ENVIRONMENTAL PARTNERS INC

10940 NE 33rd Place Suite 110 Bellevue, Wa on 98004 ph 206.889.4747 fax 206.889.4755

November 14, 1997

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

Re: 4th 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 October 1997 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 Friday, October 24, 1997. Samples obtained from these wells were analyzed for volatile organic compounds (VOCs) by Method 8260 at Analytical Resources, Inc. (ARI) of Seattle, Washington. The October 1997 sampling event represents the fourth time that ground water has been collected from the three on-site monitoring wells for analysis.

Ground Water Sampling Procedure

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 elevation of the water table, which will be discussed in more detail below.

A purge volume equal to three times the well volume of water was removed from each of the wells prior to sampling. Field measurements of pH, conductivity, and temperature were collected as purging progressed (Table 1).

Table 1
Ground Water pH, Conductivity, and Temperature
(October 24, 1997)

Well Name	Purge Volume (gallons)	pH	Conductivity (µmhos/cm)	Temperature (Fahrenheit)
MW-1	0.75	6.75	225	56.8
	1.50	6.67	233	58.0
	2.25	6.78	235	58.5
MW-2	0.75	7.00	218	58.2
	1.5	7.03	220	59.1
	2.25	6.96	226	59.5
MW-3	1.0	6.36	262	57.5
	2.0	6.47	256	58.8
	3.0	6.56	247	58.0

Ground water samples from the 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.

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 occurring 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). During the third quarterly monitoring event (June 1997) the direction of ground water flow at the site was toward the north-northeast. It should be noted that this direction of ground water flow was roughly perpendicular to ground water flow directions noted during the previous two sampling events. The change in observed flow direction may be the result of seasonal variations in hydrogeologic conditions. A fall in water levels was observed at this time.

Based on water level measurements collected on-site during the fourth quarterly monitoring event (October 1997), the direction of ground water flow at the site is generally toward the southeast (see Potentiometric Surface Map). This direction of ground water flow is similar to the first and second quarterly monitoring events.

The water table elevation in MW-3 during the October 1997 sampling event was observed to be approximately 0.81 feet higher than the water level recorded during the June 1997 sampling event. The water table elevations in MW-1 and MW-2 during the fourth sampling event (October 1997) were observed to be lower (deeper) than the levels recorded during the third sampling event (June 1997). The greatest variation was noted at MW-1, where the October 1997 water level was 0.58 feet deeper than previously noted (see Potentiometric Surface Map).

The October 1997 direction of ground water flow places monitoring well MW-1 hydraulically down-gradient of the other on-site wells. MW-2 appears to be more cross-gradient from the suspected source area located near monitoring well MW-3.

Analytical Results

Table 2 contains a summary of analytes that were detected during the October 1997 round of quarterly monitoring. It should be noted that the results of the preceding quarterly monitoring events have also been provided in Table 2 to allow a direct comparison of the data. A complete copy of ARI's analytical data package (for October 1997) 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	June 1997	Oct. 1997	Oct. 1996	Feb. 1997	June 1997	Oct. 1997	Oct. 1996	Feb. 1997	June 1997	Oct. 1997	
Tetrachloroethene	**6.0**	**5.5**	**5.3**	**7.7**	nd	nd	nd	nd	**34**	**45**	**46**	**66**	5.0 a
Trichloroethene	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	1.4	1.8	3.98 b

a: Washington State Model Toxics Control Act (MTCA) Method A Cleanup Level for Ground Water.
b: Washington State Model Toxics Control Act (MTCA) Method B Cleanup Level for Ground Water.
nd: Analyte not detected above applicable method detection limit.
Note: Shaded table cells indicate the most recent (October 1997) sampling results. **Bolded** analytical results indicate concentrations higher than applicable MTCA Cleanup Levels.

The results of the ground water analyses indicate that in wells MW-1 and MW-3, tetrachloroethene is present at concentrations that exceed the applicable Ecology Method A Ground Water Cleanup Level; these exceedences have been noted during all of the quarterly monitoring sampling events that have occurred on the subject property to date. These concentrations appear to have increased slightly since the last round of sampling.

A small concentration of trichloroethene was identified at MW-3 during the October 1997 sampling event; this result was also obtained during the June 1997 sampling event. The detected trichloroethene concentration is well below the applicable MTCA Method B Cleanup Level for ground water. It should be noted that trichloroethene may be produced by the degradation of tetrachloroethene. Consequently, the presence of trichloroethene in the MW-3 sample may be attributable to the presence of tetrachloroethene.

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 us at (425) 889-4747.

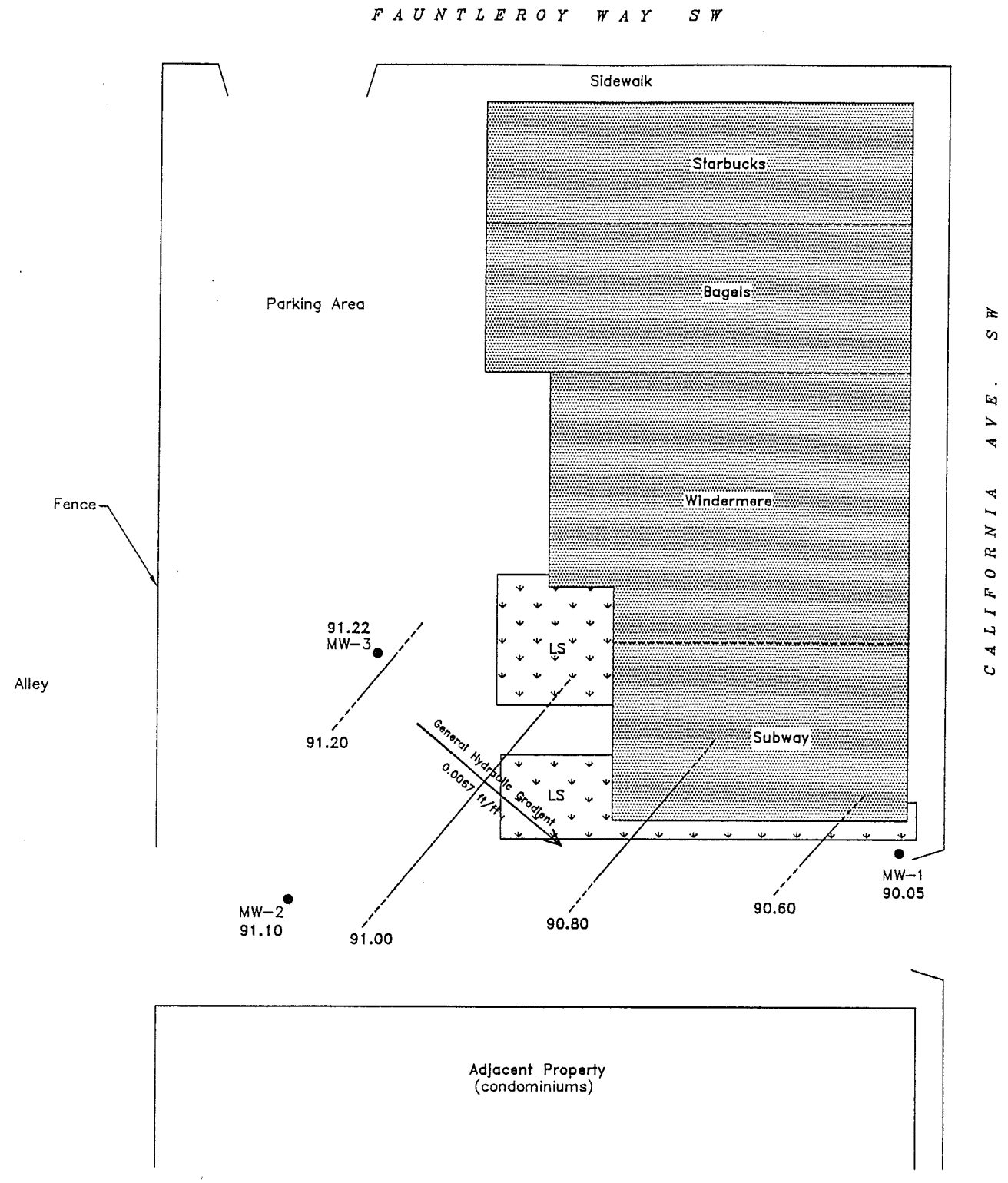
Sincerely,

for Christian E. Houck, P.E.
Senior Engineer

Alex Jones
Engineer

Enc: Potentiometric Surface Map
Laboratory Data Sheets

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



KEY

N

● MW-1 Ground Water Monitoring Well

LS Landscaping

↑ Direction of Ground Water Flow

SCALE: 1" = 30'

ENVIRONMENTAL PARTNERS INC

Potentiometric Surface Map
October 24, 1997

PROJECT	Quarterly GW Monitoring, October 1997
PREPARED FOR	Sue Goertzen
LOCATION	6501–6515 California Ave. SW Seattle, WA

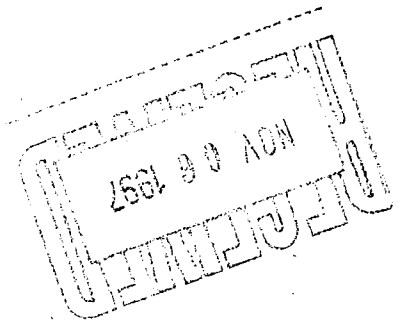
PROJ. #	DRAWN BY	DATE	SHEET
15103.0	APJ	11/14/97	1 of 1

DRAFTING 11/14/97 8:40 AM G:\Clients\Goertzen 151\15103.0 GW Monitoring 1997\Potentiometric Map.dwg

Attachment A
ARI Analytical Data Package
October 1997

Analytical Resources, Incorporated
Analytical Chemists and Consultants

5 November 1997



Alex Jones
Environmental Partners
10940 NE 33rd Place, Suite 110
Bellevue, WA 98004

Re: Project: 15103.0 (W. Seattle)
ARI Job No.: U255

Dear Alex:

Please find enclosed the original Chain-of-Custody record and the final results for the samples from the project referenced above. Three water samples and one trip blank were received intact on October 24, 1997. The samples were analyzed for VOAs as requested.

No analytical complications were noted for these analyses.

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

Sincerely,

ANALYTICAL RESOURCES, INC.

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

Enclosures

cc: File U255

MDH/mdh

Chain of Custody Record & Laboratory Analysis Request

Date: 10/24/97
Page 1 of 1
Number of coolers: 1
Cooler Temp: 4.0°

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

ARI Client: EPI Phone#: (425) 889-4742
Client Contact: Alex Jones
Client Project ID: 15103.0 (W Seattle)
Samplers: Alex Jones

	Sample ID	Date	Time	Matx	No Cont	Lab ID	Analysis Required: VOCs (8260)	Notes/Comments
1	mw-1	10/24/97	1100	H_2O	3		3	97-20035 to 97-20038
2	mw-2	10/24/97	1200	H_2O	3		3	
3	mw-3	10/24/97	0945	H_2O	3		3	
4	Trip Blank	10/22/97	—	H_2O	2		2	
5								
6								
7								

ARI Project No: U2525
T.A.T. Requested: 14 days
Comments/Special Instructions:

Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)
Printed Name: Alex Jones	Printed Name:	Printed Name:
Company: EPI	Company:	Company:
Date: 10/24/97 Time: 1555	Date: Time:	Date: Time:
Received by: (Signature)	**Received by: (Signature)**	**Received by: (Signature)**
Printed Name: PATRICK BURKS	Printed Name:	Printed Name:
Company: ARI	Company:	Company:
Date: 10/24/97 Time: 1555	Date: Time:	Date: Time:

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following Standard Operating Procedures and our Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI releases ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the client.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ORGANIC COMPOUND
DATA REPORTING QUALIFIERS

U — Indicates the compound was undetected at the reported concentration. (Same as ND).

J — Indicates an estimated concentration when the value is less than the calculated reporting 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. Sample dilution required.

NA — Indicates compound not analyzed for.

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

B — Indicates possible/probable blank contamination. Flagged when the analyte is detected in the blank as well as the sample.

Y — Indicates raised reporting limit due to background interference or to activity on the instrument. Compound is still not detected at or above the raised level.

333 Ninth Avenue North • Seattle WA 98109-5187 • **206-621-6490** • **206-621-7523** fax

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

ANALYTICAL RESOURCES INCORPORATED

Sample No: Method Blank

Lab Sample ID: 110397MB
LIMS ID: 97-20036
Matrix: Water
Data Release Authorized: JMB
Reported: 11/05/97

QC Report No: U255-Environmental Partners, Inc.
Project: 15103.0 (W. Seattle)
Date Sampled: NA
Date Received: NA

Instrument: FINN3
Date Analyzed: 11/03/97

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
1330-20-7	m,p-Xylene	1.0 U

ANALYTICAL RESOURCES INCORPORATED

Sample No: Method Blank

Lab Sample ID: 110397MB
LIMS ID: 97-20036
Matrix: Water
Data Release Authorized: *AJC*
Reported: 11/05/97

QC Report No: U255-Environmental Partners, Inc.
Project: 15103.0 (W. Seattle)
Date Sampled: NA
Date Received: NA

Instrument: FINN3
Date Analyzed: 11/03/97

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	106%
d8-Toluene	99.4%
Bromofluorobenzene	95.9%
d4-1,2-Dichlorobenzene	92.0%

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

ANALYTICAL RESOURCES INCORPORATED

Sample No: Method Blank

Lab Sample ID: 103197MB
LIMS ID: 97-20038
Matrix: Water
Data Release Authorized: SCS
Reported: 11/05/97

QC Report No: U255-Environmental Partners, Inc.
Project: 15103.0 (W. Seattle)
Date Sampled: NA
Date Received: NA

Instrument: FINN3
Date Analyzed: 10/31/97

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
1330-20-7	m,p-Xylene	1.0 U

ANALYTICAL RESOURCES INCORPORATED

Sample No: Method Blank

Lab Sample ID: 103197MB
LIMS ID: 97-20038
Matrix: Water
Data Release Authorized: JJ/3
Reported: 11/05/97

QC Report No: U255-Environmental Partners, Inc.
Project: 15103.0 (W. Seattle)
Date Sampled: NA
Date Received: NA

Instrument: FINN3
Date Analyzed: 10/31/97

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	96.8%
Bromofluorobenzene	96.3%
d4-1,2-Dichlorobenzene	96.5%

ANALYTICAL
RESOURCES
INCORPORATED

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

Sample No: MW-1

Lab Sample ID: U255A
LIMS ID: 97-20035
Matrix: Water
Data Release Authorized: SMB
Reported: 11/05/97

QC Report No: U255-Environmental Partners, Inc.
Project: 15103.0 (W. Seattle)
Date Sampled: 10/24/97
Date Received: 10/24/97

Instrument: FINN3
Date Analyzed: 10/31/97

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**	**7.7**
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
1330-20-7	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: U255A
LIMS ID: 97-20035
Matrix: Water
Data Release Authorized: JWA
Reported: 11/05/97

QC Report No: U255-Environmental Partners, Inc.
Project: 15103.0 (W. Seattle)
Date Sampled: 10/24/97
Date Received: 10/24/97

Instrument: FINN3
Date Analyzed: 10/31/97

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	112%
d8-Toluene	94.6%
Bromofluorobenzene	95.0%
d4-1,2-Dichlorobenzene	94.6%

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

ANALYTICAL RESOURCES INCORPORATED

Sample No: MW-2

Lab Sample ID: U255B
LIMS ID: 97-20036
Matrix: Water
Data Release Authorized: BW3
Reported: 11/05/97

QC Report No: U255-Environmental Partners, Inc.
Project: 15103.0 (W. Seattle)
Date Sampled: 10/24/97
Date Received: 10/24/97

Instrument: FINN3
Date Analyzed: 11/03/97

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
1330-20-7	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: U255B
LIMS ID: 97-20036
Matrix: Water
Data Release Authorized: JWS
Reported: 11/05/97

QC Report No: U255-Environmental Partners, Inc.
Project: 15103.0 (W. Seattle)
Date Sampled: 10/24/97
Date Received: 10/24/97

Instrument: FINN3
Date Analyzed: 11/03/97

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	98.8%
d8-Toluene	98.5%
Bromofluorobenzene	90.6%
d4-1,2-Dichlorobenzene	97.3%

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

Sample No: MW-3

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: U255C
LIMS ID: 97-20037
Matrix: Water
Data Release Authorized: BJ/3
Reported: 11/05/97

QC Report No: U255-Environmental Partners, Inc.
Project: 15103.0 (W. Seattle)
Date Sampled: 10/24/97
Date Received: 10/24/97

Instrument: FINN3
Date Analyzed: 10/31/97

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**	**1.8**
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**	**66**
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
1330-20-7	m,p-Xylene	1.0 U

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

Sample No: MW-3

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: U255C
LIMS ID: 97-20037
Matrix: Water
Data Release Authorized: AJS
Reported: 11/05/97

QC Report No: U255-Environmental Partners, Inc.
Project: 15103.0 (W. Seattle)
Date Sampled: 10/24/97
Date Received: 10/24/97

Instrument: FINN3
Date Analyzed: 10/31/97

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	115%
d8-Toluene	95.1%
Bromofluorobenzene	95.1%
d4-1,2-Dichlorobenzene	102%

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

ANALYTICAL RESOURCES INCORPORATED

Sample No: TRIP BLANK

Lab Sample ID: U255D
LIMS ID: 97-20038
Matrix: Water
Data Release Authorized: [signature]
Reported: 11/05/97

QC Report No: U255-Environmental Partners, Inc.
Project: 15103.0 (W. Seattle)
Date Sampled: 10/22/97
Date Received: 10/24/97

Instrument: FINN3
Date Analyzed: 10/31/97

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
1330-20-7	m,p-Xylene	1.0 U

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

Sample No: TRIP BLANK

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: U255D
LIMS ID: 97-20038
Matrix: Water
Data Release Authorized: [signature]
Reported: 11/05/97

QC Report No: U255-Environmental Partners, Inc.
Project: 15103.0 (W. Seattle)
Date Sampled: 10/22/97
Date Received: 10/24/97

Instrument: FINN3
Date Analyzed: 10/31/97

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	113%
d8-Toluene	97.3%
Bromofluorobenzene	96.9%
d4-1,2-Dichlorobenzene	94.8%

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

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: U255SB
LIMS ID: 97-20036
Matrix: Water
Data Release Authorized: [signature]
Reported: 11/05/97
Date Analyzed: 11/03/97
Instrument: FINN3

QC Report No: U255-Environmental Partners, Inc.
Project: 15103.0 (W. Seattle)
Date Received: 10/24/97

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
Chloromethane	49.3	50.0	98.6%
Bromomethane	48.0	50.0	96.0%
Vinyl Chloride	47.1	50.0	94.2%
Chloroethane	46.6	50.0	93.2%
Methylene Chloride	50.8	50.0	102%
Acetone	247.	250	98.8%
Carbon Disulfide	48.2	50.0	96.4%
1,1-Dichloroethene	45.5	50.0	91.0%
1,1-Dichloroethane	48.0	50.0	96.0%
trans-1,2-Dichloroethene	45.6	50.0	91.2%
cis-1,2-Dichloroethene	54.7	50.0	109%
Chloroform	48.7	50.0	97.4%
1,2-Dichloroethane	49.4	50.0	98.8%
2-Butanone	240.	250	96.0%
1,1,1-Trichloroethane	48.7	50.0	97.4%
Carbon Tetrachloride	49.1	50.0	98.2%
Vinyl Acetate	47.2	50.0	94.4%
Bromodichloromethane	47.7	50.0	95.4%
1,2-Dichloropropane	51.1	50.0	102%
cis-1,3-Dichloropropene	48.5	50.0	97.0%
Trichloroethene	47.6	50.0	95.2%
Dibromochloromethane	51.1	50.0	102%
1,1,2-Trichloroethane	50.1	50.0	100%
Benzene	49.2	50.0	98.4%
trans-1,3-Dichloropropene	49.2	50.0	98.4%
2-Chloroethylvinylether	19.2	50.0	38.4%
Bromoform	50.4	50.0	101%
4-Methyl-2-Pentanone (MIBK)	240.	250	96.0%
2-Hexanone	235.	250	94.0%
Tetrachloroethene	48.8	50.0	97.6%
1,1,2,2-Tetrachloroethane	47.1	50.0	94.2%
Toluene	48.5	50.0	97.0%
Chlorobenzene	50.4	50.0	101%
Ethylbenzene	50.1	50.0	100%
Styrene	50.8	50.0	102%
Trichlorofluoromethane	44.5	50.0	89.0%
1,1,2-Trichlorotrifluoroethane	49.0	50.0	98.0%
m,p-Xylene	103.	100	103%
O-Xylene	50.5	50.0	101%

Reported in ug/L

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

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: U255SB
LIMS ID: 97-20036
Matrix: Water
Data Release Authorized:
Reported: 11/05/97
Date Analyzed: 11/03/97
Instrument: FINN3

QC Report No: U255-Environmental Partners, Inc.
Project: 15103.0 (W. Seattle)
Date Received: 10/24/97

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
1,2-Dichlorobenzene	47.3	50.0	94.6%
1,3-Dichlorobenzene	48.6	50.0	97.2%
1,4-Dichlorobenzene	48.3	50.0	96.6%
Acrolein	246.	250	98.4%
Methyl Iodide	48.2	50.0	96.4%
Bromoethane	50.0	50.0	100%
Acrylonitrile	49.9	50.0	99.8%
1,1-Dichloropropene	48.3	50.0	96.6%
Dibromomethane	49.8	50.0	99.6%
1,1,1,2-Tetrachloroethane	50.0	50.0	100%
1,2-Dibromo-3-chloropropane	49.5	50.0	99.0%
1,2,3-Trichloropropane	47.1	50.0	94.2%
trans-1,4-Dichloro-2-butene	44.5	50.0	89.0%
1,3,5-Trimethylbenzene	47.8	50.0	95.6%
1,2,4-Trimethylbenzene	47.6	50.0	95.2%
Hexachlorobutadiene	52.5	50.0	105%
Ethylene Dibromide	50.5	50.0	101%
Bromochloromethane	50.4	50.0	101%
2,2-Dichloropropane	48.7	50.0	97.4%
1,3-Dichloropropane	50.6	50.0	101%
Isopropylbenzene	46.7	50.0	93.4%
n-Propylbenzene	45.9	50.0	91.8%
Bromobenzene	47.5	50.0	95.0%
2-Chlorotoluene	46.3	50.0	92.6%
4-Chlorotoluene	48.1	50.0	96.2%
tert-Butylbenzene	47.4	50.0	94.8%
sec-Butylbenzene	49.3	50.0	98.6%
4-Isopropyltoluene	49.4	50.0	98.8%
n-Butylbenzene	49.6	50.0	99.2%
1,2,4-Trichlorobenzene	53.5	50.0	107%
Naphthalene	53.8	50.0	108%
1,2,3-Trichlorobenzene	52.8	50.0	106%

Lab Control Surrogate Recovery	
d4-1,2-Dichloroethane	100%
d8-Toluene	100%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	97.2%

Reported in ug/L

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

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: U255SB
LIMS ID: 97-20038
Matrix: Water
Data Release Authorized: GWB
Reported: 11/05/97
Date Analyzed: 10/31/97
Instrument: FINN3

QC Report No: U255-Environmental Partners, Inc.
Project: 15103.0 (W. Seattle)
Date Received: 10/24/97

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
Chloromethane	29.2	50.0	58.4%
Bromomethane	39.7	50.0	79.4%
Vinyl Chloride	29.9	50.0	59.8%
Chloroethane	38.2	50.0	76.4%
Methylene Chloride	48.7	50.0	97.4%
Acetone	258.	250	103%
Carbon Disulfide	45.4	50.0	90.8%
1,1-Dichloroethene	43.7	50.0	87.4%
1,1-Dichloroethane	46.3	50.0	92.6%
trans-1,2-Dichloroethene	44.5	50.0	89.0%
cis-1,2-Dichloroethene	56.4	50.0	113%
Chloroform	51.3	50.0	103%
1,2-Dichloroethane	50.0	50.0	100%
2-Butanone	257.	250	103%
1,1,1-Trichloroethane	48.3	50.0	96.6%
Carbon Tetrachloride	47.1	50.0	94.2%
Vinyl Acetate	54.1	50.0	108%
Bromodichloromethane	50.0	50.0	100%
1,2-Dichloropropane	51.2	50.0	102%
cis-1,3-Dichloropropene	48.1	50.0	96.2%
Trichloroethene	50.6	50.0	101%
Dibromochloromethane	49.1	50.0	98.2%
1,1,2-Trichloroethane	47.4	50.0	94.8%
Benzene	49.8	50.0	99.6%
trans-1,3-Dichloropropene	47.9	50.0	95.8%
2-Chloroethylvinylether	20.2	50.0	40.4%
Bromoform	49.4	50.0	98.8%
4-Methyl-2-Pentanone (MIBK)	246.	250	98.4%
2-Hexanone	244.	250	97.6%
Tetrachloroethene	49.6	50.0	99.2%
1,1,2,2-Tetrachloroethane	48.4	50.0	96.8%
Toluene	50.8	50.0	102%
Chlorobenzene	49.8	50.0	99.6%
Ethylbenzene	50.0	50.0	100%
Styrene	50.1	50.0	100%
Trichlorofluoromethane	39.2	50.0	78.4%
1,1,2-Trichlorotrifluoroethane	42.4	50.0	84.8%
m,p-Xylene	102.	100	102%
O-Xylene	51.0	50.0	102%

Reported in ug/L

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

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: U255SB
LIMS ID: 97-20038
Matrix: Water
Data Release Authorized: BLB
Reported: 11/05/97
Date Analyzed: 10/31/97
Instrument: FINN3

QC Report No: U255-Environmental Partners, Inc.
Project: 15103.0 (W. Seattle)
Date Received: 10/24/97

LABORATORY CONTROL SAMPLE CONSTITUENT	SPIKE VALUE	SPIKE AMT	% RECOVERY
1,2-Dichlorobenzene	47.8	50.0	95.6%
1,3-Dichlorobenzene	48.9	50.0	97.8%
1,4-Dichlorobenzene	49.3	50.0	98.6%
Acrolein	289.	250	116%
Methyl Iodide	44.9	50.0	89.8%
Bromoethane	47.1	50.0	94.2%
Acrylonitrile	54.3	50.0	109%
1,1-Dichloropropene	48.8	50.0	97.6%
Dibromomethane	48.9	50.0	97.8%
1,1,1,2-Tetrachloroethane	48.2	50.0	96.4%
1,2-Dibromo-3-chloropropane	46.1	50.0	92.2%
1,2,3-Trichloropropane	50.5	50.0	101%
trans-1,4-Dichloro-2-butene	49.2	50.0	98.4%
1,3,5-Trimethylbenzene	49.4	50.0	98.8%
1,2,4-Trimethylbenzene	49.6	50.0	99.2%
Hexachlorobutadiene	49.1	50.0	98.2%
Ethylene Dibromide	47.6	50.0	95.2%
Bromochloromethane	49.1	50.0	98.2%
2,2-Dichloropropane	50.6	50.0	101%
1,3-Dichloropropane	48.9	50.0	97.8%
Isopropylbenzene	48.6	50.0	97.2%
n-Propylbenzene	48.4	50.0	96.8%
Bromobenzene	48.5	50.0	97.0%
2-Chlorotoluene	46.5	50.0	93.0%
4-Chlorotoluene	52.6	50.0	105%
tert-Butylbenzene	49.6	50.0	99.2%
sec-Butylbenzene	50.5	50.0	101%
4-Isopropyltoluene	50.9	50.0	102%
n-Butylbenzene	50.3	50.0	101%
1,2,4-Trichlorobenzene	49.9	50.0	99.8%
Naphthalene	53.1	50.0	106%
1,2,3-Trichlorobenzene	49.7	50.0	99.4%

Lab Control Surrogate Recovery	
d4-1,2-Dichloroethane	103%
d8-Toluene	99.3%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	97.3%

Reported in ug/L