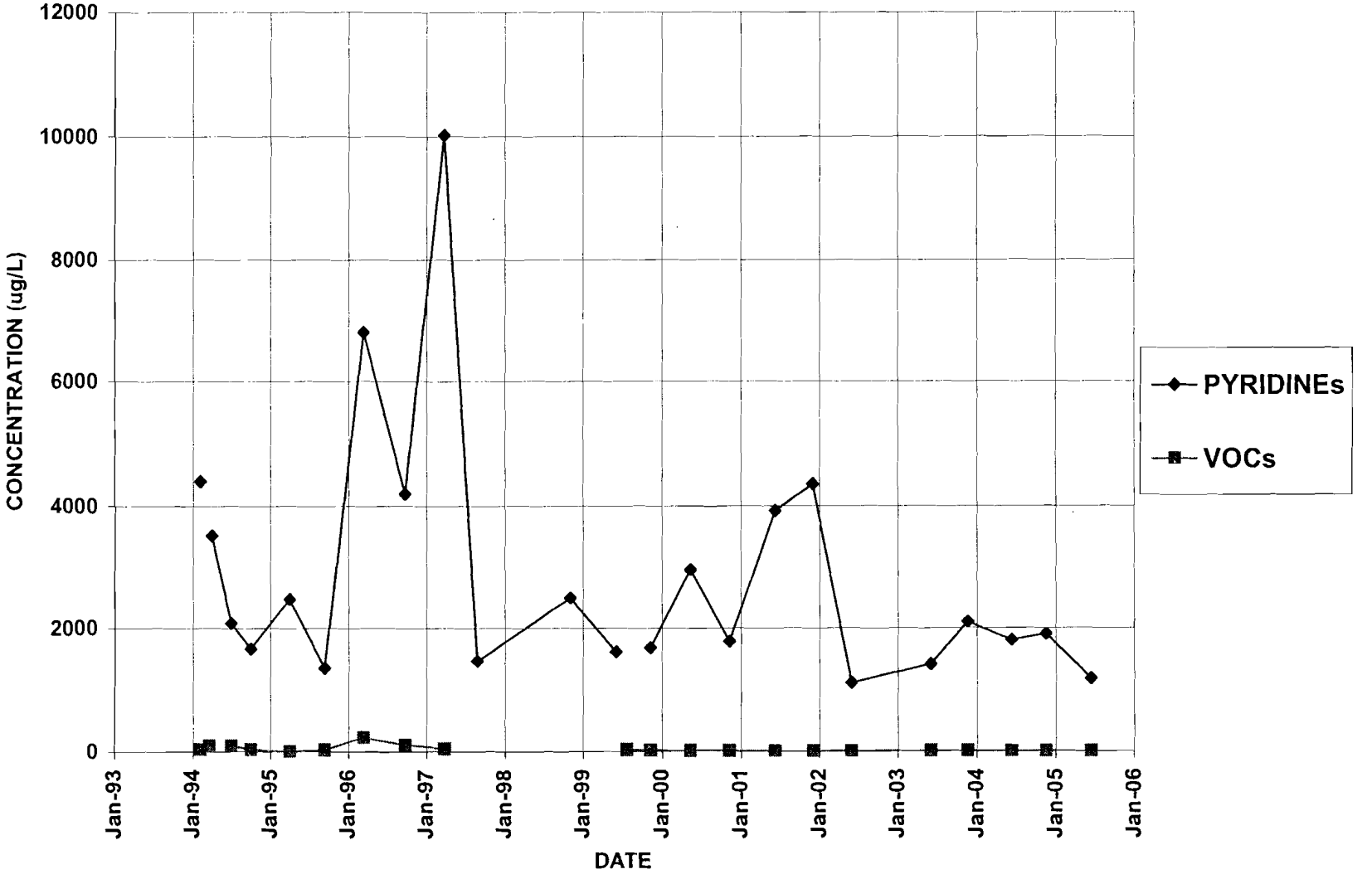


Prepared by: nmb
Reviewed by: jrb



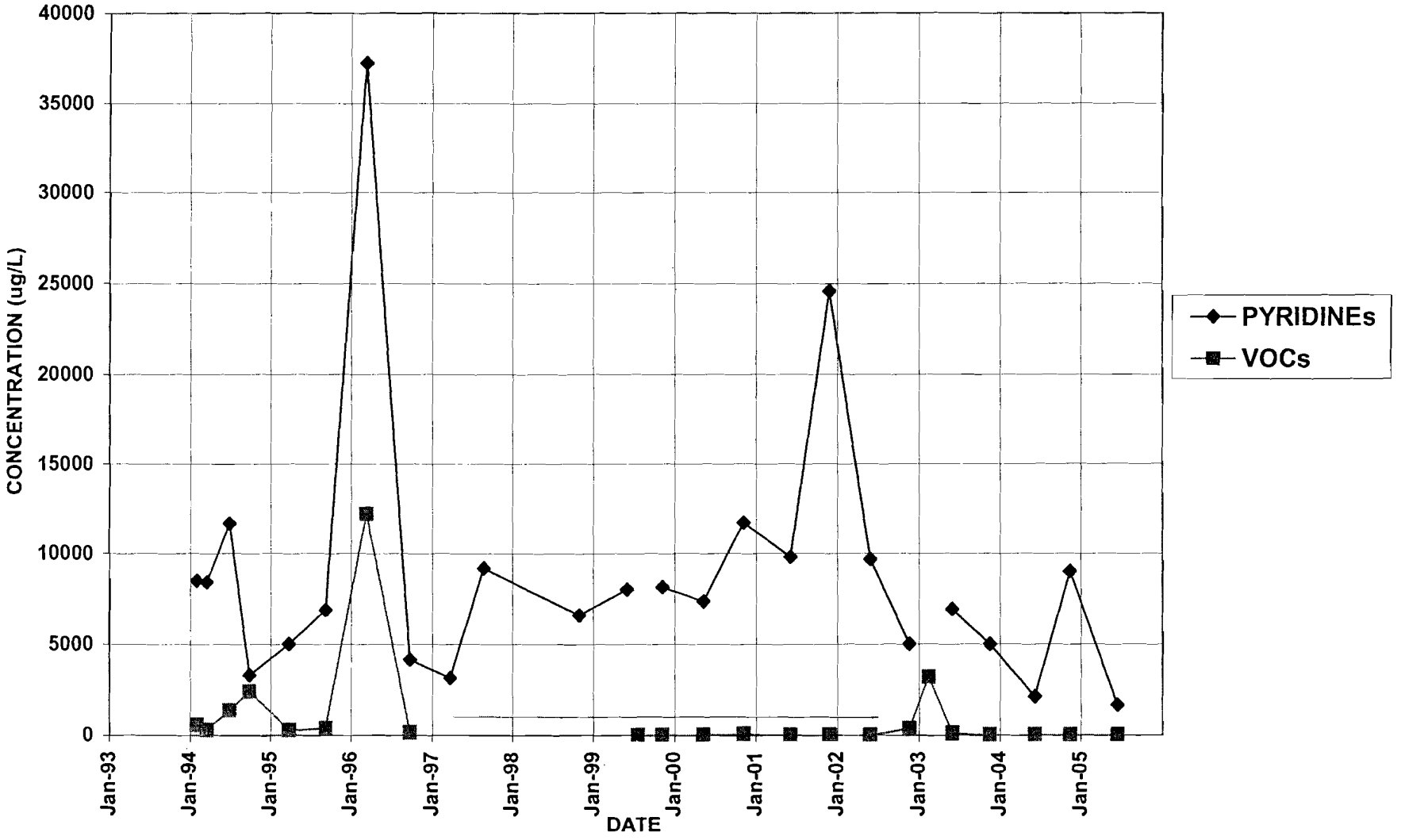
Prepared by: nmb
Reviewed by: jrb

BR-105D



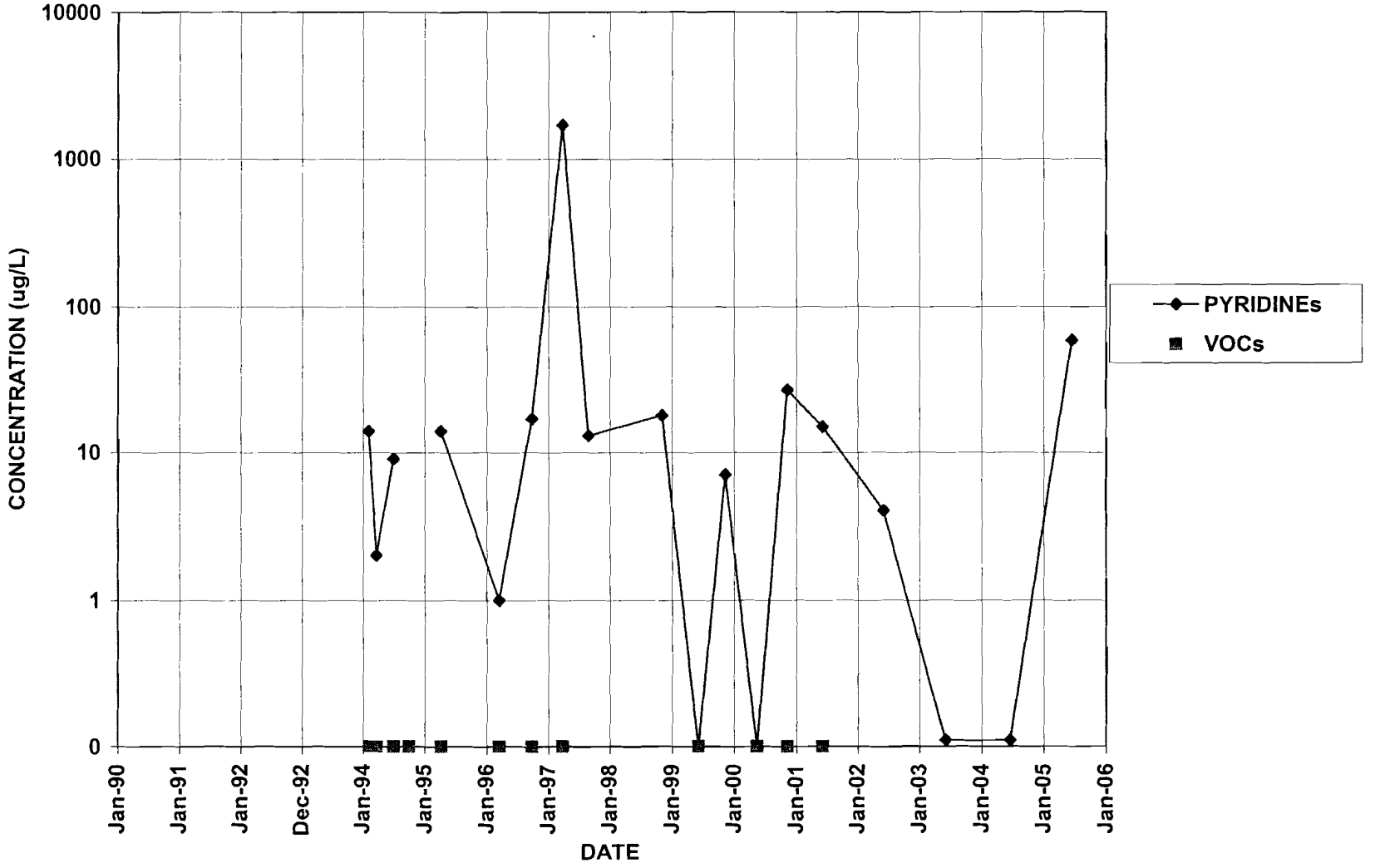
Prepared by: nmb
Reviewed by: jrb

BR-106



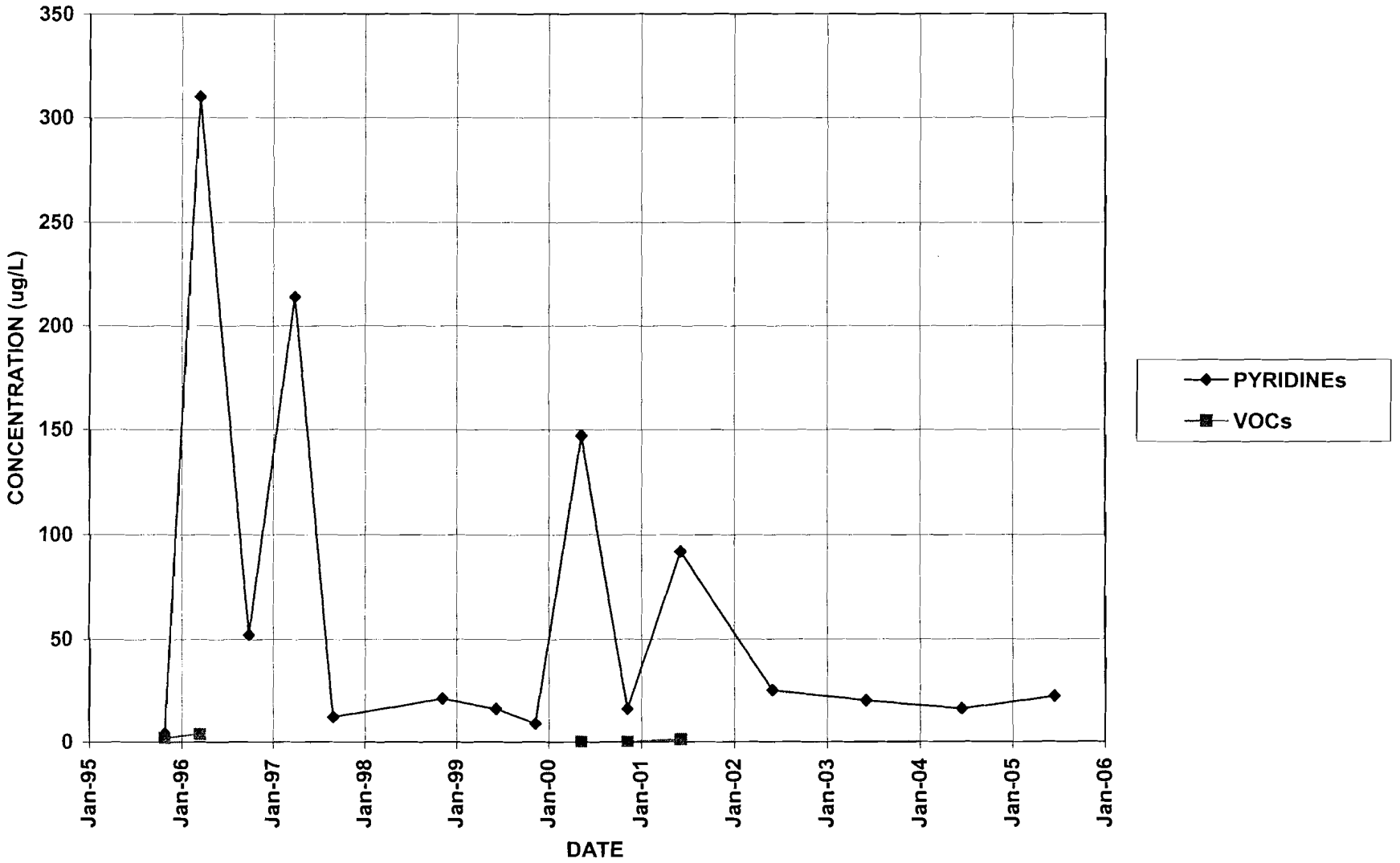
Prepared by: nmb
Reviewed by: jrb

BR-108



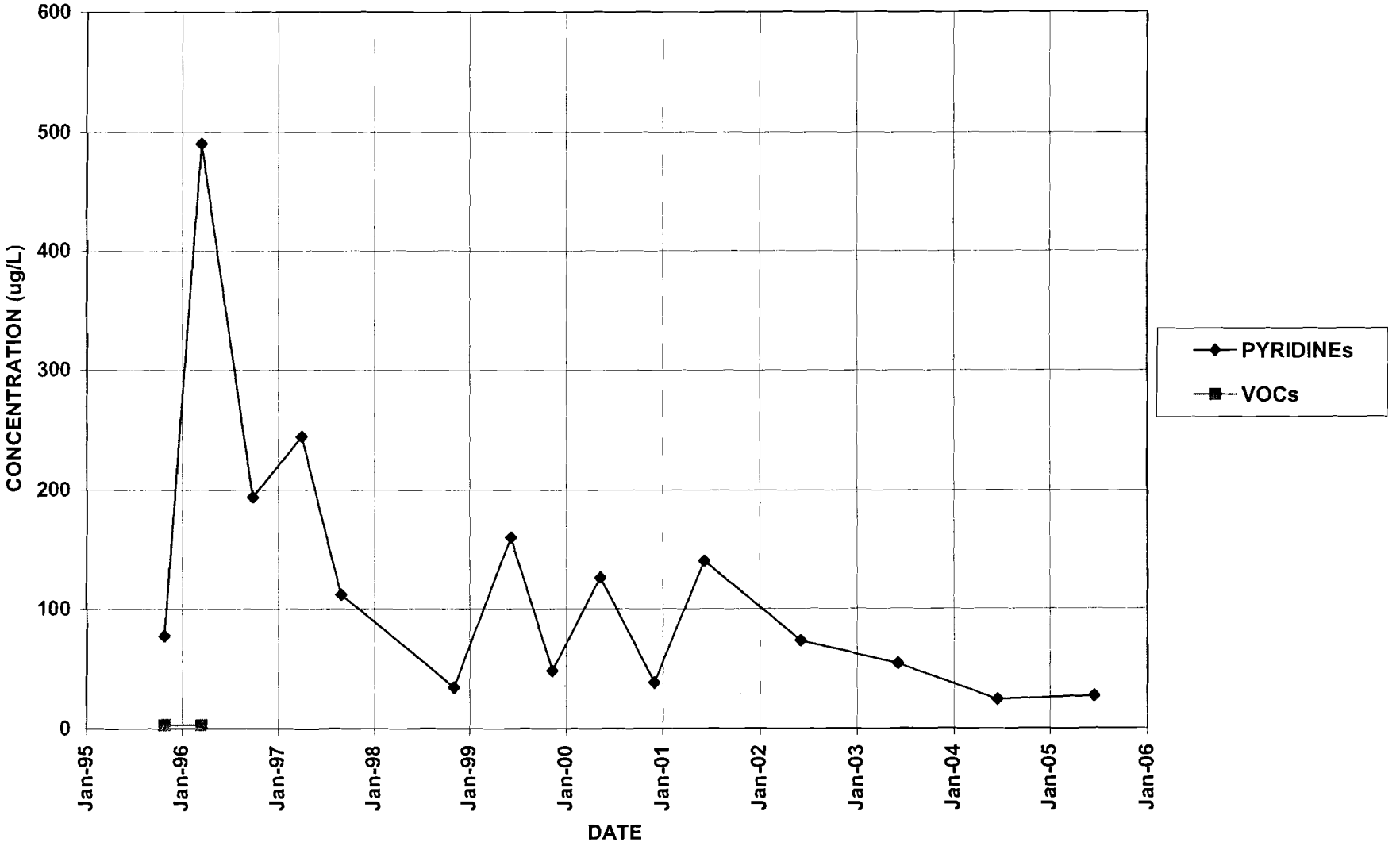
Prepared by: nmb
Reviewed by: jrb

BR-112D



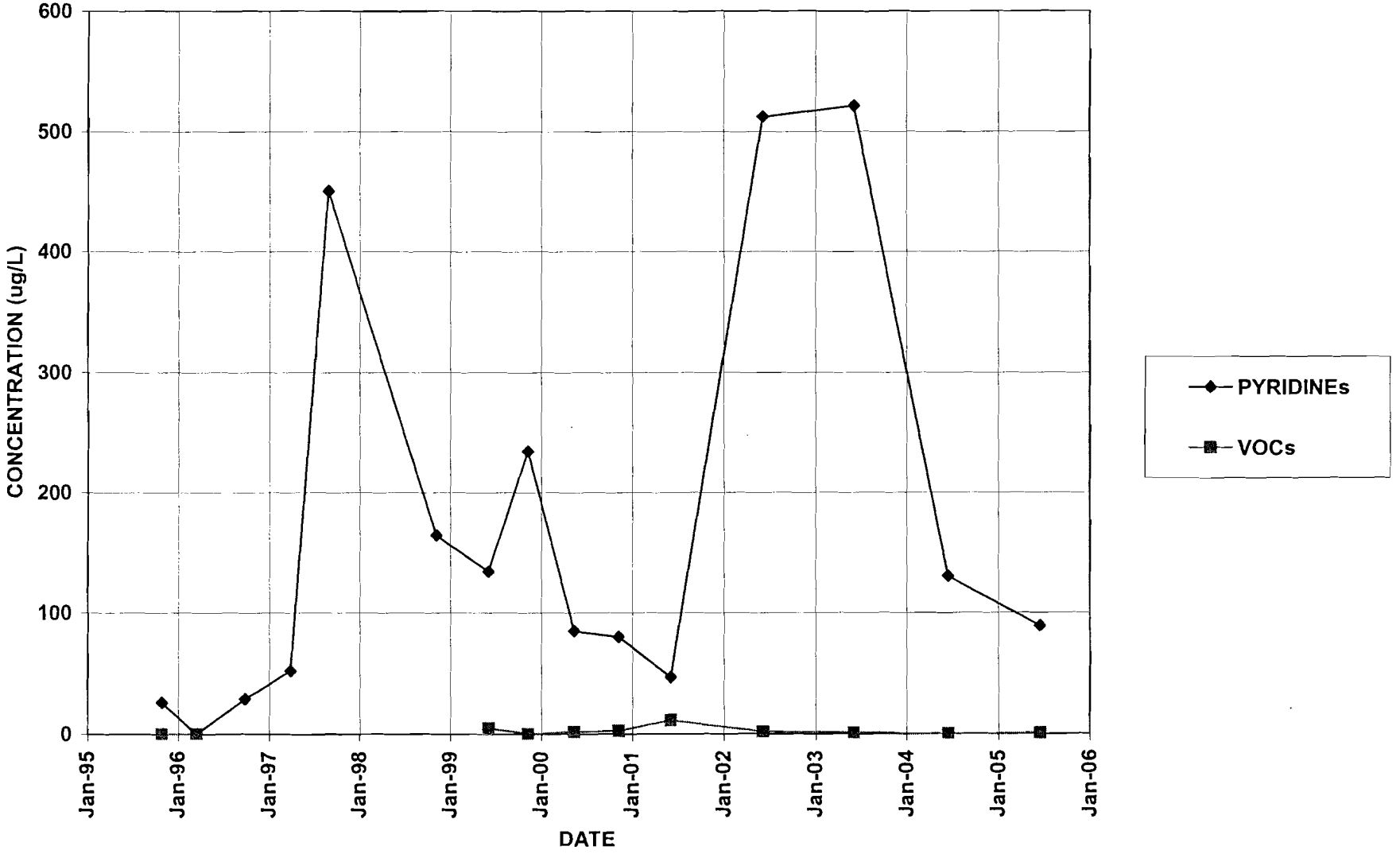
Prepared by: nmb
Reviewed by: jrb

BR-113D



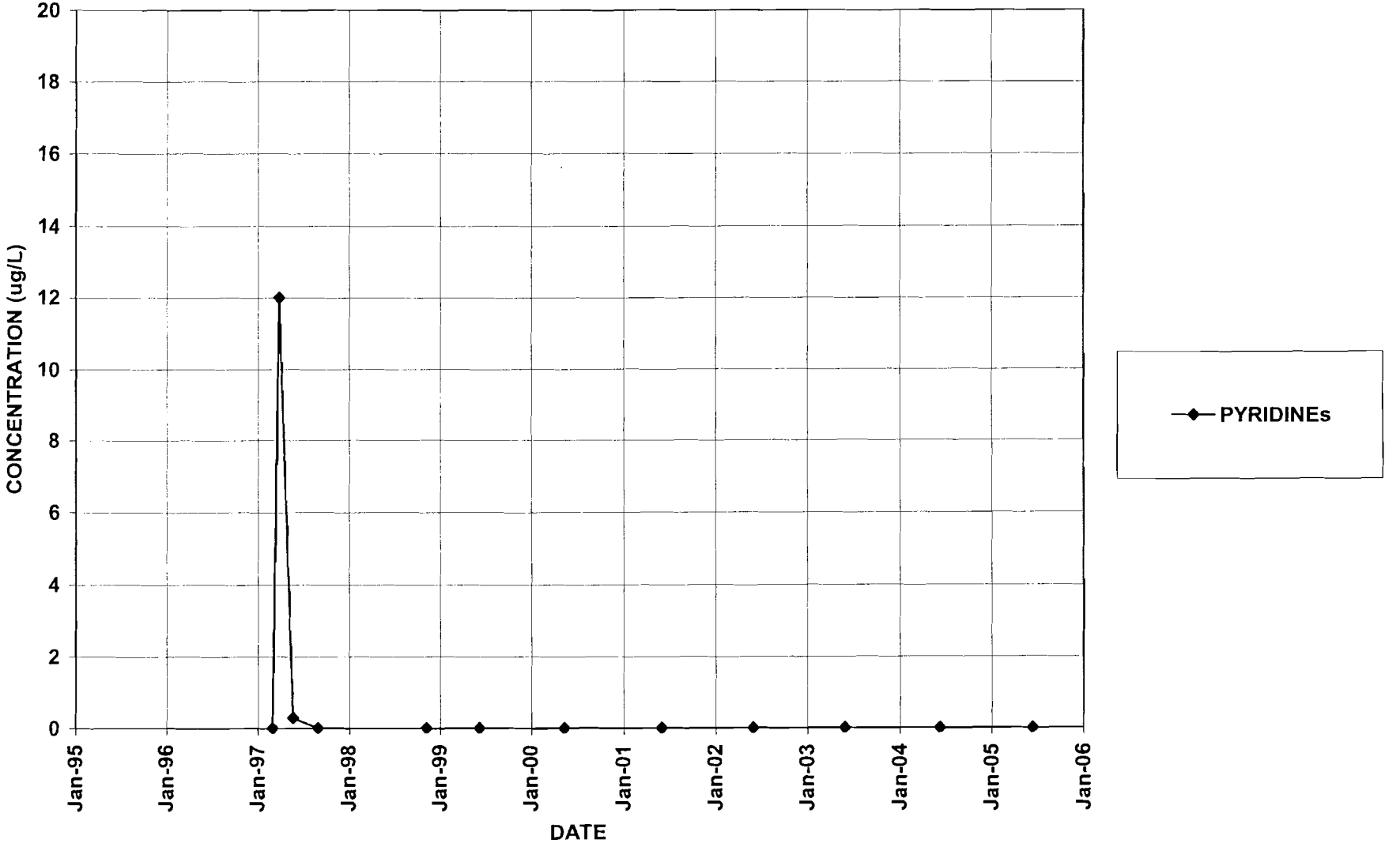
Prepared by: nmb
Reviewed by: jrb

BR-114



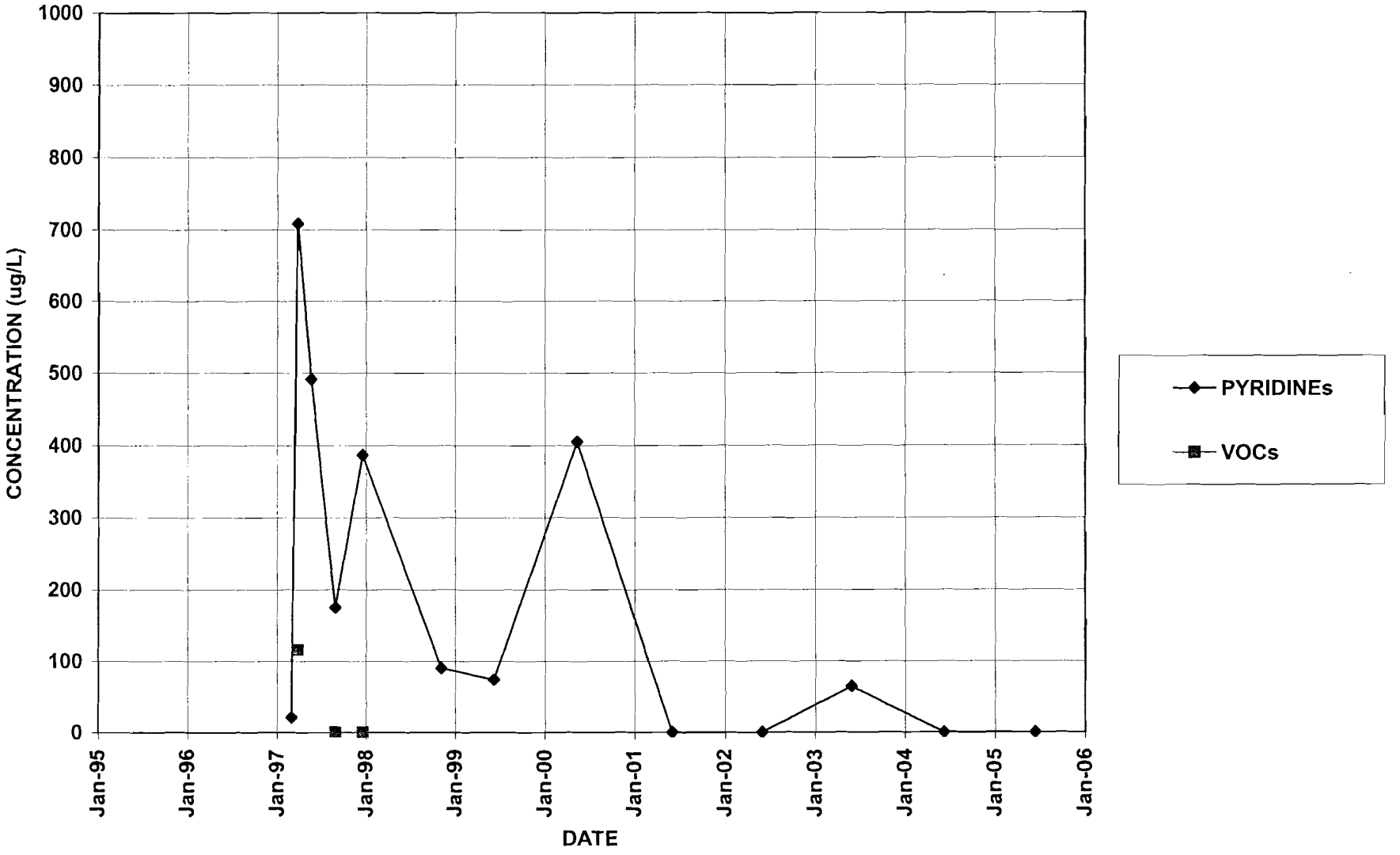
Prepared by: nmb
Reviewed by: jrb

BR-116



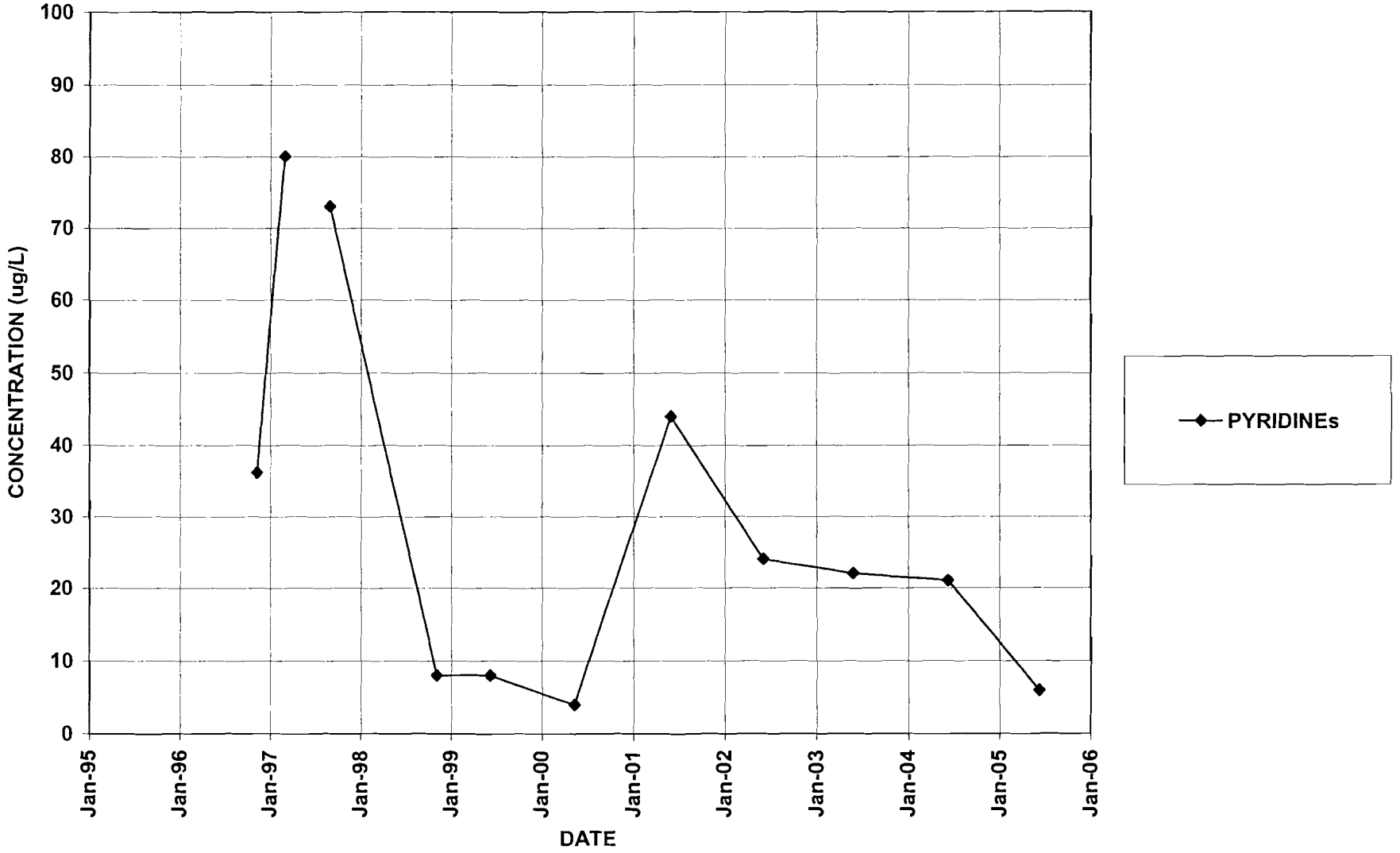
Prepared by: nmb
Reviewed by: jrb

BR-116D



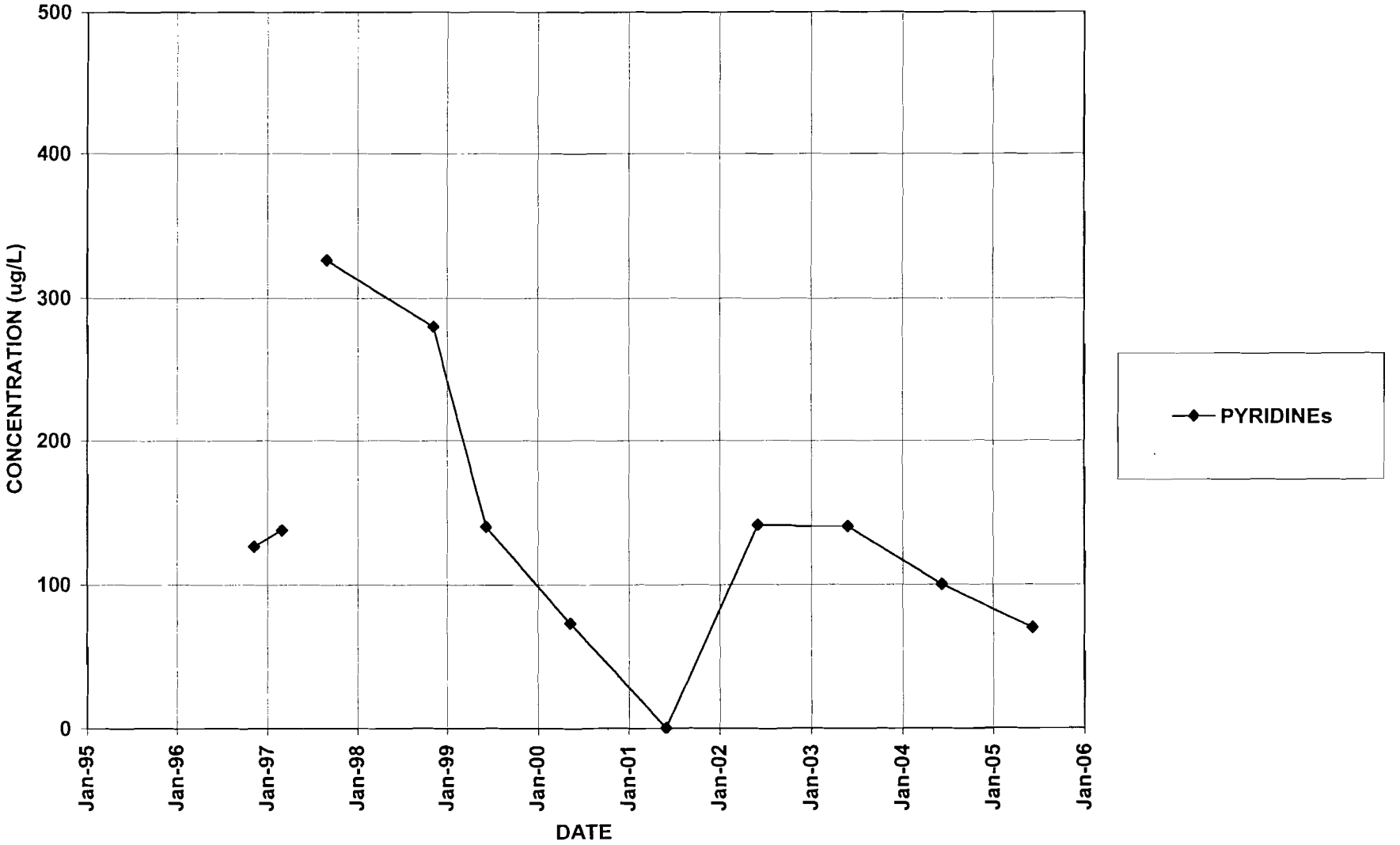
Prepared by: nmb
Reviewed by: jrb

BR-117D



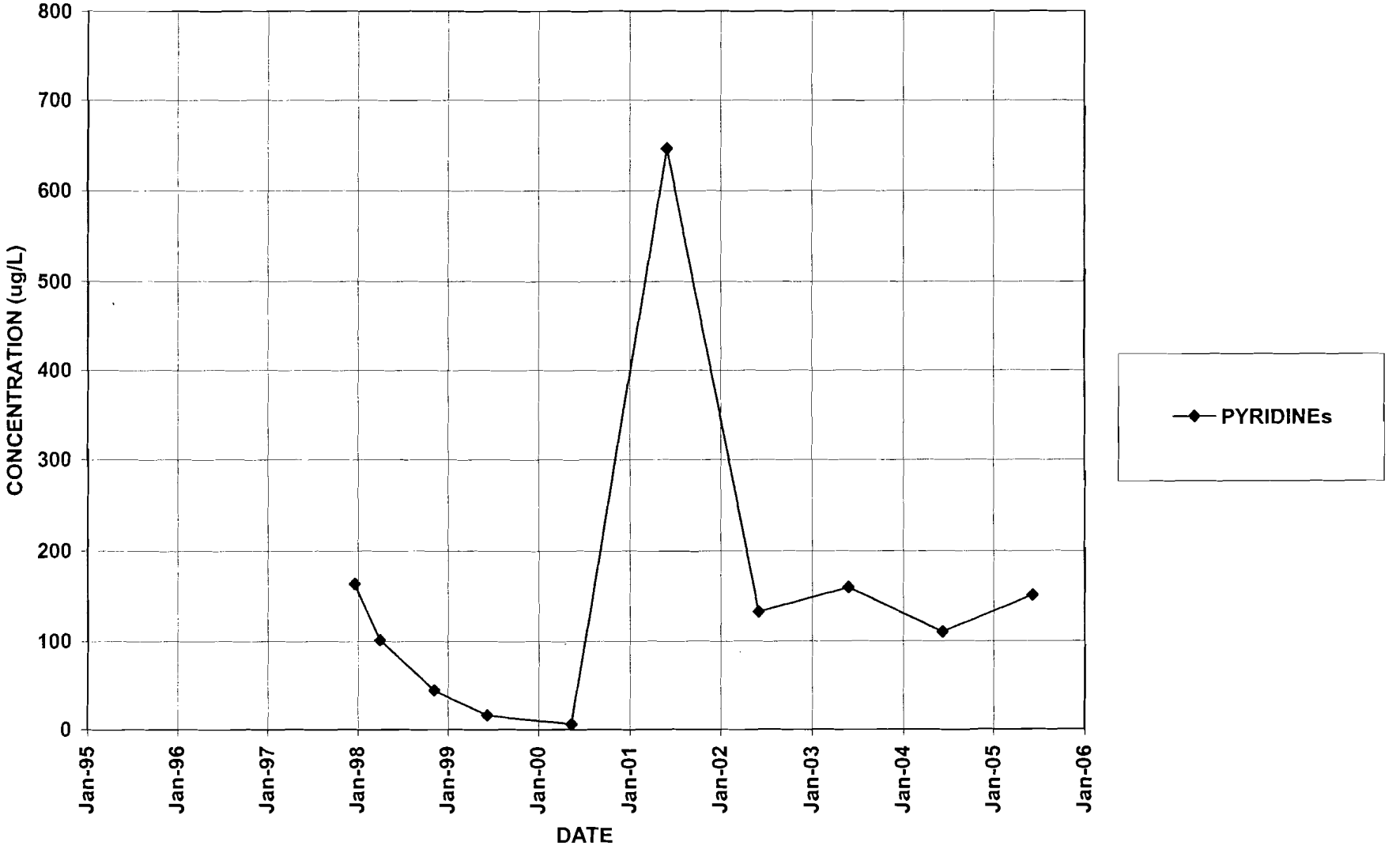
Prepared by: nmb
Reviewed by: jrb

BR-118D



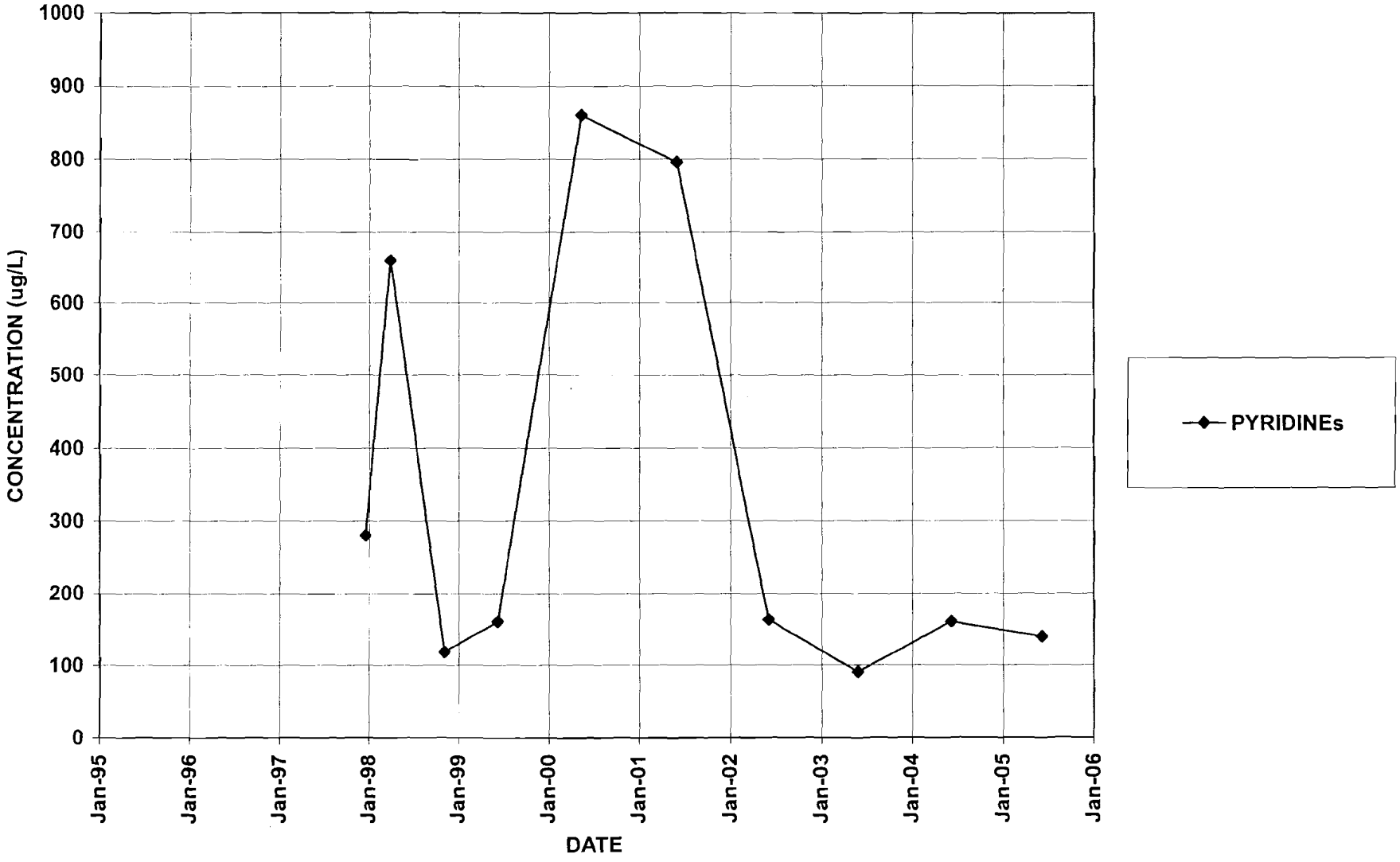
Prepared by: nmb
Reviewed by: jrb

BR-122D



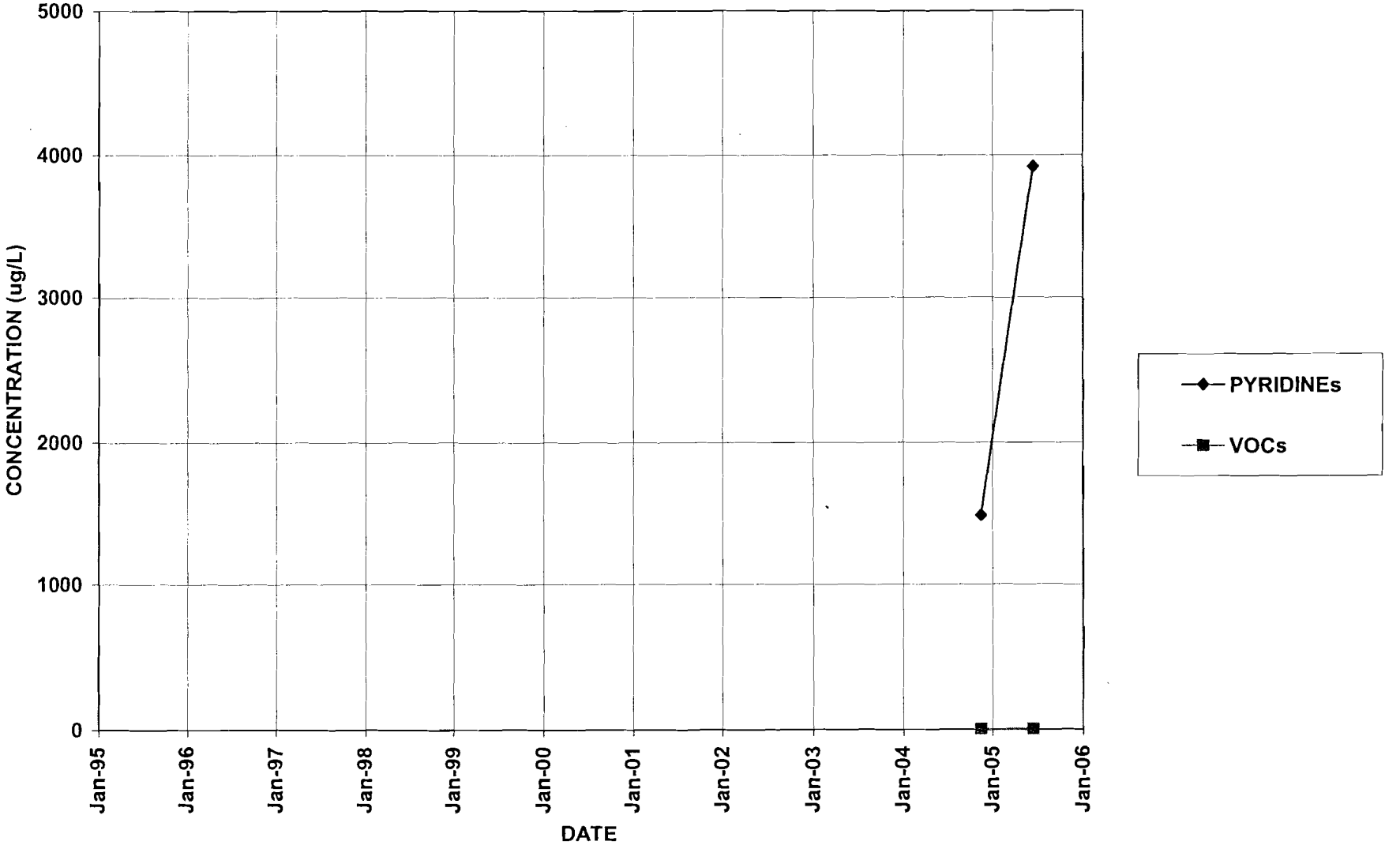
Prepared by: nmb
Reviewed by: jrb

BR-123D

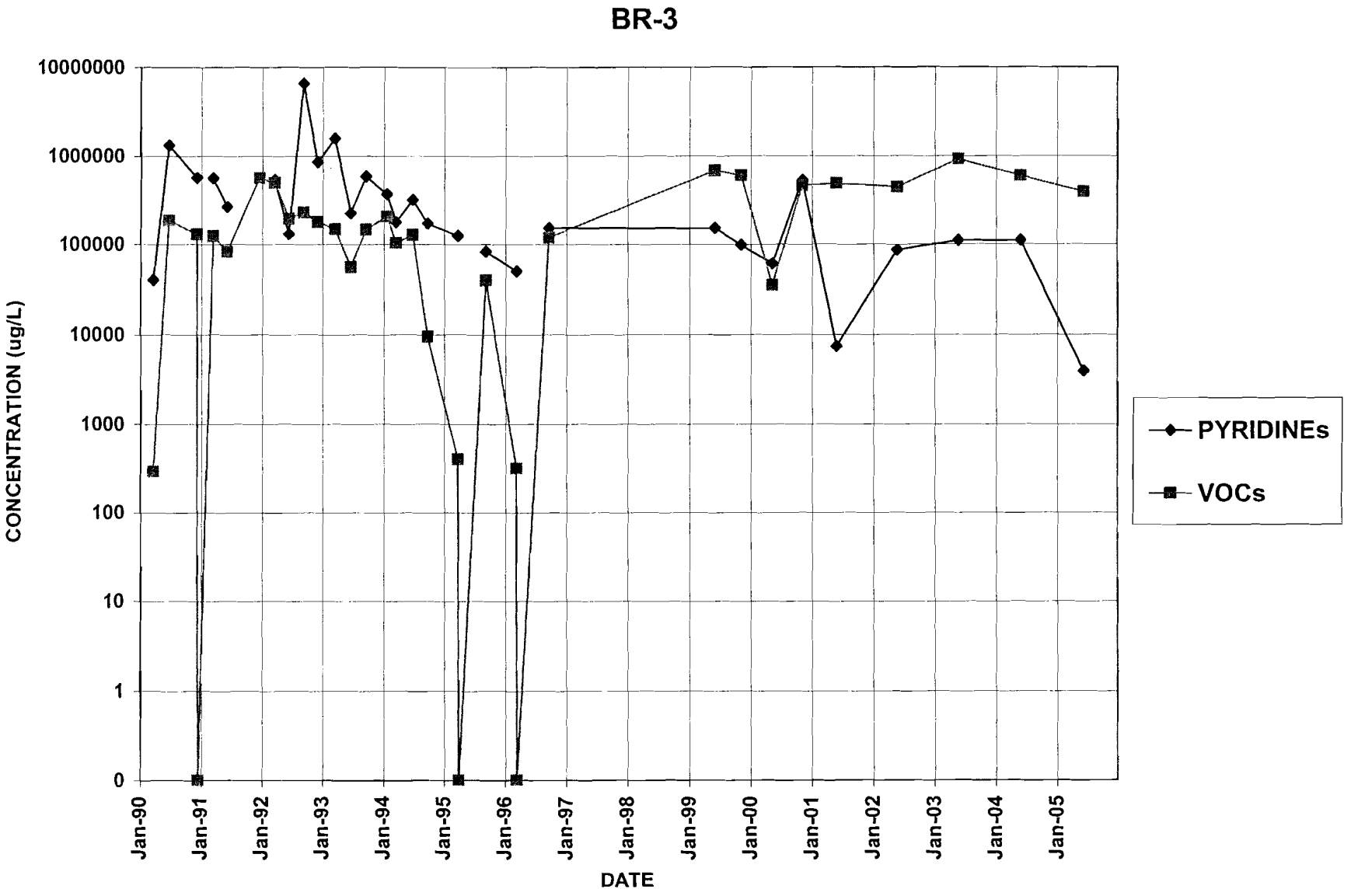


Prepared by: nmb
Reviewed by: jrb

BR-127

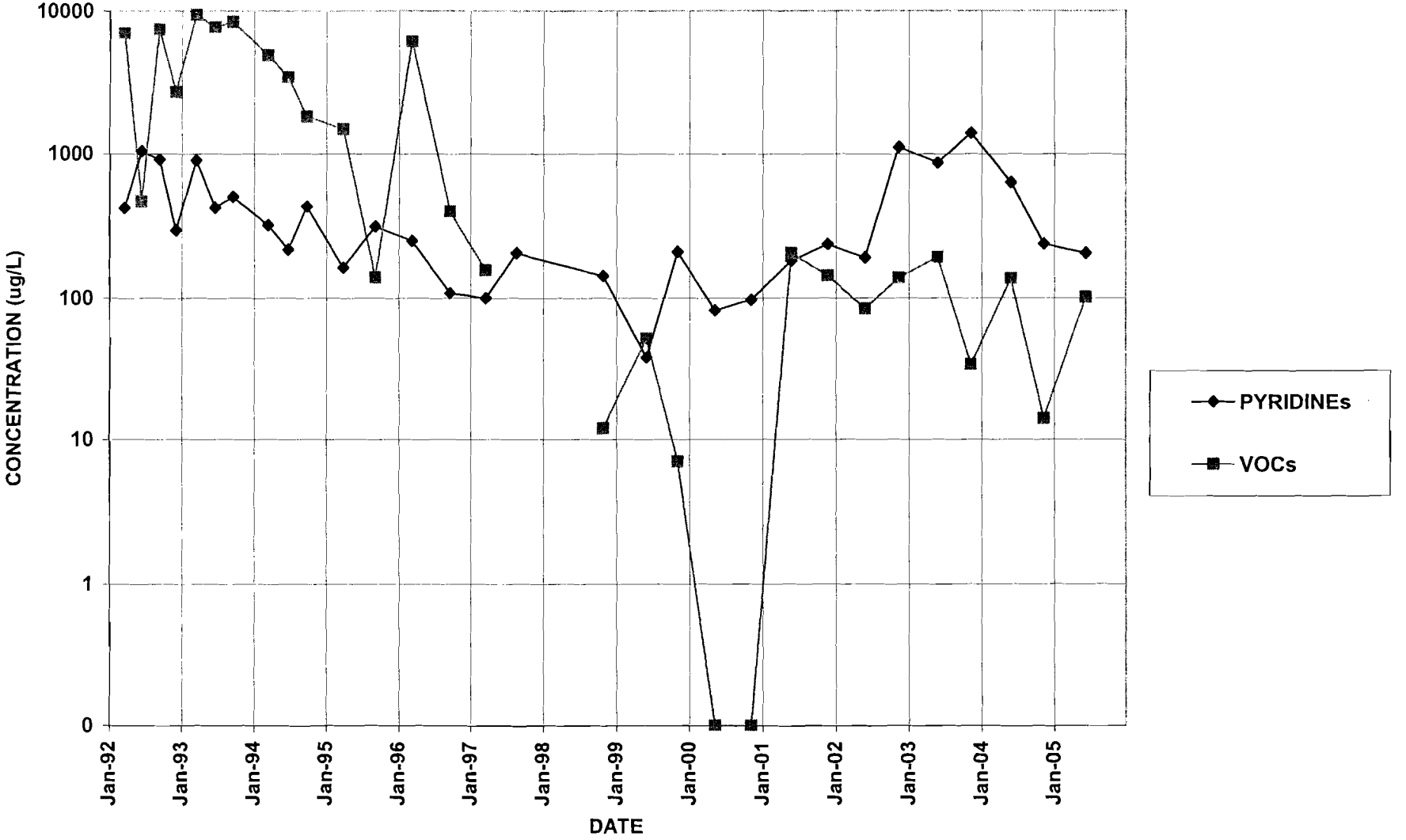


Prepared by: nmb
Reviewed by: jrb



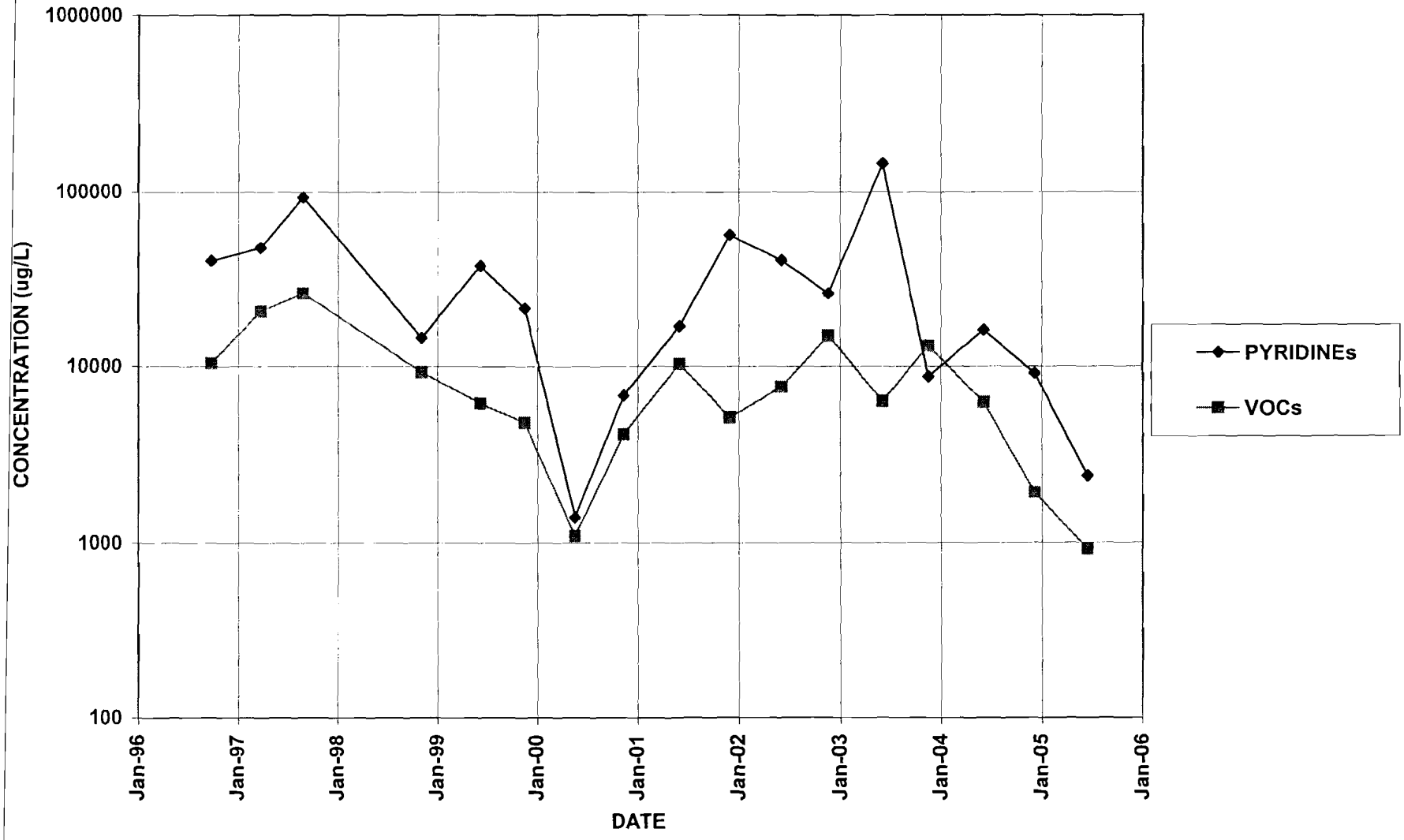
Prepared by: nmb
Reviewed by: jrb

BR-5A



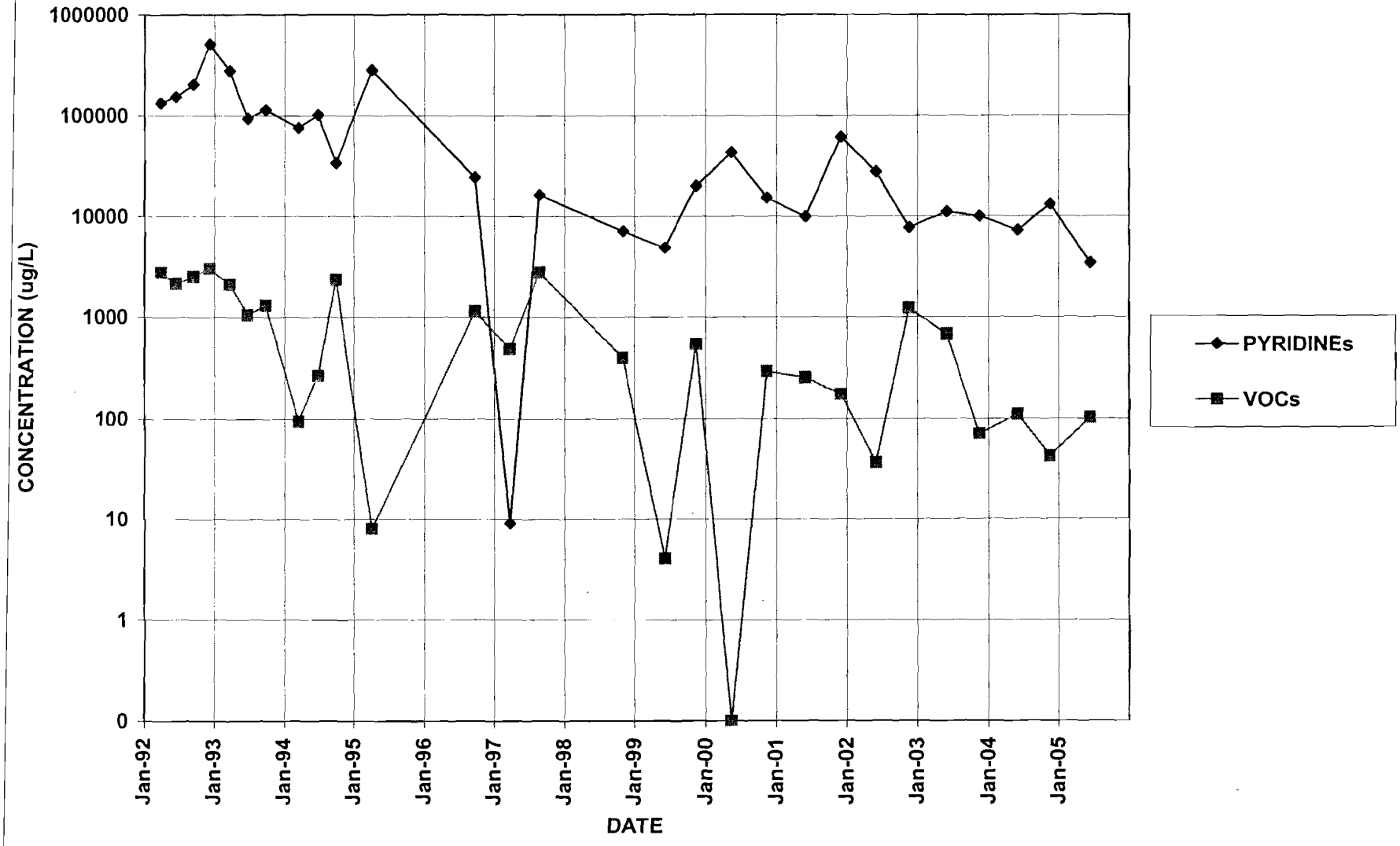
Prepared by: nmb
Reviewed by: jrb

BR-6A



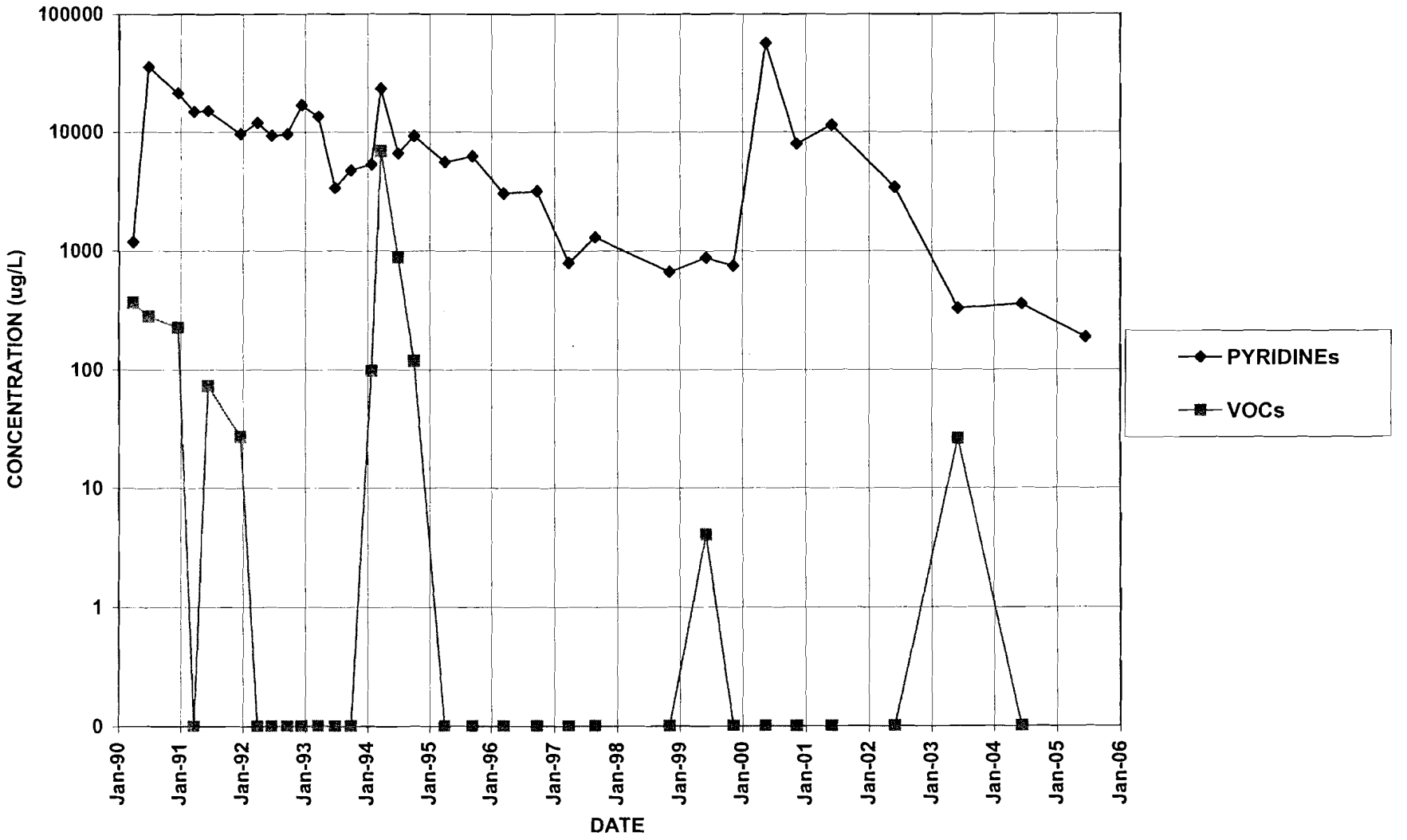
Prepared by: nmb
Reviewed by: jrb

BR-7A



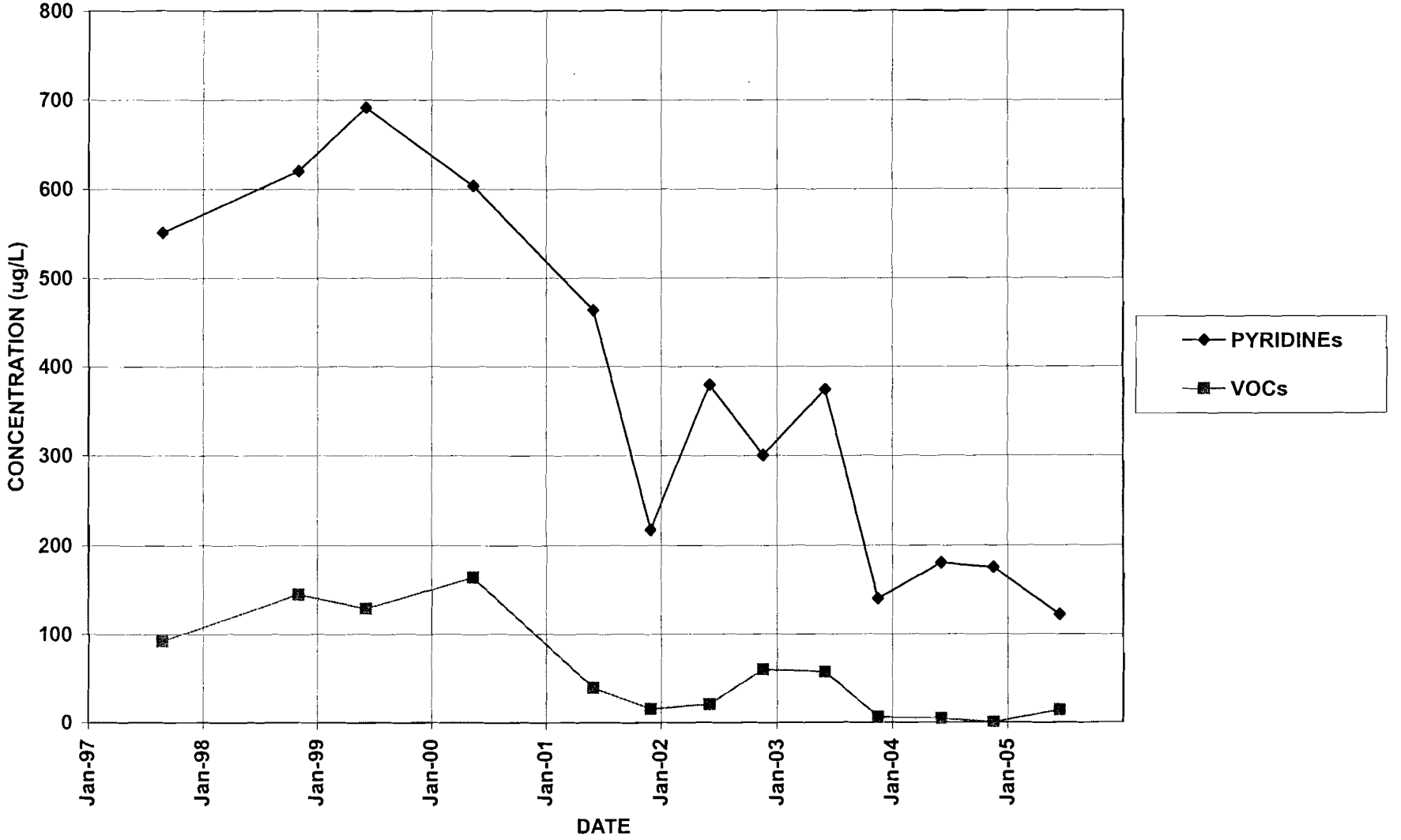
Prepared by: nmb
Reviewed by: jrb

BR-8



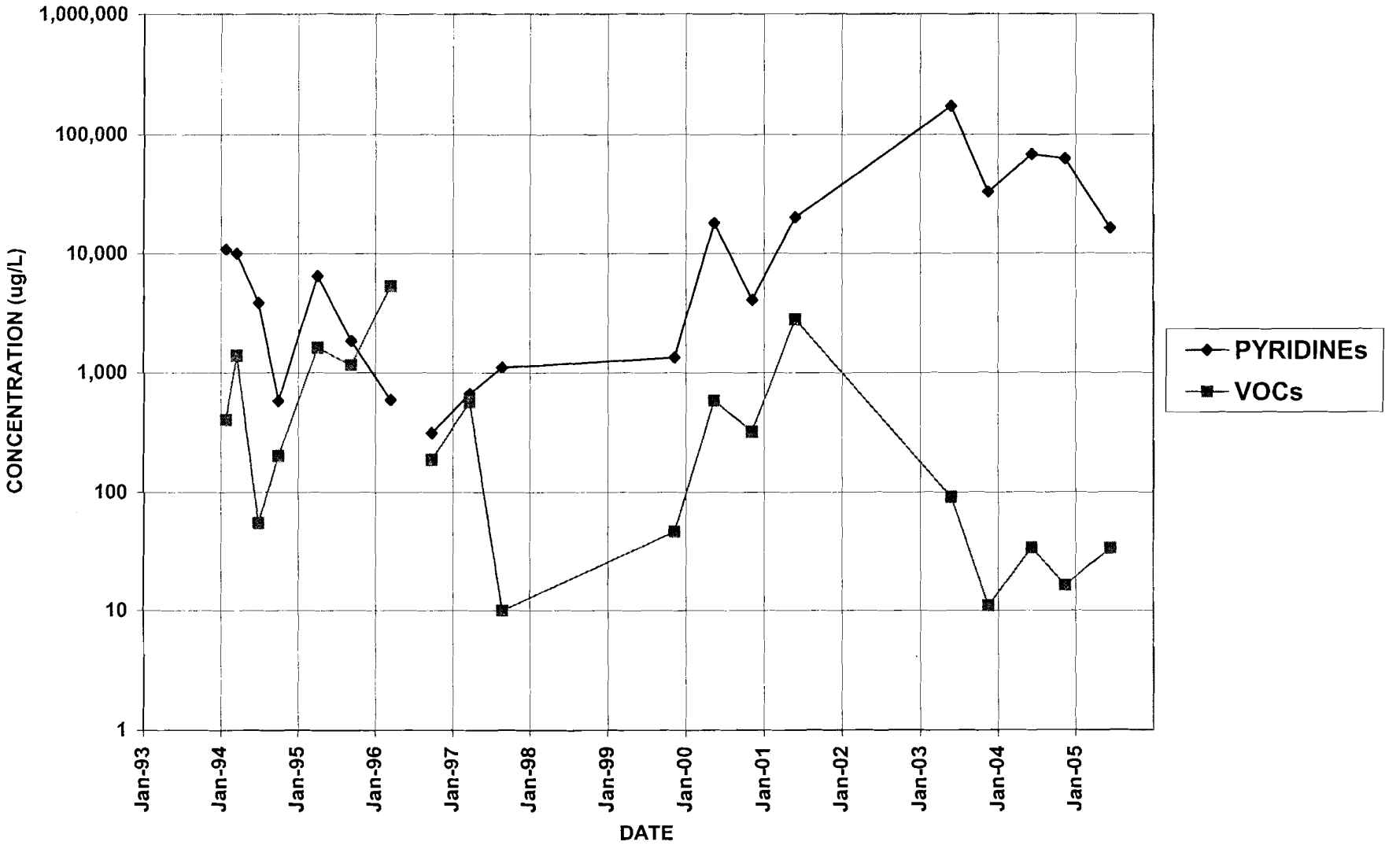
Prepared by: nmb
Reviewed by: jrb

BR-9



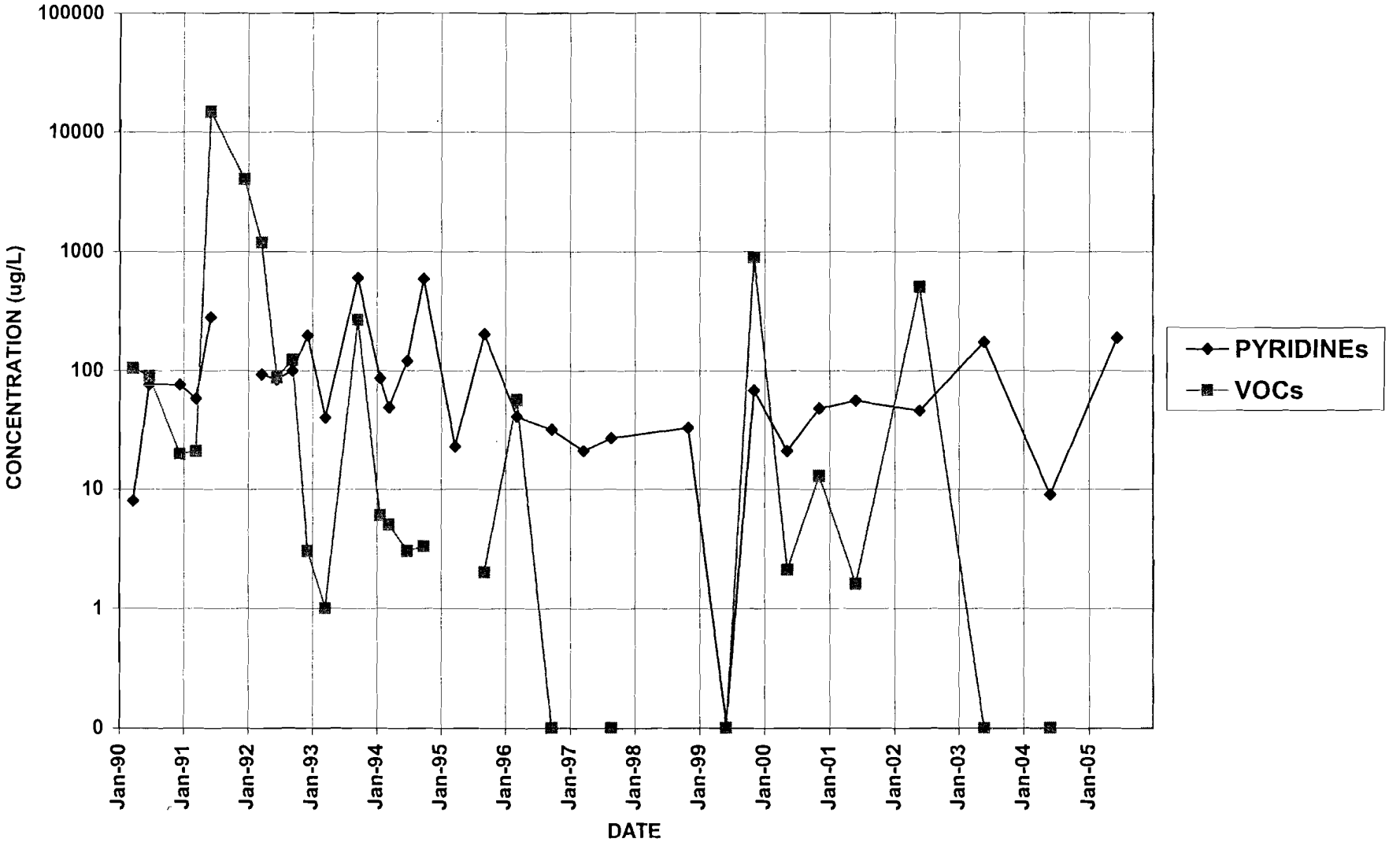
Prepared by: nmb
Reviewed by: jrb

E-1



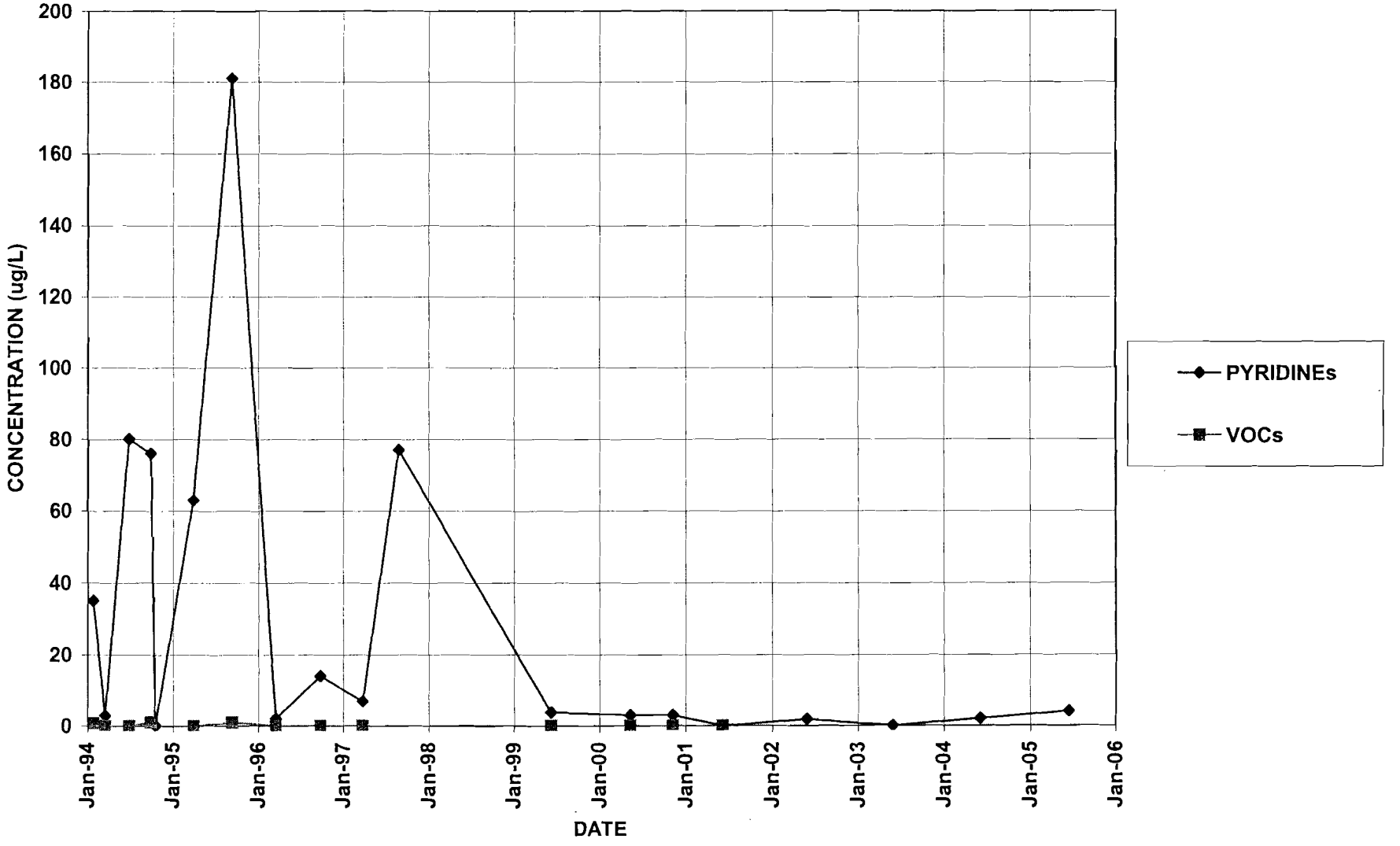
Prepared by: nmb
Reviewed by: jrb

E-3



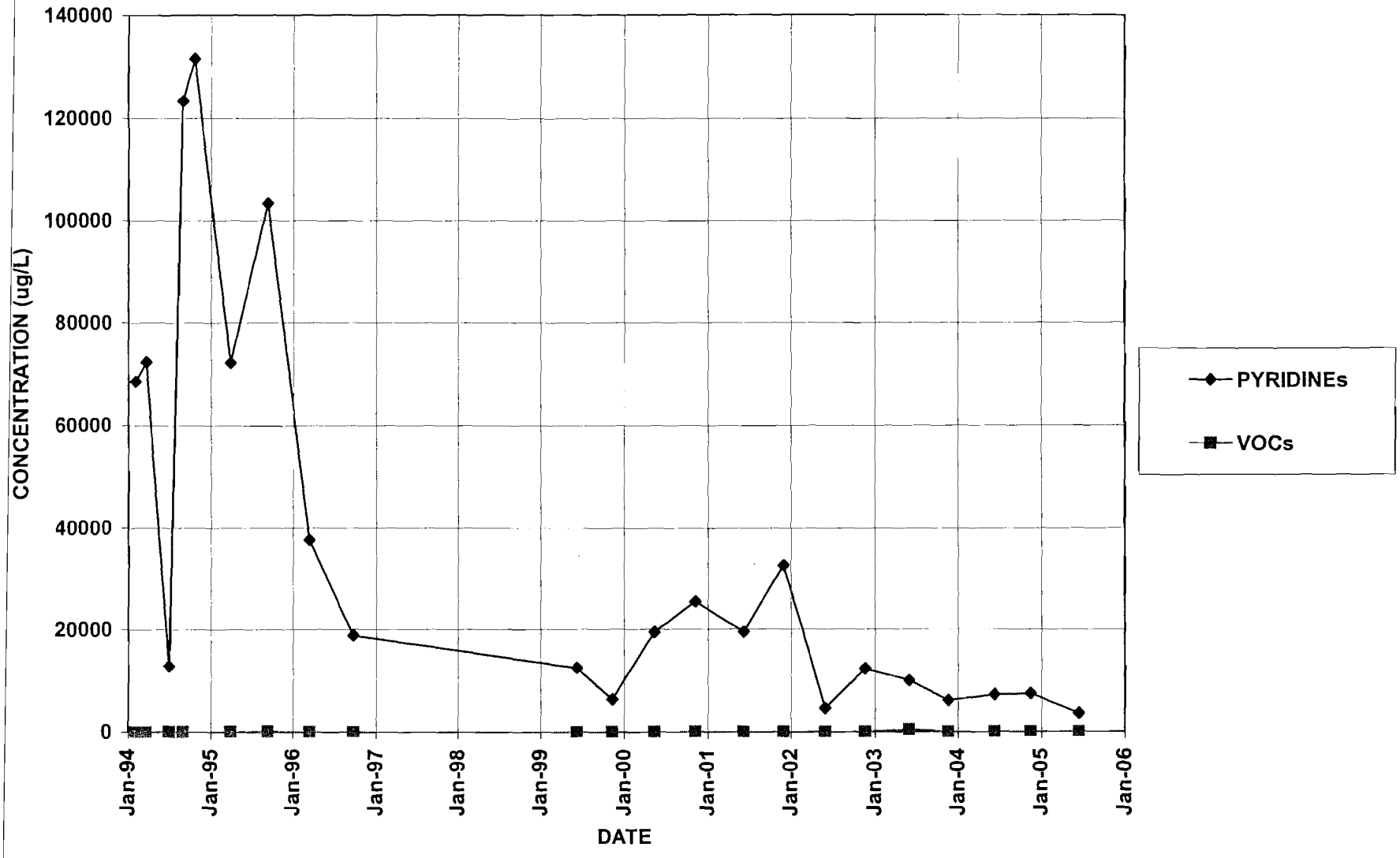
Prepared by: nmb
Reviewed by: jrb

MW-104



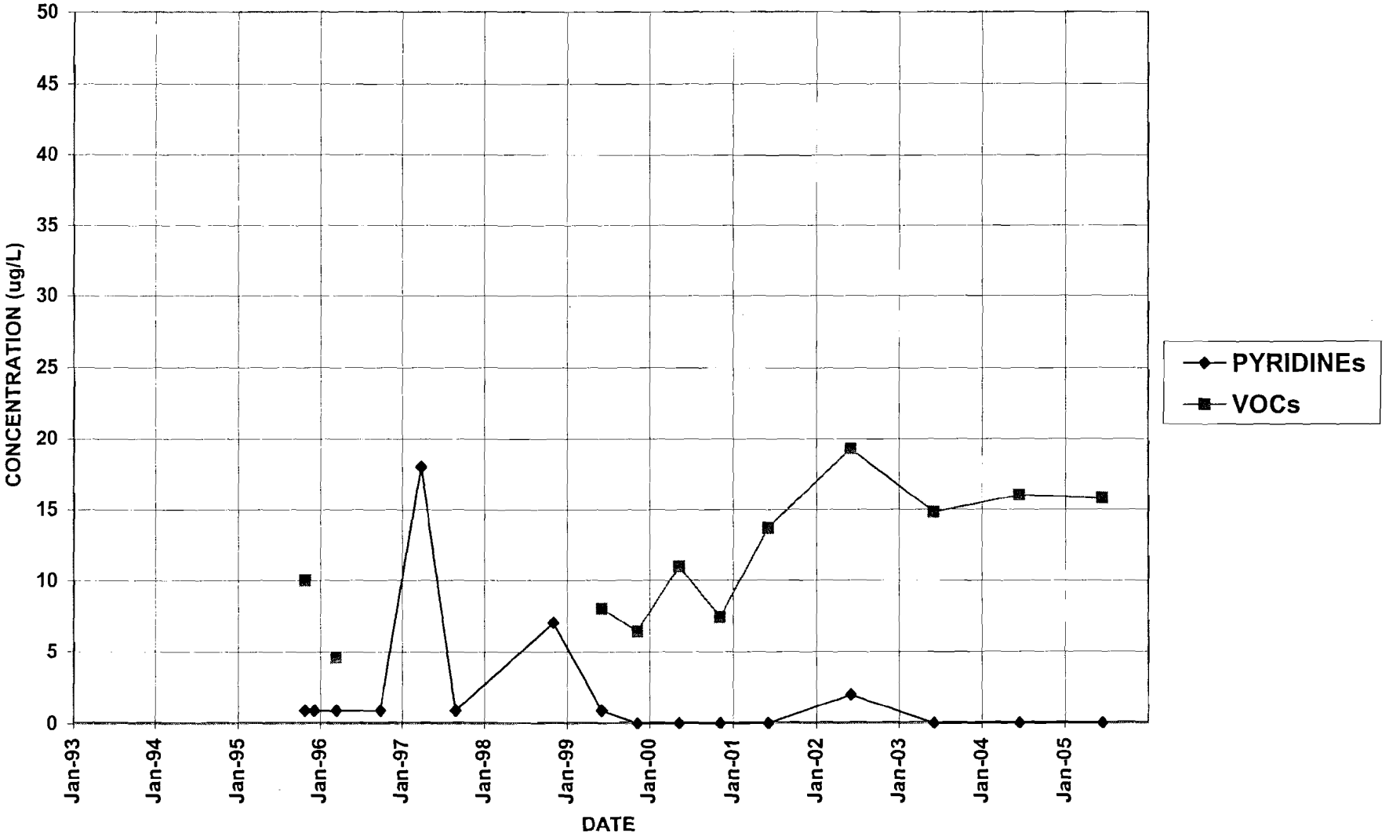
Prepared by: nmb
Reviewed by: jrb

MW-106



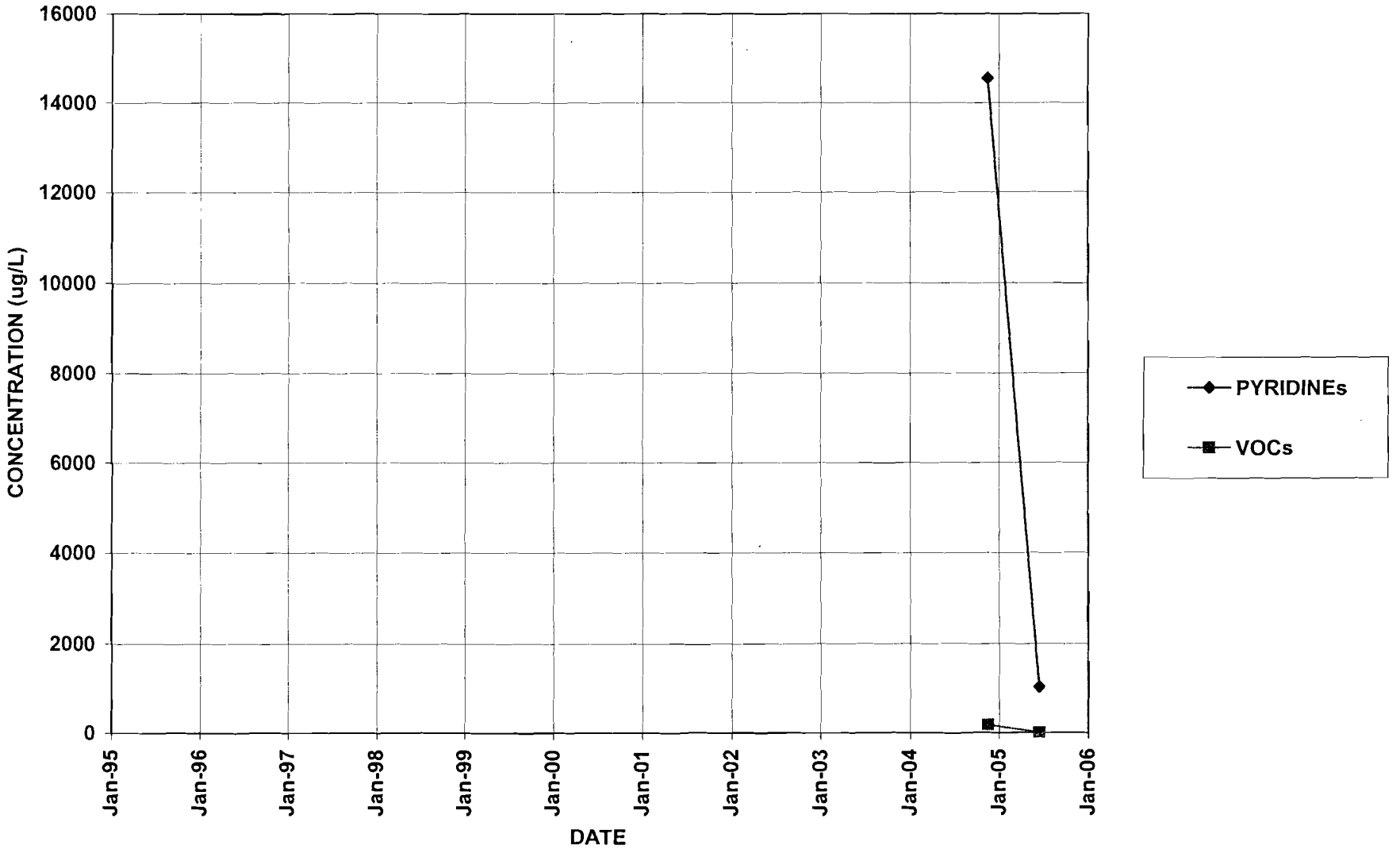
Prepared by: nmb
Reviewed by: jrb

MW-114



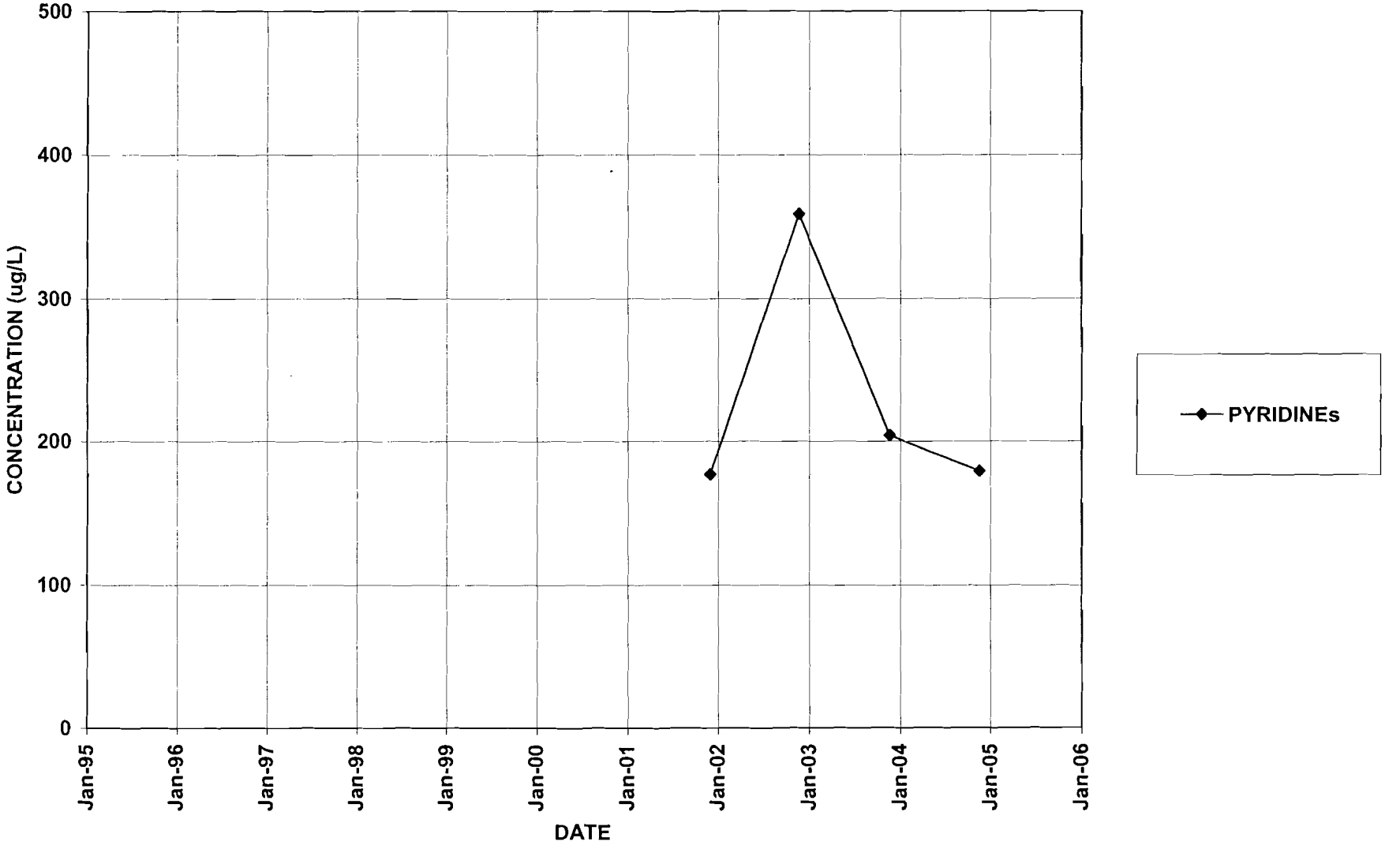
Prepared by: nmb
Reviewed by: jrb

MW-127



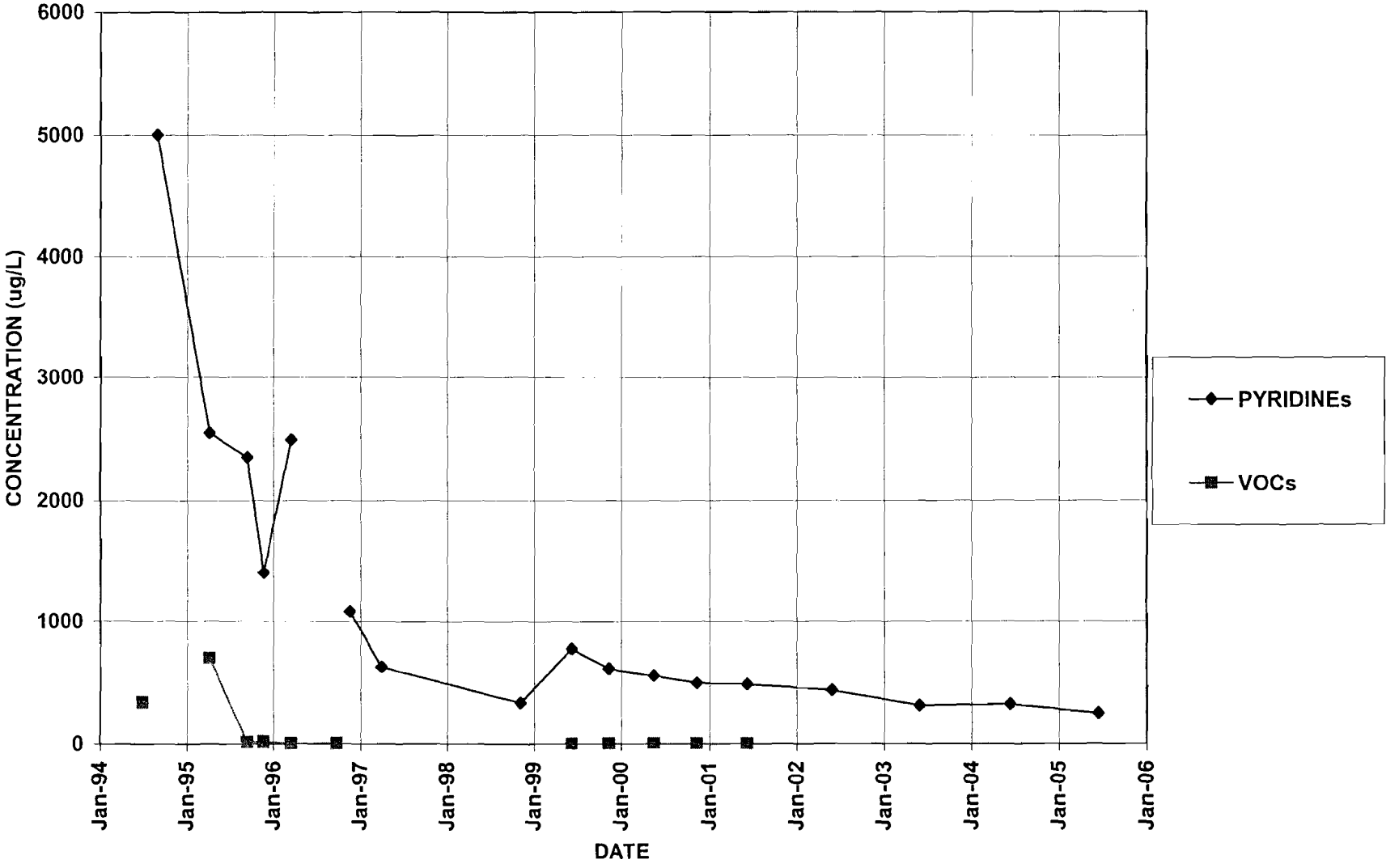
Prepared by: nmb
Reviewed by: jrb

MW-16



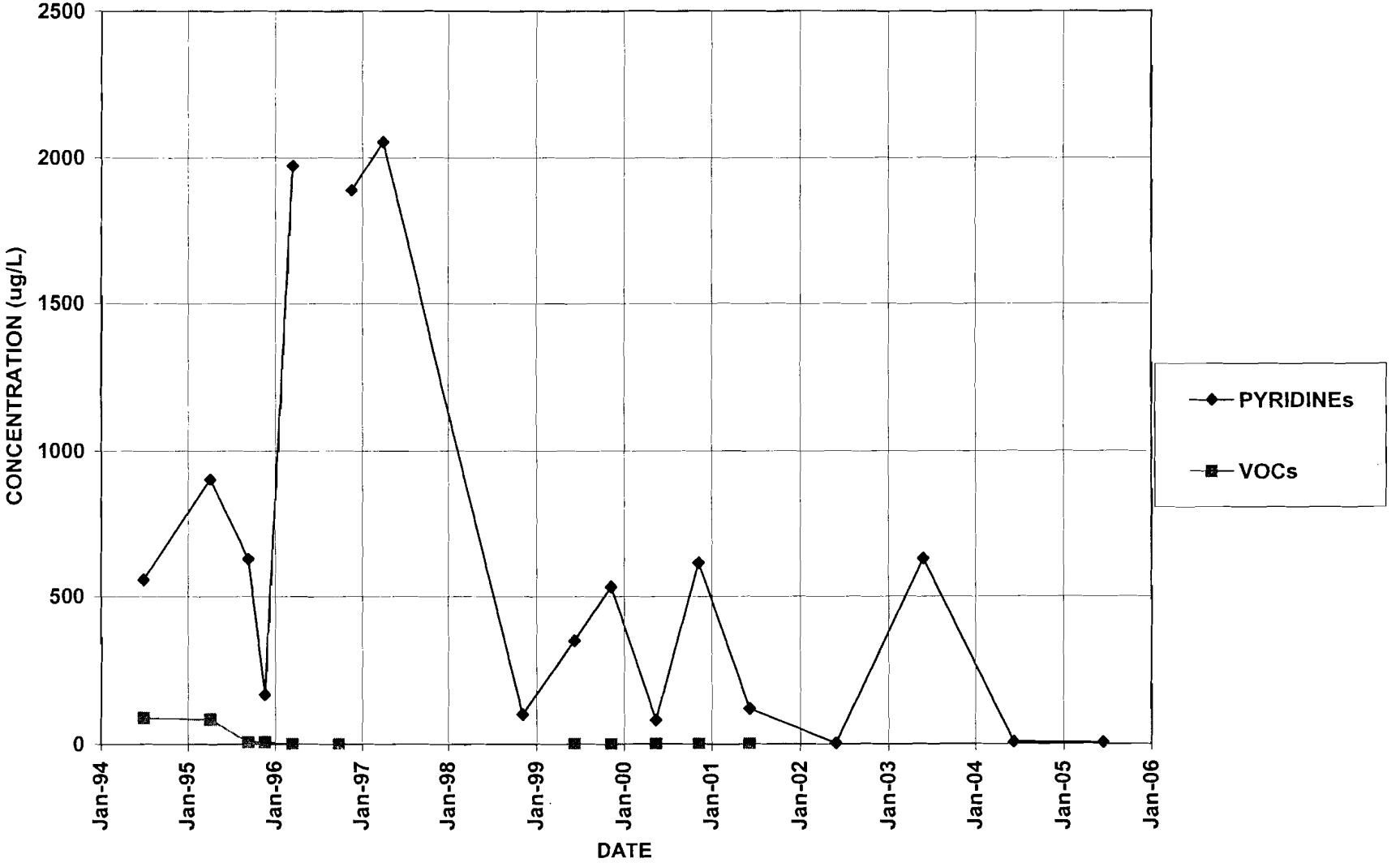
Prepared by: nmb
Reviewed by: jrb

NESS-E



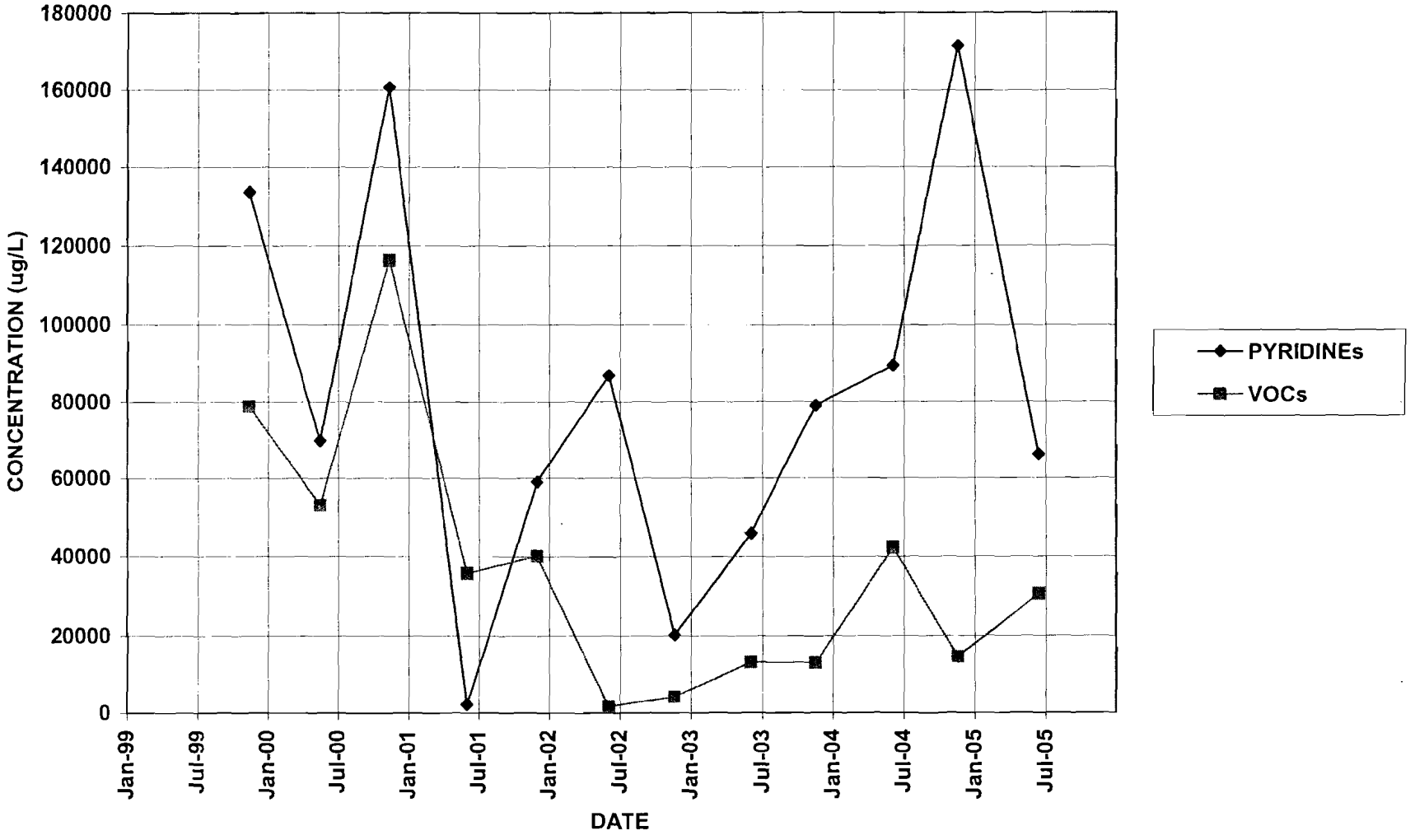
Prepared by: nmb
Reviewed by: jrb

NESS-W



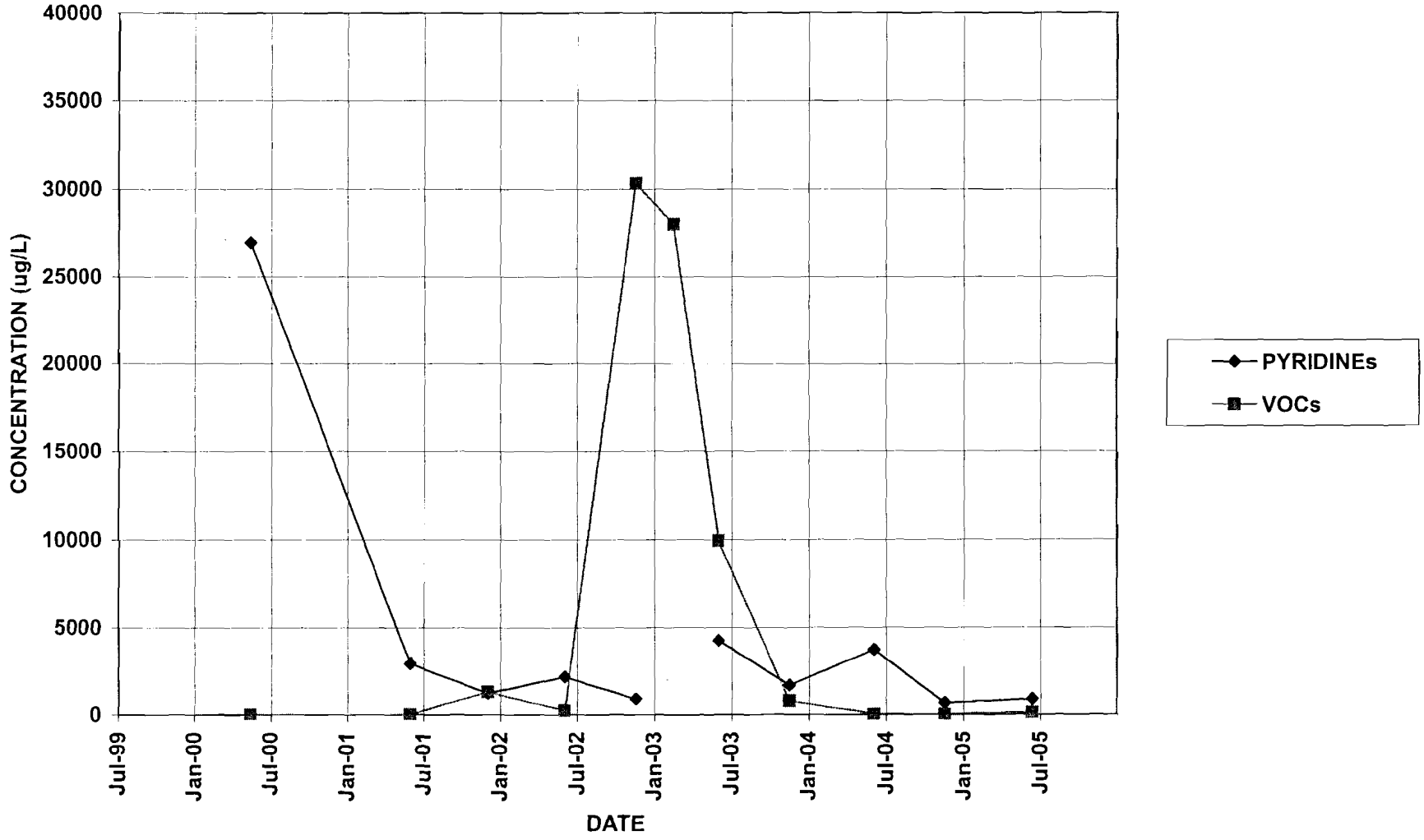
Prepared by: nmb
Reviewed by: jrb

PW10



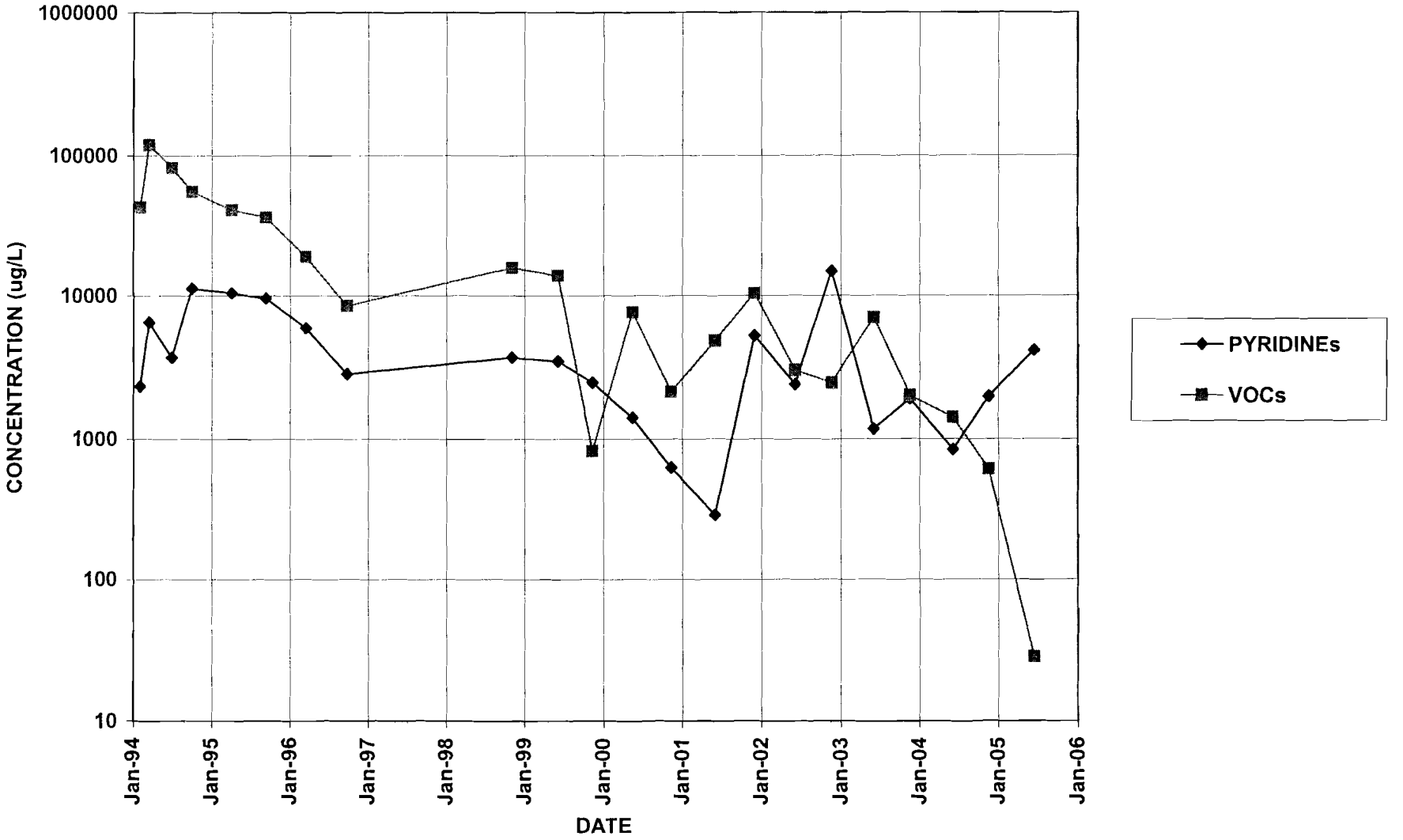
Prepared by: nmb
Reviewed by: jrb

PW11



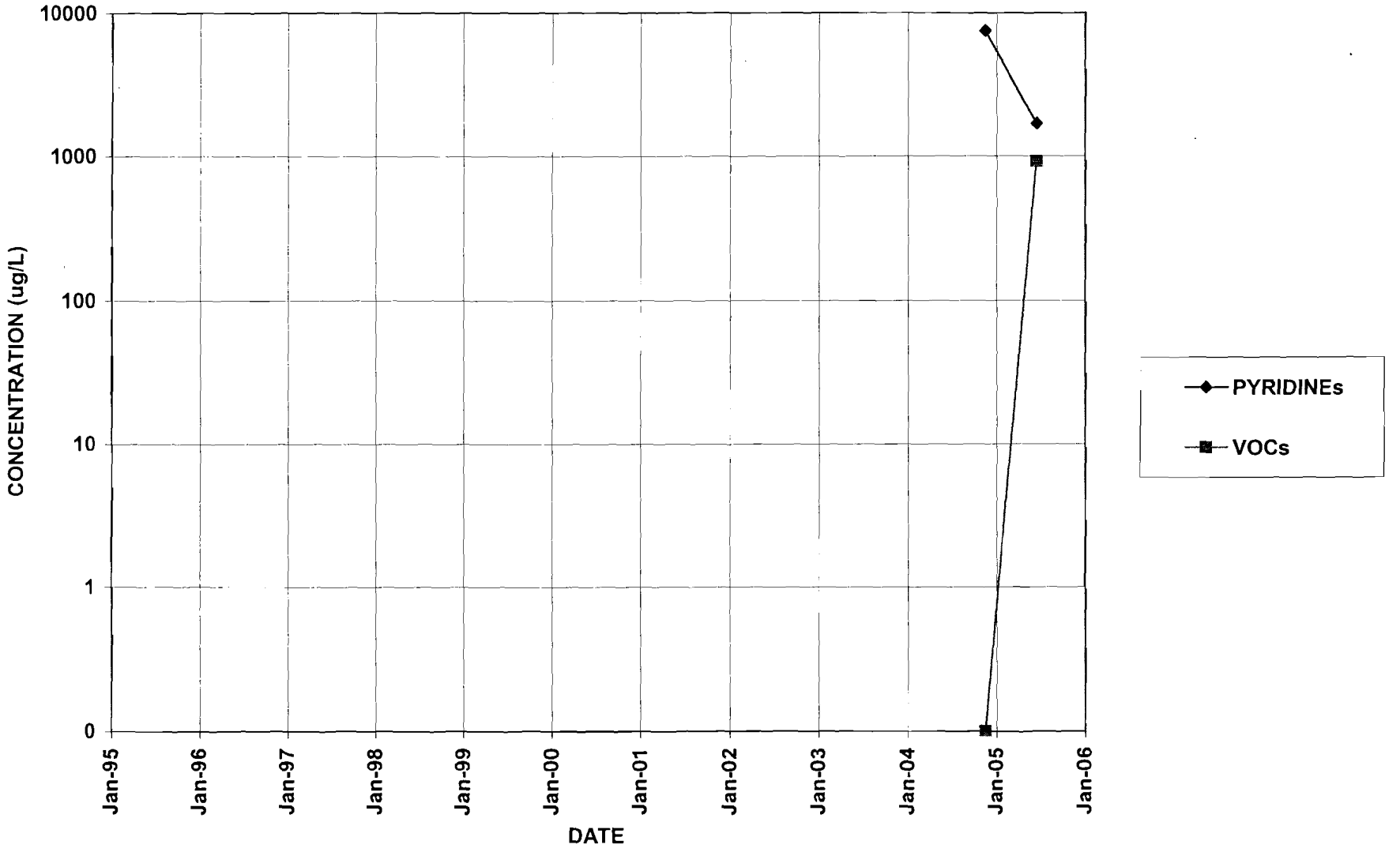
Prepared by: nmb
Reviewed by: jrb

PW12 (Formerly BR-101)



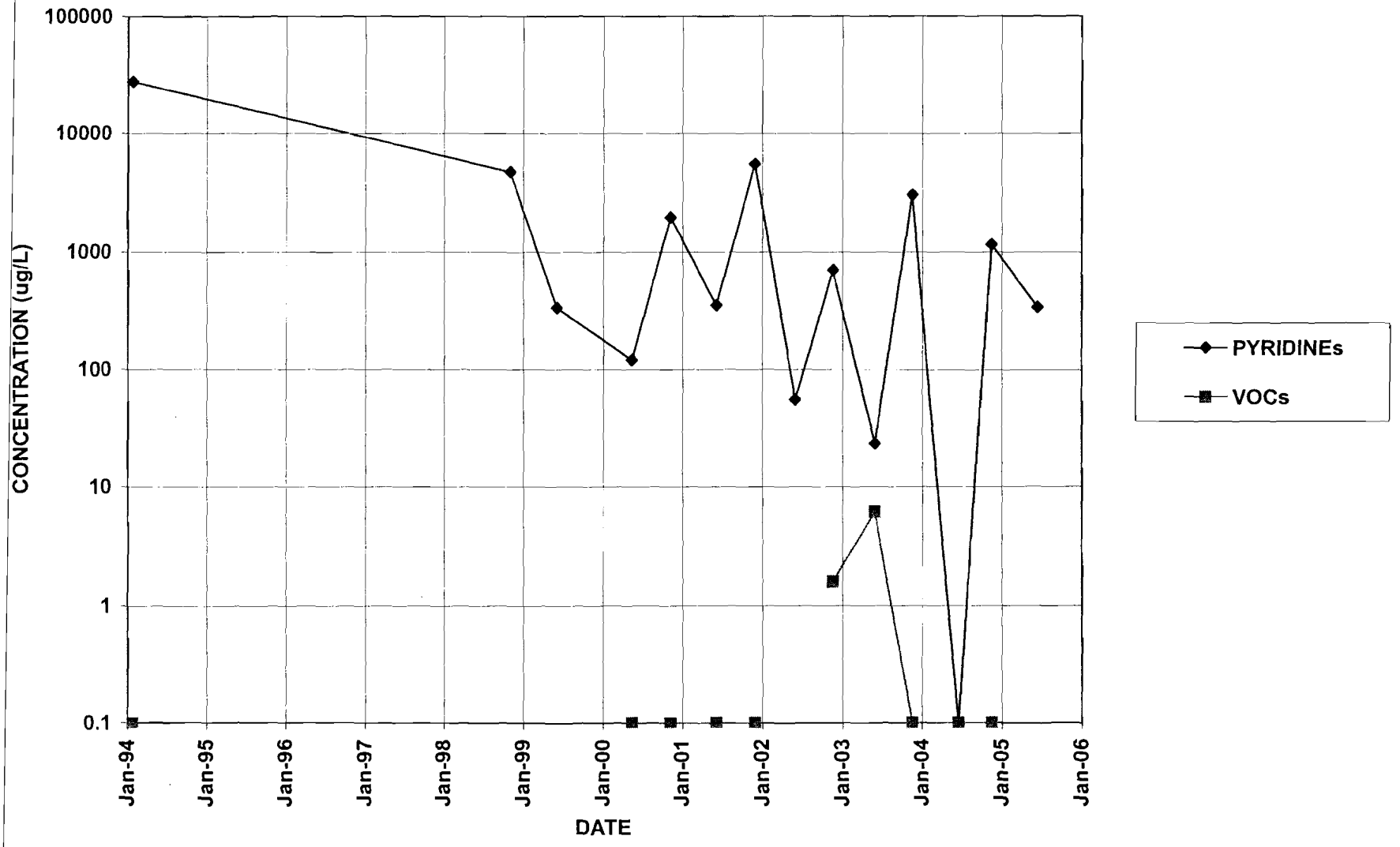
Prepared by: nmb
Reviewed by: jrb

PW13



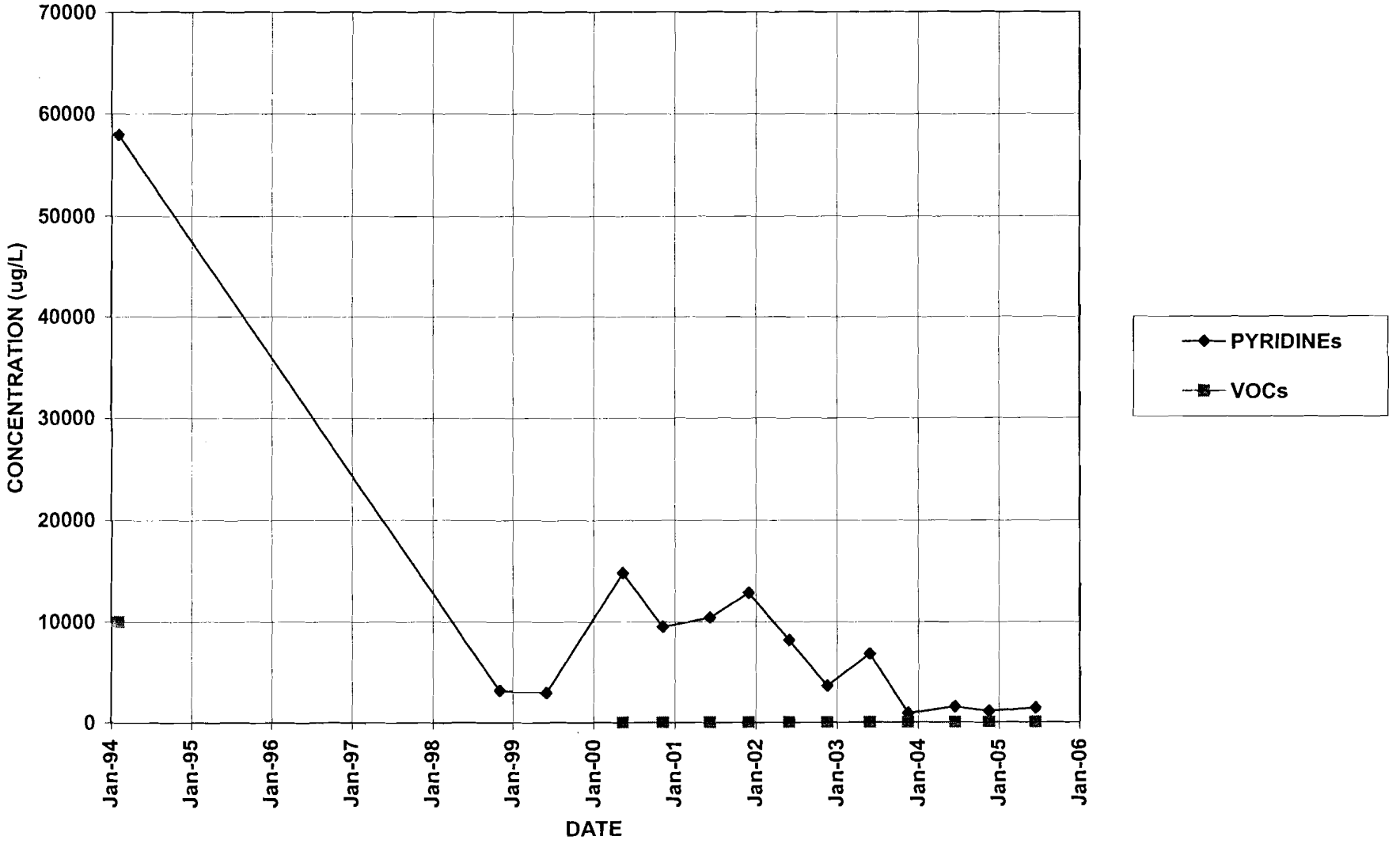
Prepared by: nmb
Reviewed by: jrb

PZ-101



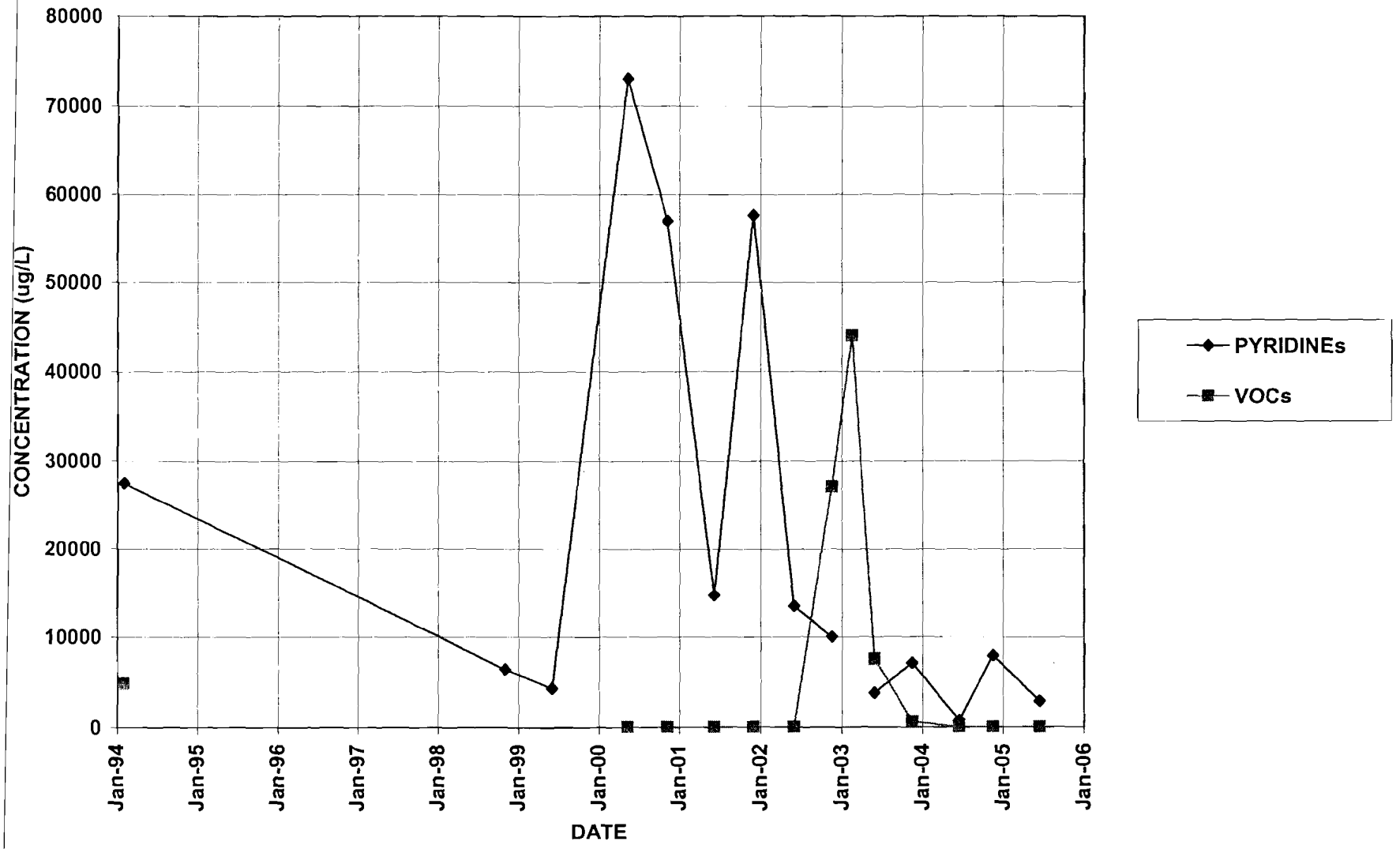
Prepared by: nmb
Reviewed by: jrb

PZ-102



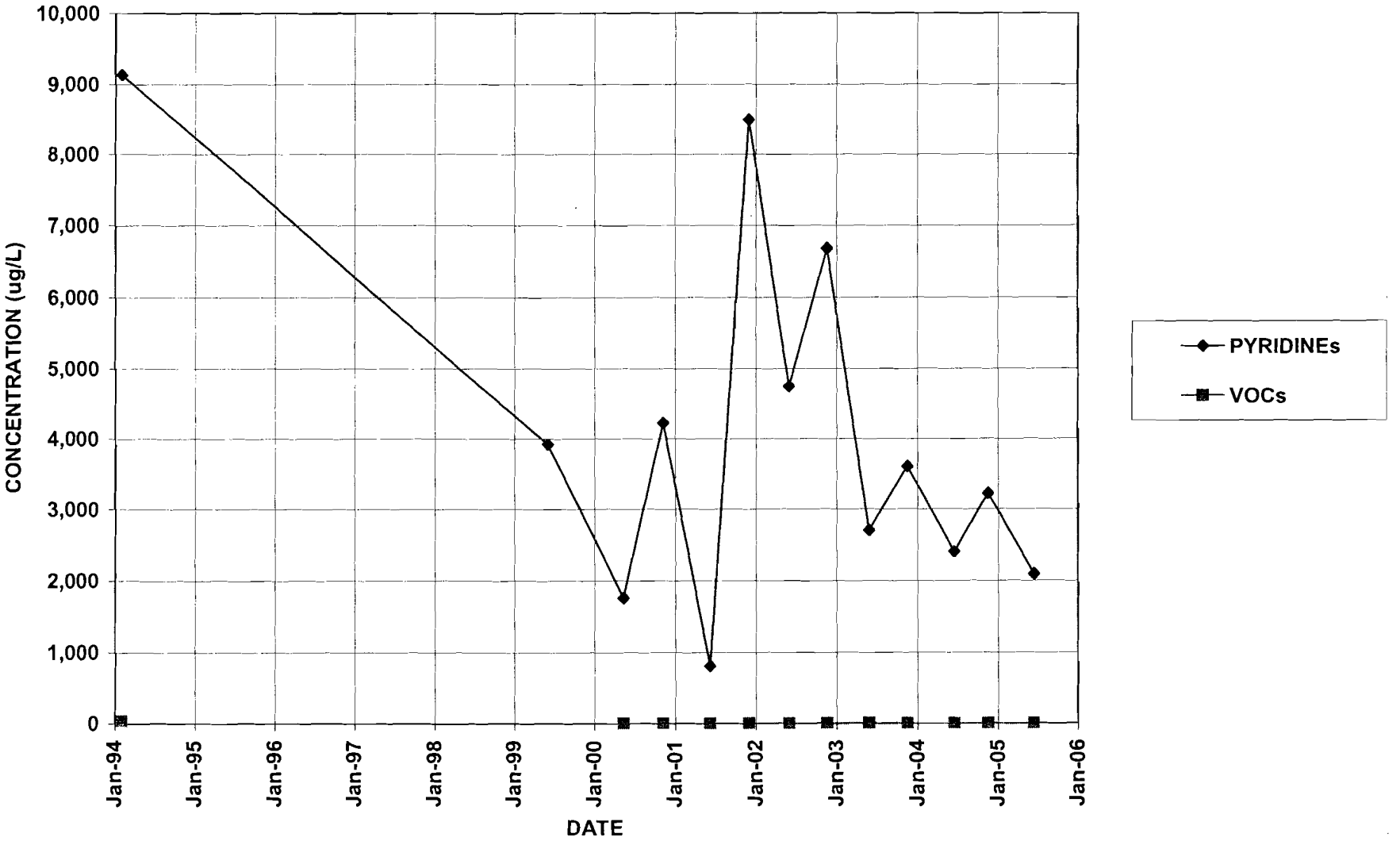
Prepared by: nmb
Reviewed by: jrb

PZ-103



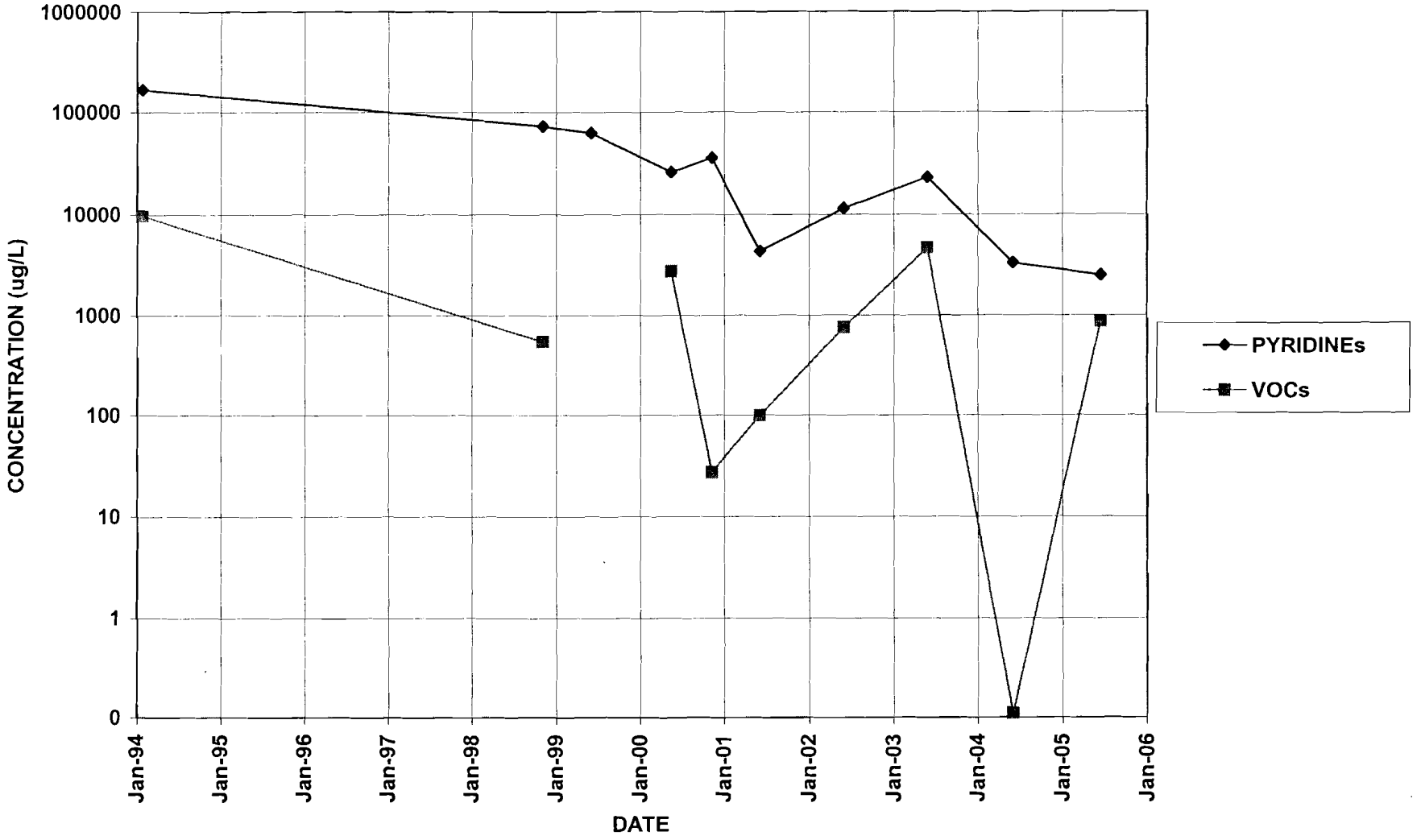
Prepared by: nmb
Reviewed by: jrb

PZ-104



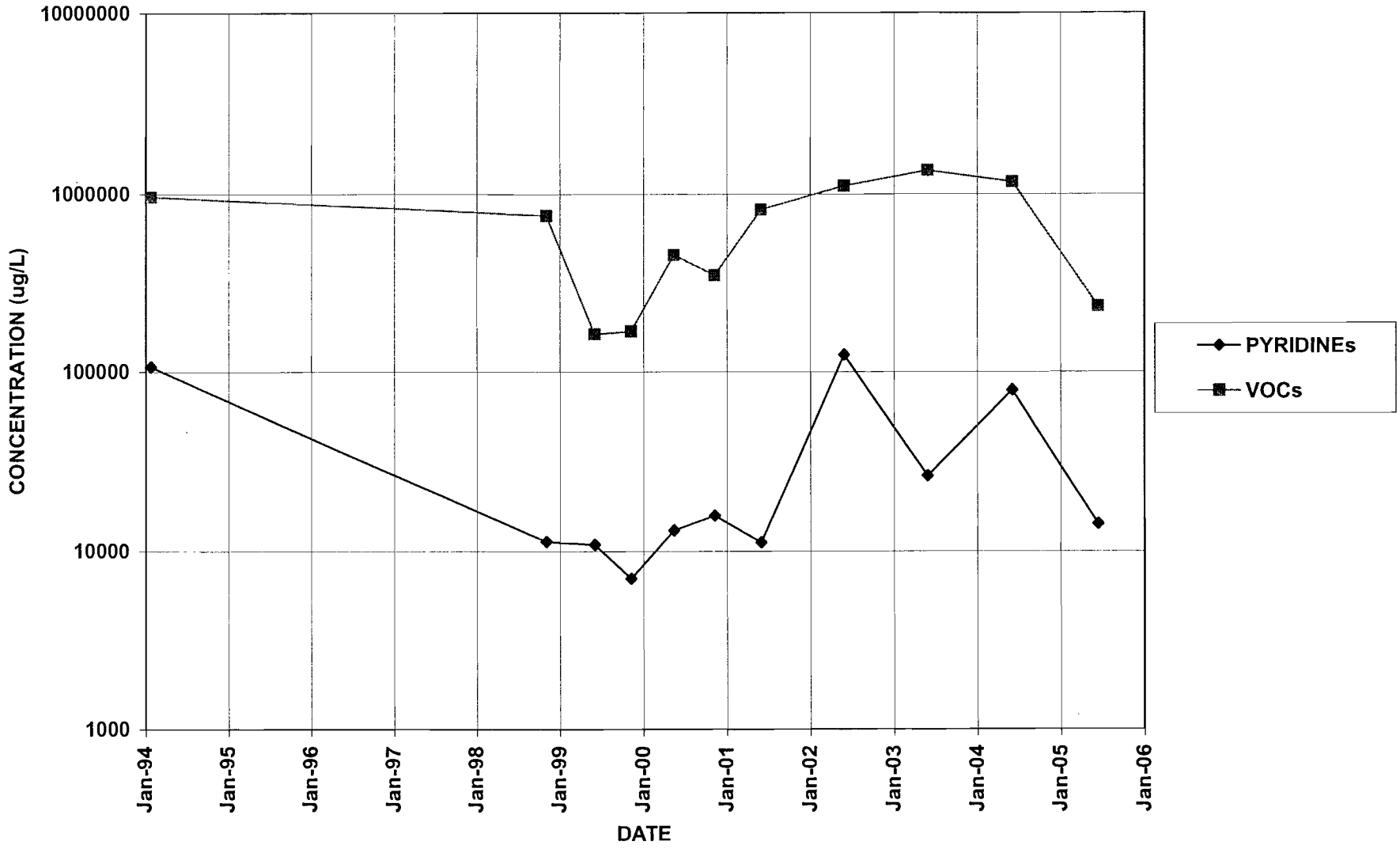
Prepared by: nmb
Reviewed by: jrb

PZ-105



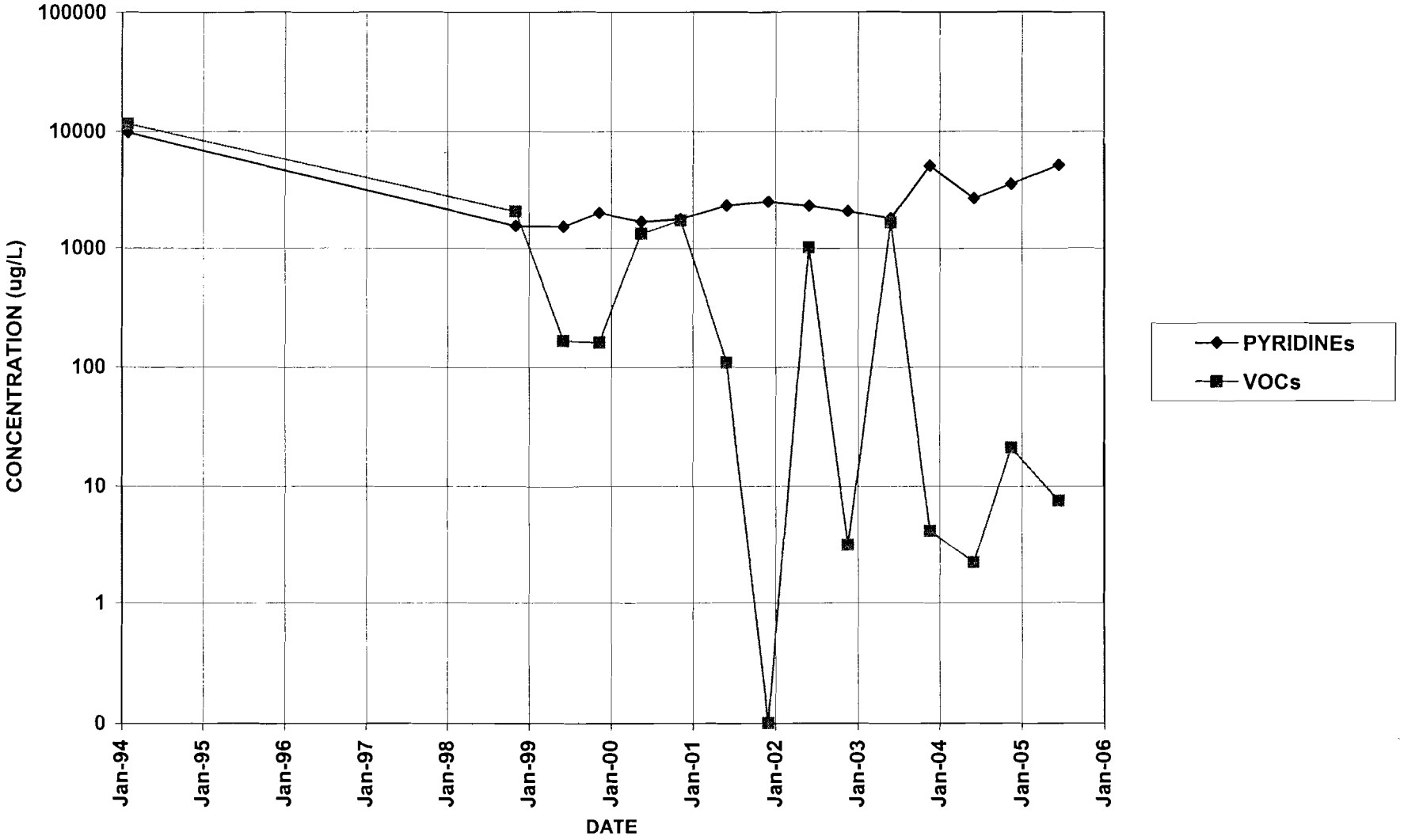
Prepared by: nmb
Reviewed by: jrb

PZ-106



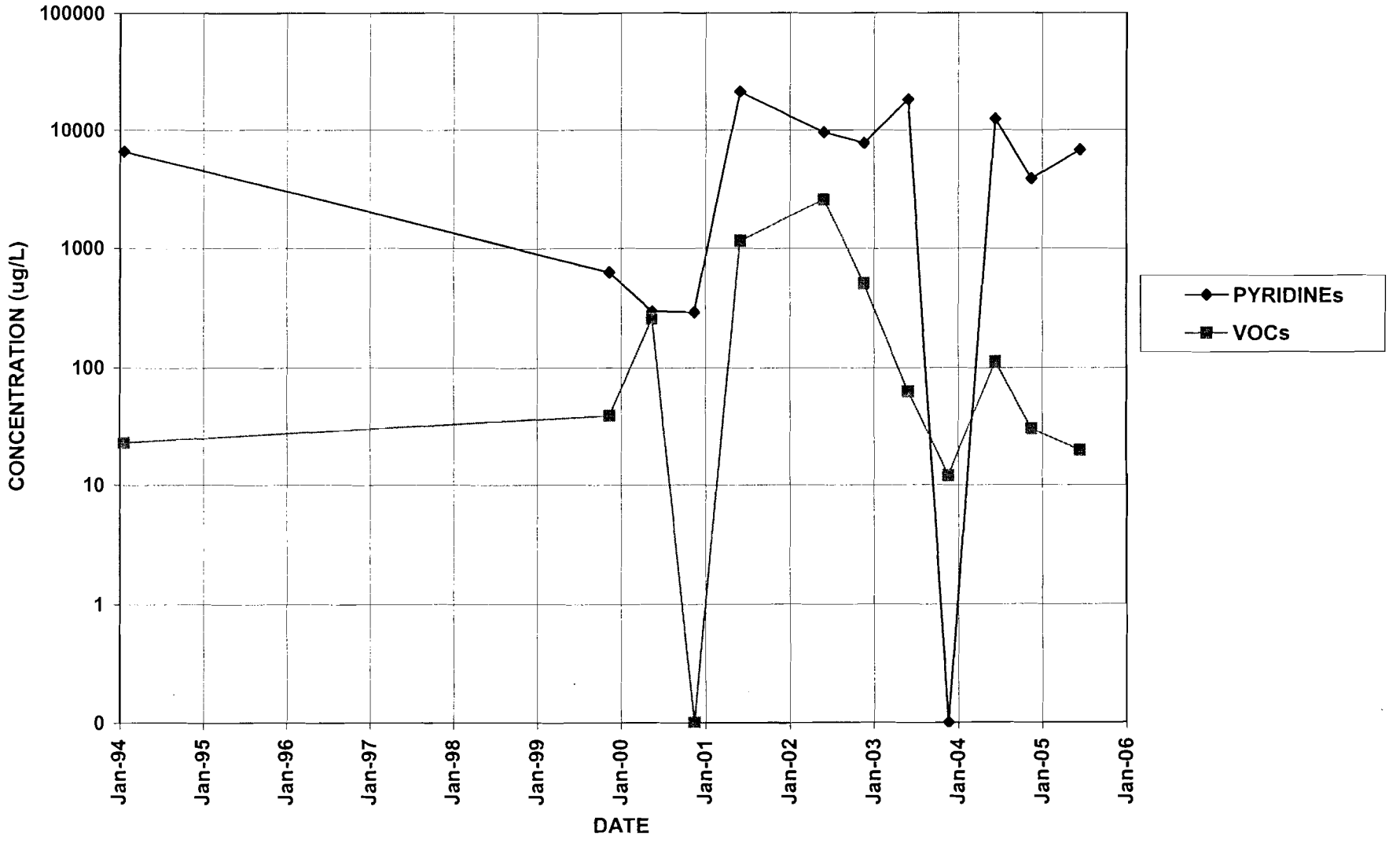
Prepared by: nmb
Reviewed by: jrb

PZ-107



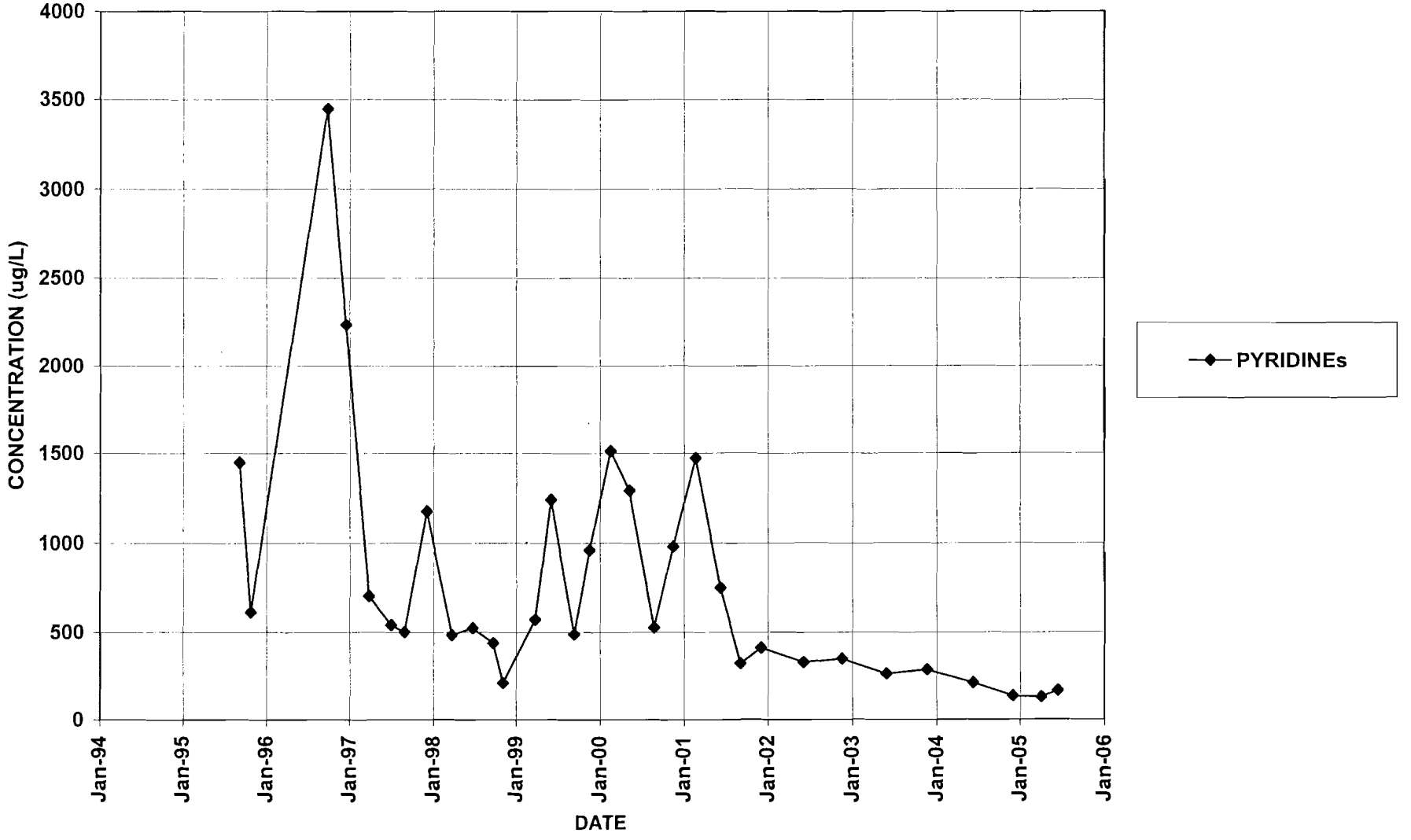
Prepared by: nmb
Reviewed by: jrb

S-3



Prepared by: nmb
Reviewed by: jrb

QS-4 (QUARRY SEEP)



Prepared by: nmb
Reviewed by: jrb

QO-2 (QUARRY OUTFALL)