ENVIRONMENTAL PARTNERS INC
10940 NE 33rd Place Suite 110 Bellevue, Washington 98004 ph 206.889.4747 fax 206.889.4755

March 13, 1997

Ms. Sue Goertzan
Windermere Real Estate
2737 - 77th Avenue SE, Suite 100
Mercer Island, Washington 98040

Re: 2nd Quarter Ground Water Monitoring Data
6501-6515 California Avenue SW, Seattle, Washington

EPI Project No. 15103.0

Dear Ms. Goertzan:

This letter presents a summary of ground water analytical results obtained during the second quarterly monitoring sampling event at the subject property referenced above. Environmental Partners, Inc. (EPI) sampled three on-site ground water monitoring wells (MW-1, MW-2, and MW-3) on Monday, February 17, 1997. Samples obtained from these wells were analyzed for volatile organic compounds (VOCs) by Method 8260 at Analytical Resources, Inc. (ARI) of Seattle, Washington.

Ground Water Sampling Procedure

Ground water samples from all three monitoring wells were collected by hand, using a 1.66 inch by 36 inch, opaque, PVC bailer. EPI used one disposable bailer per well; each bailer was discarded upon completion of sampling.

Prior to purging and sampling each well, the depth to water and total depth of the well was measured. Measurements were made using a Solinst electronic water level meter. To ensure reproducibility of the data, all measurements were made to a specific mark on the top surface of the PVC well casing. These measurements were used to determine the volume of water that would be purged from the well prior to the collection of ground water samples. The measurements were also used to determine the orientation of the water table, which will be discussed in more detail below.

Based on the initial measurements taken at each well, a purge volume equal to three times the volume of water contained within the well was calculated. Purging continued until the calculated purge volume was removed from the well. Field measurements of pH, conductivity, and temperature were collected as purging progressed (Table 1).

Table 1
Ground Water pH, Conductivity, and Temperature
(February 17, 1997)

Well Name	Purge Volume (gallons)	pH	Conductivity (μmhos/cm)	Temperature (Fahrenheit)
MW-1	0.75	6.02	298	58.8
	1.5	6.09	291	56.3
	2.25	6.19	284	55.7
MW-2	0.75	6.48	223	53.1
	1.5	6.47	240	53.0
	2.25	6.41	240	52.9
MW-3	1.0	6.72	301	52.9
	2.0	6.72	282	52.8
	3.0	6.64	290	52.7

At each well, ground water samples were extracted using the same bailer that was used for purging. All ground water samples were placed into appropriate sample containers, recorded on a chain of custody, placed in a chilled ice chest, and hand delivered by EPI to ARI. Ground water samples were analyzed for VOCs by Method 8260.

Site Hydrogeology

During the first quarterly monitoring event, which occurred in October of 1996, ground water at the subject property was determined to flow in a general southeasterly direction. A similar direction of ground water flow was identified during the second quarterly monitoring event (February 17, 1997). Water table elevations were observed to have increased between 0.16 foot (at MW-1) and 0.58 foot (at MW-2) between the first and second quarters. The attached Potentiometric Surface Map graphically shows the direction of ground water flow observed at the subject property during the February, 1997 sampling round.

Analytical Results

Table 2 contains a summary of analytes that were detected during the second round of quarterly monitoring. It should be noted that the results of the first round of quarterly monitoring have also been provided in Table 2 to allow a direct comparison of results between the two sampling events. A complete copy of ARI's analytical data package is included as Attachment A to this letter.

Table 2
Detected Analytes in Ground Water (µg/l)

Detected Analyte	MW-1		MW-2		MW-3		Cleanup Level *
	Oct. 1996	Feb. 1997	Oct. 1996	Feb. 1997	Oct. 1996	Feb. 1997	
Tetrachloroethene	6.0	5.5	nd	nd	34	45	5.0

* Washington State Model Toxics Control Act (MTCA) Method A Cleanup Level for Ground Water.
nd Analyte not detected above applicable method detection limit.
Note: Shaded table cells indicate the most recent (February, 1997) sampling results.

The results of both the first (October, 1996) and second (February, 1997) rounds of sampling indicate that, in wells MW-1 and MW-3, tetrachloroethene is present at concentrations above the Ecology Method A Ground Water Cleanup Level.

EPI is currently awaiting a copy of a Phase I Environmental Site Assessment Report pertaining to the subject property. Once this report arrives, it will be reviewed and compared to the analytical results obtained to-date at the subject property to determine whether, and if so, where, additional monitoring points should be added at the site. The third quarterly sampling event will be conducted in early May, 1997.

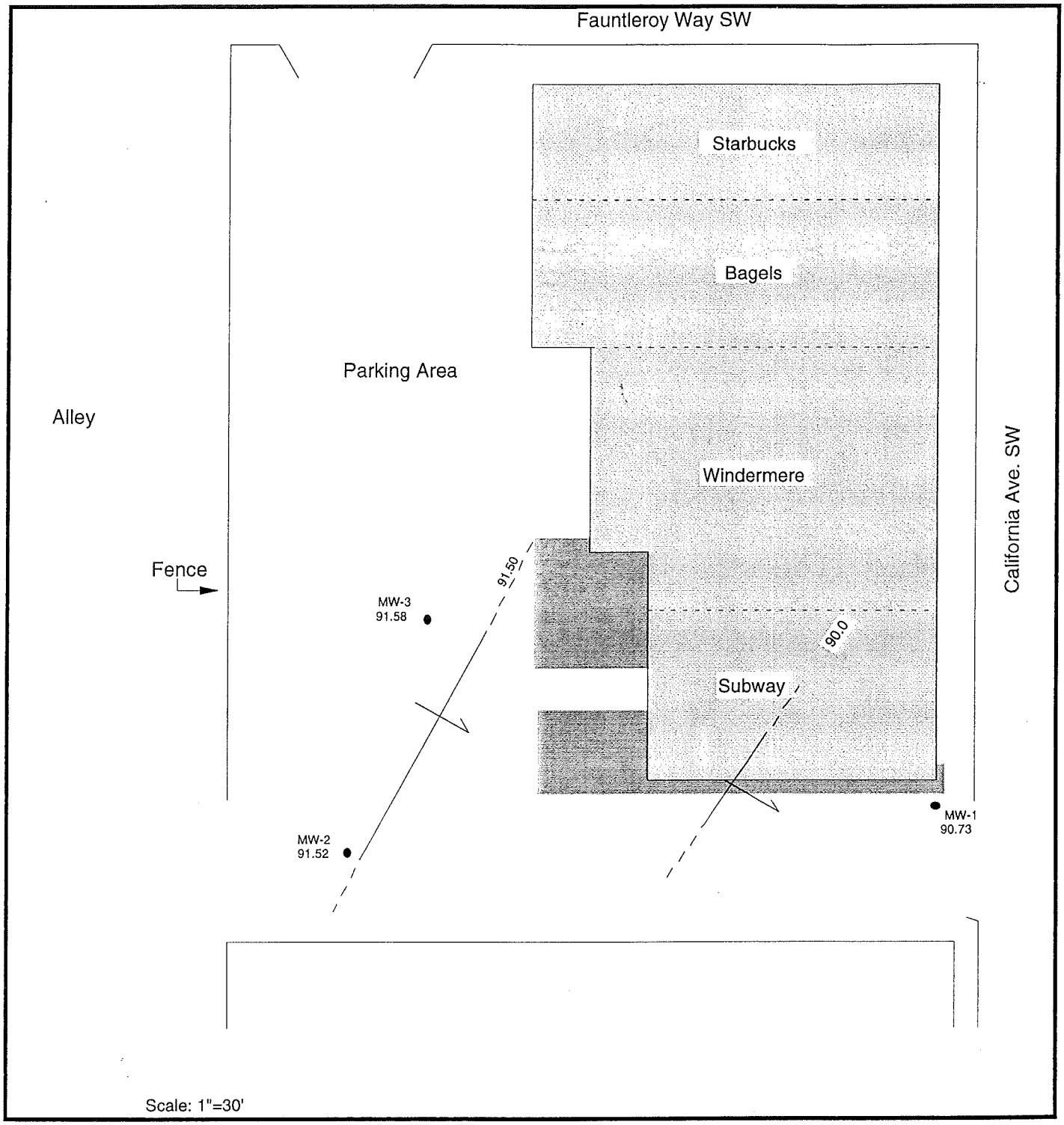
It is our pleasure to provide this service for you. If you have any questions regarding the information in this letter or about the project in general, please call me at (206) 889-4747.

Sincerely,

Don Harnden
Project Manager

Enc: Potentiometric Surface Map
Attachment A: Laboratory Data Sheets

cc: Mr. Louis Perez - Bank of California
Ms. Emily DiLaura - Bank of California
Mr. Ching Pi Wang - Department of Ecology



ENVIRONMENTAL PARTNERS INC

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Date: March 13, 1997
EPI Project No: 15103.0

Potentiometric Surface Map
Sue Goertzen Property
6501-6515 California Ave. SW
Seattle, WA
February, 1997

Key:

91.50 - Groundwater Contour Elevation

- Groundwater Flow Direction

Attachment A
Laboratory Data Sheets

Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 26, 1997

Don Harnden
Environmental Partners
10940 NE 33rd Place, Suite 110
Bellevue, WA 98004

Re: Project: 15103.0
ARI Job No. R672

Dear Don:

Please find enclosed the original Chain-of-Custody record (COC) and final results for samples from the project referenced above. Analytical Resources, Inc. accepted three water samples and one trip blank in good condition on February 17, 1997. The samples were analyzed for VOAs by Method 8260 as requested.

There were no problems with these analyses.

A copy of the results and all raw data will remain on file at ARI. Should you have questions or require further information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Mark D. Harris
Project Manager
(206) 340-2866 x-113

Enclosures

cc: Files R672

MDH/mdh

Chain of Custody Record & Laboratory Analysis Request

Date: 2/17/97
Page 1 of 1
Number of coolers: 1
Cooler Temp:
Rad. Survey:

Analytical Resources, Incorporated
Analytical Chemist and Consultants
400 Ninth Avenue North
Seattle, WA 98109-4708
(206) 621-6490
(206) 621-7523 (Fax)

R612

ARI Client: EPI Phone#: 889-4747

Client Contact: DON HARNDEN

Client Project ID: 15103.0

Samplers: ERIC KOLTES

	Sample ID	Date	Time	Matx	No Cont	Lab ID	Analysis Required: VOA (8260)								Notes/Comments
1	MW-1	2/17/97	0950	H_2O	3		X								
2	MW-2	2/17/97	1025	H_2O	3		X								
3	MW-3	2/17/97	1050	H_2O	3		X								
4															
5															
6															
7															

ARI Project No:

Comments/Special Instructions:

Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)
Printed Name: ERIC KOLTES	Printed Name:	Printed Name:
Company: EPI	Company:	Company:
Date: 2/17/97 Time: 1200	Date: Time:	Date: Time:
Received by: (Signature)	**Received by: (Signature)**	**Received by: (Signature)**
Printed Name: JASON SOLAS	Printed Name:	Printed Name:
Company: ARI	Company:	Company:
Date: 2/17/97 Time: 1200	Date: Time:	Date: Time:

ANALYTICAL
RESOURCES
INCORPORATED

Analytical
Chemists &
Consultants

333 Ninth Ave. North
Seattle, WA 98109-5187
(206) 621-6490
(206) 621-7523 (FAX)

ORGANIC COMPOUND
DATA REPORTING QUALIFIERS

U Indicates the compound was analyzed for, but not detected at the given detection limit.

J Indicates an estimated value when the result is less than the calculated detection limit.

D Indicates the surrogate/spike(s) was not detected, due to dilution of extract.

NR Indicates the surrogate recovery cannot be reported due to matrix interference.

E Indicates a value above the linear range of the detector. Sample dilution required.

S Indicates no value reported due to saturation of the detector. Dilution required.

Y Indicates a raised detection limit due to matrix interferences.

NA Indicates compound was not analyzed.

M Indicates an estimated value of analyte found and confirmed by analyst but with low spectral match.

B Indicates compound was found in the associated method blank.

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: Method Blank

Lab Sample ID: 022197MB
LIMS ID: 97-2151
Matrix: Water
Data Release Authorized:
Reported: 02/26/97

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Sampled: NA
Date Received: NA

Instrument: FINN3
Date Analyzed: 02/21/97

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	2.0 U
74-83-9	Bromomethane	2.0 U
75-01-4	Vinyl Chloride	2.0 U
75-00-3	Chloroethane	2.0 U
75-09-2	Methylene Chloride	2.0 U
67-64-1	Acetone	5.0 U
75-15-0	Carbon Disulfide	1.0 U
75-35-4	1,1-Dichloroethene	1.0 U
75-34-3	1,1-Dichloroethane	1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0 U
67-66-3	Chloroform	1.0 U
107-06-2	1,2-Dichloroethane	1.0 U
78-93-3	2-Butanone	5.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	1.0 U
108-05-4	Vinyl Acetate	5.0 U
75-27-4	Bromodichloromethane	1.0 U
78-87-5	1,2-Dichloropropane	1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0 U
79-01-6	Trichloroethene	1.0 U
124-48-1	Dibromochloromethane	1.0 U
79-00-5	1,1,2-Trichloroethane	1.0 U
71-43-2	Benzene	1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0 U
110-75-8	2-Chloroethylvinylether	5.0 U
75-25-2	Bromoform	1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0 U
591-78-6	2-Hexanone	5.0 U
127-18-4	Tetrachloroethene	1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U
108-88-3	Toluene	1.0 U
108-90-7	Chlorobenzene	1.0 U
100-41-4	Ethylbenzene	1.0 U
100-42-5	Styrene	1.0 U
75-69-4	Trichlorofluoromethane	2.0 U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.0 U
	m,p-Xylene	1.0 U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: Method Blank

Lab Sample ID: 022197MB
LIMS ID: 97-2151
Matrix: Water
Data Release Authorized: KSP
Reported: 02/26/97

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Sampled: NA
Date Received: NA

Instrument: FINN3
Date Analyzed: 02/21/97

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	O-Xylene	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
107-02-8	Acrolein	50 U
74-88-4	Methyl Iodide	1.0 U
74-96-4	Bromoethane	2.0 U
107-13-1	Acrylonitrile	5.0 U
563-58-6	1,1-Dichloropropene	1.0 U
74-95-3	Dibromomethane	1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U
96-18-4	1,2,3-Trichloropropane	1.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0 U
87-68-3	Hexachlorobutadiene	5.0 U
106-93-4	Ethylene Dibromide	1.0 U
74-97-5	Bromochloromethane	1.0 U
590-20-7	2,2-Dichloropropane	1.0 U
142-28-9	1,3-Dichloropropane	1.0 U
98-82-8	Isopropylbenzene	1.0 U
103-65-1	n-Propylbenzene	1.0 U
108-86-1	Bromobenzene	1.0 U
95-49-8	2-Chlorotoluene	1.0 U
106-43-4	4-Chlorotoluene	1.0 U
98-06-6	tert-Butylbenzene	1.0 U
135-98-8	sec-Butylbenzene	1.0 U
99-87-6	4-Isopropyltoluene	1.0 U
104-51-8	n-Butylbenzene	1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0 U
91-20-3	Naphthalene	5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0 U

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	107%
d8-Toluene	103%
Bromofluorobenzene	106%
d4-1,2-Dichlorobenzene	101%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: Method Blank

Lab Sample ID: 022297MB
LIMS ID: 97-2150
Matrix: Water
Data Release Authorized: BMS
Reported: 02/26/97

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Sampled: NA
Date Received: NA

Instrument: FINN3
Date Analyzed: 02/22/97

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	2.0 U
74-83-9	Bromomethane	2.0 U
75-01-4	Vinyl Chloride	2.0 U
75-00-3	Chloroethane	2.0 U
75-09-2	Methylene Chloride	2.0 U
67-64-1	Acetone	5.0 U
75-15-0	Carbon Disulfide	1.0 U
75-35-4	1,1-Dichloroethene	1.0 U
75-34-3	1,1-Dichloroethane	1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0 U
67-66-3	Chloroform	1.0 U
107-06-2	1,2-Dichloroethane	1.0 U
78-93-3	2-Butanone	5.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	1.0 U
108-05-4	Vinyl Acetate	5.0 U
75-27-4	Bromodichloromethane	1.0 U
78-87-5	1,2-Dichloropropane	1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0 U
79-01-6	Trichloroethene	1.0 U
124-48-1	Dibromochloromethane	1.0 U
79-00-5	1,1,2-Trichloroethane	1.0 U
71-43-2	Benzene	1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0 U
110-75-8	2-Chloroethylvinylether	5.0 U
75-25-2	Bromoform	1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0 U
591-78-6	2-Hexanone	5.0 U
127-18-4	Tetrachloroethene	1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U
108-88-3	Toluene	1.0 U
108-90-7	Chlorobenzene	1.0 U
100-41-4	Ethylbenzene	1.0 U
100-42-5	Styrene	1.0 U
75-69-4	Trichlorofluoromethane	2.0 U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.0 U
	m,p-Xylene	1.0 U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: Method Blank

Lab Sample ID: 022297MB
LIMS ID: 97-2150
Matrix: Water
Data Release Authorized:
Reported: 02/26/97

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Sampled: NA
Date Received: NA

Instrument: FINN3
Date Analyzed: 02/22/97

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	O-Xylene	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
107-02-8	Acrolein	50 U
74-88-4	Methyl Iodide	1.0 U
74-96-4	Bromoethane	2.0 U
107-13-1	Acrylonitrile	5.0 U
563-58-6	1,1-Dichloropropene	1.0 U
74-95-3	Dibromomethane	1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U
96-18-4	1,2,3-Trichloropropane	1.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0 U
87-68-3	Hexachlorobutadiene	5.0 U
106-93-4	Ethylene Dibromide	1.0 U
74-97-5	Bromochloromethane	1.0 U
590-20-7	2,2-Dichloropropane	1.0 U
142-28-9	1,3-Dichloropropane	1.0 U
98-82-8	Isopropylbenzene	1.0 U
103-65-1	n-Propylbenzene	1.0 U
108-86-1	Bromobenzene	1.0 U
95-49-8	2-Chlorotoluene	1.0 U
106-43-4	4-Chlorotoluene	1.0 U
98-06-6	tert-Butylbenzene	1.0 U
135-98-8	sec-Butylbenzene	1.0 U
99-87-6	4-Isopropyltoluene	1.0 U
104-51-8	n-Butylbenzene	1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0 U
91-20-3	Naphthalene	5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0 U

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	100%
d8-Toluene	102%
Bromofluorobenzene	96.6%
d4-1,2-Dichlorobenzene	103%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS
Page 1 of 2

ANALYTICAL RESOURCES INCORPORATED

Sample No: Method Blank

Lab Sample ID: 022497MB
LIMS ID: 97-2149
Matrix: Water
Data Release Authorized: BMB
Reported: 02/26/97

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Sampled: NA
Date Received: NA

Instrument: FINN3
Date Analyzed: 02/24/97

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	2.0 U
74-83-9	Bromomethane	2.0 U
75-01-4	Vinyl Chloride	2.0 U
75-00-3	Chloroethane	2.0 U
75-09-2	Methylene Chloride	2.0 U
67-64-1	Acetone	5.0 U
75-15-0	Carbon Disulfide	1.0 U
75-35-4	1,1-Dichloroethene	1.0 U
75-34-3	1,1-Dichloroethane	1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0 U
67-66-3	Chloroform	1.0 U
107-06-2	1,2-Dichloroethane	1.0 U
78-93-3	2-Butanone	5.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	1.0 U
108-05-4	Vinyl Acetate	5.0 U
75-27-4	Bromodichloromethane	1.0 U
78-87-5	1,2-Dichloropropane	1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0 U
79-01-6	Trichloroethene	1.0 U
124-48-1	Dibromochloromethane	1.0 U
79-00-5	1,1,2-Trichloroethane	1.0 U
71-43-2	Benzene	1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0 U
110-75-8	2-Chloroethylvinylether	5.0 U
75-25-2	Bromoform	1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0 U
591-78-6	2-Hexanone	5.0 U
127-18-4	Tetrachloroethene	1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U
108-88-3	Toluene	1.0 U
108-90-7	Chlorobenzene	1.0 U
100-41-4	Ethylbenzene	1.0 U
100-42-5	Styrene	1.0 U
75-69-4	Trichlorofluoromethane	2.0 U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.0 U
	m,p-Xylene	1.0 U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: Method Blank

Lab Sample ID: 022497MB
LIMS ID: 97-2149
Matrix: Water
Data Release Authorized: AMB
Reported: 02/26/97

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Sampled: NA
Date Received: NA

Instrument: FINN3
Date Analyzed: 02/24/97

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	O-Xylene	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
107-02-8	Acrolein	50 U
74-88-4	Methyl Iodide	1.0 U
74-96-4	Bromoethane	2.0 U
107-13-1	Acrylonitrile	5.0 U
563-58-6	1,1-Dichloropropene	1.0 U
74-95-3	Dibromomethane	1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U
96-18-4	1,2,3-Trichloropropane	1.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0 U
87-68-3	Hexachlorobutadiene	5.0 U
106-93-4	Ethylene Dibromide	1.0 U
74-97-5	Bromochloromethane	1.0 U
590-20-7	2,2-Dichloropropane	1.0 U
142-28-9	1,3-Dichloropropane	1.0 U
98-82-8	Isopropylbenzene	1.0 U
103-65-1	n-Propylbenzene	1.0 U
108-86-1	Bromobenzene	1.0 U
95-49-8	2-Chlorotoluene	1.0 U
106-43-4	4-Chlorotoluene	1.0 U
98-06-6	tert-Butylbenzene	1.0 U
135-98-8	sec-Butylbenzene	1.0 U
99-87-6	4-Isopropyltoluene	1.0 U
104-51-8	n-Butylbenzene	1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0 U
91-20-3	Naphthalene	5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0 U

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	102%
d8-Toluene	100%
Bromofluorobenzene	101%
d4-1,2-Dichlorobenzene	102%

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: MW-1

Lab Sample ID: R672A
LIMS ID: 97-2148
Matrix: Water
Data Release Authorized: [signature]
Reported: 02/26/97

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Sampled: 02/17/97
Date Received: 02/17/97

Instrument: FINN3
Date Analyzed: 02/21/97

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	2.0 U
74-83-9	Bromomethane	2.0 U
75-01-4	Vinyl Chloride	2.0 U
75-00-3	Chloroethane	2.0 U
75-09-2	Methylene Chloride	2.0 U
67-64-1	Acetone	5.0 U
75-15-0	Carbon Disulfide	1.0 U
75-35-4	1,1-Dichloroethene	1.0 U
75-34-3	1,1-Dichloroethane	1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0 U
67-66-3	Chloroform	1.0 U
107-06-2	1,2-Dichloroethane	1.0 U
78-93-3	2-Butanone	5.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	1.0 U
108-05-4	Vinyl Acetate	5.0 U
75-27-4	Bromodichloromethane	1.0 U
78-87-5	1,2-Dichloropropane	1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0 U
79-01-6	Trichloroethene	1.0 U
124-48-1	Dibromochloromethane	1.0 U
79-00-5	1,1,2-Trichloroethane	1.0 U
71-43-2	Benzene	1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0 U
110-75-8	2-Chloroethylvinylether	5.0 U
75-25-2	Bromoform	1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0 U
591-78-6	2-Hexanone	5.0 U
127-18-4	**Tetrachloroethene**	**5.5**
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U
108-88-3	Toluene	1.0 U
108-90-7	Chlorobenzene	1.0 U
100-41-4	Ethylbenzene	1.0 U
100-42-5	Styrene	1.0 U
75-69-4	Trichlorofluoromethane	2.0 U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.0 U
	m,p-Xylene	1.0 U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: MW-1

Lab Sample ID: R672A
LIMS ID: 97-2148
Matrix: Water
Data Release Authorized: BJB
Reported: 02/26/97

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Sampled: 02/17/97
Date Received: 02/17/97

Instrument: FINN3
Date Analyzed: 02/21/97

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	O-Xylene	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
107-02-8	Acrolein	50 U
74-88-4	Methyl Iodide	1.0 U
74-96-4	Bromoethane	2.0 U
107-13-1	Acrylonitrile	5.0 U
563-58-6	1,1-Dichloropropene	1.0 U
74-95-3	Dibromomethane	1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U
96-18-4	1,2,3-Trichloropropane	1.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0 U
87-68-3	Hexachlorobutadiene	5.0 U
106-93-4	Ethylene Dibromide	1.0 U
74-97-5	Bromochloromethane	1.0 U
590-20-7	2,2-Dichloropropane	1.0 U
142-28-9	1,3-Dichloropropane	1.0 U
98-82-8	Isopropylbenzene	1.0 U
103-65-1	n-Propylbenzene	1.0 U
108-86-1	Bromobenzene	1.0 U
95-49-8	2-Chlorotoluene	1.0 U
106-43-4	4-Chlorotoluene	1.0 U
98-06-6	tert-Butylbenzene	1.0 U
135-98-8	sec-Butylbenzene	1.0 U
99-87-6	4-Isopropyltoluene	1.0 U
104-51-8	n-Butylbenzene	1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0 U
91-20-3	Naphthalene	5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	120%
d8-Toluene	102%
Bromofluorobenzene	96.1%
d4-1,2-Dichlorobenzene	98.4%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: MW-2

Lab Sample ID: R672B
LIMS ID: 97-2149
Matrix: Water
Data Release Authorized:
Reported: 02/26/97

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Sampled: 02/17/97
Date Received: 02/17/97

Instrument: FINN3
Date Analyzed: 02/22/97

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	2.0 U
74-83-9	Bromomethane	2.0 U
75-01-4	Vinyl Chloride	2.0 U
75-00-3	Chloroethane	2.0 U
75-09-2	Methylene Chloride	2.0 U
67-64-1	Acetone	5.0 U
75-15-0	Carbon Disulfide	1.0 U
75-35-4	1,1-Dichloroethene	1.0 U
75-34-3	1,1-Dichloroethane	1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0 U
67-66-3	Chloroform	1.0 U
107-06-2	1,2-Dichloroethane	1.0 U
78-93-3	2-Butanone	5.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	1.0 U
108-05-4	Vinyl Acetate	5.0 U
75-27-4	Bromodichloromethane	1.0 U
78-87-5	1,2-Dichloropropane	1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0 U
79-01-6	Trichloroethene	1.0 U
124-48-1	Dibromochloromethane	1.0 U
79-00-5	1,1,2-Trichloroethane	1.0 U
71-43-2	Benzene	1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0 U
110-75-8	2-Chloroethylvinylether	5.0 U
75-25-2	Bromoform	1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0 U
591-78-6	2-Hexanone	5.0 U
127-18-4	Tetrachloroethene	1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U
108-88-3	Toluene	1.0 U
108-90-7	Chlorobenzene	1.0 U
100-41-4	Ethylbenzene	1.0 U
100-42-5	Styrene	1.0 U
75-69-4	Trichlorofluoromethane	2.0 U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.0 U
	m,p-Xylene	1.0 U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: MW-2

Lab Sample ID: R672B
LIMS ID: 97-2149
Matrix: Water
Data Release Authorized: BMB
Reported: 02/26/97

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Sampled: 02/17/97
Date Received: 02/17/97

Instrument: FINN3
Date Analyzed: 02/22/97

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	O-Xylene	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
107-02-8	Acrolein	50 U
74-88-4	Methyl Iodide	1.0 U
74-96-4	Bromoethane	2.0 U
107-13-1	Acrylonitrile	5.0 U
563-58-6	1,1-Dichloropropene	1.0 U
74-95-3	Dibromomethane	1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U
96-18-4	1,2,3-Trichloropropane	1.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0 U
87-68-3	Hexachlorobutadiene	5.0 U
106-93-4	Ethylene Dibromide	1.0 U
74-97-5	Bromochloromethane	1.0 U
590-20-7	2,2-Dichloropropane	1.0 U
142-28-9	1,3-Dichloropropane	1.0 U
98-82-8	Isopropylbenzene	1.0 U
103-65-1	n-Propylbenzene	1.0 U
108-86-1	Bromobenzene	1.0 U
95-49-8	2-Chlorotoluene	1.0 U
106-43-4	4-Chlorotoluene	1.0 U
98-06-6	tert-Butylbenzene	1.0 U
135-98-8	sec-Butylbenzene	1.0 U
99-87-6	4-Isopropyltoluene	1.0 U
104-51-8	n-Butylbenzene	1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0 U
91-20-3	Naphthalene	5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0 U

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	105%
d8-Toluene	97.5%
Bromofluorobenzene	94.2%
d4-1,2-Dichlorobenzene	106%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: MW-2
MATRIX SPIKE

Lab Sample ID: R672B-MS
LIMS ID: 97-2149
Matrix: Water
Data Release Authorized: BKB
Reported: 02/26/97

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Sampled: 02/17/97
Date Received: 02/17/97

Instrument: FINN3
Date Analyzed: 02/24/97

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	---
74-83-9	Bromomethane	---
75-01-4	Vinyl Chloride	---
75-00-3	Chloroethane	---
75-09-2	Methylene Chloride	---
67-64-1	Acetone	---
75-15-0	Carbon Disulfide	---
75-35-4	1,1-Dichloroethene	---
75-34-3	1,1-Dichloroethane	---
156-60-5	trans-1,2-Dichloroethene	---
156-59-2	cis-1,2-Dichloroethene	---
67-66-3	Chloroform	---
107-06-2	1,2-Dichloroethane	---
78-93-3	2-Butanone	---
71-55-6	1,1,1-Trichloroethane	---
56-23-5	Carbon Tetrachloride	---
108-05-4	Vinyl Acetate	---
75-27-4	Bromodichloromethane	---
78-87-5	1,2-Dichloropropane	---
10061-01-5	cis-1,3-Dichloropropene	---
79-01-6	Trichloroethene	---
124-48-1	Dibromochloromethane	---
79-00-5	1,1,2-Trichloroethane	---
71-43-2	Benzene	---
10061-02-6	trans-1,3-Dichloropropene	---
110-75-8	2-Chloroethylvinylether	---
75-25-2	Bromoform	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	---
591-78-6	2-Hexanone	---
127-18-4	Tetrachloroethene	---
79-34-5	1,1,2,2-Tetrachloroethane	---
108-88-3	Toluene	---
108-90-7	Chlorobenzene	---
100-41-4	Ethylbenzene	---
100-42-5	Styrene	---
75-69-4	Trichlorofluoromethane	---
76-13-1	1,1,2-Trichlorotrifluoroethane	---
	m,p-Xylene	---

ANALYTICAL
RESOURCES
INCORPORATED

Sample No: MW-2
MATRIX SPIKE

Lab Sample ID: R672B-MS
LIMS ID: 97-2149
Matrix: Water
Data Release Authorized: BMB
Reported: 02/26/97

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Sampled: 02/17/97
Date Received: 02/17/97

Instrument: FINN3
Date Analyzed: 02/24/97

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	O-Xylene	---
95-50-1	1,2-Dichlorobenzene	---
541-73-1	1,3-Dichlorobenzene	---
106-46-7	1,4-Dichlorobenzene	---
107-02-8	Acrolein	---
74-88-4	Methyl Iodide	---
74-96-4	Bromoethane	---
107-13-1	Acrylonitrile	---
563-58-6	1,1-Dichloropropene	---
74-95-3	Dibromomethane	---
630-20-6	1,1,1,2-Tetrachloroethane	---
96-12-8	1,2-Dibromo-3-chloropropane	---
96-18-4	1,2,3-Trichloropropane	---
110-57-6	trans-1,4-Dichloro-2-butene	---
108-67-8	1,3,5-Trimethylbenzene	---
95-63-6	1,2,4-Trimethylbenzene	---
87-68-3	Hexachlorobutadiene	---
106-93-4	Ethylene Dibromide	---
74-97-5	Bromochloromethane	---
590-20-7	2,2-Dichloropropane	---
142-28-9	1,3-Dichloropropane	---
98-82-8	Isopropylbenzene	---
103-65-1	n-Propylbenzene	---
108-86-1	Bromobenzene	---
95-49-8	2-Chlorotoluene	---
106-43-4	4-Chlorotoluene	---
98-06-6	tert-Butylbenzene	---
135-98-8	sec-Butylbenzene	---
99-87-6	4-Isopropyltoluene	---
104-51-8	n-Butylbenzene	---
120-82-1	1,2,4-Trichlorobenzene	---
91-20-3	Naphthalene	---
87-61-6	1,2,3-Trichlorobenzene	---

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	107%
d8-Toluene	104%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: MW-2 SPIKE DUPLICATE

Lab Sample ID: R672B-MSD
LIMS ID: 97-2149
Matrix: Water
Data Release Authorized: [signature]
Reported: 02/26/97

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Sampled: 02/17/97
Date Received: 02/17/97

Instrument: FINN3
Date Analyzed: 02/24/97

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	---
74-83-9	Bromomethane	---
75-01-4	Vinyl Chloride	---
75-00-3	Chloroethane	---
75-09-2	Methylene Chloride	---
67-64-1	Acetone	---
75-15-0	Carbon Disulfide	---
75-35-4	1,1-Dichloroethene	---
75-34-3	1,1-Dichloroethane	---
156-60-5	trans-1,2-Dichloroethene	---
156-59-2	cis-1,2-Dichloroethene	---
67-66-3	Chloroform	---
107-06-2	1,2-Dichloroethane	---
78-93-3	2-Butanone	---
71-55-6	1,1,1-Trichloroethane	---
56-23-5	Carbon Tetrachloride	---
108-05-4	Vinyl Acetate	---
75-27-4	Bromodichloromethane	---
78-87-5	1,2-Dichloropropane	---
10061-01-5	cis-1,3-Dichloropropene	---
79-01-6	Trichloroethene	---
124-48-1	Dibromochloromethane	---
79-00-5	1,1,2-Trichloroethane	---
71-43-2	Benzene	---
10061-02-6	trans-1,3-Dichloropropene	---
110-75-8	2-Chloroethylvinylether	---
75-25-2	Bromoform	---
108-10-1	4-Methyl-2-Pentanone (MIBK)	---
591-78-6	2-Hexanone	---
127-18-4	Tetrachloroethene	---
79-34-5	1,1,2,2-Tetrachloroethane	---
108-88-3	Toluene	---
108-90-7	Chlorobenzene	---
100-41-4	Ethylbenzene	---
100-42-5	Styrene	---
75-69-4	Trichlorofluoromethane	---
76-13-1	1,1,2-Trichlorotrifluoroethane	---
	m,p-Xylene	---

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: MW-2
SPIKE DUPLICATE

Lab Sample ID: R672B-MSD
LIMS ID: 97-2149
Matrix: Water
Data Release Authorized: CWB
Reported: 02/26/97

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Sampled: 02/17/97
Date Received: 02/17/97

Instrument: FINN3
Date Analyzed: 02/24/97

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	O-Xylene	---
95-50-1	1,2-Dichlorobenzene	---
541-73-1	1,3-Dichlorobenzene	---
106-46-7	1,4-Dichlorobenzene	---
107-02-8	Acrolein	---
74-88-4	Methyl Iodide	---
74-96-4	Bromoethane	---
107-13-1	Acrylonitrile	---
563-58-6	1,1-Dichloropropene	---
74-95-3	Dibromomethane	---
630-20-6	1,1,1,2-Tetrachloroethane	---
96-12-8	1,2-Dibromo-3-chloropropane	---
96-18-4	1,2,3-Trichloropropane	---
110-57-6	trans-1,4-Dichloro-2-butene	---
108-67-8	1,3,5-Trimethylbenzene	---
95-63-6	1,2,4-Trimethylbenzene	---
87-68-3	Hexachlorobutadiene	---
106-93-4	Ethylene Dibromide	---
74-97-5	Bromochloromethane	---
590-20-7	2,2-Dichloropropane	---
142-28-9	1,3-Dichloropropane	---
98-82-8	Isopropylbenzene	---
103-65-1	n-Propylbenzene	---
108-86-1	Bromobenzene	---
95-49-8	2-Chlorotoluene	---
106-43-4	4-Chlorotoluene	---
98-06-6	tert-Butylbenzene	---
135-98-8	sec-Butylbenzene	---
99-87-6	4-Isopropyltoluene	---
104-51-8	n-Butylbenzene	---
120-82-1	1,2,4-Trichlorobenzene	---
91-20-3	Naphthalene	---
87-61-6	1,2,3-Trichlorobenzene	---

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	103%
d8-Toluene	101%
Bromofluorobenzene	97.4%
d4-1,2-Dichlorobenzene	103%

ANALYTICAL
RESOURCES
INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by GC/MS

Lab Sample ID: R672B
LIMS ID: 97-2149
Matrix: Water

Sample No: MW-2
QC Report No: R672-Environmental Partners
Project: 15103.0
Date Received: 02/17/97

Data Release Authorized: *RJB*
Reported: 02/26/97

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
Date Analyzed: 02/24/97

CONSTITUENT	SAMPLE VALUE	SPIKE VALUE	SPIKE AMT	% RECOVERY	RPD
MATRIX SPIKE					
Chloromethane	< 2.0	48.0	50.0	96.0%	
Bromomethane	< 2.0	45.7	50.0	91.4%	
Vinyl Chloride	< 2.0	51.6	50.0	103%	
Chloroethane	< 2.0	48.6	50.0	97.2%	
Methylene Chloride	< 2.0	49.0	50.0	98.0%	
Acetone	< 5.0	226	250	90.4%	
Carbon Disulfide	< 1.0	42.5	50.0	85.0%	
1,1-Dichloroethene	< 1.0	46.6	50.0	93.2%	
1,1-Dichloroethane	< 1.0	48.5	50.0	97.0%	
trans-1,2-Dichloroethene	< 1.0	44.3	50.0	88.6%	
cis-1,2-Dichloroethene	< 1.0	53.5	50.0	107%	
Chloroform	< 1.0	50.7	50.0	101%	
1,2-Dichloroethane	< 1.0	52.4	50.0	105%	
2-Butanone	< 5.0	247	250	98.8%	
1,1,1-Trichloroethane	< 1.0	50.4	50.0	101%	
Carbon Tetrachloride	< 1.0	49.7	50.0	99.4%	
Vinyl Acetate	< 5.0	46.0	50.0	92.0%	
Bromodichloromethane	< 1.0	52.1	50.0	104%	
1,2-Dichloropropane	< 1.0	53.0	50.0	106%	
cis-1,3-Dichloropropene	< 1.0	52.4	50.0	105%	
Trichloroethene	< 1.0	50.4	50.0	101%	
Dibromochloromethane	< 1.0	48.0	50.0	96.0%	
1,1,2-Trichloroethane	< 1.0	53.2	50.0	106%	
Benzene	< 1.0	50.1	50.0	100%	
trans-1,3-Dichloropropene	< 1.0	54.4	50.0	109%	
2-Chloroethylvinylether	< 5.0	< 5.0	50.0	NA	
Bromoform	< 1.0	45.2	50.0	90.4%	
4-Methyl-2-Pentanone (MIBK)	< 5.0	258	250	103%	
2-Hexanone	< 5.0	254	250	102%	
Tetrachloroethene	< 1.0	46.9	50.0	93.8%	
1,1,2,2-Tetrachloroethane	< 1.0	50.6	50.0	101%	
Toluene	< 1.0	51.3	50.0	103%	
Chlorobenzene	< 1.0	50.5	50.0	101%	
Ethylbenzene	< 1.0	49.3	50.0	98.6%	
Styrene	< 1.0	49.7	50.0	99.4%	
Trichlorofluoromethane	< 2.0	45.8	50.0	91.6%	

Reported in ug/L

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: R672B
LIMS ID: 97-2149
Matrix: Water

Sample No: MW-2
QC Report No: R672-Environmental Partners
Project: 15103.0
Date Received: 02/17/97

Data Release Authorized: EAB
Reported: 02/26/97

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
Date Analyzed: 02/24/97

CONSTITUENT	SAMPLE VALUE	SPIKE VALUE	SPIKE AMT	% RECOVERY	RPD
MATRIX SPIKE					
1,1,2-Trichlorotrifluoroethane	< 2.0	44.0	50.0	88.0%	
m,p-Xylene	< 1.0	98.4	100	98.4%	
O-Xylene	< 1.0	50.1	50.0	100%	
1,2-Dichlorobenzene	< 1.0	49.3	50.0	98.6%	
1,3-Dichlorobenzene	< 1.0	48.8	50.0	97.6%	
1,4-Dichlorobenzene	< 1.0	48.8	50.0	97.6%	
Acrolein	< 50.0	228	250	91.2%	
Methyl Iodide	< 1.0	47.9	50.0	95.8%	
Bromoethane	< 2.0	46.0	50.0	92.0%	
Acrylonitrile	< 5.0	48.7	50.0	97.4%	
1,1-Dichloropropene	< 1.0	51.1	50.0	102%	
Dibromomethane	< 1.0	51.8	50.0	104%	
1,1,1,2-Tetrachloroethane	< 1.0	50.6	50.0	101%	
1,2-Dibromo-3-chloropropane	< 5.0	53.5	50.0	107%	
1,2,3-Trichloropropane	< 1.0	51.1	50.0	102%	
trans-1,4-Dichloro-2-butene	< 5.0	48.1	50.0	96.2%	
1,3,5-Trimethylbenzene	< 1.0	48.0	50.0	96.0%	
1,2,4-Trimethylbenzene	< 1.0	48.8	50.0	97.6%	
Hexachlorobutadiene	< 5.0	46.7	50.0	93.4%	
Ethylene Dibromide	< 1.0	53.7	50.0	107%	
Bromochloromethane	< 1.0	48.8	50.0	97.6%	
2,2-Dichloropropane	< 1.0	47.2	50.0	94.4%	
1,3-Dichloropropane	< 1.0	51.5	50.0	103%	
Isopropylbenzene	< 1.0	48.9	50.0	97.8%	
n-Propylbenzene	< 1.0	47.9	50.0	95.8%	
Bromobenzene	< 1.0	48.1	50.0	96.2%	
2-Chlorotoluene	< 1.0	47.3	50.0	94.6%	
4-Chlorotoluene	< 1.0	50.8	50.0	102%	
tert-Butylbenzene	< 1.0	48.5	50.0	97.0%	
sec-Butylbenzene	< 1.0	50.8	50.0	102%	
4-Isopropyltoluene	< 1.0	49.2	50.0	98.4%	
n-Butylbenzene	< 1.0	48.8	50.0	97.6%	
1,2,4-Trichlorobenzene	< 5.0	47.7	50.0	95.4%	
Naphthalene	< 5.0	49.9	50.0	99.8%	
1,2,3-Trichlorobenzene	< 5.0	47.6	50.0	95.2%	

Reported in ug/L

ORGANICS ANALYSIS DATA SHEET
Volatiles by GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: R672B
LIMS ID: 97-2149
Matrix: Water

Sample No: MW-2
QC Report No: R672-Environmental Partners
Project: 15103.0
Date Received: 02/17/97

Data Release Authorized:
Reported: 02/26/97

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY
Date Analyzed: 02/24/97

CONSTITUENT	SAMPLE VALUE	SPIKE VALUE	SPIKE AMT	% RECOVERY	RPD
MATRIX SPIKE DUPLICATE					
Chloromethane	< 2.0	44.5	50.0	89.0%	7.6%
Bromomethane	< 2.0	39.4	50.0	78.8%	15%
Vinyl Chloride	< 2.0	47.0	50.0	94.0%	9.3%
Chloroethane	< 2.0	43.3	50.0	86.6%	12%
Methylene Chloride	< 2.0	45.7	50.0	91.4%	7.0%
Acetone	< 5.0	255	250	102%	12%
Carbon Disulfide	< 1.0	35.8	50.0	71.6%	17%
1,1-Dichloroethene	< 1.0	40.4	50.0	80.8%	14%
1,1-Dichloroethane	< 1.0	46.2	50.0	92.4%	4.9%
trans-1,2-Dichloroethene	< 1.0	40.7	50.0	81.4%	8.5%
cis-1,2-Dichloroethene	< 1.0	50.8	50.0	102%	4.8%
Chloroform	< 1.0	45.9	50.0	91.8%	9.9%
1,2-Dichloroethane	< 1.0	47.5	50.0	95.0%	9.8%
2-Butanone	< 5.0	280	250	112%	13%
1,1,1-Trichloroethane	< 1.0	44.9	50.0	89.8%	12%
Carbon Tetrachloride	< 1.0	43.9	50.0	87.8%	12%
Vinyl Acetate	< 5.0	45.5	50.0	91.0%	1.1%
Bromodichloromethane	< 1.0	47.0	50.0	94.0%	10%
1,2-Dichloropropane	< 1.0	50.5	50.0	101%	4.8%
cis-1,3-Dichloropropene	< 1.0	48.6	50.0	97.2%	7.5%
Trichloroethene	< 1.0	46.5	50.0	93.0%	8.0%
Dibromochloromethane	< 1.0	45.9	50.0	91.8%	4.5%
1,1,2-Trichloroethane	< 1.0	49.2	50.0	98.4%	7.8%
Benzene	< 1.0	47.3	50.0	94.6%	5.7%
trans-1,3-Dichloropropene	< 1.0	48.9	50.0	97.8%	11%
2-Chloroethylvinylether	< 5.0	< 5.0	50.0	NA	NA
Bromoform	< 1.0	44.5	50.0	89.0%	1.6%
4-Methyl-2-Pentanone (MIBK)	< 5.0	283	250	113%	9.1%
2-Hexanone	< 5.0	293	250	117%	14%
Tetrachloroethene	< 1.0	44.1	50.0	88.2%	6.2%
1,1,2,2-Tetrachloroethane	< 1.0	55.5	50.0	111%	9.2%
Toluene	< 1.0	48.1	50.0	96.2%	6.4%
Chlorobenzene	< 1.0	48.1	50.0	96.2%	4.9%
Ethylbenzene	< 1.0	47.1	50.0	94.2%	4.6%
Styrene	< 1.0	47.4	50.0	94.8%	4.7%
Trichlorofluoromethane	< 2.0	37.6	50.0	75.2%	20%

Reported in ug/L

ORGANICS ANALYSIS DATA SHEET
Volatiles by GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: R672B
LIMS ID: 97-2149
Matrix: Water

Sample No: MW-2
QC Report No: R672-Environmental Partners
Project: 15103.0
Date Received: 02/17/97

Data Release Authorized: DMB
Reported: 02/26/97

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Date Analyzed: 02/24/97

CONSTITUENT	SAMPLE VALUE	SPIKE VALUE	SPIKE AMT	% RECOVERY	RPD
MATRIX SPIKE DUPLICATE					
1,1,2-Trichlorotrifluoroethane	< 2.0	32.0	50.0	64.0%	32%
m,p-Xylene	< 1.0	92.2	100	92.2%	6.5%
O-Xylene	< 1.0	48.1	50.0	96.2%	4.1%
1,2-Dichlorobenzene	< 1.0	49.2	50.0	98.4%	0.2%
1,3-Dichlorobenzene	< 1.0	49.4	50.0	98.8%	1.2%
1,4-Dichlorobenzene	< 1.0	49.9	50.0	99.8%	2.2%
Acrolein	< 50.0	233	250	93.2%	2.2%
Methyl Iodide	< 1.0	43.9	50.0	87.8%	8.7%
Bromoethane	< 2.0	39.9	50.0	79.8%	14%
Acrylonitrile	< 5.0	48.3	50.0	96.6%	0.8%
1,1-Dichloropropene	< 1.0	46.4	50.0	92.8%	9.6%
Dibromomethane	< 1.0	50.0	50.0	100%	3.5%
1,1,1,2-Tetrachloroethane	< 1.0	47.2	50.0	94.4%	7.0%
1,2-Dibromo-3-chloropropane	< 5.0	60.3	50.0	121%	12%
1,2,3-Trichloropropane	< 1.0	56.0	50.0	112%	9.2%
trans-1,4-Dichloro-2-butene	< 5.0	49.0	50.0	98.0%	1.9%
1,3,5-Trimethylbenzene	< 1.0	48.5	50.0	97.0%	1.0%
1,2,4-Trimethylbenzene	< 1.0	49.0	50.0	98.0%	0.4%
Hexachlorobutadiene	< 5.0	45.4	50.0	90.8%	2.8%
Ethylene Dibromide	< 1.0	50.1	50.0	100%	7.1%
Bromochloromethane	< 1.0	46.6	50.0	93.2%	4.6%
2,2-Dichloropropane	< 1.0	42.2	50.0	84.4%	11%
1,3-Dichloropropane	< 1.0	50.5	50.0	101%	2.0%
Isopropylbenzene	< 1.0	49.4	50.0	98.8%	1.0%
n-Propylbenzene	< 1.0	48.7	50.0	97.4%	1.7%
Bromobenzene	< 1.0	50.0	50.0	100%	3.9%
2-Chlorotoluene	< 1.0	48.5	50.0	97.0%	2.5%
4-Chlorotoluene	< 1.0	51.9	50.0	104%	2.3%
tert-Butylbenzene	< 1.0	49.0	50.0	98.0%	1.0%
sec-Butylbenzene	< 1.0	50.0	50.0	100%	1.6%
4-Isopropyltoluene	< 1.0	48.8	50.0	97.6%	0.8%
n-Butylbenzene	< 1.0	47.2	50.0	94.4%	3.3%
1,2,4-Trichlorobenzene	< 5.0	47.0	50.0	94.0%	1.5%
Naphthalene	< 5.0	54.9	50.0	110%	9.7%
1,2,3-Trichlorobenzene	< 5.0	48.0	50.0	96.0%	0.8%

Reported in ug/L

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

Sample No: MW-3

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: R672C
LIMS ID: 97-2150
Matrix: Water
Data Release Authorized: [signature]
Reported: 02/26/97

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Sampled: 02/17/97
Date Received: 02/17/97

Instrument: FINN3
Date Analyzed: 02/22/97

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	2.0 U
74-83-9	Bromomethane	2.0 U
75-01-4	Vinyl Chloride	2.0 U
75-00-3	Chloroethane	2.0 U
75-09-2	Methylene Chloride	2.0 U
67-64-1	Acetone	5.0 U
75-15-0	Carbon Disulfide	1.0 U
75-35-4	1,1-Dichloroethene	1.0 U
75-34-3	1,1-Dichloroethane	1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0 U
67-66-3	Chloroform	1.0 U
107-06-2	1,2-Dichloroethane	1.0 U
78-93-3	2-Butanone	5.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	1.0 U
108-05-4	Vinyl Acetate	5.0 U
75-27-4	Bromodichloromethane	1.0 U
78-87-5	1,2-Dichloropropane	1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0 U
79-01-6	Trichloroethene	1.0 U
124-48-1	Dibromochloromethane	1.0 U
79-00-5	1,1,2-Trichloroethane	1.0 U
71-43-2	Benzene	1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0 U
110-75-8	2-Chloroethylvinylether	5.0 U
75-25-2	Bromoform	1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0 U
591-78-6	2-Hexanone	5.0 U
127-18-4	**Tetrachloroethene**	**45**
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U
108-88-3	Toluene	1.0 U
108-90-7	Chlorobenzene	1.0 U
100-41-4	Ethylbenzene	1.0 U
100-42-5	Styrene	1.0 U
75-69-4	Trichlorofluoromethane	2.0 U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.0 U
	m,p-Xylene	1.0 U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: MW-3

Lab Sample ID: R672C
LIMS ID: 97-2150
Matrix: Water
Data Release Authorized: DWB
Reported: 02/26/97

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Sampled: 02/17/97
Date Received: 02/17/97

Instrument: FINN3
Date Analyzed: 02/22/97

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	O-Xylene	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
107-02-8	Acrolein	50 U
74-88-4	Methyl Iodide	1.0 U
74-96-4	Bromoethane	2.0 U
107-13-1	Acrylonitrile	5.0 U
563-58-6	1,1-Dichloropropene	1.0 U
74-95-3	Dibromomethane	1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U
96-18-4	1,2,3-Trichloropropane	1.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0 U
87-68-3	Hexachlorobutadiene	5.0 U
106-93-4	Ethylene Dibromide	1.0 U
74-97-5	Bromochloromethane	1.0 U
590-20-7	2,2-Dichloropropane	1.0 U
142-28-9	1,3-Dichloropropane	1.0 U
98-82-8	Isopropylbenzene	1.0 U
103-65-1	n-Propylbenzene	1.0 U
108-86-1	Bromobenzene	1.0 U
95-49-8	2-Chlorotoluene	1.0 U
106-43-4	4-Chlorotoluene	1.0 U
98-06-6	tert-Butylbenzene	1.0 U
135-98-8	sec-Butylbenzene	1.0 U
99-87-6	4-Isopropyltoluene	1.0 U
104-51-8	n-Butylbenzene	1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0 U
91-20-3	Naphthalene	5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0 U

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	97.9%
d8-Toluene	100%
Bromofluorobenzene	99.5%
d4-1,2-Dichlorobenzene	96.6%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: Tripblank

Lab Sample ID: R672D
LIMS ID: 97-2151
Matrix: Water
Data Release Authorized:
Reported: 02/26/97

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Sampled: 02/07/97
Date Received: 02/17/97

Instrument: FINN3
Date Analyzed: 02/21/97

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
74-87-3	Chloromethane	2.0 U
74-83-9	Bromomethane	2.0 U
75-01-4	Vinyl Chloride	2.0 U
75-00-3	Chloroethane	2.0 U
75-09-2	Methylene Chloride	2.0 U
67-64-1	Acetone	5.0 U
75-15-0	Carbon Disulfide	1.0 U
75-35-4	1,1-Dichloroethene	1.0 U
75-34-3	1,1-Dichloroethane	1.0 U
156-60-5	trans-1,2-Dichloroethene	1.0 U
156-59-2	cis-1,2-Dichloroethene	1.0 U
67-66-3	Chloroform	1.0 U
107-06-2	1,2-Dichloroethane	1.0 U
78-93-3	2-Butanone	5.0 U
71-55-6	1,1,1-Trichloroethane	1.0 U
56-23-5	Carbon Tetrachloride	1.0 U
108-05-4	Vinyl Acetate	5.0 U
75-27-4	Bromodichloromethane	1.0 U
78-87-5	1,2-Dichloropropane	1.0 U
10061-01-5	cis-1,3-Dichloropropene	1.0 U
79-01-6	Trichloroethene	1.0 U
124-48-1	Dibromochloromethane	1.0 U
79-00-5	1,1,2-Trichloroethane	1.0 U
71-43-2	Benzene	1.0 U
10061-02-6	trans-1,3-Dichloropropene	1.0 U
110-75-8	2-Chloroethylvinylether	5.0 U
75-25-2	Bromoform	1.0 U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0 U
591-78-6	2-Hexanone	5.0 U
127-18-4	Tetrachloroethene	1.0 U
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U
108-88-3	Toluene	1.0 U
108-90-7	Chlorobenzene	1.0 U
100-41-4	Ethylbenzene	1.0 U
100-42-5	Styrene	1.0 U
75-69-4	Trichlorofluoromethane	2.0 U
76-13-1	1,1,2-Trichlorotrifluoroethane	2.0 U
	m,p-Xylene	1.0 U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample No: Tripblank

Lab Sample ID: R672D
LIMS ID: 97-2151
Matrix: Water
Data Release Authorized: AB/S
Reported: 02/26/97

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Sampled: 02/07/97
Date Received: 02/17/97

Instrument: FINN3
Date Analyzed: 02/21/97

Sample Amount: 5.00 mL
Purge Volume: 5.0 mL

CAS Number	Analyte	ug/L
95-47-6	O-Xylene	1.0 U
95-50-1	1,2-Dichlorobenzene	1.0 U
541-73-1	1,3-Dichlorobenzene	1.0 U
106-46-7	1,4-Dichlorobenzene	1.0 U
107-02-8	Acrolein	50 U
74-88-4	Methyl Iodide	1.0 U
74-96-4	Bromoethane	2.0 U
107-13-1	Acrylonitrile	5.0 U
563-58-6	1,1-Dichloropropene	1.0 U
74-95-3	Dibromomethane	1.0 U
630-20-6	1,1,1,2-Tetrachloroethane	1.0 U
96-12-8	1,2-Dibromo-3-chloropropane	5.0 U
96-18-4	1,2,3-Trichloropropane	1.0 U
110-57-6	trans-1,4-Dichloro-2-butene	5.0 U
108-67-8	1,3,5-Trimethylbenzene	1.0 U
95-63-6	1,2,4-Trimethylbenzene	1.0 U
87-68-3	Hexachlorobutadiene	5.0 U
106-93-4	Ethylene Dibromide	1.0 U
74-97-5	Bromochloromethane	1.0 U
590-20-7	2,2-Dichloropropane	1.0 U
142-28-9	1,3-Dichloropropane	1.0 U
98-82-8	Isopropylbenzene	1.0 U
103-65-1	n-Propylbenzene	1.0 U
108-86-1	Bromobenzene	1.0 U
95-49-8	2-Chlorotoluene	1.0 U
106-43-4	4-Chlorotoluene	1.0 U
98-06-6	tert-Butylbenzene	1.0 U
135-98-8	sec-Butylbenzene	1.0 U
99-87-6	4-Isopropyltoluene	1.0 U
104-51-8	n-Butylbenzene	1.0 U
120-82-1	1,2,4-Trichlorobenzene	5.0 U
91-20-3	Naphthalene	5.0 U
87-61-6	1,2,3-Trichlorobenzene	5.0 U

Volatile Surrogate Recovery	
d4-1,2-Dichloroethane	117%
d8-Toluene	102%
Bromofluorobenzene	101%
d4-1,2-Dichlorobenzene	96.2%

ORGANICS ANALYSIS DATA SHEET
Volatiles by GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: R672SB
LIMS ID: 97-2151
Matrix: Water
Data Release Authorized: BNB
Reported: 02/26/97
Date Analyzed: 02/21/97
Instrument: FINN3

QC Report No: R672-Environmental Partners
Project:
15103.0
Date Received: 02/17/97

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
Chloromethane	34.8	50.0	69.6%
Bromomethane	36.4	50.0	72.8%
Vinyl Chloride	35.0	50.0	70.0%
Chloroethane	36.2	50.0	72.4%
Methylene Chloride	43.0	50.0	86.0%
Acetone	220.	250	88.0%
Carbon Disulfide	43.6	50.0	87.2%
1,1-Dichloroethene	40.8	50.0	81.6%
1,1-Dichloroethane	46.9	50.0	93.8%
trans-1,2-Dichloroethene	39.7	50.0	79.4%
cis-1,2-Dichloroethene	49.3	50.0	98.6%
Chloroform	49.6	50.0	99.2%
1,2-Dichloroethane	53.0	50.0	106%
2-Butanone	254.	250	102%
1,1,1-Trichloroethane	50.4	50.0	101%
Carbon Tetrachloride	51.3	50.0	103%
Vinyl Acetate	50.0	50.0	100%
Bromodichloromethane	48.8	50.0	97.6%
1,2-Dichloropropane	51.8	50.0	104%
cis-1,3-Dichloropropene	50.8	50.0	102%
Trichloroethene	48.8	50.0	97.6%
Dibromochloromethane	43.6	50.0	87.2%
1,1,2-Trichloroethane	50.2	50.0	100%
Benzene	48.4	50.0	96.8%
trans-1,3-Dichloropropene	50.5	50.0	101%
2-Chloroethylvinylether	65.2	50.0	130%
Bromoform	43.0	50.0	86.0%
4-Methyl-2-Pentanone (MIBK)	257.	250	103%
2-Hexanone	242.	250	96.8%
Tetrachloroethene	44.0	50.0	88.0%
1,1,2,2-Tetrachloroethane	44.9	50.0	89.8%
Toluene	49.3	50.0	98.6%
Chlorobenzene	45.6	50.0	91.2%
Ethylbenzene	46.0	50.0	92.0%
Styrene	45.2	50.0	90.4%
Trichlorofluoromethane	31.8	50.0	63.6%
1,1,2-Trichlorotrifluoroethane	43.4	50.0	86.8%
m,p-Xylene	93.7	100	93.7%
O-Xylene	47.7	50.0	95.4%

Reported in ug/L

ORGANICS ANALYSIS DATA SHEET
Volatiles by GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: R672SB
LIMS ID: 97-2151
Matrix: Water
Data Release Authorized: BAB
Reported: 02/26/97
Date Analyzed: 02/21/97
Instrument: FINN3

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Received: 02/17/97

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
1,2-Dichlorobenzene	43.9	50.0	87.8%
1,3-Dichlorobenzene	44.9	50.0	89.8%
1,4-Dichlorobenzene	45.4	50.0	90.8%
Acrolein	228.	250	91.2%
Methyl Iodide	43.2	50.0	86.4%
Bromoethane	44.5	50.0	89.0%
Acrylonitrile	43.7	50.0	87.4%
1,1-Dichloropropene	53.4	50.0	107%
Dibromomethane	47.9	50.0	95.8%
1,1,1,2-Tetrachloroethane	46.2	50.0	92.4%
1,2-Dibromo-3-chloropropane	42.1	50.0	84.2%
1,2,3-Trichloropropane	45.4	50.0	90.8%
trans-1,4-Dichloro-2-butene	44.2	50.0	88.4%
1,3,5-Trimethylbenzene	43.3	50.0	86.6%
1,2,4-Trimethylbenzene	45.2	50.0	90.4%
Hexachlorobutadiene	48.0	50.0	96.0%
Ethylene Dibromide	50.6	50.0	101%
Bromochloromethane	48.8	50.0	97.6%
2,2-Dichloropropane	43.4	50.0	86.8%
1,3-Dichloropropane	45.2	50.0	90.4%
Isopropylbenzene	45.0	50.0	90.0%
n-Propylbenzene	46.3	50.0	92.6%
Bromobenzene	44.3	50.0	88.6%
2-Chlorotoluene	47.8	50.0	95.6%
4-Chlorotoluene	43.0	50.0	86.0%
tert-Butylbenzene	47.0	50.0	94.0%
sec-Butylbenzene	46.3	50.0	92.6%
4-Isopropyltoluene	46.5	50.0	93.0%
n-Butylbenzene	46.6	50.0	93.2%
1,2,4-Trichlorobenzene	44.4	50.0	88.8%
Naphthalene	45.2	50.0	90.4%
1,2,3-Trichlorobenzene	47.8	50.0	95.6%

Spike Blank Surrogate Recovery	
d4-1,2-Dichloroethane	114%
d8-Toluene	104%
Bromofluorobenzene	99.3%
d4-1,2-Dichlorobenzene	99.0%

Reported in ug/L

ORGANICS ANALYSIS DATA SHEET
Volatiles by GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: R672SB
LIMS ID: 97-2150
Matrix: Water
Data Release Authorized:
Reported: 02/26/97
Date Analyzed: 02/22/97
Instrument: FINN3

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Received: 02/17/97

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
Chloromethane	47.3	50.0	94.6%
Bromomethane	42.6	50.0	85.2%
Vinyl Chloride	45.5	50.0	91.0%
Chloroethane	42.2	50.0	84.4%
Methylene Chloride	43.7	50.0	87.4%
Acetone	252.	250	101%
Carbon Disulfide	46.1	50.0	92.2%
1,1-Dichloroethene	43.6	50.0	87.2%
1,1-Dichloroethane	41.3	50.0	82.6%
trans-1,2-Dichloroethene	39.3	50.0	78.6%
cis-1,2-Dichloroethene	49.7	50.0	99.4%
Chloroform	44.2	50.0	88.4%
1,2-Dichloroethane	44.7	50.0	89.4%
2-Butanone	229.	250	91.6%
1,1,1-Trichloroethane	40.8	50.0	81.6%
Carbon Tetrachloride	44.0	50.0	88.0%
Vinyl Acetate	42.7	50.0	85.4%
Bromodichloromethane	46.2	50.0	92.4%
1,2-Dichloropropane	47.8	50.0	95.6%
cis-1,3-Dichloropropene	47.0	50.0	94.0%
Trichloroethene	46.9	50.0	93.8%
Dibromochloromethane	44.6	50.0	89.2%
1,1,2-Trichloroethane	47.7	50.0	95.4%
Benzene	45.6	50.0	91.2%
trans-1,3-Dichloropropene	49.1	50.0	98.2%
2-Chloroethylvinylether	49.0	50.0	98.0%
Bromoform	45.2	50.0	90.4%
4-Methyl-2-Pentanone (MIBK)	249.	250	99.6%
2-Hexanone	244.	250	97.6%
Tetrachloroethene	44.1	50.0	88.2%
1,1,2,2-Tetrachloroethane	46.5	50.0	93.0%
Toluene	45.1	50.0	90.2%
Chlorobenzene	47.1	50.0	94.2%
Ethylbenzene	45.7	50.0	91.4%
Styrene	45.8	50.0	91.6%
Trichlorofluoromethane	40.0	50.0	80.0%
1,1,2-Trichlorotrifluoroethane	50.0	50.0	100%
m,p-Xylene	91.6	100	91.6%
O-Xylene	47.3	50.0	94.6%

Reported in ug/L

ORGANICS ANALYSIS DATA SHEET
Volatiles by GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: R672SB
LIMS ID: 97-2150
Matrix: Water
Data Release Authorized: [signature]
Reported: 02/26/97
Date Analyzed: 02/22/97
Instrument: FINN3

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Received: 02/17/97

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
1,2-Dichlorobenzene	47.4	50.0	94.8%
1,3-Dichlorobenzene	47.4	50.0	94.8%
1,4-Dichlorobenzene	48.3	50.0	96.6%
Acrolein	256.	250	102%
Methyl Iodide	48.6	50.0	97.2%
Bromoethane	47.6	50.0	95.2%
Acrylonitrile	45.4	50.0	90.8%
1,1-Dichloropropene	43.9	50.0	87.8%
Dibromomethane	44.4	50.0	88.8%
1,1,1,2-Tetrachloroethane	46.1	50.0	92.2%
1,2-Dibromo-3-chloropropane	49.7	50.0	99.4%
1,2,3-Trichloropropane	45.6	50.0	91.2%
trans-1,4-Dichloro-2-butene	45.9	50.0	91.8%
1,3,5-Trimethylbenzene	45.8	50.0	91.6%
1,2,4-Trimethylbenzene	45.7	50.0	91.4%
Hexachlorobutadiene	56.7	50.0	113%
Ethylene Dibromide	46.8	50.0	93.6%
Bromochloromethane	45.7	50.0	91.4%
2,2-Dichloropropane	39.4	50.0	78.8%
1,3-Dichloropropane	45.3	50.0	90.6%
Isopropylbenzene	45.6	50.0	91.2%
n-Propylbenzene	46.4	50.0	92.8%
Bromobenzene	46.1	50.0	92.2%
2-Chlorotoluene	45.1	50.0	90.2%
4-Chlorotoluene	46.4	50.0	92.8%
tert-Butylbenzene	48.4	50.0	96.8%
sec-Butylbenzene	48.6	50.0	97.2%
4-Isopropyltoluene	49.4	50.0	98.8%
n-Butylbenzene	50.1	50.0	100%
1,2,4-Trichlorobenzene	52.5	50.0	105%
Naphthalene	50.9	50.0	102%
1,2,3-Trichlorobenzene	50.8	50.0	102%

Spike Blank Surrogate Recovery	
d4-1,2-Dichloroethane	98.0%
d8-Toluene	102%
Bromofluorobenzene	99.0%
d4-1,2-Dichlorobenzene	103%

Reported in ug/L

ORGANICS ANALYSIS DATA SHEET
Volatiles by GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: R672SB
LIMS ID: 97-2149
Matrix: Water
Data Release Authorized: VDS
Reported: 02/26/97
Date Analyzed: 02/24/97
Instrument: FINN3

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Received: 02/17/97

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
Chloromethane	50.1	50.0	100%
Bromomethane	44.3	50.0	88.6%
Vinyl Chloride	50.7	50.0	101%
Chloroethane	50.0	50.0	100%
Methylene Chloride	50.5	50.0	101%
Acetone	273.	250	109%
Carbon Disulfide	38.8	50.0	77.6%
1,1-Dichloroethene	47.5	50.0	95.0%
1,1-Dichloroethane	49.6	50.0	99.2%
trans-1,2-Dichloroethene	44.9	50.0	89.8%
cis-1,2-Dichloroethene	55.3	50.0	111%
Chloroform	50.4	50.0	101%
1,2-Dichloroethane	50.4	50.0	101%
2-Butanone	257.	250	103%
1,1,1-Trichloroethane	49.2	50.0	98.4%
Carbon Tetrachloride	50.3	50.0	101%
Vinyl Acetate	47.3	50.0	94.6%
Bromodichloromethane	51.7	50.0	103%
1,2-Dichloropropane	53.8	50.0	108%
cis-1,3-Dichloropropene	53.0	50.0	106%
Trichloroethene	50.8	50.0	102%
Dibromochloromethane	51.5	50.0	103%
1,1,2-Trichloroethane	51.6	50.0	103%
Benzene	50.3	50.0	101%
trans-1,3-Dichloropropene	52.9	50.0	106%
2-Chloroethylvinylether	38.1	50.0	76.2%
Bromoform	50.8	50.0	102%
4-Methyl-2-Pentanone (MIBK)	251.	250	100%
2-Hexanone	252.	250	101%
Tetrachloroethene	48.5	50.0	97.0%
1,1,2,2-Tetrachloroethane	51.4	50.0	103%
Toluene	51.6	50.0	103%
Chlorobenzene	49.3	50.0	98.6%
Ethylbenzene	51.1	50.0	102%
Styrene	50.9	50.0	102%
Trichlorofluoromethane	47.9	50.0	95.8%
1,1,2-Trichlorotrifluoroethane	39.4	50.0	78.8%
m,p-Xylene	99.6	100	99.6%
O-Xylene	51.1	50.0	102%

Reported in ug/L

ORGANICS ANALYSIS DATA SHEET
Volatiles by GC/MS

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: R672SB
LIMS ID: 97-2149
Matrix: Water
Data Release Authorized: [signature]
Reported: 02/26/97
Date Analyzed: 02/24/97
Instrument: FINN3

QC Report No: R672-Environmental Partners
Project: 15103.0
Date Received: 02/17/97

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
1,2-Dichlorobenzene	49.4	50.0	98.8%
1,3-Dichlorobenzene	50.0	50.0	100%
1,4-Dichlorobenzene	50.8	50.0	102%
Acrolein	276.	250	110%
Methyl Iodide	43.5	50.0	87.0%
Bromoethane	41.6	50.0	83.2%
Acrylonitrile	40.7	50.0	81.4%
1,1-Dichloropropene	51.8	50.0	104%
Dibromomethane	51.5	50.0	103%
1,1,1,2-Tetrachloroethane	51.8	50.0	104%
1,2-Dibromo-3-chloropropane	52.8	50.0	106%
1,2,3-Trichloropropane	52.2	50.0	104%
trans-1,4-Dichloro-2-butene	38.8	50.0	77.6%
1,3,5-Trimethylbenzene	49.4	50.0	98.8%
1,2,4-Trimethylbenzene	48.7	50.0	97.4%
Hexachlorobutadiene	47.1	50.0	94.2%
Ethylene Dibromide	52.3	50.0	105%
Bromochloromethane	51.7	50.0	103%
2,2-Dichloropropane	50.2	50.0	100%
1,3-Dichloropropane	52.5	50.0	105%
Isopropylbenzene	50.4	50.0	101%
n-Propylbenzene	49.0	50.0	98.0%
Bromobenzene	50.0	50.0	100%
2-Chlorotoluene	47.4	50.0	94.8%
4-Chlorotoluene	51.7	50.0	103%
tert-Butylbenzene	49.8	50.0	99.6%
sec-Butylbenzene	50.6	50.0	101%
4-Isopropyltoluene	50.6	50.0	101%
n-Butylbenzene	49.7	50.0	99.4%
1,2,4-Trichlorobenzene	50.1	50.0	100%
Naphthalene	51.1	50.0	102%
1,2,3-Trichlorobenzene	47.3	50.0	94.6%

Spike Blank Surrogate Recovery	
d4-1,2-Dichloroethane	100%
d8-Toluene	101%
Bromofluorobenzene	101%
d4-1,2-Dichlorobenzene	102%

Reported in ug/L