CYANAMID

American Cyanamid Company
Agricultural Products Division
P.O. Box 817
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May 30, 2000

Ms. Patricia Murrow, Project Manager
RCRA Corrective Action and Permits Branch
Air, RCRA, and Toxics Division
United States Environmental Protection Agency
Region VII, 901 North 5th Street
Kansas City, KS 66101

RE: Groundwater Report

Dear Ms. Murrow:

As we discussed during our telephone conference call of April 20, 2000, enclosed please find one copy of the October 1996, Groundwater Investigation Report prepared by Geraghty and Miller, Inc., for American Cyanamid Company's Hannibal, Missouri, manufacturing facility. We have retained Geraghty and Miller (now Arcadis Geraghty and Miller) to assist us in preparation of the work plan for further investigation of the groundwater contamination. It is our intention to submit the work plan by the requested June 25, 2000, submittal date.

We are providing copies of the enclosed Groundwater Investigation Report to programs of the Missouri Department of Natural Resources who participated in the conference call. If you have any questions with regard to this submittal or if you require additional information, please contact me at 1-573-769-2011, Ext. 2268.

Sincerely,

AMERICAN CYANAMID COMPANY
Agricultural Products Division

J. Brad Willett, P.E.
Manager, Environmental Services

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cc: Ms. Irene Crawford, MDNR Northeast Regional Office
Mr. Richard J. Laux, MDNR Water Pollution Control Program
Mr. David L. Maschler, MDNR Hazardous Waste Program
Mr. Richard A. Nussbaum, P.E., MDNR Hazardous Waste Program

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GEOPROBE™ GROUNDWATER INVESTIGATION REPORT

October 1996

Prepared for

American Cyanamid, Inc.
P.O. Box 817
Hannibal, Missouri 63401

Prepared by

Geraghty & Miller, Inc.
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GEOPROBE™ GROUNDWATER INVESTIGATION REPORT

October 1996

Prepared by GERAGHTY & MILLER, INC.

Eric M. Rainey, P.G.
Hydrogeologist/Project Manager

Brian Guillette, P.G.
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GEOPROBE™ GROUNDWATER INVESTIGATION REPORT

1.0 INTRODUCTION

1.1 PURPOSE AND OBJECTIVE

This report has been prepared for American Cyanamid, Inc. by it's consultant Geraghty & Miller, Inc., to relate the findings of a Geoprobe™ groundwater investigation conducted in December 1995 and January 1996 at the American Cyanamid Facility, located near Hannibal, Missouri. The purpose and objective of the investigation was to identify and delineate the presence of volatile organic compounds (VOCs) associated with onsite water supply wells (i.e. production wells) PW-7, PW-8, and PW-9. VOCs detected in the production wells include ethylene dichloride (EDC) and monochlorobenzene (MCB), both of which have been used as process chemicals at the facility. This report describes the results of all field and laboratory activities. The scope of work was conducted in accordance with the proposal addendum for hydrogeological investigation submitted to American Cyanamid on September 28, 1994.

1.2 SITE DESCRIPTION

The American Cyanamid facility is located on the west bank of the Mississippi River approximately 10 miles north of Hannibal, Missouri (Figure 1). The site property consists of approximately 2000 acres located within Sections 10, 11, 14, 15, 22, and 23, Township 3 South, Range 5 West. The site is part of the South River Industrial Levee Subdistrict of the South River Drainage District. The facility is a modern agricultural chemicals plant which produces pesticides. In the late 1960's and 1970's, the facility also produced and stored ammonium nitrate and nitric acid and has operated at its present location since 1965.

The site is located in an industrial/agricultural area and is bordered by Mississippi River to the east, agricultural land to the south and west; and a large power plant (i.e. Northeast Missouri Electric Power Cooperative) to the north. The plant maintains a total of 14 production wells

located on the site property for process purposes. Groundwater derived from Wells PW-7, PW-8, and PW-9 is routed directly to one of four onsite incinerators used as scrubbers.

1.3 ENVIRONMENTAL SETTING

The American Cyanamid facility is located on the west bank of the Mississippi River at an elevation of approximately 460 to 470 feet (ft) above mean sea level (MSL). The topography of the site is characterized as relatively flat, surrounded by flood levees. Surface water drainage at the site is generally from north to south in the absence of a formal drainage ditch system.

The unconsolidated geologic deposits underlying the site consist of approximately 10 to 15 ft of gray, stiff, silty clay, underlain by a thick deposit (approximately 160 ft) of fine to coarse alluvial sand with some gravel. Bedrock is encountered approximately 175 ft below ground surface (BGS) and consists primarily of limestone of lower Mississippian age. Depth to groundwater is relatively shallow and exists under water table conditions (i.e. unconfined aquifer). During times of elevated river stages, groundwater at the site may exist under semi-confined conditions. Importantly, the depth to groundwater is directly influenced by fluctuations in the Mississippi River stage.

2.0 METHODOLOGIES

2.1 GEOPROBE™ INSTALLATION AND SAMPLING PROCEDURES

A total of fifty (50) 1-inch diameter, Geoprobe™ borings were installed at the site in December 1995 and January 1996 by Hydro-Logic, Inc. of Eudora, Kansas. The Geoprobe™ installation and sampling activities at the American Cyanamid facility was undertaken in two phases. The first phase of the investigation was performed December 11-16, 1995, and included the installation of 23 Geoprobe™ borings focused on the area in the vicinity of Wells PW-7, PW-8, and PW-9. The second phase of the investigation was performed January 15-19, 1996, and included the installation of 27 additional Geoprobe™ borings focused on the central and southern sectors of the plant. Actual Geoprobe™ locations were determined in the field by the onsite Geraghty & Miller field supervisor in conjunction with American Cyanamid personnel. Geoprobe™ sampling locations are illustrated on Figure 2.

The one-inch diameter, hollow steel rods were hydraulically driven into the subsurface to the desired depth or until refusal. The steel probe rods are 3 ft in length and are threaded on the ends for easy connection. An expendable drive point is located on the end of the probe. Once the desired sampling depth (80 to 90 ft BGS) or refusal was encountered, the steel rods were retracted approximately 0.5 ft to 1 ft to drop the expendable drive point, thus allowing groundwater to flow into the hollow rods. Teflon tubing (1/4 inch diameter) was inserted into the hollow rods to allow for collection of grab groundwater samples with a peristalitic pump. The groundwater samples were placed in 40 milliliter (mL) glass vial(s) for subsequent analysis.

Two Geoprobe™ locations were utilized to gather vertical profile data (GW-43 and GW-45). The vertical profiles were completed in a multiple boring fashion with each boring being located less than six inches apart. Groundwater samples were collected at approximately 20 ft intervals throughout the total depth of the boring.

Following collection of the groundwater sample, the hollow steel rods were removed from the subsurface and the borehole was closed by filling with a bentonite grout.

2.2 LABORATORY ANALYTICAL PROCEDURES

2.2.1 On-site Analyses

A minimum of one groundwater sample collected from each Geoprobe™ location was analyzed onsite by Hydro-Logic Inc.'s mobile laboratory. Approximately 20 mL of sample was placed in a 40 mL glass vial and heated to approximately 60 degrees Centigrade ("C). Headspace gases were then injected into the gas chromatograph (GC) for analysis of volatile organic compounds (VOC's) by U.S. Environmental Protection Agency (USEPA) Method 8021.

2.2.2 Other Laboratory Analyses

A total of eight (8) duplicate groundwater samples (GW-16, GW-17, GW-18, GW-20, GW-34, GW-37, GW-41, and GW-43 were collected from selected Geoprobe™ locations for subsequent submittal to an analytical laboratory. The duplicate groundwater samples were split in the field, placed in laboratory-supplied bottles, and placed on ice for shipment to Inchcape Testing Services, located in Richardson, Texas. These samples were analyzed for VOC's by USEPA Method 8240. Duplicate samples were collected to verify the results from the onsite mobile laboratory.

2.3 DECONTAMINATION PROCEDURES

A decontamination staging area was prepared at a designated on-site location. All sampling equipment was cleaned prior to initiating the field activities, and between each Geoprobe™ boring. The steel rods and associated tools were decontaminated by using a non-phosphate detergent and distilled water solution. Standard Geraghty & Miller quality assurance/quality control protocols were maintained during all field sampling activities.

3.0 GROUNDWATER ANALYTICAL RESULTS

3.1 MONOCHLOROBENZENE OCCURRENCE

Monochlorobenzene (MCB), also referred to as chlorobenzene, was detected above the laboratory reporting limit in groundwater samples collected from 22 of 50 Geoprobe™ locations. MCB was also detected above the laboratory reporting limit in Wells PW-7 and PW-8. Results of the MCB data are summarized on Table 1, along with a comparison summary of mobile GC and laboratory verification groundwater analyses. The analytical reports are presented in Appendix A. The analytical data can be summarized as follows:

- Detectable concentrations of MCB in groundwater samples collected from Geoprobe™ locations ranged from 3.02 micrograms per liter (µg/L) in Sample GW-18 to 1,360 µg/L in Sample GW-41DUP. The highest concentrations of MCB were located in the southeastern sector of the plant, immediately south of the aboveground bulk storage tank area.

- MCB was detected in groundwater samples collected from Wells PW-7 and PW-8 at concentrations of 21.40 µg/L and 42.25 µg/L, respectively.

3.2 ETHYLENE DICHLORIDE OCCURRENCE

Ethylene Dichloride (EDC), also referred to as 1,2-dichloroethane (1,2-DCA) was detected above the laboratory reporting limit in groundwater samples collected from 44 of 50 Geoprobe™ locations. 1,2-DCA was also detected in groundwater samples collected from Wells PW-7 and PW-8. Graphs illustrating concentrations of 1,2-DCA in a vertical profile collected from Geoprobe™ locations GW-43 and GW-45 are provided in Appendix B. Results of the 1,2-DCA data are summarized on Table 1, along with a comparison summary of mobile GC and laboratory verification groundwater analyses. The analytical reports are presented in Appendix A. The analytical data can be summarized as follows:

- Detectable concentrations of 1,2-DCA in groundwater samples collected from Geoprobe™ locations ranged from 8.80 µg/L in Sample GW-47 to 7,970 µg/L in Sample GW-41DUP. The highest concentrations of 1,2-DCA were located in the southcentral and southeastern sectors of the plant.

- 1,2-DCA was detected in groundwater samples collected from Wells PW-7 and PW-8 at concentrations of 30.59 µg/L and 613 µg/L, respectively.

- 1,2-DCA detected in groundwater samples collected at Geoprobe™ locations GW-43 and GW-45 (vertical profile locations) indicate an overall decrease in concentrations with depth.

3.3 OTHER DETECTABLE VOCS

Other detectable VOCs in groundwater samples collected from Geoprobe™ locations included 1,1-Dichloroethane (1,1-DCA), chloroform, trans-1,2-Dichloroethene (trans-1,2-DCE), ethylbenzene, and xylenes. None of these constituents were detected in groundwater samples collected Water Supply Wells PW-7, PW-8, and PW-9. Results of the other detectable VOCs are summarized on Table 1, along with a comparison summary of mobile GC and laboratory verification groundwater analyses. The analytical reports are presented in Appendix A. The analytical data can be summarized as follows:

- 1,1-DCA was detected above the laboratory reporting limit in 7 of 50 groundwater samples collected from Geoprobe™ locations. Detectable concentrations ranged from 5.6 µg/L in Sample GW-37DUP to 53.98 µg/L in Sample GW-12.

- Chloroform was detected above the laboratory reporting limit in 5 of 50 groundwater samples collected from Geoprobe™ locations. Detectable concentrations ranged from 20.25 µg/L in Sample GW-11 to 169.94 µg/L in Sample GW-13.

- trans-1,2-DCE was detected above the laboratory reporting limit in 1 of 50 groundwater samples collected from Geoprobe™ locations. Sample GW-13 had a detectable concentration of 27.95 μg/L.

- Ethylbenzene was detected above the laboratory reporting limit in 1 of 50 groundwater samples collected from Geoprobe™ locations. Sample GW-14 had a detectable concentration of 342 μg/L.

- Xylenes (total) were detected above the laboratory reporting limit in 3 of 50 groundwater samples collected from Geoprobe™ locations. Detectable concentrations ranged from 6.06 μg/L in Sample GW-43 to 2,164 μg/L in Sample GW-14.

4.0 SUMMARY

In summary, the following observations are noted:

- The presence of 1,2-DCA was detected in groundwater samples collected from 44 of 50 Geoprobe™ locations and Wells PW-7 and PW-8. A maximum concentration of 7970 µg/L was detected in the groundwater sample collected from GW-41DUP, located in the southcentral sector of the plant.

- The presence of MCB was detected in groundwater samples collected at 22 of 50 Geoprobe™ locations and Wells PW-7 and PW-8. The maximum MCB concentration detected in the groundwater was 1,360 µg/L (Sample GW-41DUP). The highest concentrations of MCB are located in the southeastern sector of the plant.

- Other VOCs detected in the groundwater included 1,1-DCA, trans-1,2-DCE, and chloroform. 1,1-DCA was detected in groundwater samples collected from 7 of 50 groundwater locations, with a maximum concentration of 53.98 µg/L (Sample GW-12). The compound trans-1,2-DCE was detected in the groundwater at 1of 50 Geoprobe™ locations, with a maximum concentration of 27.95 (Sample GW-13). Lastly, chloroform was detected in the groundwater at 5 of 50 Geoprobe™ locations, with a maximum concentration 169.94 µg/L (Sample GW-13). All three of these constituents were detected in areas associated with the presence of 1,2-DCA and MCB.

T . Summary of Detected Volatile Organic Compound Cs) in Groundwater Samples Collected from Geoprobe™ Borings and Selected Onsite Production Wells, American Cyanamid, Inc. Facility, Hannibal, Missouri.

Sample ID	Depth Collected (ft bls)	Date Collected	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	EDC (1,2-DCA) (µg/L)	MCB (µg/L)	1,1-DCA (µg/L)	Chloroform (µg/L)	trans-1,2-DCE (µg/L)
GW-1	68	12/11/95	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0
GW-2	80	12/11/95	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0
GW-3	80	12/12/95	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0
GW-4	80	12/12/95	<5.0	<5.0	**454**	**19.99**	**21.01**	**30.32**	<2.0
GW-5	80	12/12/95	<5.0	<5.0	**369**	**37.38**	<2.0	<2.0	<2.0
GW-6	80	12/12/95	<5.0	<5.0	**55.05**	**35.24**	<2.0	<2.0	<2.0
GW-7	70	12/12/95	<5.0	<5.0	**116**	<2.0	<2.0	<2.0	<2.0
GW-8	80	12/12/95	<5.0	<5.0	**17.20**	**218**	<2.0	<2.0	<2.0
GW-9	89	12/14/95	<5.0	<5.0	**245**	**54.58**	<2.0	<2.0	<2.0
GW-10	89	12/14/95	<5.0	<5.0	**236**	**735**	<2.0	<2.0	<2.0
GW-11	60	12/14/95	<5.0	<5.0	**796**	**40.02**	**13.58**	**20.25**	<2.0
GW-12	89	12/14/95	<5.0	<5.0	**1441**	**693**	**53.98**	**146**	<2.0
GW-13	70	12/14/95	<5.0	<5.0	**2285**	**68.32**	**44.13**	**169.94**	**27.95**
GW-14	89	12/14/95	**342**	**2164**	**643**	**9.17**	<2.0	<2.0	<2.0
GW-15	89	12/15/95	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0
GW-16	89	12/15/95	<5.0	<5.0	**19.67**	<2.0	<2.0	<2.0	<2.0
GW-16 DUP	89	12/15/95	<5.0	<5.0	**19.90**	<2.0	<2.0	<2.0	<2.0
GW-17	58	12/15/95	<5.0	<5.0	**690**	**954**	<2.0	<2.0	<2.0
GW-17 DUP	58	12/15/95	<5.0	<5.0	**303**	**594**	<2.0	<2.0	<2.0

Footnotes found on last page.

Ta . Summary of Detected Volatile Organic Compounds Cs in Groundwater Samples Collected from Geoprobe™ Borings and Selected Onsite Production Wells, American Cyanamid, Inc., Facility, Hannibal, Missouri.

Sample ID	Depth Collected (ft bls)	Date Collected	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	EDC (1,2-DCA) (µg/L)	MCB (µg/L)	1,1-DCA (µg/L)	Chloroform (µg/L)	t-1,2-DCE (µg/L)
GW-18	89	12/15/95	<5.0	<5.0	**6.56**	**3.02**	<2.0	<2.0	<2.0
GW-18 DUP	89	12/15/95	<5.0	<5.0	**149**	**62.6**	<2.0	<2.0	<2.0
GW-19	89	12/15/95	<5.0	<5.0	**2146**	**12.82**	**23.49**	**55.03**	<2.0
GW-20	89	12/15/95	<5.0	<5.0	**88.44**	**98.53**	<2.0	<2.0	<2.0
GW-20 DUP	89	12/15/95	<5.0	<5.0	**268**	**282**	<2.0	<2.0	<2.0
GW-21	89	12/16/95	<5.0	<5.0	**595**	<2.0	<2.0	<2.0	<2.0
GW-22	89	12/16/95	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0
GW-23	89	12/16/95	<5.0	<5.0	**11.89**	<2.0	<2.0	<2.0	<2.0
GW-24	89	01/15/96	<10.0	<10.0	**14.23**	<4.0	<4.0	<4.0	<4.0
GW-25	87	01/15/96	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0
GW-26	89	01/15/96	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0
GW-27	89	01/15/96	<5.0	<5.0	**51.04**	<2.0	<2.0	<2.0	<2.0
GW-28	89	01/15/96	<5.0	<5.0	**2084**	<2.0	<2.0	<2.0	<2.0
GW-29	68	01/16/96	<25.0	<25.0	**71.72**	<10.0	<10.0	<10.0	<10.0
GW-30	68	01/16/96	<25.0	<25.0	**702**	<10.0	<10.0	<10.0	<10.0
GW-31	70	01/16/96	<10.0	<10.0	**67.06**	<4.0	<4.0	<4.0	<4.0
GW-32	75	01/16/96	<10.0	<10.0	**10.56**	<2.0	<4.0	<4.0	<4.0
GW-33	45	01/16/96	<5.0	**56.75**	**1327**	**209**	<2.0	<2.0	<2.0

Footnotes found on last page.

Ta . Summary of Detected Volatile Organic Compound Cs in Groundwater Samples Collected from Geoprobe™ Borings and Selected Onsite Production Wells, American Cyanamid, Inc., Facility, Hannibal, Missouri.

Sample ID	Depth Collected (ft bls)	Date Collected	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	EDC (1,2-DCA) (µg/L)	MCB (µg/L)	1,1-DCA (µg/L)	Chloroform (µg/L)	t-1,2-DCE (µg/L)
GW-34	67	01/16/96	<5.0	<5.0	**500**	**54.83**	<2.0	<2.0	<2.0
GW-34 DUP	67	01/16/96	<5.0	<5.0	**1670**	**248**	<2.0	<2.0	<2.0
GW-35	67	01/16/96	<5.0	<5.0	**154**	**149**	<2.0	<2.0	<2.0
GW-36	80	01/16/96	<5.0	<5.0	**379**	**136**	<2.0	<2.0	<2.0
GW-37	80	01/16/96	<5.0	<5.0	**710**	<2.0	<2.0	<2.0	<2.0
GW-37 DUP	80	01/16/96	<5.0	<5.0	**4930**	**8.5**	**5.6**	<2.0	<2.0
GW-38	80	01/17/96	<10.0	<10.0	**16.25**	<4.0	<4.0	<4.0	<4.0
GW-39	80	01/17/96	<10.0	<10.0	**38.83**	<4.0	<4.0	<4.0	<4.0
GW-40	74	01/18/96	<5.0	<5.0	**76.69**	<2.0	<2.0	<2.0	<2.0
GW-41	65	01/17/96	<10.0	<10.0	**1287**	**211**	<4.0	<4.0	<4.0
GW-41 DUP	65	01/17/96	<10.0	<10.0	**7970**	**1360**	**26.6**	<4.0	<4.0
GW-42	77	01/17/96	<10.0	<10.0	**509**	**34.46**	<2.0	<2.0	<2.0
GW-43	20	01/18/96	<5.0	**6.06**	**1796**	**22.04**	<2.0	<2.0	<2.0
GW-43	40	01/18/96	<5.0	<5.0	**579**	<2.0	<2.0	<2.0	<2.0
GW-43	60	01/18/96	<5.0	<5.0	**54.32**	<2.0	<2.0	<2.0	<2.0
GW-43	73	01/18/96	<5.0	<5.0	**50.52**	<2.0	<2.0	<2.0	<2.0
GW-43 DUP	73	01/18/96	<5.0	<5.0	**47.6**	<2.0	<2.0	<2.0	<2.0
GW-44	83	01/17/96	<10.0	<10.0	**11.65**	<4.0	<4.0	<4.0	<4.0
GW-45	20	01/17/96	<10.0	<10.0	**13.64**	<4.0	<4.0	<4.0	<4.0
GW-45	32	01/17/96	<10.0	<10.0	**53.15**	<4.0	<4.0	<4.0	<4.0
GW-45	60	01/17/96	<10.0	<10.0	<10.0	<4.0	<4.0	<4.0	<4.0
GW-45	84	01/17/96	<10.0	<10.0	**10.01**	<4.0	<4.0	<4.0	<4.0

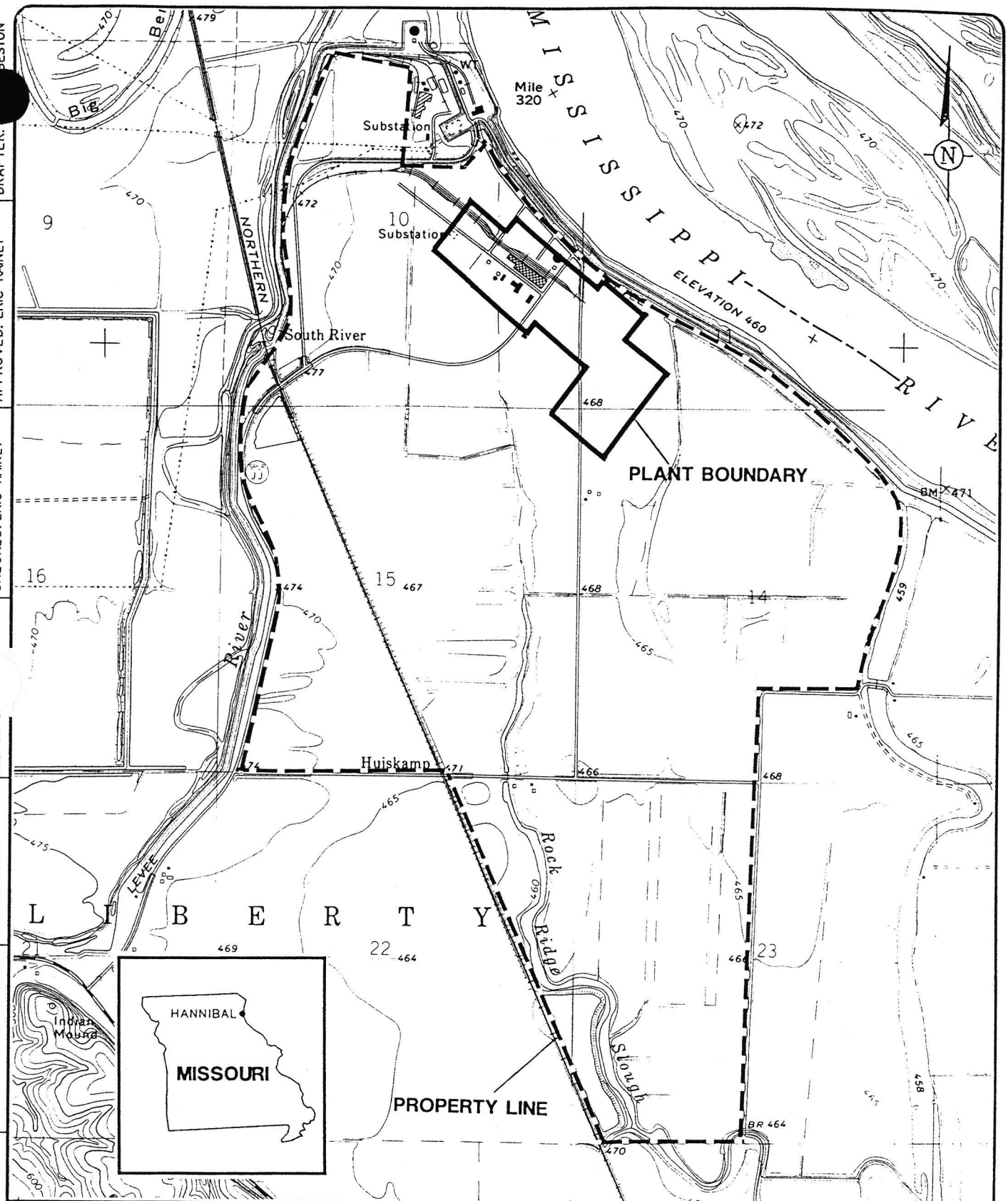
Footnotes found on last page.

Ta . Summary of Detected Volatile Organic Compound Cs) in Groundwater Samples Collected from Geoprobe™ Borings and Selected Onsite Production Wells, American Cyanamid, Inc. Facility, Hannibal, Missouri.

Sample ID	Depth Collected (ft bls)	Date Collected	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	EDC (1,2-DCA) (µg/L)	MCB (µg/L)	1,1-DCA (µg/L)	Chloroform (µg/L)	trans-1,2-DCE (µg/L)
GW-46	80	01/17/96	<5.0	<5.0	**15.02**	<2.0	<2.0	<2.0	<2.0
GW-47	76	01/18/96	<5.0	<5.0	**8.80**	<2.0	<2.0	<2.0	<2.0
GW-48	74	01/19/96	<5.0	<5.0	**44.32**	<2.0	<2.0	<2.0	<2.0
GW-49	77	01/19/96	<5.0	<5.0	**326**	<2.0	<2.0	<2.0	<2.0
GW-50	81	01/19/96	<5.0	<5.0	**652**	<2.0	<2.0	<2.0	<2.0
PW-7	66-92[1]	12/11/95	<5.0	<5.0	**30.59**	**21.40**	<2.0	<2.0	<2.0
PW-8	62-88[1]	12/11/95	<5.0	<5.0	**613**	**42.25**	<2.0	<2.0	<2.0
PW-9	56-82[1]	12/11/95	<5.0	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0
1994 Missouri Water Quality Standards for Groundwater			700	10,000	5	100	--	100	100

ft bls	Feet below land surface.
DUP	Duplicate sample.
(1)	Refers to the screened interval of the well.
µg/L	Micrograms per liter; equivalent to parts per billion (ppb).
EDC	Ethylene dichloride, also known as 1,2-dichloroethane (1,2-DCA).
MCB	Monochlorobenzene or chlorobenzene.
1,1-DCA	1,1-dichloroethane
trans-1,2-DCE	trans-1,2-dichloroethene

AMERCYAN\KS181001\TABLES\TABLE1.DOC



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Environmental Services
A Heidemij Company

0 2000 FT.

SITE LOCATION MAP

REF. USGS 7.5' QUADRANGLE - QUINCY SW,MO/ILL.

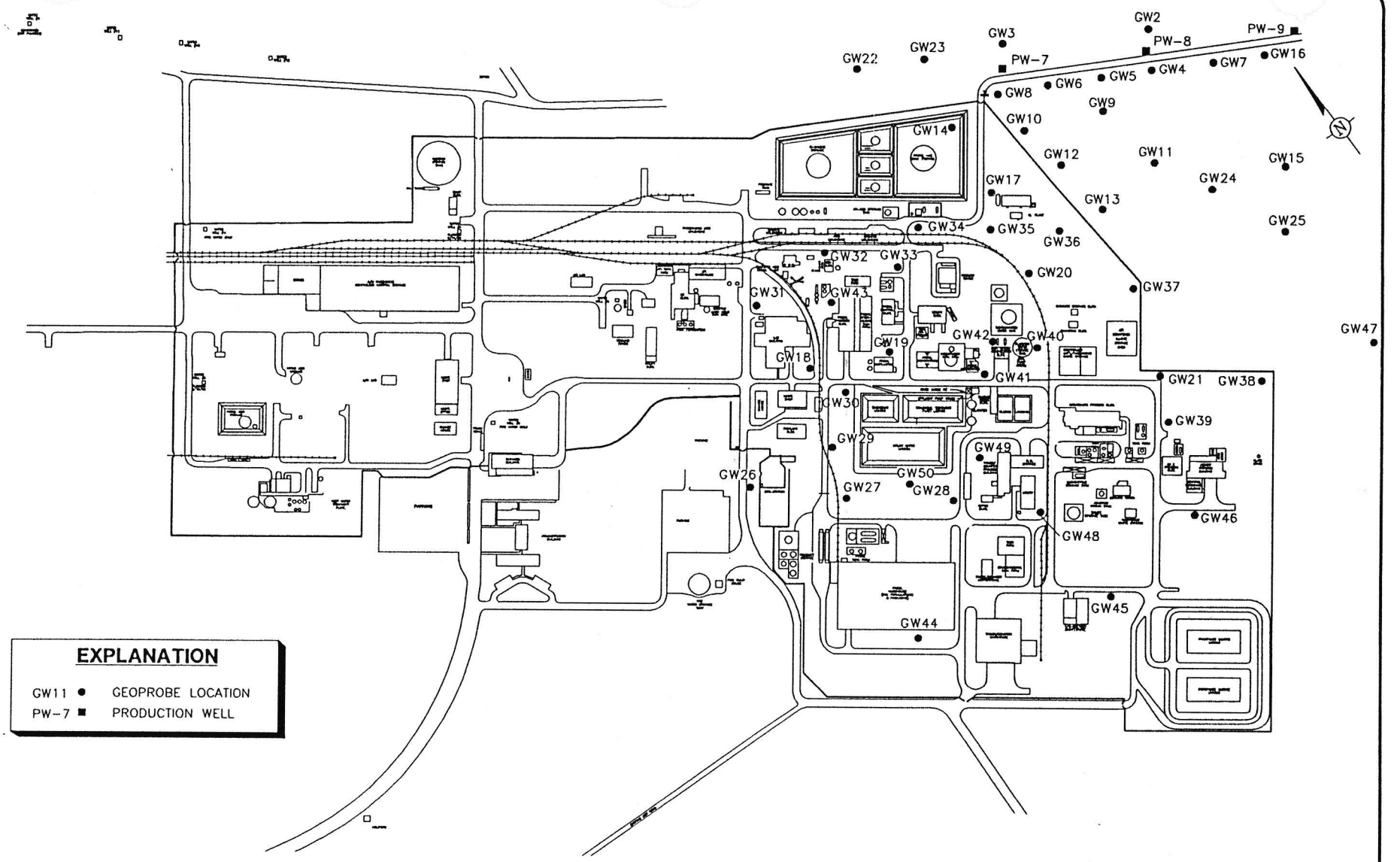
AMERICAN CYANAMID FACILITY
HANNIBAL, MISSOURI

FIGURE

1

DRAFTER: BESTON
APPROVED: ERIC RAINEY
CHECKED: ERIC RAINEY
REPORT:
FILE NO.: FIG1
PRJCT NO.: KS0181.001
DATE: 27FEB96

DWG	UNE96	PRJCT NO.: KS0181.001	FILE NO.: GEO-2	REPORT: D	CHECKED: MIKE DWYER	APPROVED: ERIC RAINEY	DRAFTER: J ESTON



GERAGHTY & MILLER, INC.
Environmental Services
A Heidemij Company

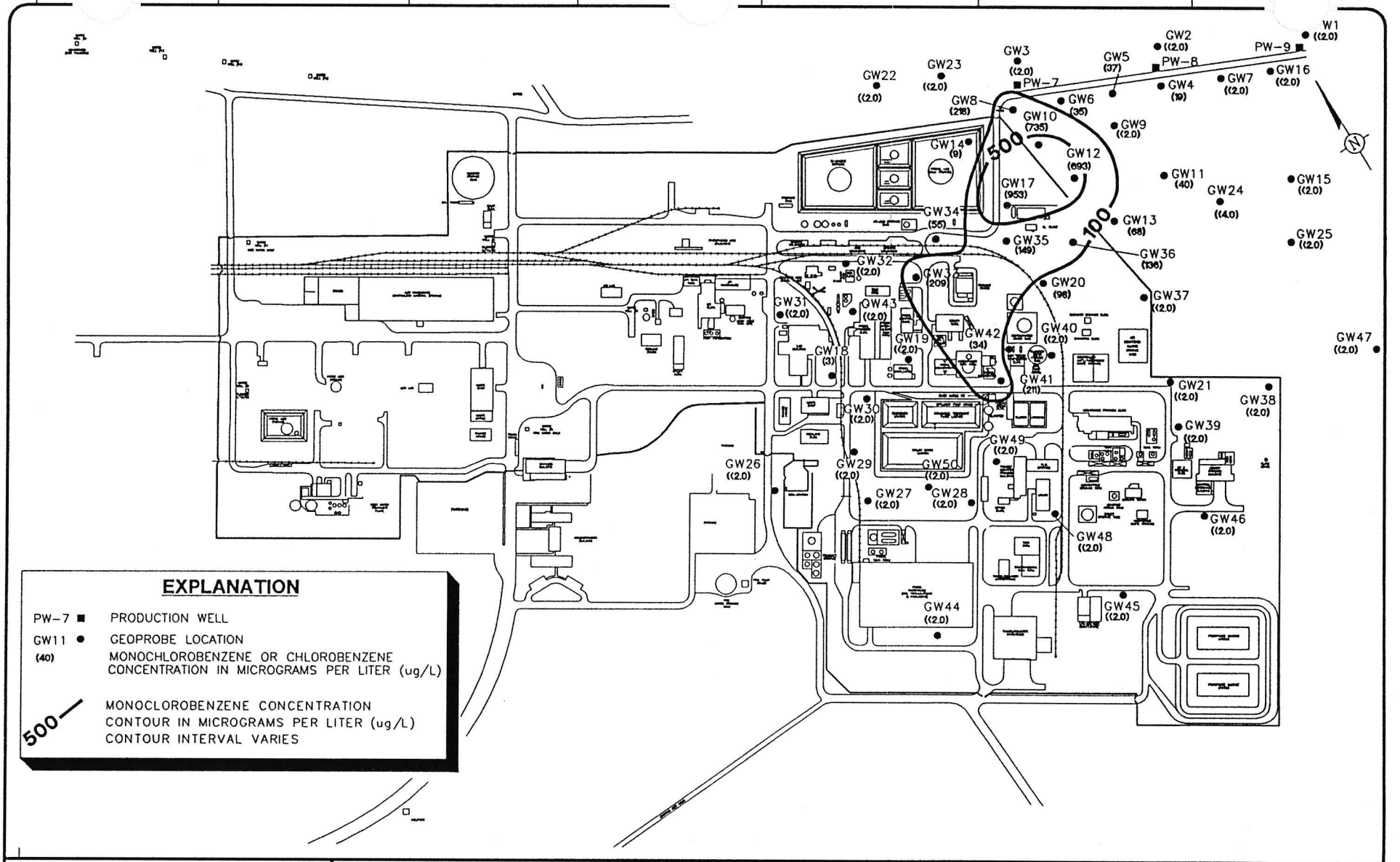
0 500 FT.

SITE MAP WITH GEOPROBE LOCATIONS

AMERICAN CYANAMID INC. FACILITY
HANNIBAL, MISSOURI

FIGURE
2

DWG	9FEB96	PRJCT NO.: KS0181.001	FILE NO.:CHLOR-1	REPORT: D	CHECKED: MIKE DWYER	APPROVED: ERIC RAINEY	DRAFTER: ESTON



GERAGHTY & MILLER, INC.
Environmental Services
A Heidemij Company

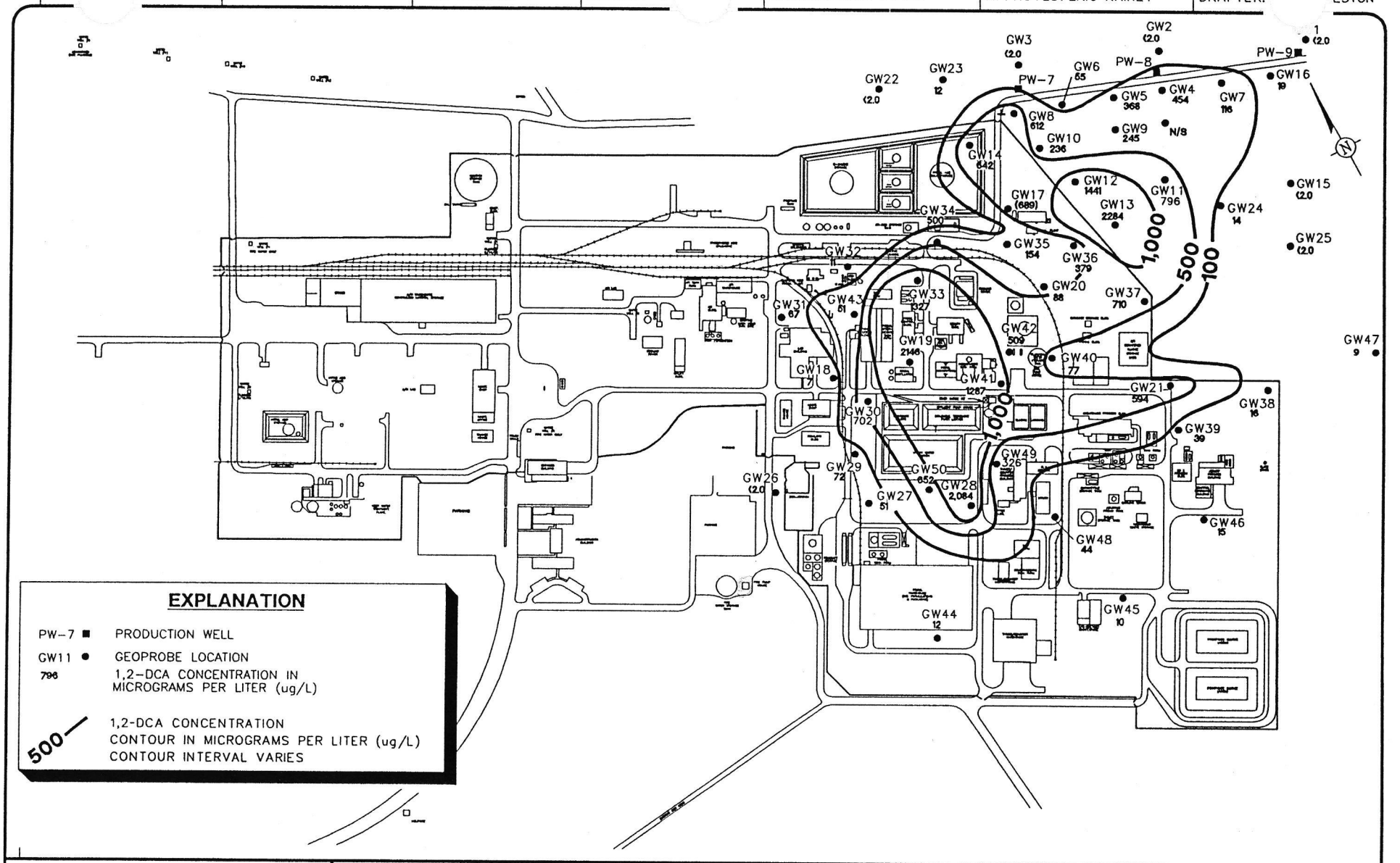
0 500 FT.

MONOCHLOROBENZENE CONCENTRATIONS IN GEOPROBE GROUNDWATER SAMPLES

AMERICAN CYANAMID INC. FACILITY
HANNIBAL, MISSOURI

FIGURE 3

DWG JUN96 | PRJCT NO.: KS0181.001 | FILE NO.:DCA-1 | REPORT: D | CHECKED: MIKE DWYER | APPROVED: ERIC RAINEY | DRAFTER: ESTON



GERAGHTY & MILLER, INC.
Environmental Services
A Heidemij Company

ETHYLENE DICHLORIDE (1,2-DCA) CONCENTRATIONS IN GEOPROBE GROUNDWATER SAMPLES

AMERICAN CYANAMID INC. FACILITY
HANNIBAL, MISSOURI

FIGURE 4

APPENDIX A

GROUNDWATER ANALYTICAL DATA

DECEMBER 1995
GROUNDWATER ANALYTICAL REPORTS

Hydro-LOGIC INC.

1927 N. 1275 Road Eudora, Kansas 66025-8127

Office: (913) 542-2518

Fax: (913) 542-3971

RECEIVED
DEC 22 1995
GERAGHTY & MILLER, INC.
KANSAS

December 20, 1995

Geraghty & Miller, Inc.
Attn: Ms. Tina Lloyd
11020 King Street
Overland Park, Kansas 66210

95-14-109

RE: Groundwater Survey Analytical Results for the American Cyanamid Facility, Route JJ, Hannibal, Missouri.

Dear Tina,

Hydro-LOGIC, Inc. (HLI) is pleased to submit the analytical results for the above referenced site. A total of 23 testholes were advanced during the investigation and three (3) groundwater samples were collected from existing wells. A total of thirty-four (34) samples were analyzed for aromatic hydrocarbons and purgeable chlorinated hydrocarbons (halocarbons) by USEPA method 8021. Tables expressing the analytical results are summarized on the enclosed laboratory data sheets.

HLI appreciates this opportunity to provide our environmental services. Should you have any questions or require additional information, please call myself or Walter Cranor at (913) 542-2518.

Sincerely,
Hydro-LOGIC, Inc.

Don W. Dulaney RGP
Geologist/President

Attachments

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E78.chr) **PW-7**
Date Sampled: 12/11/95
Date Analyzed: 12/11/95

Sample: 1 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	30.59	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	21.40	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Don W. Dulaney
Analyst - Don W. Dulaney

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E79.chr) **PW-8**
Date Sampled: 12/11/95
Date Analyzed: 12/11/95

Sample: 2 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	613	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	42.25	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed _____
Analyst - Don W. Dulaney

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E77.chr) **PW-9**
Date Sampled: 12/11/95
Date Analyzed: 12/11/95

Sample: 3 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	< 2.0	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed
Analyst - Don W. Dulaney

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E81.chr) **Method Blank**
Date Sampled: 12/11/95
Date Analyzed: 12/11/95

Sample: 4 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	< 2.0	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Don W. Dulaney
Analyst - Don W. Dulaney

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E82.chr) **GW-1**
Date Sampled: 12/11/95
Date Analyzed: 12/11/95

Sample: 5 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	< 2.0	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Don W. Dulaney
Analyst - Don W. Dulaney

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E83.chr) **GW-2**
Date Sampled: 12/11/95
Date Analyzed: 12/11/95

Sample: 6 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	< 2.0	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Don W. Dulaney
Analyst - Don W. Dulaney

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E84.chr) **GW-2-R**
Date Sampled: 12/11/95
Date Analyzed: 12/11/95

Sample: 7 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	< 2.0	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Don W. Dulaney
Analyst - Don W. Dulaney

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E85.chr) **GW-3**
Date Sampled: 12/12/95
Date Analyzed: 12/12/95

Sample: 8 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	< 2.0	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Don W. Dulaney
Analyst - Don W. Dulaney

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E86.chr) **GW-4**
Date Sampled: 12/12/95
Date Analyzed: 12/12/95

Sample: 9 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	21.01	2.0 µg/l
Chloroform	30.32	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	454	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	19.99	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Don W. Dulaney
Analyst - Don W. Dulaney

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E87.chr) **GW-5**
Date Sampled: 12/12/95
Date Analyzed: 12/12/95

Sample: 10 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	369	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	37.38	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

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Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E88.chr) **GW-6**
Date Sampled: 12/12/95
Date Analyzed: 12/12/95

Sample: 11 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	55.05	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	35.24	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

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Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E89.chr) **GW-7**
Date Sampled: 12/12/95
Date Analyzed: 12/12/95

Sample: 12 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	116	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Don W. Dulaney
Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E90.chr) **GW-8**
Date Sampled: 12/12/95
Date Analyzed: 12/12/95

Sample: 13 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	17.20	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	218	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

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Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E91.chr) **Method Blank**
Date Sampled: 12/12/95
Date Analyzed: 12/12/95

Sample: 14 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	< 2.0	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

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Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E105.chr) **GW-9**
Date Sampled: 12/14/95
Date Analyzed: 12/14/95

Sample: 15 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	245	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	54.58	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Don W. Dulaney
Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E106.chr) **GW-10**
Date Sampled: 12/14/95
Date Analyzed: 12/14/95

Sample: 16 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	236	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	735	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

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Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E107(8).chr) **GW-11**
Date Sampled: 12/14/95
Date Analyzed: 12/14/95

Sample: 17 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	13.58	2.0 µg/l
Chloroform	20.25	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	796	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	40.02	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

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Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E109.chr) **GW-12**
Date Sampled: 12/14/95
Date Analyzed: 12/14/95

Sample: 18 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	53.98	2.0 µg/l
Chloroform	146	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	1,441	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	693	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

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Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E111.chr) **GW-13**
Date Sampled: 12/14/95
Date Analyzed: 12/14/95

Sample: 19 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	27.95	2.0 µg/l
1,1-Dichloroethane	44.13	2.0 µg/l
Chloroform	169.94	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	2,285	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	68.32	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Don W. Dulaney
Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E112.chr) **GW-14**
Date Sampled: 12/14/95
Date Analyzed: 12/14/95

Sample: 20 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	342	5.0 µg/l
Xylenes (o, m, p)	2,164	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	643	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	9.17	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

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Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E120.chr) **Method Blank**
Date Sampled: 12/14/95
Date Analyzed: 12/14/95

Sample: 21 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	< 2.0	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

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Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E121.chr) **GW-15**
Date Sampled: 12/15/95
Date Analyzed: 12/15/95

Sample: 22 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	< 2.0	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

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Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E129.chr) **GW-15-R**
Date Sampled: 12/15/95
Date Analyzed: 12/15/95

Sample: 23 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	6.56	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	3.02	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

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Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E124.chr) **GW-16**
Date Sampled: 12/15/95
Date Analyzed: 12/15/95

Sample: 24 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	19.67	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

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Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E130.chr) **GW-16-R**
Date Sampled: 12/15/95
Date Analyzed: 12/15/95

Sample: 25 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	27.44	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	3.02	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Don W. Dulaney
Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E126.chr) **GW-17**
Date Sampled: 12/15/95
Date Analyzed: 12/15/95

Sample: 26 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	690	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	954	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

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Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E127.chr) **Method Blank**
Date Sampled: 12/15/95
Date Analyzed: 12/15/95

Sample: 27 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	< 2.0	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	2.23	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Don W. Dulaney
Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E128.chr) **GW-18**
Date Sampled: 12/15/95
Date Analyzed: 12/15/95

Sample: 28 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	6.56	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	3.02	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Don W. Dulaney
Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E131.chr) **GW-18-R**
Date Sampled: 12/15/95
Date Analyzed: 12/15/95

Sample: 29 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	15.95	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Don W. Dulaney
Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E132.chr/E140.chr) **GW-19**
Date Sampled: 12/15/95
Date Analyzed: 12/15/95

Sample: 30 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	23.49	2.0 µg/l
Chloroform	55.03	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	2,146	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	12.82	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed _____
Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E134.chr) **GW-20**
Date Sampled: 12/15/95
Date Analyzed: 12/15/95

Sample: 31 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	88.44	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	98.53	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed _____
Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E142.chr) **GW-21**
Date Sampled: 12/16/95
Date Analyzed: 12/16/95

Sample: 32 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	595	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Don W. Dulaney
Analyst - Don W. Dulaney

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E144.chr) **GW-22**
Date Sampled: 12/16/95
Date Analyzed: 12/16/95

Sample: 33 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	< 2.0	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Don W. Dulaney
Analyst - Don W. Dulaney

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E145.chr) **GW-23**
Date Sampled: 12/16/95
Date Analyzed: 12/16/95

Sample: 34 of 34
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	11.89	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Don W. Dulaney
Analyst - Don W. Dulaney

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Inchcape Testing Services
Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

ANALYTICAL REPORT

DATE RECEIVED : 16-DEC-1995

REPORT NUMBER : D95-12204
REPORT DATE : 29-DEC-1995

SAMPLE SUBMITTED BY : Geraghty & Miller
ADDRESS : 5100 E. Skelly Ste. 1000
: Tulsa, OK 74135
ATTENTION : Mike Dwyes
PROJECT : KS0181.001 American Cyamaimid
PURCHASE ORDER NO : KS0181.001

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JAN 05 1996
BY:

Included in this data package are the analytical results for the sample group which you have submitted to Inchcape Testing Services for analysis. These results are representative of the samples as received by the laboratory.

The information contained herein has undergone extensive review and 's deemed accurate and complete. Sample analysis and quality ontrol were performed in accordance with all applicable protocols. Any deviations from these protocols or observations of interest are detailed in an accompanying Case Narrative. Please refrain from reproducing this report except in its entirety.

If you have any questions regarding this report and its associated materials please call your Project Manager at (214) 238-5591.

We appreciate the opportunity to serve you and look forward to providing continued service in the future.

Martin Jeffus

Martin Jeffus
General Manager

Inchcape Testing Services
Environmental Laboratories

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Fax. 214-238-5592

DATE RECEIVED : 16-DEC-1995

REPORT NUMBER : D95-12204-1
REPORT DATE : 29-DEC-1995

SAMPLE SUBMITTED BY : Geraghty & Miller
ADDRESS : 5100 E. Skelly Ste. 1000
: Tulsa, OK 74135
ATTENTION : Mike Dwyes

SAMPLE MATRIX : Liquid
ID MARKS : GW16
PROJECT : KS0181.001 American Cyamaimid
PURCHASE ORDER NO : KS0181.001
DATE SAMPLED : 15-DEC-1995
ANALYSIS METHOD : EPA 8240 /1
ANALYZED BY : SAP
ANALYZED ON : 22-DEC-1995
DILUTION FACTOR : 1
QC BATCH NO : ITS6-647

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Chloromethane	10.0	µg/L	<	10.0	µg/L
Bromomethane	10.0	µg/L	<	10.0	µg/L
Vinyl chloride	10.0	µg/L	<	10.0	µg/L
Chloroethane	10.0	µg/L	<	10.0	µg/L
Methylene chloride	5.0	µg/L	<	5.0	µg/L
Acetone	100	µg/L	<	100	µg/L
Carbon disulfide	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethene	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethane	5.0	µg/L	<	5.0	µg/L
cis-1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
trans-1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
Chloroform	5.0	µg/L	<	5.0	µg/L
1,2-Dichloroethane	5.0	µg/L		19.9	µg/L
2-Butanone	50.0	µg/L	<	50.0	µg/L
1,1,1-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Carbon tetrachloride	5.0	µg/L	<	5.0	µg/L

Inchcape Testing Services
Environmental Laboratories

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Tel. 214-238-5591
Fax. 214-238-5592

REPORT NUMBER : D95-12204-1
ANALYSIS METHOD : EPA 8240 /1

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/L	<	50.0	µg/L
Bromodichloromethane	5.0	µg/L	<	5.0	µg/L
1,2-Dichloropropane	5.0	µg/L	<	5.0	µg/L
cis-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Trichloroethene	5.0	µg/L	<	5.0	µg/L
Chlorodibromomethane	5.0	µg/L	<	5.0	µg/L
1,1,2-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Benzene	5.0	µg/L	<	5.0	µg/L
trans-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Bromoform	5.0	µg/L	<	5.0	µg/L
2-Chloroethylvinyl ether	10.0	µg/L	<	10.0	µg/L
4-Methyl-2-pentanone	50.0	µg/L	<	50.0	µg/L
2-Hexanone	50.0	µg/L	<	50.0	µg/L
Tetrachloroethene	5.0	µg/L	<	5.0	µg/L
Toluene	5.0	µg/L	<	5.0	µg/L
1,1,2,2-Tetrachloroethane	5.0	µg/L	<	5.0	µg/L
Chlorobenzene	5.0	µg/L	<	5.0	µg/L
Ethylbenzene	5.0	µg/L	<	5.0	µg/L
Styrene	5.0	µg/L	<	5.0	µg/L
o-Xylene	5.0	µg/L	<	5.0	µg/L
m,p-Xylene	5.0	µg/L	<	5.0	µg/L

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REPORT NUMBER : D95-12204-1
ANALYSIS METHOD : EPA 8240 /1

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	127 %
Toluene-d8 (SS)	50.0 µg/L	111 %
Bromofluorobenzene (SS)	50.0 µg/L	83.4 %

Inchcape Testing Services
Environmental Laboratories

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DATE RECEIVED : 16-DEC-1995

REPORT NUMBER : D95-12204-1
REPORT DATE : 29-DEC-1995

SAMPLE SUBMITTED BY : Geraghty & Miller
ADDRESS : 5100 E. Skelly Ste. 1000
: Tulsa, OK 74135
ATTENTION : Mike Dwyes

SAMPLE MATRIX : Liquid
ID MARKS : GW16
PROJECT : KS0181.001 American Cyamaimid
PURCHASE ORDER NO : KS0181.001
DATE SAMPLED : 15-DEC-1995
ANALYZED BY : SAP
ANALYZED ON : 22-DEC-1995
ANALYSIS METHOD : EPA 8240 /1
QC BATCH NO : ITS6-647

TENTATIVELY IDENTIFIED COMPOUNDS				
COMPOUND	RETENTION TIME	FRACTION	RESULT	
Propene	1.10	VOA	27	ug/L
Methylpropene	1.35	VOA	18	ug/L

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DATE RECEIVED : 16-DEC-1995

REPORT NUMBER : D95-12204-2
REPORT DATE : 29-DEC-1995

SAMPLE SUBMITTED BY : Geraghty & Miller
ADDRESS : 5100 E. Skelly Ste. 1000
: Tulsa, OK 74135
ATTENTION : Mike Dwyes

SAMPLE MATRIX : Liquid
ID MARKS : GW17
PROJECT : KS0181.001 American Cyamaimid
PURCHASE ORDER NO : KS0181.001
DATE SAMPLED : 15-DEC-1995
ANALYSIS METHOD : EPA 8240 /1
ANALYZED BY : SAP
ANALYZED ON : 22-DEC-1995
DILUTION FACTOR : 1
QC BATCH NO : ITS6-647

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Chloromethane	10.0	µg/L	<	10.0	µg/L
Bromomethane	10.0	µg/L	<	10.0	µg/L
Vinyl chloride	10.0	µg/L	<	10.0	µg/L
Chloroethane	10.0	µg/L	<	10.0	µg/L
Methylene chloride	5.0	µg/L	<	5.0	µg/L
Acetone	100	µg/L	<	100	µg/L
Carbon disulfide	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethene	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethane	5.0	µg/L	<	5.0	µg/L
cis-1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
trans-1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
Chloroform	5.0	µg/L	<	5.0	µg/L
1,2-Dichloroethane	5.0	µg/L		303	µg/L
2-Butanone	50.0	µg/L	<	50.0	µg/L
1,1,1-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Carbon tetrachloride	5.0	µg/L	<	5.0	µg/L

Inchcape Testing Services
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Tel. 214-238-5591
Fax. 214-238-5592

REPORT NUMBER : D95-12204-2
ANALYSIS METHOD : EPA 8240 /1

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/L	<	50.0	µg/L
Bromodichloromethane	5.0	µg/L	<	5.0	µg/L
1,2-Dichloropropane	5.0	µg/L	<	5.0	µg/L
cis-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Trichloroethene	5.0	µg/L	<	5.0	µg/L
Chlorodibromomethane	5.0	µg/L	<	5.0	µg/L
1,1,2-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Benzene	5.0	µg/L	<	5.0	µg/L
trans-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Bromoform	5.0	µg/L	<	5.0	µg/L
2-Chloroethylvinyl ether	10.0	µg/L	<	10.0	µg/L
4-Methyl-2-pentanone	50.0	µg/L	<	50.0	µg/L
2-Hexanone	50.0	µg/L	<	50.0	µg/L
Tetrachloroethene	5.0	µg/L	<	5.0	µg/L
Toluene	5.0	µg/L	<	5.0	µg/L
1,1,2,2-Tetrachloroethane	5.0	µg/L	<	5.0	µg/L
Chlorobenzene	5.0	µg/L	>	330	µg/L
Ethylbenzene	5.0	µg/L	<	5.0	µg/L
Styrene	5.0	µg/L	<	5.0	µg/L
o-Xylene	5.0	µg/L	<	5.0	µg/L
m,p-Xylene	5.0	µg/L	<	5.0	µg/L

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Fax. 214-238-5592

REPORT NUMBER : D95-12204-2
ANALYSIS METHOD : EPA 8240 /1

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	91.4 %
Toluene-d8 (SS)	50.0 µg/L	105 %
Bromofluorobenzene (SS)	50.0 µg/L	93.3 %

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DATE RECEIVED : 16-DEC-1995

REPORT NUMBER : D95-12204-2
REPORT DATE : 29-DEC-1995

SAMPLE SUBMITTED BY : Geraghty & Miller
ADDRESS : 5100 E. Skelly Ste. 1000
: Tulsa, OK 74135
ATTENTION : Mike Dwyes

SAMPLE MATRIX : Liquid
ID MARKS : GW17
PROJECT : KS0181.001 American Cyamaimid
PURCHASE ORDER NO : KS0181.001
DATE SAMPLED : 15-DEC-1995
ANALYSIS METHOD : EPA 8240 /2
ANALYZED BY : KDS
ANALYZED ON : 29-DEC-1995
DILUTION FACTOR : 5
QC BATCH NO : ITS2-652

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Chlorobenzene	25.0 µg/L	594 µg/L

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	108 %
Toluene-d8 (SS)	50.0 µg/L	91.4 %
Bromofluorobenzene (SS)	50.0 µg/L	99.8 %

Inchcape Testing Services
Environmental Laboratories

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Fax. 214-238-5592

DATE RECEIVED : 16-DEC-1995

REPORT NUMBER : D95-12204-2
REPORT DATE : 29-DEC-1995

SAMPLE SUBMITTED BY : Geraghty & Miller
ADDRESS : 5100 E. Skelly Ste. 1000
: Tulsa, OK 74135
ATTENTION : Mike Dwyes

SAMPLE MATRIX : Liquid
ID MARKS : GW17
PROJECT : KS0181.001 American Cyamaimid
PURCHASE ORDER NO : KS0181.001
DATE SAMPLED : 15-DEC-1995
ANALYZED BY : SAP
ANALYZED ON : 22-DEC-1995
ANALYSIS METHOD : EPA 8240 /1
QC BATCH NO : ITS6-647

TENTATIVELY IDENTIFIED COMPOUNDS				
COMPOUND	RETENTION TIME	FRACTION	RESULT	
Propene	1.10	VOA	24	ug/L
Methylpropene	1.34	VOA	16	ug/L

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DATE RECEIVED : 16-DEC-1995

REPORT NUMBER : D95-12204-3
REPORT DATE : 29-DEC-1995

SAMPLE SUBMITTED BY : Geraghty & Miller
ADDRESS : 5100 E. Skelly Ste. 1000
: Tulsa, OK 74135
ATTENTION : Mike Dwyes

SAMPLE MATRIX : Liquid
ID MARKS : GW18
PROJECT : KS0181.001 American Cyamaimid
PURCHASE ORDER NO : KS0181.001
DATE SAMPLED : 15-DEC-1995
ANALYSIS METHOD : EPA 8240 /1
ANALYZED BY : SAP
ANALYZED ON : 22-DEC-1995
DILUTION FACTOR : 1.4
QC BATCH NO : ITS6-647

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Chloromethane	14.0	µg/L	<	14.0	µg/L
Bromomethane	14.0	µg/L	<	14.0	µg/L
Vinyl chloride	14.0	µg/L	<	14.0	µg/L
Chloroethane	14.0	µg/L	<	14.0	µg/L
Methylene chloride	7.0	µg/L	<	7.0	µg/L
Acetone	140	µg/L	<	140	µg/L
Carbon disulfide	7.0	µg/L	<	7.0	µg/L
1,1-Dichloroethene	7.0	µg/L	<	7.0	µg/L
1,1-Dichloroethane	7.0	µg/L	<	7.0	µg/L
cis-1,2-Dichloroethene	7.0	µg/L	<	7.0	µg/L
trans-1,2-Dichloroethene	7.0	µg/L	<	7.0	µg/L
Chloroform	7.0	µg/L	<	7.0	µg/L
1,2-Dichloroethane	7.0	µg/L		149	µg/L
2-Butanone	70.0	µg/L	<	70.0	µg/L
1,1,1-Trichloroethane	7.0	µg/L	<	7.0	µg/L
Carbon tetrachloride	7.0	µg/L	<	7.0	µg/L

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REPORT NUMBER : D95-12204-3
ANALYSIS METHOD : EPA 8240 /1

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	70.0	µg/L	<	70.0	µg/L
Bromodichloromethane	7.0	µg/L	<	7.0	µg/L
1,2-Dichloropropane	7.0	µg/L	<	7.0	µg/L
cis-1,3-Dichloropropene	7.0	µg/L	<	7.0	µg/L
Trichloroethene	7.0	µg/L	<	7.0	µg/L
Chlorodibromomethane	7.0	µg/L	<	7.0	µg/L
1,1,2-Trichloroethane	7.0	µg/L	<	7.0	µg/L
Benzene	7.0	µg/L	<	7.0	µg/L
trans-1,3-Dichloropropene	7.0	µg/L	<	7.0	µg/L
Bromoform	7.0	µg/L	<	7.0	µg/L
2-Chloroethylvinyl ether	14.0	µg/L	<	14.0	µg/L
4-Methyl-2-pentanone	70.0	µg/L	<	70.0	µg/L
2-Hexanone	70.0	µg/L	<	70.0	µg/L
Tetrachloroethene	7.0	µg/L	<	7.0	µg/L
Toluene	7.0	µg/L	<	7.0	µg/L
1,1,2,2-Tetrachloroethane	7.0	µg/L	<	7.0	µg/L
Chlorobenzene	7.0	µg/L		62.6	µg/L
Ethylbenzene	7.0	µg/L	<	7.0	µg/L
Styrene	7.0	µg/L	<	7.0	µg/L
o-Xylene	7.0	µg/L	<	7.0	µg/L
m,p-Xylene	7.0	µg/L	<	7.0	µg/L

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REPORT NUMBER : D95-12204-3
ANALYSIS METHOD : EPA 8240 /1

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	729 %
Toluene-d8 (SS)	50.0 µg/L	122 %
Bromofluorobenzene (SS)	50.0 µg/L	69.3 %

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DATE RECEIVED : 16-DEC-1995

REPORT NUMBER : D95-12204-3
REPORT DATE : 29-DEC-1995

SAMPLE SUBMITTED BY : Geraghty & Miller
ADDRESS : 5100 E. Skelly Ste. 1000
: Tulsa, OK 74135
ATTENTION : Mike Dwyes

SAMPLE MATRIX : Liquid
ID MARKS : GW18
PROJECT : KS0181.001 American Cyamaimid
PURCHASE ORDER NO : KS0181.001
DATE SAMPLED : 15-DEC-1995
ANALYZED BY : SAP
ANALYZED ON : 22-DEC-1995
ANALYSIS METHOD : EPA 8240 /1
QC BATCH NO : ITS6-647

TENTATIVELY IDENTIFIED COMPOUNDS				
COMPOUND	RETENTION TIME	FRACTION	RESULT	
Propene	1.10	VOA	180	ug/L
Methylpropene	1.34	VOA	130	ug/L
Butene	1.49	VOA	20	ug/L
Unknown alkane	1.76	VOA	21	ug/L

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DATE RECEIVED : 16-DEC-1995

REPORT NUMBER : D95-12204-4
REPORT DATE : 29-DEC-1995

SAMPLE SUBMITTED BY : Geraghty & Miller
ADDRESS : 5100 E. Skelly Ste. 1000
: Tulsa, OK 74135
ATTENTION : Mike Dwyes

SAMPLE MATRIX : Liquid
ID MARKS : GW20
PROJECT : KS0181.001 American Cyamaimid
PURCHASE ORDER NO : KS0181.001
DATE SAMPLED : 15-DEC-1995
ANALYSIS METHOD : EPA 8240 /1
ANALYZED BY : SAP
ANALYZED ON : 22-DEC-1995
DILUTION FACTOR : 1
QC BATCH NO : ITS6-647

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Chloromethane	10.0 µg/L	< 10.0 µg/L
Bromomethane	10.0 µg/L	< 10.0 µg/L
Vinyl chloride	10.0 µg/L	< 10.0 µg/L
Chloroethane	10.0 µg/L	< 10.0 µg/L
Methylene chloride	5.0 µg/L	< 5.0 µg/L
Acetone	100 µg/L	< 100 µg/L
Carbon disulfide	5.0 µg/L	< 5.0 µg/L
1,1-Dichloroethene	5.0 µg/L	< 5.0 µg/L
1,1-Dichloroethane	5.0 µg/L	< 5.0 µg/L
cis-1,2-Dichloroethene	5.0 µg/L	< 5.0 µg/L
trans-1,2-Dichloroethene	5.0 µg/L	< 5.0 µg/L
Chloroform	5.0 µg/L	< 5.0 µg/L
1,2-Dichloroethane	5.0 µg/L	268 µg/L
2-Butanone	50.0 µg/L	< 50.0 µg/L
1,1,1-Trichloroethane	5.0 µg/L	< 5.0 µg/L
Carbon tetrachloride	5.0 µg/L	< 5.0 µg/L

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REPORT NUMBER : D95-12204-4
ANALYSIS METHOD : EPA 8240 /1

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/L	<	50.0	µg/L
Bromodichloromethane	5.0	µg/L	<	5.0	µg/L
1,2-Dichloropropane	5.0	µg/L	<	5.0	µg/L
cis-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Trichloroethene	5.0	µg/L	<	5.0	µg/L
Chlorodibromomethane	5.0	µg/L	<	5.0	µg/L
1,1,2-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Benzene	5.0	µg/L	<	5.0	µg/L
trans-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Bromoform	5.0	µg/L	<	5.0	µg/L
2-Chloroethylvinyl ether	10.0	µg/L	<	10.0	µg/L
4-Methyl-2-pentanone	50.0	µg/L	<	50.0	µg/L
2-Hexanone	50.0	µg/L	<	50.0	µg/L
Tetrachloroethene	5.0	µg/L	<	5.0	µg/L
Toluene	5.0	µg/L	<	5.0	µg/L
1,1,2,2-Tetrachloroethane	5.0	µg/L	<	5.0	µg/L
Chlorobenzene	5.0	µg/L		282	µg/L
Ethylbenzene	5.0	µg/L	<	5.0	µg/L
Styrene	5.0	µg/L	<	5.0	µg/L
o-Xylene	5.0	µg/L	<	5.0	µg/L
m,p-Xylene	5.0	µg/L	<	5.0	µg/L

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REPORT NUMBER : D95-12204-4
ANALYSIS METHOD : EPA 8240 /1

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	114 %
Toluene-d8 (SS)	50.0 µg/L	115 %
Bromofluorobenzene (SS)	50.0 µg/L	75.8 %

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DATE RECEIVED : 16-DEC-1995

REPORT NUMBER : D95-12204-4
REPORT DATE : 29-DEC-1995

SAMPLE SUBMITTED BY : Geraghty & Miller
ADDRESS : 5100 E. Skelly Ste. 1000
: Tulsa, OK 74135
ATTENTION : Mike Dwyes

SAMPLE MATRIX : Liquid
ID MARKS : GW20
PROJECT : KS0181.001 American Cyamaimid
PURCHASE ORDER NO : KS0181.001
DATE SAMPLED : 15-DEC-1995
ANALYZED BY : SAP
ANALYZED ON : 22-DEC-1995
ANALYSIS METHOD : EPA 8240 /1
QC BATCH NO : ITS6-647

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 ug/L

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DATE RECEIVED : 16-DEC-1995

REPORT NUMBER : D95-12204-5
REPORT DATE : 29-DEC-1995

SAMPLE SUBMITTED BY : Geraghty & Miller
ADDRESS : 5100 E. Skelly Ste. 1000
: Tulsa, OK 74135
ATTENTION : Mike Dwyes

SAMPLE MATRIX : Liquid
ID MARKS : Method Blank
PROJECT : KS0181.001 American Cyamaimid
PURCHASE ORDER NO : KS0181.001
DATE SAMPLED : 15-DEC-1995
ANALYSIS METHOD : EPA 8240 /3
ANALYZED BY : MGD
ANALYZED ON : 22-DEC-1995
DILUTION FACTOR : 1
QC BATCH NO : ITS7-910

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Chloromethane	10.0 µg/L	< 10.0 µg/L
Bromomethane	10.0 µg/L	< 10.0 µg/L
Vinyl chloride	10.0 µg/L	< 10.0 µg/L
Chloroethane	10.0 µg/L	< 10.0 µg/L
Methylene chloride	5.0 µg/L	< 5.0 µg/L
Acetone	100 µg/L	< 100 µg/L
Carbon disulfide	5.0 µg/L	< 5.0 µg/L
1,1-Dichloroethene	5.0 µg/L	< 5.0 µg/L
1,1-Dichloroethane	5.0 µg/L	< 5.0 µg/L
cis-1,2-Dichloroethene	5.0 µg/L	< 5.0 µg/L
trans-1,2-Dichloroethene	5.0 µg/L	< 5.0 µg/L
Chloroform	5.0 µg/L	< 5.0 µg/L
1,2-Dichloroethane	5.0 µg/L	< 5.0 µg/L
2-Butanone	50.0 µg/L	< 50.0 µg/L
1,1,1-Trichloroethane	5.0 µg/L	< 5.0 µg/L
Carbon tetrachloride	5.0 µg/L	< 5.0 µg/L

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REPORT NUMBER : D95-12204-5
ANALYSIS METHOD : EPA 8240 /3

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/L	<	50.0	µg/L
Bromodichloromethane	5.0	µg/L	<	5.0	µg/L
1,2-Dichloropropane	5.0	µg/L	<	5.0	µg/L
cis-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Trichloroethene	5.0	µg/L	<	5.0	µg/L
Chlorodibromomethane	5.0	µg/L	<	5.0	µg/L
1,1,2-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Benzene	5.0	µg/L	<	5.0	µg/L
trans-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Bromoform	5.0	µg/L	<	5.0	µg/L
2-Chloroethylvinyl ether	10.0	µg/L	<	10.0	µg/L
4-Methyl-2-pentanone	50.0	µg/L	<	50.0	µg/L
2-Hexanone	50.0	µg/L	<	50.0	µg/L
Tetrachloroethene	5.0	µg/L	<	5.0	µg/L
Toluene	5.0	µg/L	<	5.0	µg/L
1,1,2,2-Tetrachloroethane	5.0	µg/L	<	5.0	µg/L
Chlorobenzene	5.0	µg/L	<	5.0	µg/L
Ethylbenzene	5.0	µg/L	<	5.0	µg/L
Styrene	5.0	µg/L	<	5.0	µg/L
o-Xylene	5.0	µg/L	<	5.0	µg/L
m,p-Xylene	5.0	µg/L	<	5.0	µg/L

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REPORT NUMBER : D95-12204-5
ANALYSIS METHOD : EPA 8240 /3

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	108 %
Toluene-d8 (SS)	50.0 µg/L	111 %
Bromofluorobenzene (SS)	50.0 µg/L	105 %

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DATE RECEIVED : 16-DEC-1995

REPORT NUMBER : D95-12204-5
REPORT DATE : 29-DEC-1995

SAMPLE SUBMITTED BY : Geraghty & Miller
ADDRESS : 5100 E. Skelly Ste. 1000
: Tulsa, OK 74135
ATTENTION : Mike Dwyes

SAMPLE MATRIX : Liquid
ID MARKS : Method Blank
PROJECT : KS0181.001 American Cyamaimid
PURCHASE ORDER NO : KS0181.001
DATE SAMPLED : 15-DEC-1995
ANALYSIS METHOD : EPA 8240 /4
ANALYZED BY : SAP
ANALYZED ON : 22-DEC-1995
DILUTION FACTOR : 1
QC BATCH NO : ITS6-647

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Chloromethane	10.0	µg/L	<	10.0	µg/L
Bromomethane	10.0	µg/L	<	10.0	µg/L
Vinyl chloride	10.0	µg/L	<	10.0	µg/L
Chloroethane	10.0	µg/L	<	10.0	µg/L
Methylene chloride	5.0	µg/L	<	5.0	µg/L
Acetone	100	µg/L	<	100	µg/L
Carbon disulfide	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethene	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethane	5.0	µg/L	<	5.0	µg/L
cis-1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
trans-1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
Chloroform	5.0	µg/L	<	5.0	µg/L
1,2-Dichloroethane	5.0	µg/L	<	5.0	µg/L
2-Butanone	50.0	µg/L	<	50.0	µg/L
1,1,1-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Carbon tetrachloride	5.0	µg/L	<	5.0	µg/L

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REPORT NUMBER : D95-12204-5
ANALYSIS METHOD : EPA 8240 /4

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/L	<	50.0	µg/L
Bromodichloromethane	5.0	µg/L	<	5.0	µg/L
1,2-Dichloropropane	5.0	µg/L	<	5.0	µg/L
cis-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Trichloroethene	5.0	µg/L	<	5.0	µg/L
Chlorodibromomethane	5.0	µg/L	<	5.0	µg/L
1,1,2-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Benzene	5.0	µg/L	<	5.0	µg/L
trans-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Bromoform	5.0	µg/L	<	5.0	µg/L
2-Chloroethylvinyl ether	10.0	µg/L	<	10.0	µg/L
4-Methyl-2-pentanone	50.0	µg/L	<	50.0	µg/L
2-Hexanone	50.0	µg/L	<	50.0	µg/L
Tetrachloroethene	5.0	µg/L	<	5.0	µg/L
Toluene	5.0	µg/L	<	5.0	µg/L
1,1,2,2-Tetrachloroethane	5.0	µg/L	<	5.0	µg/L
Chlorobenzene	5.0	µg/L	<	5.0	µg/L
Ethylbenzene	5.0	µg/L	<	5.0	µg/L
Styrene	5.0	µg/L	<	5.0	µg/L
o-Xylene	5.0	µg/L	<	5.0	µg/L
m,p-Xylene	5.0	µg/L	<	5.0	µg/L

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REPORT NUMBER : D95-12204-5
ANALYSIS METHOD : EPA 8240 /4

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	94.9 %
Toluene-d8 (SS)	50.0 µg/L	103 %
Bromofluorobenzene (SS)	50.0 µg/L	98.5 %

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DATE RECEIVED : 16-DEC-1995

REPORT NUMBER : D95-12204-5
REPORT DATE : 29-DEC-1995

SAMPLE SUBMITTED BY : Geraghty & Miller
ADDRESS : 5100 E. Skelly Ste. 1000
: Tulsa, OK 74135
ATTENTION : Mike Dwyes

SAMPLE MATRIX : Liquid
ID MARKS : Method Blank
PROJECT : KS0181.001 American Cyamaimid
PURCHASE ORDER NO : KS0181.001
DATE SAMPLED : 15-DEC-1995
ANALYSIS METHOD : EPA 8240 /5
ANALYZED BY : KDS
ANALYZED ON : 29-DEC-1995
DILUTION FACTOR : 1
QC BATCH NO : ITS2-652

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Chloromethane	10.0 µg/L	< 10.0 µg/L
Bromomethane	10.0 µg/L	< 10.0 µg/L
Vinyl chloride	10.0 µg/L	< 10.0 µg/L
Chloroethane	10.0 µg/L	< 10.0 µg/L
Methylene chloride	5.0 µg/L	< 5.0 µg/L
Acetone	100 µg/L	< 100 µg/L
Carbon disulfide	5.0 µg/L	< 5.0 µg/L
1,1-Dichloroethene	5.0 µg/L	< 5.0 µg/L
1,1-Dichloroethane	5.0 µg/L	< 5.0 µg/L
cis-1,2-Dichloroethene	5.0 µg/L	< 5.0 µg/L
trans-1,2-Dichloroethene	5.0 µg/L	< 5.0 µg/L
Chloroform	5.0 µg/L	< 5.0 µg/L
1,2-Dichloroethane	5.0 µg/L	< 5.0 µg/L
2-Butanone	50.0 µg/L	< 50.0 µg/L
1,1,1-Trichloroethane	5.0 µg/L	< 5.0 µg/L
Carbon tetrachloride	5.0 µg/L	< 5.0 µg/L

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REPORT NUMBER : D95-12204-5
ANALYSIS METHOD : EPA 8240 /5

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/L	<	50.0	µg/L
Bromodichloromethane	5.0	µg/L	<	5.0	µg/L
1,2-Dichloropropane	5.0	µg/L	<	5.0	µg/L
cis-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Trichloroethene	5.0	µg/L	<	5.0	µg/L
Chlorodibromomethane	5.0	µg/L	<	5.0	µg/L
1,1,2-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Benzene	5.0	µg/L	<	5.0	µg/L
trans-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Bromoform	5.0	µg/L	<	5.0	µg/L
2-Chloroethylvinyl ether	10.0	µg/L	<	10.0	µg/L
4-Methyl-2-pentanone	50.0	µg/L	<	50.0	µg/L
2-Hexanone	50.0	µg/L	<	50.0	µg/L
Tetrachloroethene	5.0	µg/L	<	5.0	µg/L
Toluene	5.0	µg/L	<	5.0	µg/L
1,1,2,2-Tetrachloroethane	5.0	µg/L	<	5.0	µg/L
Chlorobenzene	5.0	µg/L	<	5.0	µg/L
Ethylbenzene	5.0	µg/L	<	5.0	µg/L
Styrene	5.0	µg/L	<	5.0	µg/L
o-Xylene	5.0	µg/L	<	5.0	µg/L
m,p-Xylene	5.0	µg/L	<	5.0	µg/L

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REPORT NUMBER : D95-12204-5
ANALYSIS METHOD : EPA 8240 /5

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	99.1 %
Toluene-d8 (SS)	50.0 µg/L	96.0 %
Bromofluorobenzene (SS)	50.0 µg/L	105 %

Inchcape Testing Services
Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

DATE RECEIVED : 16-DEC-1995

REPORT NUMBER : D95-12204-5
REPORT DATE : 29-DEC-1995

SAMPLE SUBMITTED BY : Geraghty & Miller
ADDRESS : 5100 E. Skelly Ste. 1000
: Tulsa, OK 74135
ATTENTION : Mike Dwyes

SAMPLE MATRIX : Liquid
ID MARKS : Method Blank
PROJECT : KS0181.001 American Cyamaimid
PURCHASE ORDER NO : KS0181.001
DATE SAMPLED : 15-DEC-1995
ANALYZED BY : MGD
ANALYZED ON : 22-DEC-1995
ANALYSIS METHOD : EPA 8240 /3
QC BATCH NO : ITS7-910

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 ug/L

Inchcape Testing Services
Environmental Laboratories

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Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

DATE RECEIVED : 16-DEC-1995

REPORT NUMBER : D95-12204-5
REPORT DATE : 29-DEC-1995

SAMPLE SUBMITTED BY : Geraghty & Miller
ADDRESS : 5100 E. Skelly Ste. 1000
: Tulsa, OK 74135
ATTENTION : Mike Dwyes

SAMPLE MATRIX : Liquid
ID MARKS : Method Blank
PROJECT : KS0181.001 American Cyamaimid
PURCHASE ORDER NO : KS0181.001
DATE SAMPLED : 15-DEC-1995
ANALYZED BY : SAP
ANALYZED ON : 22-DEC-1995
ANALYSIS METHOD : EPA 8240 /4
QC BATCH NO : ITS6-647

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 ug/L

Inchcape Testing Services
Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

DATE RECEIVED : 16-DEC-1995

REPORT NUMBER : D95-12204-5
REPORT DATE : 29-DEC-1995

SAMPLE SUBMITTED BY : Geraghty & Miller
ADDRESS : 5100 E. Skelly Ste. 1000
: Tulsa, OK 74135
ATTENTION : Mike Dwyes

SAMPLE MATRIX : Liquid
ID MARKS : Method Blank
PROJECT : KS0181.001 American Cyamaimid
PURCHASE ORDER NO : KS0181.001
DATE SAMPLED : 15-DEC-1995
ANALYZED BY : KDS
ANALYZED ON : 29-DEC-1995
ANALYSIS METHOD : EPA 8240 /5
QC BATCH NO : ITS2-652

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 ug/L

Inchcape Testing Services
Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

DATE RECEIVED : 16-DEC-1995

REPORT NUMBER : D95-12204-6
REPORT DATE : 29-DEC-1995

SAMPLE SUBMITTED BY : Geraghty & Miller
ADDRESS : 5100 E. Skelly Ste. 1000
: Tulsa, OK 74135
ATTENTION : Mike Dwyes

SAMPLE MATRIX : Liquid
ID MARKS : Trip Blank
PROJECT : KS0181.001 American Cyamaimid
PURCHASE ORDER NO : KS0181.001
DATE SAMPLED : 15-DEC-1995
ANALYSIS METHOD : EPA 8240 /1
ANALYZED BY : MGD
ANALYZED ON : 22-DEC-1995
DILUTION FACTOR : 1
QC BATCH NO : ITS7-910

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Chloromethane	10.0	µg/L	<	10.0	µg/L
Bromomethane	10.0	µg/L	<	10.0	µg/L
Vinyl chloride	10.0	µg/L	<	10.0	µg/L
Chloroethane	10.0	µg/L	<	10.0	µg/L
Methylene chloride	5.0	µg/L	<	5.0	µg/L
Acetone	100	µg/L	<	100	µg/L
Carbon disulfide	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethene	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethane	5.0	µg/L	<	5.0	µg/L
cis-1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
trans-1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
Chloroform	5.0	µg/L	<	5.0	µg/L
1,2-Dichloroethane	5.0	µg/L	<	5.0	µg/L
2-Butanone	50.0	µg/L	<	50.0	µg/L
1,1,1-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Carbon tetrachloride	5.0	µg/L	<	5.0	µg/L

Inchcape Testing Services
Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

REPORT NUMBER : D95-12204-6
ANALYSIS METHOD : EPA 8240 /1

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/L	<	50.0	µg/L
Bromodichloromethane	5.0	µg/L	<	5.0	µg/L
1,2-Dichloropropane	5.0	µg/L	<	5.0	µg/L
cis-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Trichloroethene	5.0	µg/L	<	5.0	µg/L
Chlorodibromomethane	5.0	µg/L	<	5.0	µg/L
1,1,2-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Benzene	5.0	µg/L	<	5.0	µg/L
trans-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Bromoform	5.0	µg/L	<	5.0	µg/L
2-Chloroethylvinyl ether	10.0	µg/L	<	10.0	µg/L
4-Methyl-2-pentanone	50.0	µg/L	<	50.0	µg/L
2-Hexanone	50.0	µg/L	<	50.0	µg/L
Tetrachloroethene	5.0	µg/L	<	5.0	µg/L
Toluene	5.0	µg/L	<	5.0	µg/L
1,1,2,2-Tetrachloroethane	5.0	µg/L	<	5.0	µg/L
Chlorobenzene	5.0	µg/L	<	5.0	µg/L
Ethylbenzene	5.0	µg/L	<	5.0	µg/L
Styrene	5.0	µg/L	<	5.0	µg/L
o-Xylene	5.0	µg/L	<	5.0	µg/L
m,p-Xylene	5.0	µg/L	<	5.0	µg/L

Inchcape Testing Services
Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

REPORT NUMBER : D95-12204-6
ANALYSIS METHOD : EPA 8240 /1

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	87.4 %
Toluene-d8 (SS)	50.0 µg/L	104 %
Bromofluorobenzene (SS)	50.0 µg/L	108 %

Inchcape Testing Services
Environmental Laboratories

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Fax. 214-238-5592

DATE RECEIVED : 16-DEC-1995

REPORT NUMBER : D95-12204-6
REPORT DATE : 29-DEC-1995

SAMPLE SUBMITTED BY : Geraghty & Miller
ADDRESS : 5100 E. Skelly Ste. 1000
: Tulsa, OK 74135
ATTENTION : Mike Dwyes

SAMPLE MATRIX : Liquid
ID MARKS : Trip Blank
PROJECT : KS0181.001 American Cyamaimid
PURCHASE ORDER NO : KS0181.001
DATE SAMPLED : 15-DEC-1995
ANALYZED BY : MGD
ANALYZED ON : 22-DEC-1995
ANALYSIS METHOD : EPA 8240 /1
QC BATCH NO : ITS7-910

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 ug/L

Inchcape Testing Services
Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

REPORT DATE : 29-DEC-1995 REPORT NUMBER : D95-12204

SAMPLE SUBMITTED BY : Geraghty & Miller
ATTENTION : Mike Dwyes
PROJECT : KS0181.001 American Cyamaimid

LABORATORY QUALITY CONTROL REPORT

ANALYTE	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chlorobenzene
BATCH NO.	ITS6-647	ITS6-647	ITS6-647	ITS6-647	ITS6-647
LCS LOT NO.	AB598-7-1	AB598-7-1	AB598-7-1	AB598-7-1	AB598-7-1
PREP METHOD	---	---	---	---	---
PREPARED BY	---	---	---	---	---
ANALYSIS METHOD	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
ANALYZED BY	SAP	SAP	SAP	SAP	SAP
UNITS	µg/L	µg/L	µg/L	µg/L	µg/L
METHOD BLANK	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
IKE LEVEL	50.0	50.0	50.0	50.0	50.0
RESULT	50.9	51.4	53.8	56.2	340
MS RECOVERY %	102	103	108	112	116
MSD RESULT	48.1	51.6	53.9	52.9	338
MSD RECOVERY %	96.2	103	108	106	112
MS/MSD RPD %	5.66	0.39	0.19	6.05	3.51
BS RESULT	51.5	51.1	49.8	52.8	52.3
BS RECOVERY %	103	102	99.6	106	105
BSD RESULT	51.5	54.6	54.5	51.4	50.6
BSD RECOVERY %	103	109	109	103	101
BS/BSD RPD %	0.00	6.62	9.01	2.69	3.30
DUPLICATE RPD %	NA	NA	NA	NA	NA
LCS LEVEL	50.0	50.0	50.0	50.0	50.0
LCS RESULT	SEE_BS	SEE_BS	SEE_BS	SEE_BS	SEE_BS
LCS RECOVERY %	SEE_BS	SEE_BS	SEE_BS	SEE_BS	SEE_BS
SPIKE SAMPLE ID	12204-4	12204-4	12204-4	12204-4	12204-4
DUP SAMPLE ID	---	---	---	---	---

BS LCS and LCS Duplicate reported as BS and BSD.
Not applicable

Inchcape Testing Services
Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

REPORT DATE : 29-DEC-1995 REPORT NUMBER : D95-12204

SAMPLE SUBMITTED BY : Geraghty & Miller
ATTENTION : Mike Dwyes
PROJECT : KS0181.001 American Cyamaimid

LABORATORY QUALITY CONTROL REPORT

ANALYTE	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chlorobenzene
BATCH NO.	ITS2-652	ITS2-652	ITS2-652	ITS2-652	ITS2-652
LCS LOT NO.	AB598-11-5	AB598-11-5	AB598-11-5	AB598-11-5	AB598-11-5
PREP METHOD	---	---	---	---	---
PREPARED BY	---	---	---	---	---
ANALYSIS METHOD	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
ANALYZED BY	KDS	KDS	KDS	KDS	KDS
UNITS	µg/L	µg/L	µg/L	µg/L	µg/L
METHOD BLANK	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
IKE LEVEL	50.0	50.0	50.0	50.0	50.0
RESULT	45.3	42.0	44.2	44.7	45.6
MS RECOVERY %	90.6	84.0	88.4	89.4	91.2
MSD RESULT	49.2	48.2	48.1	49.4	47.8
MSD RECOVERY %	98.4	96.4	96.2	98.8	95.6
MS/MSD RPD %	8.25	13.7	8.45	9.99	4.71
BS RESULT	52.5	59.0	49.8	53.8	54.3
BS RECOVERY %	105	118	99.6	108	109
BSD RESULT	45.8	45.2	46.6	46.8	47.6
BSD RECOVERY %	91.6	90.4	93.2	93.6	95.2
BS/BSD RPD %	13.6	26.5	6.64	13.9	13.2
DUPLICATE RPD %	NA	NA	NA	NA	NA
LCS LEVEL	50.0	50.0	50.0	50.0	50.0
LCS RESULT	SEE_BS	SEE_BS	SEE_BS	SEE_BS	SEE_BS
LCS RECOVERY %	SEE_BS	SEE_BS	SEE_BS	SEE_BS	SEE_BS
SPIKE SAMPLE ID	12398-1	12398-1	12398-1	12398-1	12398-1
DUP SAMPLE ID	---	---	---	---	---

_BS LCS and LCS Duplicate reported as BS and BSD.
Not applicable

Inchcape Testing Services
Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

REPORT DATE : 29-DEC-1995 REPORT NUMBER : D95-12204

SAMPLE SUBMITTED BY : Geraghty & Miller
ATTENTION : Mike Dwyes
PROJECT : KS0181.001 American Cyamaimid

LABORATORY QUALITY CONTROL REPORT

ANALYTE	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chlorobenzene
BATCH NO.	ITS7-910	ITS7-910	ITS7-910	ITS7-910	ITS7-910
LCS LOT NO.	AB598-12-1	AB598-12-1	AB598-12-1	AB598-12-1	AB598-12-1
PREP METHOD	---	---	---	---	---
PREPARED BY	---	---	---	---	---
ANALYSIS METHOD	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
ANALYZED BY	MGD	MGD	MGD	MGD	MGD
UNITS	µg/L	µg/L	µg/L	µg/L	µg/L
METHOD BLANK	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
PIKE LEVEL	50.0	50.0	50.0	50.0	50.0
S RESULT	47.8	51.1	47.1	49.0	47.7
MS RECOVERY %	95.6	102	94.2	98.0	95.4
MSD RESULT	46.8	51.0	48.0	46.5	47.5
MSD RECOVERY %	93.6	102	96.0	93.0	95.0
MS/MSD RPD %	2.11	0.20	1.89	5.24	0.42
BS RESULT	NA	NA	NA	NA	NA
BS RECOVERY %	NA	NA	NA	NA	NA
BSD RESULT	NA	NA	NA	NA	NA
BSD RECOVERY %	NA	NA	NA	NA	NA
BS/BSD RPD %	NA	NA	NA	NA	NA
DUPLICATE RPD %	NA	NA	NA	NA	NA
LCS LEVEL	50.0	50.0	50.0	50.0	50.0
LCS RESULT	49.2	50.8	51.2	48.7	48.3
LCS RECOVERY %	98.4	102	102	97.4	96.6
SPIKE SAMPLE ID	12204-6	12204-6	12204-6	12204-6	12204-6
DUP SAMPLE ID	---	---	---	---	---

Not applicable

Report to:		Invoice to	
Comp	Geraghty & Miller	Company:	Geraghty & M
Address:	5100 E Skelly Dr Suite 1000 Tulsa OK 74136	Address:	5100 E Skelly Dr Tulsa OK 74136
Contact:	Mike Dwyer	Contact:	
Phone:	918 664 9900	Phone:	
Fax:	918 664 9925	PO/SO #:	KS0181.001

Lab u Due

Temp. of coolers when received (C°): 1 4 | 2 | 3 | 4 | 5

Custody Seal N / Y

Intact N / Y

Screened For Radioactivity ☒

Sampler's Name: Mike Dwyer

Sampler's Signature: Mike Dwyer

Proj. No.: KS0181.001

Project Name: American Cyanamid

Matrix[1]	Date 95'	Time	Comp	Grab	Identifying Marks of Sample(s)	No./Type of Containers[2] VOA	A/G 1 Lt.	250 ml	P/O	8240	Lab Sample ID (Lab Use Only)
W	12/15	1130			GW16	3				X	12204 -1
W	12/15	1245			GW17	3				X	-2
W	12/15	1500			GW18	3				X	-3
W	12/15	1550			GW20	3				X	-4
					Method BLANK						-5MB
					TRIP BLANK						-6

SCREENED 1 MOREM

ORIGINAL

Turn around time ☐ Priority 1 or Standard ☐ Priority 2 or 50% ☐ Priority 3 or 100% ☐ Priority 4 ERS *

* BTEX (602/8020), TPH (418.1 or 8015), VOLATILES (624/8240), IGNITABILITY, TOTAL LEAD (6010)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Mike Dwyer	12/15	1800	David Meyer	12/16/9	1015
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Remarks: NO HCl Preservative. chill.

Client's delivery of samples constitutes acceptance of Inchcape/ITS-Dallas terms and conditions contained in the Price Schedule.

[1] Matrix: WW - Wastewater; W - Water; S - Soil; SD - Solid; L - Liquid; A - Air Bag; C - Charcoal tube; SL - Sludge; O - Oil

[2] Container: VOA - 40 ml vial; A/G - Amber / Or Glass 1 Liter; 250 ml - Glass wide mouth; P/O - Plastic or other _____

Inchcape cannot accept verbal changes. Please Fax written changes to 214-238-5592

OFFICE USE ONLY

Hydro-LOGIC INC.

1927 N. 1275 Road Eudora, Kansas 66025-8127

Office: (913) 542-2518

Fax: (913) 542-3971

RECEIVED
JAN 29 1996
GERAGHTY & MILLER, INC.
KANSAS

January 24, 1996

Geraghty & Miller, Inc.
Attn: Ms. Tina Lloyd
11020 King Street
Overland Park, Kansas 66210

95-14-109-2

RE: Groundwater Survey Phase II Analytical Results for the American Cyanamid Facility, Route JJ, Hannibal, Missouri.

Dear Tina,

Hydro-LOGIC, Inc. (HLI) is pleased to submit the analytical results for the above referenced site. A total of 27 testholes and two (2) verticle profiles were advanced during the investigation. A total of 42 samples were analyzed for aromatic hydrocarbons and purgeable chlorinated hydrocarbons (halocarbons) by USEPA method 8021. Tables expressing the analytical results are summarized on the enclosed laboratory data sheets.

HLI appreciates this opportunity to provide our environmental services. Should you have any questions or require additional information, please call myself or Walter Cranor at (913) 542-2518.

Sincerely,
Hydro-LOGIC, Inc.

Michael T Ocsody
Geologist

Attachments

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A283.chr) **GW-24**
Date Sampled: 01/15/96
Date Analyzed: 01/15/96

Sample: 1 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 10.0	10.0 µg/l
Toluene	< 10.0	10.0 µg/l
Ethylbenzene	< 10.0	10.0 µg/l
Xylenes (o, m, p)	< 10.0	10.0 µg/l
Dichlorodifluoromethane	< 10.0	10.0 µg/l
Chloromethane	< 10.0	10.0 µg/l
Vinyl chloride	< 10.0	10.0 µg/l
Bromomethane	< 10.0	10.0 µg/l
Chloroethane	< 10.0	10.0 µg/l
Trichlorofluoromethane	< 10.0	10.0 µg/l
1,1-Dichloroethene	< 4.0	4.0 µg/l
Methylene chloride	< 4.0	4.0 µg/l
trans-1,2-Dichloroethene	< 4.0	4.0 µg/l
1,1-Dichloroethane	< 4.0	4.0 µg/l
Chloroform	< 4.0	4.0 µg/l
1,1,1-Trichloroethane	< 4.0	4.0 µg/l
Carbon tetrachloride	< 4.0	4.0 µg/l
1,2-Dichloroethane	14.23	4.0 µg/l
Trichloroethene (TCE)	< 4.0	4.0 µg/l
1,2-Dichloropropane	< 4.0	4.0 µg/l
Bromodichloromethane	< 4.0	4.0 µg/l
cis-1,3-Dichloropropene	< 4.0	4.0 µg/l
trans-1,3-Dichloropropene	< 4.0	4.0 µg/l
1,1,2-Trichloroethane	< 4.0	4.0 µg/l
Tetrachloroethene (PCE)	< 4.0	4.0 µg/l
Dibromochloromethane	< 4.0	4.0 µg/l
Chlorobenzene	< 4.0	4.0 µg/l
Bromoform	< 4.0	4.0 µg/l
1,1,2,2-Tetrachloroethane	< 4.0	4.0 µg/l
1,3-Dichlorobenzene	< 4.0	4.0 µg/l
1,4-Dichlorobenzene	< 4.0	4.0 µg/l
1,2-Dichlorobenzene	< 4.0	4.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A284.chr) **GW-24-R**
Date Sampled: 01/15/96
Date Analyzed: 01/15/96

Sample: 2 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	18.20	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A285.chr) **GW-25**
Date Sampled: 01/15/96
Date Analyzed: 01/15/96

Sample: 3 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	< 2.0	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

Hydro-LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A286.chr) **GW-26**
Date Sampled: 01/15/96
Date Analyzed: 01/15/96

Sample: 4 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	< 2.0	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A287.chr) **GW-27**
Date Sampled: 01/15/96
Date Analyzed: 01/15/96

Sample: 5 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	51.04	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

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Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A288.chr) **GW-28**
Date Sampled: 01/15/96
Date Analyzed: 01/15/96

Sample: 6 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	2084	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter L Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A294.chr) **BLANK**
Date Sampled: 01/16/96
Date Analyzed: 01/16/96

Sample: 7 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	< 2.0	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

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Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A295.chr) **GW-29**
Date Sampled: 01/16/96
Date Analyzed: 01/16/96

Sample: 8 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 25.0	25.0 µg/l
Toluene	< 25.0	25.0 µg/l
Ethylbenzene	< 25.0	25.0 µg/l
Xylenes (o, m, p)	< 25.0	25.0 µg/l
Dichlorodifluoromethane	< 25.0	25.0 µg/l
Chloromethane	< 25.0	25.0 µg/l
Vinyl chloride	< 25.0	25.0 µg/l
Bromomethane	< 25.0	25.0 µg/l
Chloroethane	< 25.0	25.0 µg/l
Trichlorofluoromethane	< 25.0	25.0 µg/l
1,1-Dichloroethene	< 10.0	10.0 µg/l
Methylene chloride	< 10.0	10.0 µg/l
trans-1,2-Dichloroethene	< 10.0	10.0 µg/l
1,1-Dichloroethane	< 10.0	10.0 µg/l
Chloroform	< 10.0	10.0 µg/l
1,1,1-Trichloroethane	< 10.0	10.0 µg/l
Carbon tetrachloride	< 10.0	10.0 µg/l
1,2-Dichloroethane	71.72	10.0 µg/l
Trichloroethene (TCE)	< 10.0	10.0 µg/l
1,2-Dichloropropane	< 10.0	10.0 µg/l
Bromodichloromethane	< 10.0	10.0 µg/l
cis-1,3-Dichloropropene	< 10.0	10.0 µg/l
trans-1,3-Dichloropropene	< 10.0	10.0 µg/l
1,1,2-Trichloroethane	< 10.0	10.0 µg/l
Tetrachloroethene (PCE)	< 10.0	10.0 µg/l
Dibromochloromethane	< 10.0	10.0 µg/l
Chlorobenzene	< 10.0	10.0 µg/l
Bromoform	< 10.0	10.0 µg/l
1,1,2,2-Tetrachloroethane	< 10.0	10.0 µg/l
1,3-Dichlorobenzene	< 10.0	10.0 µg/l
1,4-Dichlorobenzene	< 10.0	10.0 µg/l
1,2-Dichlorobenzene	< 10.0	10.0 µg/l

Signed Walter Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A296.chr) **GW-30**
Date Sampled: 01/16/96
Date Analyzed: 01/16/96

Sample: 9 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 25.0	25.0 µg/l
Toluene	< 25.0	25.0 µg/l
Ethylbenzene	< 25.0	25.0 µg/l
Xylenes (o, m, p)	< 25.0	25.0 µg/l
Dichlorodifluoromethane	< 25.0	25.0 µg/l
Chloromethane	< 25.0	25.0 µg/l
Vinyl chloride	< 25.0	25.0 µg/l
Bromomethane	< 25.0	25.0 µg/l
Chloroethane	< 25.0	25.0 µg/l
Trichlorofluoromethane	< 25.0	25.0 µg/l
1,1-Dichloroethene	< 10.0	10.0 µg/l
Methylene chloride	< 10.0	10.0 µg/l
trans-1,2-Dichloroethene	< 10.0	10.0 µg/l
1,1-Dichloroethane	< 10.0	10.0 µg/l
Chloroform	< 10.0	10.0 µg/l
1,1,1-Trichloroethane	< 10.0	10.0 µg/l
Carbon tetrachloride	< 10.0	10.0 µg/l
1,2-Dichloroethane	702	10.0 µg/l
Trichloroethene (TCE)	< 10.0	10.0 µg/l
1,2-Dichloropropane	< 10.0	10.0 µg/l
Bromodichloromethane	< 10.0	10.0 µg/l
cis-1,3-Dichloropropene	< 10.0	10.0 µg/l
trans-1,3-Dichloropropene	< 10.0	10.0 µg/l
1,1,2-Trichloroethane	< 10.0	10.0 µg/l
Tetrachloroethene (PCE)	< 10.0	10.0 µg/l
Dibromochloromethane	< 10.0	10.0 µg/l
Chlorobenzene	< 10.0	10.0 µg/l
Bromoform	< 10.0	10.0 µg/l
1,1,2,2-Tetrachloroethane	< 10.0	10.0 µg/l
1,3-Dichlorobenzene	< 10.0	10.0 µg/l
1,4-Dichlorobenzene	< 10.0	10.0 µg/l
1,2-Dichlorobenzene	< 10.0	10.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A297.chr) **GW-31**
Date Sampled: 01/16/96
Date Analyzed: 01/16/96

Sample: 10 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 10.0	10.0 µg/l
Toluene	< 10.0	10.0 µg/l
Ethylbenzene	< 10.0	10.0 µg/l
Xylenes (o, m, p)	< 10.0	10.0 µg/l
Dichlorodifluoromethane	< 10.0	10.0 µg/l
Chloromethane	< 10.0	10.0 µg/l
Vinyl chloride	< 10.0	10.0 µg/l
Bromomethane	< 10.0	10.0 µg/l
Chloroethane	< 10.0	10.0 µg/l
Trichlorofluoromethane	< 10.0	10.0 µg/l
1,1-Dichloroethene	< 4.0	4.0 µg/l
Methylene chloride	< 4.0	4.0 µg/l
trans-1,2-Dichloroethene	< 4.0	4.0 µg/l
1,1-Dichloroethane	< 4.0	4.0 µg/l
Chloroform	< 4.0	4.0 µg/l
1,1,1-Trichloroethane	< 4.0	4.0 µg/l
Carbon tetrachloride	< 4.0	4.0 µg/l
1,2-Dichloroethane	67.06	4.0 µg/l
Trichloroethene (TCE)	< 4.0	4.0 µg/l
1,2-Dichloropropane	< 4.0	4.0 µg/l
Bromodichloromethane	< 4.0	4.0 µg/l
cis-1,3-Dichloropropene	< 4.0	4.0 µg/l
trans-1,3-Dichloropropene	< 4.0	4.0 µg/l
1,1,2-Trichloroethane	< 4.0	4.0 µg/l
Tetrachloroethene (PCE)	< 4.0	4.0 µg/l
Dibromochloromethane	< 4.0	4.0 µg/l
Chlorobenzene	< 4.0	4.0 µg/l
Bromoform	< 4.0	4.0 µg/l
1,1,2,2-Tetrachloroethane	< 4.0	4.0 µg/l
1,3-Dichlorobenzene	< 4.0	4.0 µg/l
1,4-Dichlorobenzene	< 4.0	4.0 µg/l
1,2-Dichlorobenzene	< 4.0	4.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A299.chr) **BLANK**
Date Sampled: 01/16/96
Date Analyzed: 01/16/96

Sample: 11 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	< 2.0	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A300.chr) **GW-32**
Date Sampled: 01/16/96
Date Analyzed: 01/16/96

Sample: 12 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 10.0	10.0 µg/l
Toluene	< 10.0	10.0 µg/l
Ethylbenzene	< 10.0	10.0 µg/l
Xylenes (o, m, p)	< 10.0	10.0 µg/l
Dichlorodifluoromethane	< 10.0	10.0 µg/l
Chloromethane	< 10.0	10.0 µg/l
Vinyl chloride	< 10.0	10.0 µg/l
Bromomethane	< 10.0	10.0 µg/l
Chloroethane	< 10.0	10.0 µg/l
Trichlorofluoromethane	< 10.0	10.0 µg/l
1,1-Dichloroethene	< 4.0	4.0 µg/l
Methylene chloride	< 4.0	4.0 µg/l
trans-1,2-Dichloroethene	< 4.0	4.0 µg/l
1,1-Dichloroethane	< 4.0	4.0 µg/l
Chloroform	< 4.0	4.0 µg/l
1,1,1-Trichloroethane	< 4.0	4.0 µg/l
Carbon tetrachloride	< 4.0	4.0 µg/l
1,2-Dichloroethane	10.56	4.0 µg/l
Trichloroethene (TCE)	< 4.0	4.0 µg/l
1,2-Dichloropropane	< 4.0	4.0 µg/l
Bromodichloromethane	< 4.0	4.0 µg/l
cis-1,3-Dichloropropene	< 4.0	4.0 µg/l
trans-1,3-Dichloropropene	< 4.0	4.0 µg/l
1,1,2-Trichloroethane	< 4.0	4.0 µg/l
Tetrachloroethene (PCE)	< 4.0	4.0 µg/l
Dibromochloromethane	< 4.0	4.0 µg/l
Chlorobenzene	< 4.0	4.0 µg/l
Bromoform	< 4.0	4.0 µg/l
1,1,2,2-Tetrachloroethane	< 4.0	4.0 µg/l
1,3-Dichlorobenzene	< 4.0	4.0 µg/l
1,4-Dichlorobenzene	< 4.0	4.0 µg/l
1,2-Dichlorobenzene	< 4.0	4.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A302.chr) **GW-33**
Date Sampled: 01/16/96
Date Analyzed: 01/16/96

Sample: 13 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	56.75	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	1327	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	209	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter Cranor
Analyst - Walter L. Cranor

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A304.chr) **GW-34**
Date Sampled: 01/16/96
Date Analyzed: 01/16/96

Sample: 14 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	500	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	54.83	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter Cranor
Analyst - Walter L. Cranor

Hydro-LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A306.chr) **GW-35**
Date Sampled: 01/16/96
Date Analyzed: 01/16/96

Sample: 15 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	154	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene6	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	149	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter Cranor
Analyst - Walter L. Cranor

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A307.chr) **BLANK**
Date Sampled: 01/16/96
Date Analyzed: 01/16/96

Sample: 16 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	< 2.0	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A308.chr) **GW-36**
Date Sampled: 01/16/96
Date Analyzed: 01/16/96

Sample: 17 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	379	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	136	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A309.chr) **BLANK**
Date Sampled: 01/16/96
Date Analyzed: 01/16/96

Sample: 18 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	2.22	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A312.chr) **GW-37**
Date Sampled: 01/16/96
Date Analyzed: 01/16/96

Sample: 19 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	710	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A316.chr) **GW-38**
Date Sampled: 01/17/96
Date Analyzed: 01/17/96

Sample: 20 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 10.0	10.0 µg/l
Toluene	< 10.0	10.0 µg/l
Ethylbenzene	< 10.0	10.0 µg/l
Xylenes (o, m, p)	< 10.0	10.0 µg/l
Dichlorodifluoromethane	< 10.0	10.0 µg/l
Chloromethane	< 10.0	10.0 µg/l
Vinyl chloride	< 10.0	10.0 µg/l
Bromomethane	< 10.0	10.0 µg/l
Chloroethane	< 10.0	10.0 µg/l
Trichlorofluoromethane	< 10.0	10.0 µg/l
1,1-Dichloroethene	< 4.0	4.0 µg/l
Methylene chloride	< 4.0	4.0 µg/l
trans-1,2-Dichloroethene	< 4.0	4.0 µg/l
1,1-Dichloroethane	< 4.0	4.0 µg/l
Chloroform	< 4.0	4.0 µg/l
1,1,1-Trichloroethane	< 4.0	4.0 µg/l
Carbon tetrachloride	< 4.0	4.0 µg/l
1,2-Dichloroethane	16.25	4.0 µg/l
Trichloroethene (TCE)	< 4.0	4.0 µg/l
1,2-Dichloropropane	< 4.0	4.0 µg/l
Bromodichloromethane	< 4.0	4.0 µg/l
cis-1,3-Dichloropropene	< 4.0	4.0 µg/l
trans-1,3-Dichloropropene	< 4.0	4.0 µg/l
1,1,2-Trichloroethane	< 4.0	4.0 µg/l
Tetrachloroethene (PCE)	< 4.0	4.0 µg/l
Dibromochloromethane	< 4.0	4.0 µg/l
Chlorobenzene	< 4.0	4.0 µg/l
Bromoform	< 4.0	4.0 µg/l
1,1,2,2-Tetrachloroethane	< 4.0	4.0 µg/l
1,3-Dichlorobenzene	< 4.0	4.0 µg/l
1,4-Dichlorobenzene	< 4.0	4.0 µg/l
1,2-Dichlorobenzene	< 4.0	4.0 µg/l

Signed Walter Cranor
Analyst - Walter L. Cranor

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A317.chr) **GW-39**
Date Sampled: 01/17/96
Date Analyzed: 01/17/96

Sample: 21 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 10.0	10.0 µg/l
Toluene	< 10.0	10.0 µg/l
Ethylbenzene	< 10.0	10.0 µg/l
Xylenes (o, m, p)	< 10.0	10.0 µg/l
Dichlorodifluoromethane	< 10.0	10.0 µg/l
Chloromethane	< 10.0	10.0 µg/l
Vinyl chloride	< 10.0	10.0 µg/l
Bromomethane	< 10.0	10.0 µg/l
Chloroethane	< 10.0	10.0 µg/l
Trichlorofluoromethane	< 10.0	10.0 µg/l
1,1-Dichloroethene	< 4.0	4.0 µg/l
Methylene chloride	< 4.0	4.0 µg/l
trans-1,2-Dichloroethene	< 4.0	4.0 µg/l
1,1-Dichloroethane	< 4.0	4.0 µg/l
Chloroform	< 4.0	4.0 µg/l
1,1,1-Trichloroethane	< 4.0	4.0 µg/l
Carbon tetrachloride	< 4.0	4.0 µg/l
1,2-Dichloroethane	38.83	4.0 µg/l
Trichloroethene (TCE)	< 4.0	4.0 µg/l
1,2-Dichloropropane	< 4.0	4.0 µg/l
Bromodichloromethane	< 4.0	4.0 µg/l
cis-1,3-Dichloropropene	< 4.0	4.0 µg/l
trans-1,3-Dichloropropene	< 4.0	4.0 µg/l
1,1,2-Trichloroethane	< 4.0	4.0 µg/l
Tetrachloroethene (PCE)	< 4.0	4.0 µg/l
Dibromochloromethane	< 4.0	4.0 µg/l
Chlorobenzene	< 4.0	4.0 µg/l
Bromoform	< 4.0	4.0 µg/l
1,1,2,2-Tetrachloroethane	< 4.0	4.0 µg/l
1,3-Dichlorobenzene	< 4.0	4.0 µg/l
1,4-Dichlorobenzene	< 4.0	4.0 µg/l
1,2-Dichlorobenzene	< 4.0	4.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A318.chr) **GW-41**
Date Sampled: 01/17/96
Date Analyzed: 01/17/96

Sample: 22 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 10.0	10.0 µg/l
Toluene	< 10.0	10.0 µg/l
Ethylbenzene	< 10.0	10.0 µg/l
Xylenes (o, m, p)	< 10.0	10.0 µg/l
Dichlorodifluoromethane	< 10.0	10.0 µg/l
Chloromethane	< 10.0	10.0 µg/l
Vinyl chloride	< 10.0	10.0 µg/l
Bromomethane	< 10.0	10.0 µg/l
Chloroethane	< 10.0	10.0 µg/l
Trichlorofluoromethane	< 10.0	10.0 µg/l
1,1-Dichloroethene	< 4.0	4.0 µg/l
Methylene chloride	< 4.0	4.0 µg/l
trans-1,2-Dichloroethene	< 4.0	4.0 µg/l
1,1-Dichloroethane	< 4.0	4.0 µg/l
Chloroform	< 4.0	4.0 µg/l
1,1,1-Trichloroethane	< 4.0	4.0 µg/l
Carbon tetrachloride	< 4.0	4.0 µg/l
1,2-Dichloroethane	1,287	4.0 µg/l
Trichloroethene (TCE)	< 4.0	4.0 µg/l
1,2-Dichloropropane	< 4.0	4.0 µg/l
Bromodichloromethane	< 4.0	4.0 µg/l
cis-1,3-Dichloropropene	< 4.0	4.0 µg/l
trans-1,3-Dichloropropene	< 4.0	4.0 µg/l
1,1,2-Trichloroethane	< 4.0	4.0 µg/l
Tetrachloroethene (PCE)	< 4.0	4.0 µg/l
Dibromochloromethane	< 4.0	4.0 µg/l
Chlorobenzene	211	4.0 µg/l
Bromoform	< 4.0	4.0 µg/l
1,1,2,2-Tetrachloroethane	< 4.0	4.0 µg/l
1,3-Dichlorobenzene	< 4.0	4.0 µg/l
1,4-Dichlorobenzene	< 4.0	4.0 µg/l
1,2-Dichlorobenzene	< 4.0	4.0 µg/l

Signed Walter Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A319.chr) **BLANK**
Date Sampled: 01/17/96
Date Analyzed: 01/17/96

Sample: 23 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	6.86	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A320.chr) **GW-42**
Date Sampled: 01/17/96
Date Analyzed: 01/17/96

Sample: 24 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 10.0	10.0 µg/l
Toluene	< 10.0	10.0 µg/l
Ethylbenzene	< 10.0	10.0 µg/l
Xylenes (o, m, p)	< 10.0	10.0 µg/l
Dichlorodifluoromethane	< 10.0	10.0 µg/l
Chloromethane	< 10.0	10.0 µg/l
Vinyl chloride	< 10.0	10.0 µg/l
Bromomethane	< 10.0	10.0 µg/l
Chloroethane	< 10.0	10.0 µg/l
Trichlorofluoromethane	< 10.0	10.0 µg/l
1,1-Dichloroethene	< 4.0	4.0 µg/l
Methylene chloride	< 4.0	4.0 µg/l
trans-1,2-Dichloroethene	< 4.0	4.0 µg/l
1,1-Dichloroethane	< 4.0	4.0 µg/l
Chloroform	< 4.0	4.0 µg/l
1,1,1-Trichloroethane	< 4.0	4.0 µg/l
Carbon tetrachloride	< 4.0	4.0 µg/l
1,2-Dichloroethane	509	4.0 µg/l
Trichloroethene (TCE)	< 4.0	4.0 µg/l
1,2-Dichloropropane	< 4.0	4.0 µg/l
Bromodichloromethane	< 4.0	4.0 µg/l
cis-1,3-Dichloropropene	< 4.0	4.0 µg/l
trans-1,3-Dichloropropene	< 4.0	4.0 µg/l
1,1,2-Trichloroethane	< 4.0	4.0 µg/l
Tetrachloroethene (PCE)	< 4.0	4.0 µg/l
Dibromochloromethane	< 4.0	4.0 µg/l
Chlorobenzene	34.46	4.0 µg/l
Bromoform	< 4.0	4.0 µg/l
1,1,2,2-Tetrachloroethane	< 4.0	4.0 µg/l
1,3-Dichlorobenzene	< 4.0	4.0 µg/l
1,4-Dichlorobenzene	< 4.0	4.0 µg/l
1,2-Dichlorobenzene	< 4.0	4.0 µg/l

Signed Walter Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A321.chr) **GW-44**
Date Sampled: 01/17/96
Date Analyzed: 01/17/96

Sample: 25 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 10.0	10.0 µg/l
Toluene	< 10.0	10.0 µg/l
Ethylbenzene	< 10.0	10.0 µg/l
Xylenes (o, m, p)	< 10.0	10.0 µg/l
Dichlorodifluoromethane	< 10.0	10.0 µg/l
Chloromethane	< 10.0	10.0 µg/l
Vinyl chloride	< 10.0	10.0 µg/l
Bromomethane	< 10.0	10.0 µg/l
Chloroethane	< 10.0	10.0 µg/l
Trichlorofluoromethane	< 10.0	10.0 µg/l
1,1-Dichloroethene	< 4.0	4.0 µg/l
Methylene chloride	< 4.0	4.0 µg/l
trans-1,2-Dichloroethene	< 4.0	4.0 µg/l
1,1-Dichloroethane	< 4.0	4.0 µg/l
Chloroform	< 4.0	4.0 µg/l
1,1,1-Trichloroethane	< 4.0	4.0 µg/l
Carbon tetrachloride	< 4.0	4.0 µg/l
1,2-Dichloroethane	11.65	4.0 µg/l
Trichloroethene (TCE)	< 4.0	4.0 µg/l
1,2-Dichloropropane	< 4.0	4.0 µg/l
Bromodichloromethane	< 4.0	4.0 µg/l
cis-1,3-Dichloropropene	< 4.0	4.0 µg/l
trans-1,3-Dichloropropene	< 4.0	4.0 µg/l
1,1,2-Trichloroethane	< 4.0	4.0 µg/l
Tetrachloroethene (PCE)	< 4.0	4.0 µg/l
Dibromochloromethane	< 4.0	4.0 µg/l
Chlorobenzene	< 4.0	4.0 µg/l
Bromoform	< 4.0	4.0 µg/l
1,1,2,2-Tetrachloroethane	< 4.0	4.0 µg/l
1,3-Dichlorobenzene	< 4.0	4.0 µg/l
1,4-Dichlorobenzene	< 4.0	4.0 µg/l
1,2-Dichlorobenzene	< 4.0	4.0 µg/l

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Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A322.chr) **GW-45-84'**
Date Sampled: 01/17/96
Date Analyzed: 01/17/96

Sample: 26 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 10.0	10.0 µg/l
Toluene	< 10.0	10.0 µg/l
Ethylbenzene	< 10.0	10.0 µg/l
Xylenes (o, m, p)	< 10.0	10.0 µg/l
Dichlorodifluoromethane	< 10.0	10.0 µg/l
Chloromethane	< 10.0	10.0 µg/l
Vinyl chloride	< 10.0	10.0 µg/l
Bromomethane	< 10.0	10.0 µg/l
Chloroethane	< 10.0	10.0 µg/l
Trichlorofluoromethane	< 10.0	10.0 µg/l
1,1-Dichloroethene	< 4.0	4.0 µg/l
Methylene chloride	< 4.0	4.0 µg/l
trans-1,2-Dichloroethene	< 4.0	4.0 µg/l
1,1-Dichloroethane	< 4.0	4.0 µg/l
Chloroform	< 4.0	4.0 µg/l
1,1,1-Trichloroethane	< 4.0	4.0 µg/l
Carbon tetrachloride	< 4.0	4.0 µg/l
1,2-Dichloroethane	10.01	4.0 µg/l
Trichloroethene (TCE)	< 4.0	4.0 µg/l
1,2-Dichloropropane	< 4.0	4.0 µg/l
Bromodichloromethane	< 4.0	4.0 µg/l
cis-1,3-Dichloropropene	< 4.0	4.0 µg/l
trans-1,3-Dichloropropene	< 4.0	4.0 µg/l
1,1,2-Trichloroethane	< 4.0	4.0 µg/l
Tetrachloroethene (PCE)	< 4.0	4.0 µg/l
Dibromochloromethane	< 4.0	4.0 µg/l
Chlorobenzene	< 4.0	4.0 µg/l
Bromoform	< 4.0	4.0 µg/l
1,1,2,2-Tetrachloroethane	< 4.0	4.0 µg/l
1,3-Dichlorobenzene	< 4.0	4.0 µg/l
1,4-Dichlorobenzene	< 4.0	4.0 µg/l
1,2-Dichlorobenzene	< 4.0	4.0 µg/l

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A323.chr) **GW-45-32'**
Date Sampled: 01/17/96
Date Analyzed: 01/17/96

Sample: 27 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 10.0	10.0 µg/l
Toluene	< 10.0	10.0 µg/l
Ethylbenzene	< 10.0	10.0 µg/l
Xylenes (o, m, p)	< 10.0	10.0 µg/l
Dichlorodifluoromethane	< 10.0	10.0 µg/l
Chloromethane	< 10.0	10.0 µg/l
Vinyl chloride	< 10.0	10.0 µg/l
Bromomethane	< 10.0	10.0 µg/l
Chloroethane	< 10.0	10.0 µg/l
Trichlorofluoromethane	< 10.0	10.0 µg/l
1,1-Dichloroethene	< 4 .0	4.0 µg/l
Methylene chloride	< 4.0	4.0 µg/l
trans-1,2-Dichloroethene	< 4.0	4.0 µg/l
1,1-Dichloroethane	< 4.0	4.0 µg/l
Chloroform	< 4.0	4.0 µg/l
1,1,1-Trichloroethane	< 4.0	4.0 µg/l
Carbon tetrachloride	< 4.0	4.0 µg/l
1,2-Dichloroethane	53.15	4.0 µg/l
Trichloroethene (TCE)	< 4.0	4.0 µg/l
1,2-Dichloropropane	< 4.0	4.0 µg/l
Bromodichloromethane	< 4.0	4.0 µg/l
cis-1,3-Dichloropropene	< 4.0	4.0 µg/l
trans-1,3-Dichloropropene	< 4.0	4.0 µg/l
1,1,2-Trichloroethane	< 4.0	4.0 µg/l
Tetrachloroethene (PCE)	< 4.0	4.0 µg/l
Dibromochloromethane	< 4.0	4.0 µg/l
Chlorobenzene	< 4.0	4.0 µg/l
Bromoform	< 4.0	4.0 µg/l
1,1,2,2-Tetrachloroethane	< 4.0	4.0 µg/l
1,3-Dichlorobenzene	< 4.0	4.0 µg/l
1,4-Dichlorobenzene	< 4.0	4.0 µg/l
1,2-Dichlorobenzene	< 4.0	4.0 µg/l

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Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A324.chr) **GW-45-32'-R**
Date Sampled: 01/17/96
Date Analyzed: 01/17/96

Sample: 28 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 10.0	10.0 µg/l
Toluene	< 10.0	10.0 µg/l
Ethylbenzene	< 10.0	10.0 µg/l
Xylenes (o, m, p)	< 10.0	10.0 µg/l
Dichlorodifluoromethane	< 10.0	10.0 µg/l
Chloromethane	< 10.0	10.0 µg/l
Vinyl chloride	< 10.0	10.0 µg/l
Bromomethane	< 10.0	10.0 µg/l
Chloroethane	< 10.0	10.0 µg/l
Trichlorofluoromethane	< 10.0	10.0 µg/l
1,1-Dichloroethene	< 4.0	4.0 µg/l
Methylene chloride	< 4.0	4.0 µg/l
trans-1,2-Dichloroethene	< 4.0	4.0 µg/l
1,1-Dichloroethane	< 4.0	4.0 µg/l
Chloroform	< 4.0	4.0 µg/l
1,1,1-Trichloroethane	< 4.0	4.0 µg/l
Carbon tetrachloride	< 4.0	4.0 µg/l
1,2-Dichloroethane	50.57	4.0 µg/l
Trichloroethene (TCE)	< 4.0	4.0 µg/l
1,2-Dichloropropane	< 4.0	4.0 µg/l
Bromodichloromethane	< 4.0	4.0 µg/l
cis-1,3-Dichloropropene	< 4.0	4.0 µg/l
trans-1,3-Dichloropropene	< 4.0	4.0 µg/l
1,1,2-Trichloroethane	< 4.0	4.0 µg/l
Tetrachloroethene (PCE)	< 4.0	4.0 µg/l
Dibromochloromethane	< 4.0	4.0 µg/l
Chlorobenzene	< 4.0	4.0 µg/l
Bromoform	< 4.0	4.0 µg/l
1,1,2,2-Tetrachloroethane	< 4.0	4.0 µg/l
1,3-Dichlorobenzene	< 4.0	4.0 µg/l
1,4-Dichlorobenzene	< 4.0	4.0 µg/l
1,2-Dichlorobenzene	< 4.0	4.0 µg/l

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Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A325.chr) **GW-45-20'**
Date Sampled: 01/17/96
Date Analyzed: 01/17/96

Sample: 29 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 10.0	10.0 µg/l
Toluene	< 10.0	10.0 µg/l
Ethylbenzene	< 10.0	10.0 µg/l
Xylenes (o, m, p)	< 10.0	10.0 µg/l
Dichlorodifluoromethane	< 10.0	10.0 µg/l
Chloromethane	< 10.0	10.0 µg/l
Vinyl chloride	< 10.0	10.0 µg/l
Bromomethane	< 10.0	10.0 µg/l
Chloroethane	< 10.0	10.0 µg/l
Trichlorofluoromethane	< 10.0	10.0 µg/l
1,1-Dichloroethene	< 4.0	4.0 µg/l
Methylene chloride	< 4.0	4.0 µg/l
trans-1,2-Dichloroethene	< 4.0	4.0 µg/l
1,1-Dichloroethane	< 4.0	4.0 µg/l
Chloroform	< 4.0	4.0 µg/l
1,1,1-Trichloroethane	< 4.0	4.0 µg/l
Carbon tetrachloride	< 4.0	4.0 µg/l
1,2-Dichloroethane	13.64	4.0 µg/l
Trichloroethene (TCE)	< 4.0	4.0 µg/l
1,2-Dichloropropane	< 4.0	4.0 µg/l
Bromodichloromethane	< 4.0	4.0 µg/l
cis-1,3-Dichloropropene	< 4.0	4.0 µg/l
trans-1,3-Dichloropropene	< 4.0	4.0 µg/l
1,1,2-Trichloroethane	< 4.0	4.0 µg/l
Tetrachloroethene (PCE)	< 4.0	4.0 µg/l
Dibromochloromethane	< 4.0	4.0 µg/l
Chlorobenzene	< 4.0	4.0 µg/l
Bromoform	< 4.0	4.0 µg/l
1,1,2,2-Tetrachloroethane	< 4.0	4.0 µg/l
1,3-Dichlorobenzene	< 4.0	4.0 µg/l
1,4-Dichlorobenzene	< 4.0	4.0 µg/l
1,2-Dichlorobenzene	< 4.0	4.0 µg/l

Signed Walter Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A326.chr) **GW-45-60'**
Date Sampled: 01/17/96
Date Analyzed: 01/17/96

Sample: 30 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 10.0	10.0 µg/l
Toluene	< 10.0	10.0 µg/l
Ethylbenzene	< 10.0	10.0 µg/l
Xylenes (o, m, p)	< 10.0	10.0 µg/l
Dichlorodifluoromethane	< 10.0	10.0 µg/l
Chloromethane	< 10.0	10.0 µg/l
Vinyl chloride	< 10.0	10.0 µg/l
Bromomethane	< 10.0	10.0 µg/l
Chloroethane	< 10.0	10.0 µg/l
Trichlorofluoromethane	< 10.0	10.0 µg/l
1,1-Dichloroethene	< 4.0	4.0 µg/l
Methylene chloride	< 4.0	4.0 µg/l
trans-1,2-Dichloroethene	< 4.0	4.0 µg/l
1,1-Dichloroethane	< 4.0	4.0 µg/l
Chloroform	< 4.0	4.0 µg/l
1,1,1-Trichloroethane	< 4.0	4.0 µg/l
Carbon tetrachloride	< 4.0	4.0 µg/l
1,2-Dichloroethane	< 4.0	4.0 µg/l
Trichloroethene (TCE)	< 4.0	4.0 µg/l
1,2-Dichloropropane	< 4.0	4.0 µg/l
Bromodichloromethane	< 4.0	4.0 µg/l
cis-1,3-Dichloropropene	< 4.0	4.0 µg/l
trans-1,3-Dichloropropene	< 4.0	4.0 µg/l
1,1,2-Trichloroethane	< 4.0	4.0 µg/l
Tetrachloroethene (PCE)	< 4.0	4.0 µg/l
Dibromochloromethane	< 4.0	4.0 µg/l
Chlorobenzene	< 4.0	4.0 µg/l
Bromoform	< 4.0	4.0 µg/l
1,1,2,2-Tetrachloroethane	< 4.0	4.0 µg/l
1,3-Dichlorobenzene	< 4.0	4.0 µg/l
1,4-Dichlorobenzene	< 4.0	4.0 µg/l
1,2-Dichlorobenzene	< 4.0	4.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A328.chr) **GW-46**
Date Sampled: 01/17/96
Date Analyzed: 01/17/96

Sample: 31 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	15.02	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A335.chr) **GW-43-20'**
Date Sampled: 01/18/96
Date Analyzed: 01/18/96

Sample: 32 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	6.06	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	6.03	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	1,796	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	22.04	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter L Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A336.chr) **GW-43-40'**
Date Sampled: 01/18/96
Date Analyzed: 01/18/96

Sample: 33 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	579	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter L Cranor
Analyst - Walter L. Cranor

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A337.chr) **GW-43-73'**
Date Sampled: 01/18/96
Date Analyzed: 01/18/96

Sample: 34 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	50.52	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A338.chr) **GW-43-60'**
Date Sampled: 01/18/96
Date Analyzed: 01/18/96

Sample: 35 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	54.32	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter Cranor
Analyst - Walter L. Cranor

Hydro•LOGIC

ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A339.chr) **GW-47**
Date Sampled: 01/18/96
Date Analyzed: 01/18/96

Sample: 36 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	8.80	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A340.chr) **GW-47-R**
Date Sampled: 01/18/96
Date Analyzed: 01/18/96

Sample: 37 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	7.06	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A341.chr) **GW-40**
Date Sampled: 01/18/96
Date Analyzed: 01/18/96

Sample: 38 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	76.69	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A346.chr) **GW-48**
Date Sampled: 01/19/96
Date Analyzed: 01/19/96

Sample: 39 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	44.32	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A347.chr) **GW-48-R**
Date Sampled: 01/19/96
Date Analyzed: 01/19/96

Sample: 40 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	29.81	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A348.chr) **GW-49**
Date Sampled: 01/19/96
Date Analyzed: 01/19/96

Sample: 41 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	326	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

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ANALYTICAL REPORT

Client/Site: Geraghty & Miller, Inc. / American Cyanamid
Sample ID: (E2A350.chr) **GW-50**
Date Sampled: 01/19/96
Date Analyzed: 01/19/96

Sample: 42 of 42
Method: EPA (8021)
Matrix: Water

Analyte	Concentration	Detection Limit
Benzene	< 5.0	5.0 µg/l
Toluene	< 5.0	5.0 µg/l
Ethylbenzene	< 5.0	5.0 µg/l
Xylenes (o, m, p)	< 5.0	5.0 µg/l
Dichlorodifluoromethane	< 5.0	5.0 µg/l
Chloromethane	< 5.0	5.0 µg/l
Vinyl chloride	< 5.0	5.0 µg/l
Bromomethane	< 5.0	5.0 µg/l
Chloroethane	< 5.0	5.0 µg/l
Trichlorofluoromethane	< 5.0	5.0 µg/l
1,1-Dichloroethene	< 2.0	2.0 µg/l
Methylene chloride	< 2.0	2.0 µg/l
trans-1,2-Dichloroethene	< 2.0	2.0 µg/l
1,1-Dichloroethane	< 2.0	2.0 µg/l
Chloroform	< 2.0	2.0 µg/l
1,1,1-Trichloroethane	< 2.0	2.0 µg/l
Carbon tetrachloride	< 2.0	2.0 µg/l
1,2-Dichloroethane	652	2.0 µg/l
Trichloroethene (TCE)	< 2.0	2.0 µg/l
1,2-Dichloropropane	< 2.0	2.0 µg/l
Bromodichloromethane	< 2.0	2.0 µg/l
cis-1,3-Dichloropropene	< 2.0	2.0 µg/l
trans-1,3-Dichloropropene	< 2.0	2.0 µg/l
1,1,2-Trichloroethane	< 2.0	2.0 µg/l
Tetrachloroethene (PCE)	< 2.0	2.0 µg/l
Dibromochloromethane	< 2.0	2.0 µg/l
Chlorobenzene	< 2.0	2.0 µg/l
Bromoform	< 2.0	2.0 µg/l
1,1,2,2-Tetrachloroethane	< 2.0	2.0 µg/l
1,3-Dichlorobenzene	< 2.0	2.0 µg/l
1,4-Dichlorobenzene	< 2.0	2.0 µg/l
1,2-Dichlorobenzene	< 2.0	2.0 µg/l

Signed Walter L. Cranor
Analyst - Walter L. Cranor

Hydro•LOGIC

Inchcape Testing Services
Environmental Laboratories

1089 E. Collins Blvd.
Richardson, TX 75081
Tel. 214-238-5591
Fax. 214-238-5592

ANALYTICAL REPORT

DATE RECEIVED : 20-JAN-1996

REPORT NUMBER : D96-637
REPORT DATE : 23-JAN-1996

SAMPLE SUBMITTED BY : Geraghty and Miller
ADDRESS : 11020 King Street #215
: Overland Park, KS 66210
ATTENTION : Tina Lloyd
PROJECT : KS0181.001 Hannibal, MO.
PURCHASE ORDER NO : KS 1217

Included in this data package are the analytical results for the sample group which you have submitted to Inchcape Testing Services for analysis. These results are representative of the samples as received by the laboratory.

The information contained herein has undergone extensive review and is deemed accurate and complete. Sample analysis and quality control were performed in accordance with all applicable protocols. Any deviations from these protocols or observations of interest are detailed in an accompanying Case Narrative. Please refrain from reproducing this report except in its entirety.

If you have any questions regarding this report and its associated materials please call your Project Manager at (214) 238-5591.

We appreciate the opportunity to serve you and look forward to providing continued service in the future.

Martin Jeffus

Martin Jeffus
General Manager

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 20-JAN-1996

REPORT NUMBER : D96-637-1
REPORT DATE : 23-JAN-1996

SAMPLE SUBMITTED BY : Geraghty and Miller
ADDRESS : 11020 King Street #215
: Overland Park, KS 66210
ATTENTION : Tina Lloyd

SAMPLE MATRIX : Liquid
ID MARKS : GW34
PROJECT : KS0181.001 Hannibal, MO.
PURCHASE ORDER NO : KS 1217
DATE SAMPLED : 16-JAN-1996
ANALYSIS METHOD : EPA 8240 /1
ANALYZED BY : SAP
ANALYZED ON : 20-JAN-1996
DILUTION FACTOR : 1
QC BATCH NO : ITS6-650

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Chloromethane	10.0	µg/L	<	10.0	µg/L
Bromomethane	10.0	µg/L	<	10.0	µg/L
Vinyl chloride	10.0	µg/L	<	10.0	µg/L
Chloroethane	10.0	µg/L	<	10.0	µg/L
Methylene chloride	5.0	µg/L	<	5.0	µg/L
Acetone	100	µg/L	<	100	µg/L
Carbon disulfide	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethene	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethane	5.0	µg/L	<	5.0	µg/L
cis-1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
trans-1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
Chloroform	5.0	µg/L	<	5.0	µg/L
1,2-Dichloroethane	5.0	µg/L	>	330	µg/L
2-Butanone	50.0	µg/L	<	50.0	µg/L
1,1,1-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Carbon tetrachloride	5.0	µg/L	<	5.0	µg/L

REPORT NUMBER : D96-637-1
ANALYSIS METHOD : EPA 8240 /1

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/L	<	50.0	µg/L
Bromodichloromethane	5.0	µg/L	<	5.0	µg/L
1,2-Dichloropropane	5.0	µg/L	<	5.0	µg/L
cis-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Trichloroethene	5.0	µg/L	<	5.0	µg/L
Chlorodibromomethane	5.0	µg/L	<	5.0	µg/L
1,1,2-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Benzene	5.0	µg/L	<	5.0	µg/L
trans-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Bromoform	5.0	µg/L	<	5.0	µg/L
2-Chloroethylvinyl ether	10.0	µg/L	<	10.0	µg/L
4-Methyl-2-pentanone	50.0	µg/L	<	50.0	µg/L
2-Hexanone	50.0	µg/L	<	50.0	µg/L
Tetrachloroethene	5.0	µg/L	<	5.0	µg/L
Toluene	5.0	µg/L	<	5.0	µg/L
1,1,2,2-Tetrachloroethane	5.0	µg/L	<	5.0	µg/L
Chlorobenzene	5.0	µg/L		248	µg/L
Ethylbenzene	5.0	µg/L	<	5.0	µg/L
Styrene	5.0	µg/L	<	5.0	µg/L
o-Xylene	5.0	µg/L	<	5.0	µg/L
m,p-Xylene	5.0	µg/L	<	5.0	µg/L

Inchcape Testing Services
Environmental Laboratories

REPORT NUMBER : D96-637-1
ANALYSIS METHOD : EPA 8240 /1

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	88.6 %
Toluene-d8 (SS)	50.0 µg/L	112 %
Bromofluorobenzene (SS)	50.0 µg/L	112 %

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 20-JAN-1996

REPORT NUMBER : D96-637-1
REPORT DATE : 23-JAN-1996

SAMPLE SUBMITTED BY : Geraghty and Miller
ADDRESS : 11020 King Street #215
: Overland Park, KS 66210
ATTENTION : Tina Lloyd

SAMPLE MATRIX : Liquid
ID MARKS : GW34
PROJECT : KS0181.001 Hannibal, MO.
PURCHASE ORDER NO : KS 1217
DATE SAMPLED : 16-JAN-1996
ANALYSIS METHOD : EPA 8240 /2
ANALYZED BY : MGD
ANALYZED ON : 22-JAN-1996
DILUTION FACTOR : 10
QC BATCH NO : ITS7-932

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
1,2-Dichloroethane	50 µg/L	1670 µg/L

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	113 %
Toluene-d8 (SS)	50.0 µg/L	105 %
Bromofluorobenzene (SS)	50.0 µg/L	85.4 %

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 20-JAN-1996

REPORT NUMBER : D96-637-1
REPORT DATE : 23-JAN-1996

SAMPLE SUBMITTED BY : Geraghty and Miller
ADDRESS : 11020 King Street #215
: Overland Park, KS 66210
ATTENTION : Tina Lloyd

SAMPLE MATRIX : Liquid
ID MARKS : GW34
PROJECT : KS0181.001 Hannibal, MO.
PURCHASE ORDER NO : KS 1217
DATE SAMPLED : 16-JAN-1996
ANALYZED BY : SAP
ANALYZED ON : 20-JAN-1996
ANALYSIS METHOD : EPA 8240 /1
QC BATCH NO : ITS6-650

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
Unidentified alkene	1.59	VOA	12 µg/L

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 20-JAN-1996

REPORT NUMBER : D96-637-2
REPORT DATE : 23-JAN-1996

SAMPLE SUBMITTED BY : Geraghty and Miller
ADDRESS : 11020 King Street #215
: Overland Park, KS 66210
ATTENTION : Tina Lloyd

SAMPLE MATRIX : Liquid
ID MARKS : GW37
PROJECT : KS0181.001 Hannibal, MO.
PURCHASE ORDER NO : KS 1217
DATE SAMPLED : 16-JAN-1996
ANALYSIS METHOD : EPA 8240 /1
ANALYZED BY : SAP
ANALYZED ON : 20-JAN-1996
DILUTION FACTOR : 1
QC BATCH NO : ITS6-650

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Chloromethane	10.0	µg/L	<	10.0	µg/L
Bromomethane	10.0	µg/L	<	10.0	µg/L
Vinyl chloride	10.0	µg/L	<	10.0	µg/L
Chloroethane	10.0	µg/L	<	10.0	µg/L
Methylene chloride	5.0	µg/L	<	5.0	µg/L
Acetone	100	µg/L	<	100	µg/L
Carbon disulfide	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethene	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethane	5.0	µg/L		5.6	µg/L
cis-1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
trans-1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
Chloroform	5.0	µg/L	<	5.0	µg/L
1,2-Dichloroethane	5.0	µg/L	>	330	µg/L
2-Butanone	50.0	µg/L	<	50.0	µg/L
1,1,1-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Carbon tetrachloride	5.0	µg/L	<	5.0	µg/L

Inchcape Testing Services
Environmental Laboratories

REPORT NUMBER : D96-637-2
ANALYSIS METHOD : EPA 8240 /1

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/L	<	50.0	µg/L
Bromodichloromethane	5.0	µg/L	<	5.0	µg/L
1,2-Dichloropropane	5.0	µg/L	<	5.0	µg/L
cis-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Trichloroethene	5.0	µg/L	<	5.0	µg/L
Chlorodibromomethane	5.0	µg/L	<	5.0	µg/L
1,1,2-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Benzene	5.0	µg/L	<	5.0	µg/L
trans-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Bromoform	5.0	µg/L	<	5.0	µg/L
2-Chloroethylvinyl ether	10.0	µg/L	<	10.0	µg/L
4-Methyl-2-pentanone	50.0	µg/L	<	50.0	µg/L
2-Hexanone	50.0	µg/L	<	50.0	µg/L
Tetrachloroethene	5.0	µg/L	<	5.0	µg/L
Toluene	5.0	µg/L	<	5.0	µg/L
1,1,2,2-Tetrachloroethane	5.0	µg/L	<	5.0	µg/L
Chlorobenzene	5.0	µg/L		8.5	µg/L
Ethylbenzene	5.0	µg/L	<	5.0	µg/L
Styrene	5.0	µg/L	<	5.0	µg/L
o-Xylene	5.0	µg/L	<	5.0	µg/L
m,p-Xylene	5.0	µg/L	<	5.0	µg/L

Inchcape Testing Services
Environmental Laboratories

REPORT NUMBER : D96-637-2
ANALYSIS METHOD : EPA 8240 /1

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	514 %
Toluene-d8 (SS)	50.0 µg/L	109 %
Bromofluorobenzene (SS)	50.0 µg/L	108 %

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 20-JAN-1996

REPORT NUMBER : D96-637-2
REPORT DATE : 23-JAN-1996

SAMPLE SUBMITTED BY : Geraghty and Miller
ADDRESS : 11020 King Street #215
: Overland Park, KS 66210
ATTENTION : Tina Lloyd

SAMPLE MATRIX : Liquid
ID MARKS : GW37
PROJECT : KS0181.001 Hannibal, MO.
PURCHASE ORDER NO : KS 1217
DATE SAMPLED : 16-JAN-1996
ANALYSIS METHOD : EPA 8240 /2
ANALYZED BY : MGD
ANALYZED ON : 22-JAN-1996
DILUTION FACTOR : 50
QC BATCH NO : ITS7-932

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
1,2-Dichloroethane	250 µg/L	4930 µg/L

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	108 %
Toluene-d8 (SS)	50.0 µg/L	109 %
Bromofluorobenzene (SS)	50.0 µg/L	85.4 % **

** Surrogate recovery affected by dilution factor of 50

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 20-JAN-1996

REPORT NUMBER : D96-637-2
REPORT DATE : 23-JAN-1996

SAMPLE SUBMITTED BY : Geraghty and Miller
ADDRESS : 11020 King Street #215
: Overland Park, KS 66210
ATTENTION : Tina Lloyd

SAMPLE MATRIX : Liquid
ID MARKS : GW37
PROJECT : KS0181.001 Hannibal, MO.
PURCHASE ORDER NO : KS 1217
DATE SAMPLED : 16-JAN-1996
ANALYZED BY : SAP
ANALYZED ON : 20-JAN-1996
ANALYSIS METHOD : EPA 8240 /1
QC BATCH NO : ITS6-650

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 ug/L

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 20-JAN-1996

REPORT NUMBER : D96-637-3
REPORT DATE : 23-JAN-1996

SAMPLE SUBMITTED BY : Geraghty and Miller
ADDRESS : 11020 King Street #215
: Overland Park, KS 66210
ATTENTION : Tina Lloyd

SAMPLE MATRIX : Liquid
ID MARKS : GW41
PROJECT : KS0181.001 Hannibal, MO.
PURCHASE ORDER NO : KS 1217
DATE SAMPLED : 17-JAN-1996
ANALYSIS METHOD : EPA 8240 /1
ANALYZED BY : SAP
ANALYZED ON : 20-JAN-1996
DILUTION FACTOR : 5
QC BATCH NO : ITS6-650

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Chloromethane	50.0	µg/L	<	50.0	µg/L
Bromomethane	50.0	µg/L	<	50.0	µg/L
Vinyl chloride	50.0	µg/L	<	50.0	µg/L
Chloroethane	50.0	µg/L	<	50.0	µg/L
Methylene chloride	25.0	µg/L	<	25.0	µg/L
Acetone	500	µg/L	<	500	µg/L
Carbon disulfide	25.0	µg/L	<	25.0	µg/L
1,1-Dichloroethene	25.0	µg/L	<	25.0	µg/L
1,1-Dichloroethane	25.0	µg/L		26.6	µg/L
cis-1,2-Dichloroethene	25.0	µg/L	<	25.0	µg/L
trans-1,2-Dichloroethene	25.0	µg/L	<	25.0	µg/L
Chloroform	25.0	µg/L	<	25.0	µg/L
1,2-Dichloroethane	25.0	µg/L	>	1650	µg/L
2-Butanone	250	µg/L	<	250	µg/L
1,1,1-Trichloroethane	25.0	µg/L	<	25.0	µg/L
Carbon tetrachloride	25.0	µg/L	<	25.0	µg/L

REPORT NUMBER : D96-637-3
ANALYSIS METHOD : EPA 8240 /1

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	250	µg/L	<	250	µg/L
Bromodichloromethane	25.0	µg/L	<	25.0	µg/L
1,2-Dichloropropane	25.0	µg/L	<	25.0	µg/L
cis-1,3-Dichloropropene	25.0	µg/L	<	25.0	µg/L
Trichloroethene	25.0	µg/L	<	25.0	µg/L
Chlorodibromomethane	25.0	µg/L	<	25.0	µg/L
1,1,2-Trichloroethane	25.0	µg/L	<	25.0	µg/L
Benzene	25.0	µg/L	<	25.0	µg/L
trans-1,3-Dichloropropene	25.0	µg/L	<	25.0	µg/L
Bromoform	25.0	µg/L	<	25.0	µg/L
2-Chloroethylvinyl ether	50.0	µg/L	<	50.0	µg/L
4-Methyl-2-pentanone	250	µg/L	<	250	µg/L
2-Hexanone	250	µg/L	<	250	µg/L
Tetrachloroethene	25.0	µg/L	<	25.0	µg/L
Toluene	25.0	µg/L	<	25.0	µg/L
1,1,2,2-Tetrachloroethane	25.0	µg/L	<	25.0	µg/L
Chlorobenzene	25.0	µg/L	>	1300	µg/L
Ethylbenzene	25.0	µg/L	<	25.0	µg/L
Styrene	25.0	µg/L	<	25.0	µg/L
o-Xylene	25.0	µg/L	<	25.0	µg/L
m,p-Xylene	25.0	µg/L	<	25.0	µg/L

REPORT NUMBER : D96-637-3
ANALYSIS METHOD : EPA 8240 /1

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	89.7 %
Toluene-d8 (SS)	50.0 µg/L	109 %
Bromofluorobenzene (SS)	50.0 µg/L	116 %

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 20-JAN-1996

REPORT NUMBER : D96-637-3
REPORT DATE : 23-JAN-1996

SAMPLE SUBMITTED BY : Geraghty and Miller
ADDRESS : 11020 King Street #215
: Overland Park, KS 66210
ATTENTION : Tina Lloyd

SAMPLE MATRIX : Liquid
ID MARKS : GW41
PROJECT : KS0181.001 Hannibal, MO.
PURCHASE ORDER NO : KS 1217
DATE SAMPLED : 17-JAN-1996
ANALYSIS METHOD : EPA 8240 /2
ANALYZED BY : MGD
ANALYZED ON : 22-JAN-1996
DILUTION FACTOR : 50
QC BATCH NO : ITS7-932

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
1,2-Dichloroethane	250 µg/L	7970 µg/L
Chlorobenzene	250 µg/L	1360 µg/L

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	129 %
Toluene-d8 (SS)	50.0 µg/L	116 %
Bromofluorobenzene (SS)	50.0 µg/L	91.6 %

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 20-JAN-1996

REPORT NUMBER : D96-637-3
REPORT DATE : 23-JAN-1996

SAMPLE SUBMITTED BY : Geraghty and Miller
ADDRESS : 11020 King Street #215
: Overland Park, KS 66210
ATTENTION : Tina Lloyd

SAMPLE MATRIX : Liquid
ID MARKS : GW41
PROJECT : KS0181.001 Hannibal, MO.
PURCHASE ORDER NO : KS 1217
DATE SAMPLED : 17-JAN-1996
ANALYZED BY : SAP
ANALYZED ON : 20-JAN-1996
ANALYSIS METHOD : EPA 8240 /1
QC BATCH NO : ITS6-650

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 ug/L

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 20-JAN-1996

REPORT NUMBER : D96-637-4
REPORT DATE : 23-JAN-1996

SAMPLE SUBMITTED BY : Geraghty and Miller
ADDRESS : 11020 King Street #215
: Overland Park, KS 66210
ATTENTION : Tina Lloyd

SAMPLE MATRIX : Liquid
ID MARKS : GW43
PROJECT : KS0181.001 Hannibal, MO.
PURCHASE ORDER NO : KS 1217
DATE SAMPLED : 18-JAN-1996
ANALYSIS METHOD : EPA 8240 /1
ANALYZED BY : SAP
ANALYZED ON : 20-JAN-1996
DILUTION FACTOR : 1
QC BATCH NO : ITS6-650

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Chloromethane	10.0	µg/L	<	10.0	µg/L
Bromomethane	10.0	µg/L	<	10.0	µg/L
Vinyl chloride	10.0	µg/L	<	10.0	µg/L
Chloroethane	10.0	µg/L	<	10.0	µg/L
Methylene chloride	5.0	µg/L	<	5.0	µg/L
Acetone	100	µg/L	<	100	µg/L
Carbon disulfide	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethene	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethane	5.0	µg/L	<	5.0	µg/L
cis-1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
trans-1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
Chloroform	5.0	µg/L	<	5.0	µg/L
1,2-Dichloroethane	5.0	µg/L		47.6	µg/L
2-Butanone	50.0	µg/L	<	50.0	µg/L
1,1,1-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Carbon tetrachloride	5.0	µg/L	<	5.0	µg/L

REPORT NUMBER : D96-637-4
ANALYSIS METHOD : EPA 8240 /1

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/L	<	50.0	µg/L
Bromodichloromethane	5.0	µg/L	<	5.0	µg/L
1,2-Dichloropropane	5.0	µg/L	<	5.0	µg/L
cis-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Trichloroethene	5.0	µg/L	<	5.0	µg/L
Chlorodibromomethane	5.0	µg/L	<	5.0	µg/L
1,1,2-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Benzene	5.0	µg/L	<	5.0	µg/L
trans-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Bromoform	5.0	µg/L	<	5.0	µg/L
2-Chloroethylvinyl ether	10.0	µg/L	<	10.0	µg/L
4-Methyl-2-pentanone	50.0	µg/L	<	50.0	µg/L
2-Hexanone	50.0	µg/L	<	50.0	µg/L
Tetrachloroethene	5.0	µg/L	<	5.0	µg/L
Toluene	5.0	µg/L	<	5.0	µg/L
1,1,2,2-Tetrachloroethane	5.0	µg/L	<	5.0	µg/L
Chlorobenzene	5.0	µg/L	<	5.0	µg/L
Ethylbenzene	5.0	µg/L	<	5.0	µg/L
Styrene	5.0	µg/L	<	5.0	µg/L
o-Xylene	5.0	µg/L	<	5.0	µg/L
m,p-Xylene	5.0	µg/L	<	5.0	µg/L

Inchcape Testing Services
Environmental Laboratories

REPORT NUMBER : D96-637-4
ANALYSIS METHOD : EPA 8240 /1

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	123 %
Toluene-d8 (SS)	50.0 µg/L	109 %
Bromofluorobenzene (SS)	50.0 µg/L	113 %

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 20-JAN-1996

REPORT NUMBER : D96-637-4
REPORT DATE : 23-JAN-1996

SAMPLE SUBMITTED BY : Geraghty and Miller
ADDRESS : 11020 King Street #215
: Overland Park, KS 66210
ATTENTION : Tina Lloyd

SAMPLE MATRIX : Liquid
ID MARKS : GW43
PROJECT : KS0181.001 Hannibal, MO.
PURCHASE ORDER NO : KS 1217
DATE SAMPLED : 18-JAN-1996
ANALYZED BY : SAP
ANALYZED ON : 20-JAN-1996
ANALYSIS METHOD : EPA 8240 /1
QC BATCH NO : ITS6-650

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
Unknown acid	1.58	VOA	15 ug/L
Methylpropene	1.92	VOA	11 ug/L

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 20-JAN-1996

REPORT NUMBER : D96-637-5
REPORT DATE : 23-JAN-1996

SAMPLE SUBMITTED BY : Geraghty and Miller
ADDRESS : 11020 King Street #215
: Overland Park, KS 66210
ATTENTION : Tina Lloyd

SAMPLE MATRIX : Liquid
ID MARKS : Method Blank
PROJECT : KS0181.001 Hannibal, MO.
PURCHASE ORDER NO : KS 1217
DATE SAMPLED : 20-JAN-1996
ANALYSIS METHOD : EPA 8240 /1
ANALYZED BY : SAP
ANALYZED ON : 20-JAN-1996
DILUTION FACTOR : 1
QC BATCH NO : ITS6-650

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Chloromethane	10.0	µg/L	<	10.0	µg/L
Bromomethane	10.0	µg/L	<	10.0	µg/L
Vinyl chloride	10.0	µg/L	<	10.0	µg/L
Chloroethane	10.0	µg/L	<	10.0	µg/L
Methylene chloride	5.0	µg/L	<	5.0	µg/L
Acetone	100	µg/L	<	100	µg/L
Carbon disulfide	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethene	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethane	5.0	µg/L	<	5.0	µg/L
cis-1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
trans-1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
Chloroform	5.0	µg/L	<	5.0	µg/L
1,2-Dichloroethane	5.0	µg/L	<	5.0	µg/L
2-Butanone	50.0	µg/L	<	50.0	µg/L
1,1,1-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Carbon tetrachloride	5.0	µg/L	<	5.0	µg/L

REPORT NUMBER : D96-637-5
ANALYSIS METHOD : EPA 8240 /1

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/L	<	50.0	µg/L
Bromodichloromethane	5.0	µg/L	<	5.0	µg/L
1,2-Dichloropropane	5.0	µg/L	<	5.0	µg/L
cis-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Trichloroethene	5.0	µg/L	<	5.0	µg/L
Chlorodibromomethane	5.0	µg/L	<	5.0	µg/L
1,1,2-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Benzene	5.0	µg/L	<	5.0	µg/L
trans-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Bromoform	5.0	µg/L	<	5.0	µg/L
2-Chloroethylvinyl ether	10.0	µg/L	<	10.0	µg/L
4-Methyl-2-pentanone	50.0	µg/L	<	50.0	µg/L
2-Hexanone	50.0	µg/L	<	50.0	µg/L
Tetrachloroethene	5.0	µg/L	<	5.0	µg/L
Toluene	5.0	µg/L	<	5.0	µg/L
1,1,2,2-Tetrachloroethane	5.0	µg/L	<	5.0	µg/L
Chlorobenzene	5.0	µg/L	<	5.0	µg/L
Ethylbenzene	5.0	µg/L	<	5.0	µg/L
Styrene	5.0	µg/L	<	5.0	µg/L
o-Xylene	5.0	µg/L	<	5.0	µg/L
m,p-Xylene	5.0	µg/L	<	5.0	µg/L

REPORT NUMBER : D96-637-5
ANALYSIS METHOD : EPA 8240 /1

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	101 %
Toluene-d8 (SS)	50.0 µg/L	105 %
Bromofluorobenzene (SS)	50.0 µg/L	105 %

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 20-JAN-1996

REPORT NUMBER : D96-637-5
REPORT DATE : 23-JAN-1996

SAMPLE SUBMITTED BY : Geraghty and Miller
ADDRESS : 11020 King Street #215
: Overland Park, KS 66210
ATTENTION : Tina Lloyd

SAMPLE MATRIX : Liquid
ID MARKS : Method Blank
PROJECT : KS0181.001 Hannibal, MO.
PURCHASE ORDER NO : KS 1217
DATE SAMPLED : 20-JAN-1996
ANALYSIS METHOD : EPA 8240 /2
ANALYZED BY : MGD
ANALYZED ON : 22-JAN-1996
DILUTION FACTOR : 1
QC BATCH NO : ITS7-932

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Chloromethane	10.0	µg/L	<	10.0	µg/L
Bromomethane	10.0	µg/L	<	10.0	µg/L
Vinyl chloride	10.0	µg/L	<	10.0	µg/L
Chloroethane	10.0	µg/L	<	10.0	µg/L
Methylene chloride	5.0	µg/L	<	5.0	µg/L
Acetone	100	µg/L	<	100	µg/L
Carbon disulfide	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethene	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethane	5.0	µg/L	<	5.0	µg/L
cis-1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
trans-1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
Chloroform	5.0	µg/L	<	5.0	µg/L
1,2-Dichloroethane	5.0	µg/L	<	5.0	µg/L
2-Butanone	50.0	µg/L	<	50.0	µg/L
1,1,1-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Carbon tetrachloride	5.0	µg/L	<	5.0	µg/L

REPORT NUMBER : D96-637-5
ANALYSIS METHOD : EPA 8240 /2

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/L	<	50.0	µg/L
Bromodichloromethane	5.0	µg/L	<	5.0	µg/L
1,2-Dichloropropane	5.0	µg/L	<	5.0	µg/L
cis-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Trichloroethene	5.0	µg/L	<	5.0	µg/L
Chlorodibromomethane	5.0	µg/L	<	5.0	µg/L
1,1,2-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Benzene	5.0	µg/L	<	5.0	µg/L
trans-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Bromoform	5.0	µg/L	<	5.0	µg/L
2-Chloroethylvinyl ether	10.0	µg/L	<	10.0	µg/L
4-Methyl-2-pentanone	50.0	µg/L	<	50.0	µg/L
2-Hexanone	50.0	µg/L	<	50.0	µg/L
Tetrachloroethene	5.0	µg/L	<	5.0	µg/L
Toluene	5.0	µg/L	<	5.0	µg/L
1,1,2,2-Tetrachloroethane	5.0	µg/L	<	5.0	µg/L
Chlorobenzene	5.0	µg/L	<	5.0	µg/L
Ethylbenzene	5.0	µg/L	<	5.0	µg/L
Styrene	5.0	µg/L	<	5.0	µg/L
o-Xylene	5.0	µg/L	<	5.0	µg/L
m,p-Xylene	5.0	µg/L	<	5.0	µg/L

Inchcape Testing Services
Environmental Laboratories

REPORT NUMBER : D96-637-5
ANALYSIS METHOD : EPA 8240 /2

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	101 %
Toluene-d8 (SS)	50.0 µg/L	114 %
Bromofluorobenzene (SS)	50.0 µg/L	80.4 %

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 20-JAN-1996

REPORT NUMBER : D96-637-5
REPORT DATE : 23-JAN-1996

SAMPLE SUBMITTED BY : Geraghty and Miller
ADDRESS : 11020 King Street #215
: Overland Park, KS 66210
ATTENTION : Tina Lloyd

SAMPLE MATRIX : Liquid
ID MARKS : Method Blank
PROJECT : KS0181.001 Hannibal, MO.
PURCHASE ORDER NO : KS 1217
DATE SAMPLED : 20-JAN-1996
ANALYZED BY : SAP
ANALYZED ON : 20-JAN-1996
ANALYSIS METHOD : EPA 8240 /1
QC BATCH NO : ITS6-650

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 ug/L

Inchcape Testing Services
Environmental Laboratories

DATE RECEIVED : 20-JAN-1996

REPORT NUMBER : D96-637-5
REPORT DATE : 23-JAN-1996

SAMPLE SUBMITTED BY : Geraghty and Miller
ADDRESS : 11020 King Street #215
: Overland Park, KS 66210
ATTENTION : Tina Lloyd

SAMPLE MATRIX : Liquid
ID MARKS : Method Blank
PROJECT : KS0181.001 Hannibal, MO.
PURCHASE ORDER NO : KS 1217
DATE SAMPLED : 20-JAN-1996
ANALYZED BY : MGD
ANALYZED ON : 22-JAN-1996
ANALYSIS METHOD : EPA 8240 /2
QC BATCH NO : ITS7-932

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 ug/L

Inchcape Testing Services
Environmental Laboratories

REPORT DATE : 23-JAN-1996 REPORT NUMBER : D96-637

SAMPLE SUBMITTED BY : Geraghty and Miller
ATTENTION : Tina Lloyd
PROJECT : KS0181.001 Hannibal, MO.

LABORATORY QUALITY CONTROL REPORT

ANALYTE	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chlorobenzene
BATCH NO.	ITS6-650	ITS6-650	ITS6-650	ITS6-650	ITS6-650
LCS LOT NO.	AB598-11-5	AB598-11-5	AB598-11-5	AB598-11-5	AB598-11-5
PREP METHOD	---	---	---	---	---
PREPARED BY	---	---	---	---	---
ANALYSIS METHOD	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
ANALYZED BY	SAP	SAP	SAP	SAP	SAP
UNITS	µg/L	µg/L	µg/L	µg/L	µg/L
METHOD BLANK	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
IKE LEVEL	50.0	50.0	50.0	50.0	50.0
MS RESULT	56.2	58.2	56.8	58.9	58.0
MS RECOVERY %	112	116	114	118	116
MSD RESULT	56.9	54.6	59.1	58.6	56.2
MSD RECOVERY %	114	109	118	117	112
MS/MSD RPD %	1.24	6.38	3.97	0.51	3.15
BS RESULT	NA	NA	NA	NA	NA
BS RECOVERY %	NA	NA	NA	NA	NA
BSD RESULT	NA	NA	NA	NA	NA
BSD RECOVERY %	NA	NA	NA	NA	NA
BS/BSD RPD %	NA	NA	NA	NA	NA
DUPLICATE RPD %	NA	NA	NA	NA	NA
LCS LEVEL	50.0	50.0	50.0	50.0	50.0
LCS RESULT	50.7	47.2	52.9	50.6	49.0
LCS RECOVERY %	101	94.4	106	101	98.0
SPIKE SAMPLE ID	503-7	503-7	503-7	503-7	503-7
DUP SAMPLE ID	---	---	---	---	---

Not applicable

Inchcape Testing Services
Environmental Laboratories

REPORT DATE : 23-JAN-1996 REPORT NUMBER : D96-637

SAMPLE SUBMITTED BY : Geraghty and Miller
ATTENTION : Tina Lloyd
PROJECT : KS0181.001 Hannibal, MO.

LABORATORY QUALITY CONTROL REPORT

ANALYTE	1,1-Dichloroethene	Trichloroethene	Benzene	Toluene	Chlorobenzene
BATCH NO.	ITS7-932	ITS7-932	ITS7-932	ITS7-932	ITS7-932
LCS LOT NO.	AB598-12-1	AB598-12-1	AB598-12-1	AB598-12-1	AB598-12-1
PREP METHOD	---	---	---	---	---
PREPARED BY	---	---	---	---	---
ANALYSIS METHOD	EPA 8240	EPA 8240	EPA 8240	EPA 8240	EPA 8240
ANALYZED BY	MGD	MGD	MGD	MGD	MGD
UNITS	µg/L	µg/L	µg/L	µg/L	µg/L
METHOD BLANK	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00
KE LEVEL	100	100	100	100	100
S RESULT	104	106	102	110	102
MS RECOVERY %	104	106	102	110	102
MSD RESULT	102	109	104	111	101
MSD RECOVERY %	102	109	104	111	101
MS/MSD RPD %	1.94	2.79	1.94	0.90	0.99
BS RESULT	NA	NA	NA	NA	NA
BS RECOVERY %	NA	NA	NA	NA	NA
BSD RESULT	NA	NA	NA	NA	NA
BSD RECOVERY %	NA	NA	NA	NA	NA
BS/BSD RPD %	NA	NA	NA	NA	NA
DUPLICATE RPD %	NA	NA	NA	NA	NA
LCS LEVEL	50.0	50.0	50.0	50.0	50.0
LCS RESULT	51.9	53.4	51.3	55.3	52.0
LCS RECOVERY %	104	107	103	111	104
SPIKE SAMPLE ID	453-7	453-7	453-7	453-7	453-7
DUP SAMPLE ID	---	---	---	---	---

Not applicable

G & M[illegible]LER, INC.
Enviro[illegible]al Services

Laboratory Task Order No._____

CHAIN-OF-CUSTODY RECORD

Project Num (S0181.001)

Project Location Hannibal MO

Laboratory Inchcape Testing Services

Sampler(s)/Affiliation MD [illegible]

SAMPLE BOTTLE / CONTAINER DESCRIPTION

SAMPLE IDENTITY	Code	Date/Time Sampled	Lab ID	8240 40ml vo									TOTAL
GW34	L	1/16/96 1330		3						637		-1	3
GW37	L	1/16/96 1700		3								-2	3
GW41	L	1/17/96 1215		3								-3	3
GW43	L	1/18/96 1130		3								-4	3
												-5 MB	

COOLER TEMPERATURE WHEN RECEIVED 6 °C

Total No. of Bottles/Containers 12

Sample Code: L = Liquid; S = Solid; A = Air

Relinquished by: Michael Dwyer Organization: Geraghty & miller Date 1/18/96 Time 1700
Received by: D. Fields Organization ITS - DALLAS Date 1/20/96 Time 10:30
Seal Intact? Yes No N/A

Relinquished by: _____ Organization: _____ Date __/__/__ Time _____
Received by: _____ Organization: _____ Date __/__/__ Time _____
Seal Intact? Yes No N/A

Special Instructions/Remarks: No perservative

Delivery Method: ☐ In Person ☒ Common Carrier Fed X SPECIFY ☐ Lab Courier ☐ Other _____ SPECIFY

G&M Form 09-9-91

Southprint 91-1768

& MILLER, INC.
Environmental Services

LABORATORY TASK ORDER

Task Order No.: 1217

eraghty & Miller Office: Overland Park, KS. Phone: 913-451-9010 Date: 12/4/95
ddress: 11020 King Street, Suite 215 Project Number: KS0181.001
verland Park, KS. 66210 Laboratory Reporting Level: ☐ I ☒ II ☐ III ☐ IV
roj : American Cyanamid Location: Hannibal, Missouri
aboratory: Inchcape Phone: 214-238-5591 Contact: Jackie Mayhew
ab Provides Sample Containers? ☒ Yes ☐ No Date Required: 12/8/95 Ship To: (Office)
stimated Date Of Sample Receipt By Laboratory: 12/15/95 Report Due: Standard T.A.T.
eports Delivered To: Tina Lloyd (address above) Number Of Reports: 1
ork Description: Water samples from Geoprobe
end Invoice To: Tina Lloyd

PHYSICAL PROPERTIES	# Water	Method	Det. Limit	# Soil	Method	Det. Limit	NON-METALLICS	# Water	Method	Det. Limit	# Soil	Method	Det. Limit
H							Acidity						
ec. Cond.							Alkalinity (Total)						
rdness (total)							Carbonate						
S							Bicarbonate						
S							Bromide						
mperature							Chloride						
rbidity							Cyanide						
nitability							Fluoride						
orrosivity							Ammonia						
eactivity							Nitrate						
P. Tox. Extraction							TKN						
LP Extraction							Nitrite						
P. Tox. Complete							Phosphorus						
LP lete							Silica						
1/							Sulfate						
lu							Sulfide						
ntimony							Surfactants (MBAS)						
rsenic							ORGANICS						
arium							BOD						
eryllium							COD						
admium							Oil & Grease						
alcium							TOC						
hromium							TOX						
ex Chromium							TRPH						
opper							Purg. Halocarbons 2/						
on							Non-Halogenated VOCs 2/						
ead							Purgeable Arom. 2/						
agnesium							Phenols 2/						
anganese							Pesticides/PCBs 2/						
ercury							PNAs 2/						
ickel							Org. Phos. Pest. 2/						
otassium							Dioxins						
elenium							Chlor. Herb. 2/						
ilver							Volatile Organics 2/	4	8240				
odium							Semi Volatile Organics 2/						
hallium							APPENDIX IX 3/						
in							RADIONUCLIDES						
							Gross Alpha						
							Gross Beta						
riority . ollutant Metals 2/							Radium 226						
CL (HSL) Metals 2/							Radium 228						

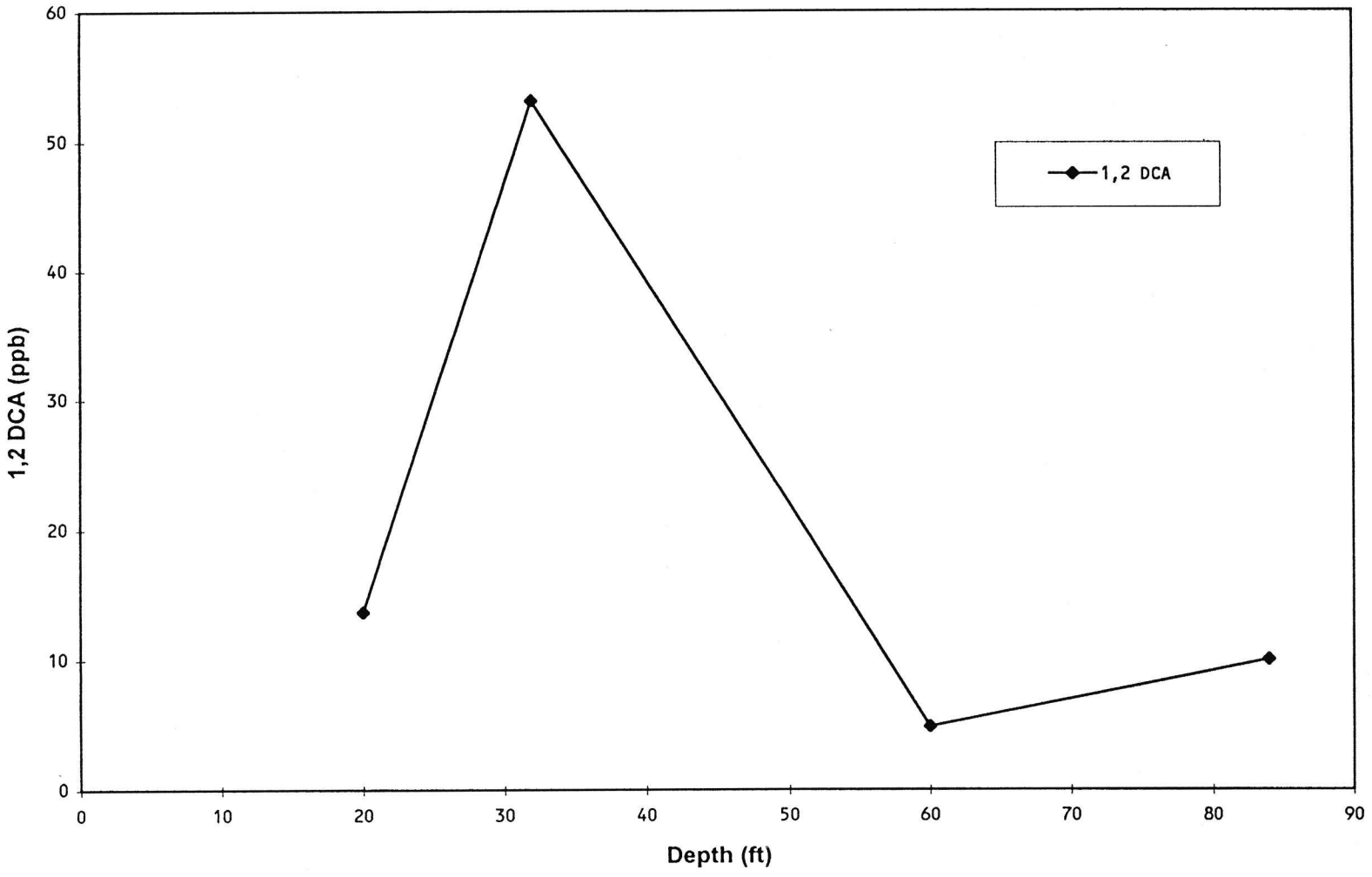
1/ Metals are Total Metals Unless Specified as Dissolved Under Special Instructions. 2/ Attach Table of Elements or Compounds to be Analyzed. 3/ Includes All Organic and Inorganic Compounds.

ecial Instructions Or Other:

APPENDIX B

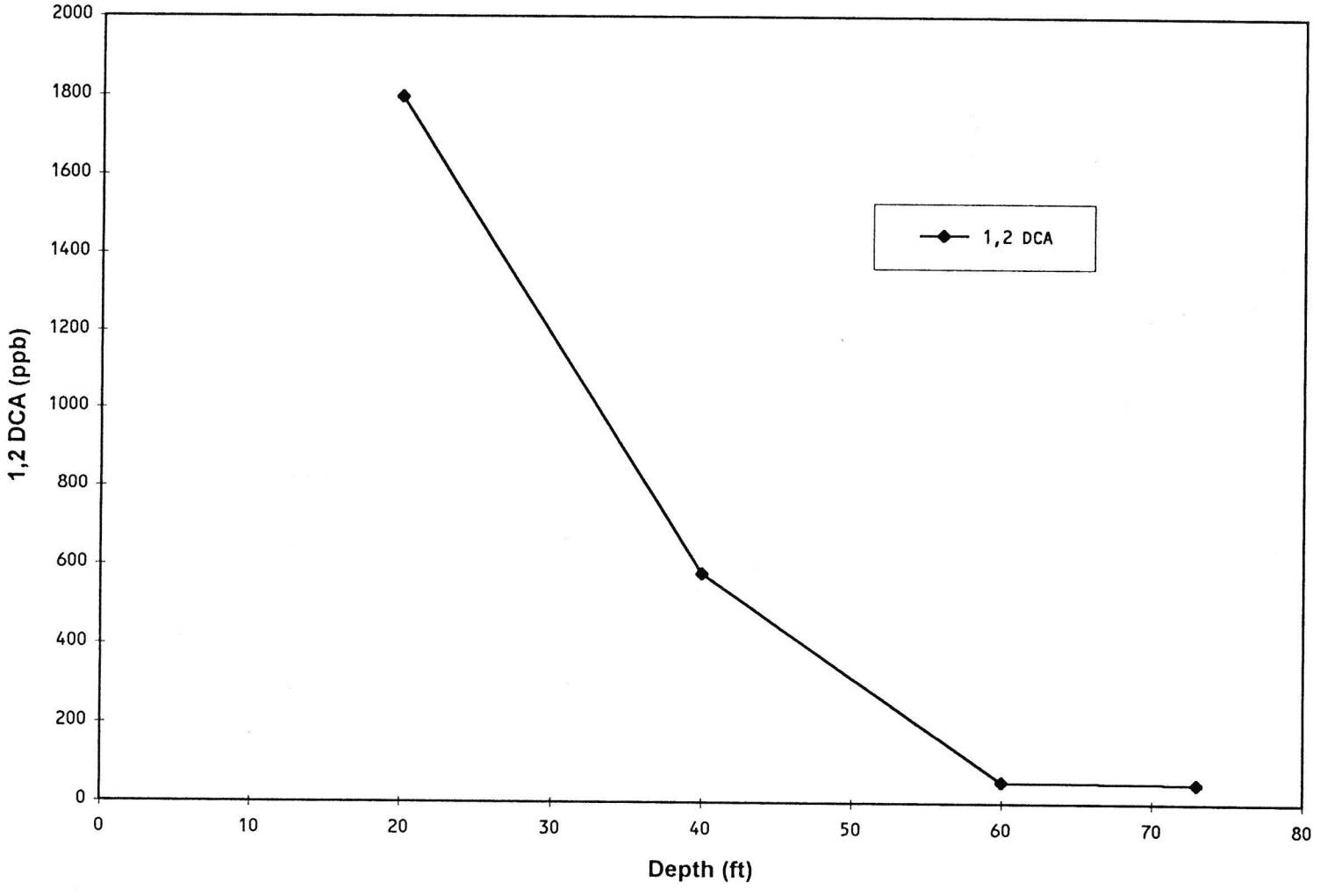
VERTICAL PROFILE GRAPHS OF 1,2-DCA CONCENTRATIONS

1,2 DCA Concentrations vs. Depth
American Cyanamifd, Hannibal, Missouri
Geoprobe Location 45



g:\staff\mpd\181001\gwchrt.xls

1,2 DCA Concentrations vs. Depth
American Cyanamid, Hannibal Missouri
Geoprobe Location 43



g:/staff/mpd/181.001/gwchart.xls