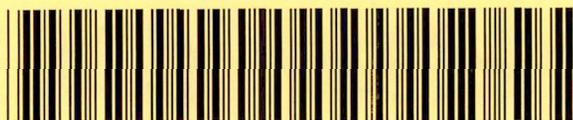


\*809IHSSF1230\*



DocumentID NONCD0002865

Site Name PIEDMONT TRIAD AIRPORT-AIR CARGO

DocumentType Site Assessment Rpt (SAR)

RptSegment 1

DocDate 7/14/1992

DocRcvd 2/20/2007

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AccessLevel PUBLIC

Division WASTE MANAGEMENT

Section SUPERFUND

Program IHS (IHS)

DocCat FACILITY





ENGINEERING CONSULTANTS, INC.

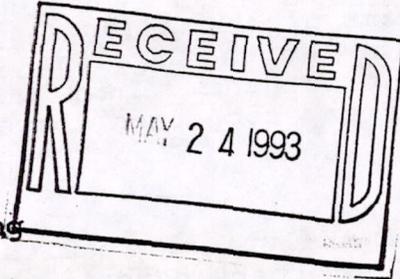
P.O. Box 18846 • Zip 27419-8846 • 313 Gallimore Dairy Rd. • Greensboro, N.C. 27409 • (919) 668-0093

July 14, 1992

Piedmont Triad Airport Authority  
Post Office Box 35005  
Greensboro, North Carolina 27425

Attention: Mr. Ted Johnson

Reference: Groundwater Monitoring Well Sampling  
Proposed Cessna Site  
Piedmont Triad International Airport  
Greensboro, North Carolina  
Trigon Job No. 015-91-036



Dear Mr. Johnson:

Trigon Engineering Consultants, Inc. is pleased to report the results of our continuing investigation at the referenced site. The work was performed in accordance with Trigon Proposal No. 152-92-053-P. Our scope of services included the sampling and laboratory analysis of five groundwater monitoring wells. This report presents the second sampling of the five groundwater monitoring wells (MW-6 through MW-10). Previously, the monitoring wells were sampled on October 14 and 17, 1991. Results of the October, 1991 samplings are documented in Trigon report dated January 8, 1992 (Trigon Job No. 015-91-036). This report presents our findings, conclusions and recommendations associated with our groundwater sampling.

#### FIELD INVESTIGATION

On June 17, 1992, Trigon sampled groundwater monitoring wells MW-6 through MW-10 for purgeable halocarbons and aromatics by EPA Methods 601 and 602 (Figure 015-91-036-1). Prior to sampling, each well was purged of three times its standing water volume using laboratory prepared dedicated bailers. Field measurements were taken during the sampling procedure for static water level, well volume, temperature, pH, odor, and appearance (Table 1). Upon collection, water samples were placed directly into sample containers provided by the laboratory. An equipment blank was performed using one of the bailers prior to purging MW-10. This sample was also analyzed for aromatic and chlorinated hydrocarbons by EPA Methods 601 and 602. After the samples were retrieved, they were placed in coolers on ice (4°C) for delivery to Industrial and Environmental Analysts, Inc. (IEA) located in Cary, North

Carolina for analysis. Chain of Custody records were maintained throughout field sampling, transportation to laboratory and laboratory analysis (Appendix A).

#### LABORATORY RESULTS

The groundwater samples were analyzed for purgeable halocarbons and purgeable aromatics by EPA Methods 601 and 602. Groundwater monitoring wells MW-6, MW-7, and MW-9 had tetrachloroethene present at 29 micrograms per liter (ug/l), 57 ug/l, and 3 ug/l, respectively (Appendix B). The North Carolina allowable concentration is 0.7 ug/l for tetrachloroethene. The remaining wells sampled (MW-8 and MW-10) did not indicate any compounds above detection limits of 1 ug/l.

#### CONCLUSIONS

The analytical results indicated that the purgeable halocarbon tetrachloroethene detected previously at MW-3 (October, 1991 sampling) has migrated to MW-6 and MW-7. As previously indicated, monitoring wells MW-6 and MW-7 are topographically downgradient of the former MW-3 (well has been abandoned since the October, 1991 sampling). It should be noted that MW-6 extended to partially weathered rock at a depth of 43.5 feet below present surface elevation. Well MW-7 extended to a depth of 29.4 feet below present surface elevation within the same boring as MW-6.

Monitoring wells MW-8, MW-9, and MW-10 are projected as being hydraulically downgradient from the former MW-4 location (also abandoned). These wells are 19.0 to 20.0 feet in depth (below ground surface). This indicates that groundwater is migrating in a easterly direction. The migration rate calculated from earlier data is approximately 50 feet per year. Based on this information from the second sampling, it would appear that the contaminant is moving at a relatively slow rate.

#### RECOMMENDATIONS

Trigon recommends resampling the groundwater monitoring wells in three months to investigate whether or not additional contaminants have migrated downgradient to the monitoring well location (MW-6 through MW-10). Should the Piedmont Triad Airport Authority decide to pursue groundwater remediation, Trigon can provide remediation options. Such options may include installing a 2-inch pump in MW-6 to remove groundwater. The removed groundwater could be air stripped of contaminants and possibly discharge to the local sanitary sewer upon approval by Greensboro authorities. Prior to selection of a specific remediation option, a remedial action plan (RAP) must be approved by NCDEHNR prior to implementation. This RAP report should be provided to the Division of Environmental Management Groundwater Section, Winston-Salem Regional Office. Trigon recommends submitting the analytical data included in this report to the Regional Groundwater Section.

Mr. Ted Johnson  
July 14, 1992  
Page 3

CLOSURE

Trigon Engineering Consultants, Inc. appreciates the opportunity to be of continued assistance to the Piedmont Triad Airport Authority. Should you have any questions, please feel free to contact us.

Very truly yours,

TRIGON ENGINEERING CONSULTANTS, INC.

J. Scott Pearce  
Project Geologist

Kirk L. Rife  
Director, Environmental Affairs

Eric N. Johnson, P.E.  
Senior Project Engineer

JSP:KLR:ENJ:ejm  
Enclosure

cc: Mr. Dain Riley, P.E.  
LPA Group



JRE TAXIWAY 'H' EXTENSION

PROJECT  
LL.W.A.S. CENTER  
WIND UNIT

FUTURE RAMP

FUTURE HANGER

FUTURE PARKING LOT

FUTURE DRIVEWAY

FUTURE DRIVEWAY

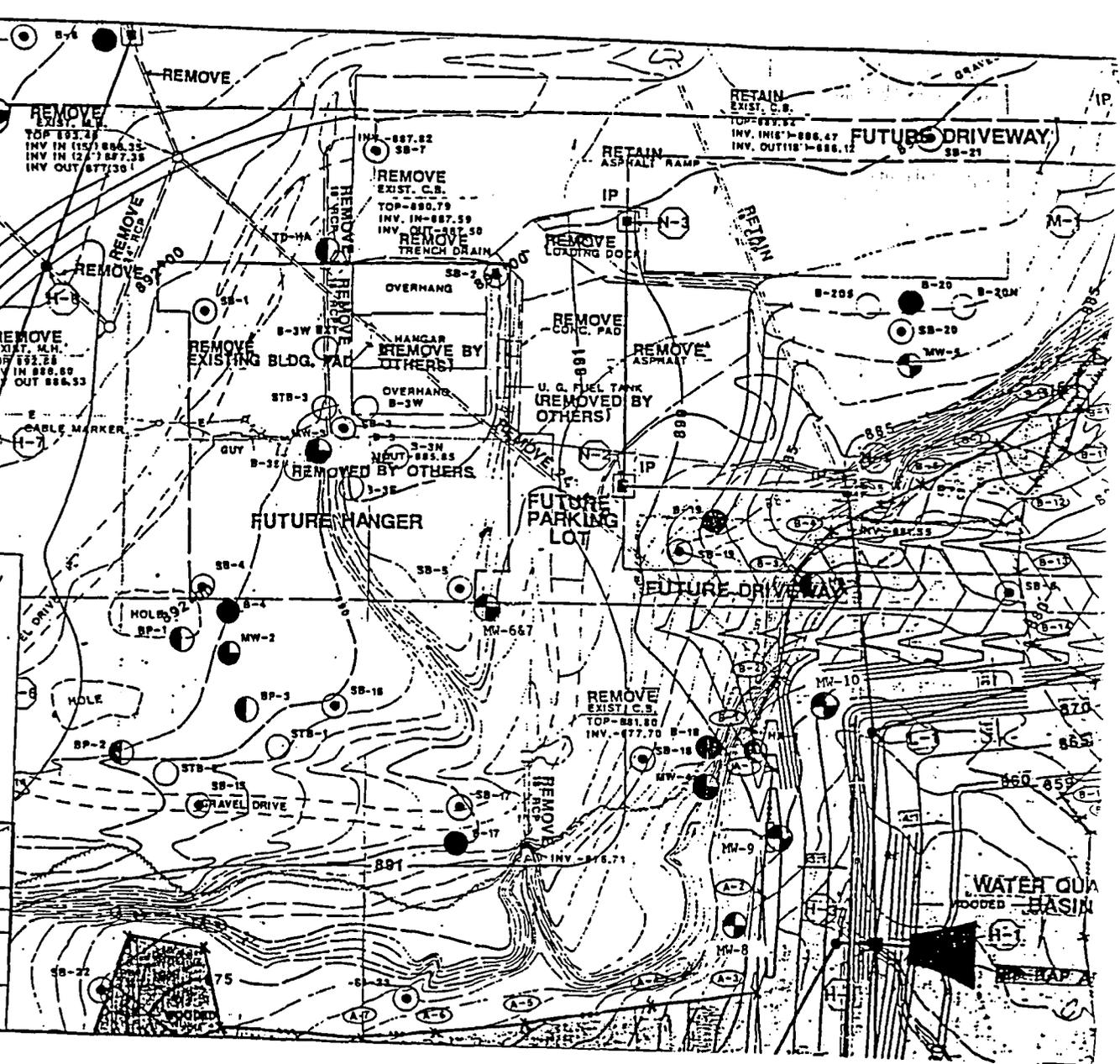
WATER QUALITY  
FLOODED BASIN

- Existing Monitoring Well
- Terminated Monitoring Well

NORTH

TRIGON ENGINEERING CONSULTANTS, INC.  
GREENSBORO, NORTH CAROLINA

SCALE: 1"=60'	APPROVED BY	DRAWN BY DRK
DATE: 12/10/91	KR	
Air Cargo Greensboro, North Carolina		
Monitoring Well Location Diagram	DRAWING NUMBER	015-91-036-1



## FIGURES

TABLE 1

Field Measurements - Groundwater Monitoring Wells

Trigon Job No. 015-91-036

June 17, 1992 *	MW-6	MW-7	MW-8	MW-9	MW-10
Temperature °F	6.9	7.0	6.9	6.8	7.2
Static Water Level <sup>1</sup> (ft.)	63.1	63.5	61.5	61.0	60.1
Static Water Level <sup>1</sup> (ft.)	23	21.9	7.4	6.6	6.1
Static Depth (ft.)	43.5	29.4	20	19	19
Sample Collection Time	11:58 AM	11:18 AM	1:55 PM	2:35 PM	1:04 PM
Amount Purged (gal.)	3.6	10.5	6.6	6.6	6.9
Well Volume (gal)	1.2	3.5	2.2	2.2	2.3
Water Appearance	greenish	greenish	tanish	tanish	light brown
Water Odor	NN	NN	NN	NN	NN

\* - Date Field Measurements Taken.

<sup>1</sup> Depth below ground surface

MW - Monitoring Well

NN - None Noted

Static Water Level measured from top of casing.

## APPENDIX A

REGULATORY CLASSIFICATION - PLEASE SPECIFY

NPDES  DRINKING WATER  RCRA  OTHER

NO: 28494

COMPANY

*Trigon Engineering Consultants*

Page 1 of 1

PROJECT #

PROJECT NAME

015-91-036

SAMPLERS: (SIGNATURE)

*J. Scott Pearce*

SAMPLE I.D.	DATE	TIME	COMP	GRAB	STATION LOCATION
-------------	------	------	------	------	------------------

# OF CONTAINERS

MATRIX

SOIL WATER

REQUESTED PARAMETERS

SAMPLE I.D.	DATE	TIME	COMP	GRAB	STATION LOCATION	# OF CONTAINERS	SOIL	WATER	601	602								
MW-6	6-17-92	11:56 AM		X	MW-6	6	X	X	X									
MW-7	6-17-92	11:18 AM		✓	MW-7	6	X	X	X									
MW-10	6-17-92	1:04 PM		X	MW-10	6	X	X	X									
MW-10	6-17-92	12:45 PM		X	MW-10 Equipment Blank	4	X	X	X									
MW-8	6-17-92	1:55 PM		X	MW-8	6	X	X	X									
MW-9	6-17-92	2:38 PM		X	MW-9	6	X	X	X									

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY	DATE	TIME
<i>J. Scott Pearce</i>	6-18-92	9:15 AM	<i>[Signature]</i>	6-19-92	9:12 AM
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY	DATE	TIME
<i>[Signature]</i>			<i>[Signature]</i>	6/18/92	11:00 AM

IEA QUOTE NO.	IEA RUSH NO.
W 9206277	
PROJECT MANAGER (PLEASE PRINT)	P.O. NO.
J. Scott Pearce	

- REMARKS ON SAMPLE RECEIPT
- BOTTLE INTACT
  - PRESERVED
  - CHILLED
  - CUSTODY SEALS
  - SEALS INTACT
  - SEE REMARKS

471-322

IEA REMARKS

FIELD REMARKS

**APPENDIX B**



# IEA

An Aquarion Company

An Environmental Testing Company  
Post Office Box 12846  
Research Triangle Park, NC 27709

Phone 919-677-0090  
Fax 919-677-0427

July 10, 1992

Scott Pearce  
Trigon Engineering, Inc.  
313 Gallimore Dairy Road  
Greensboro, NC 27419

IEA Project No.: 471322  
IEA Reference No.: W9206277  
Client Project I.D.: 015-91-036

Dear Mr. Pearce,

Transmitted herewith are the results of analyses on six samples submitted to our laboratory.

The sample(s) were received chilled and intact.

Analyses were performed according to approved methodologies and meet the requirements of the IEA Quality Assurance Program. Please see the enclosed reports for your results and a copy of the Chain of Custody documentation.

Please do not hesitate to call your Client Account Representative should you have any questions regarding this report.

Very truly yours,

IEA, Inc.

*Suzanne L. Hargrave for*

Linda F. Mitchell  
Director, Technical Support Services

State Certification:

Georgia - #816

New Jersey - #67719

California - #I-1002

Tennessee - #00296

Virginia - #00179

West Virginia - #50

Alabama - #40210

South Carolina - #99021

North Carolina - #37720

#84

Monroe,  
Connecticut  
203-261-4458

Sunrise,  
Florida  
305-846-1730

Schaumburg,  
Illinois  
708-705-0740

N. Billerica,  
Massachusetts  
617-272-5212

Whippany,  
New Jersey  
201-428-8181

Essex Junction,  
Vermont  
802-878-5138



# IEA

An Aquation Company

### PURGEABLE HALOCARBONS EPA 601 COMPOUND LIST

IEA Sample Number:	471-322-1	Date Received:	06/18/92
Client Name:	Trigon Engineering, Inc.	Date Sampled:	06/17/92
Client Project ID:	015-91-036	Date Analyzed:	06/20/92
Sample Identification:	MW-6	Analysis By:	Lewis
Matrix:	Water	Dilution Factor:	1.0

Numbe	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	BQL
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	BQL
9	1,1-Dichloroethane	1.0	BQL
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	BQL
14	Carbon tetrachloride	1.0	BQL
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	BQL
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	BQL
29	1,4-Dichlorobenzene	1.0	BQL

**Comments:**

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

**PURGEABLE HALOCARBONS  
 EPA 601 COMPOUND LIST**

IEA Sample Number:	471-322-2	Date Received:	06/18/92
Client Name:	Trigon Engineering, Inc.	Date Sampled:	06/17/92
Client Project ID:	015-91-036	Date Analyzed:	06/20/92
Sample Identification:	MW-7	Analysis By:	Lewis
Matrix:	Water	Dilution Factor:	1.0

Numbe	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	BQL
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	BQL
9	1,1-Dichloroethane	1.0	BQL
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	BQL
14	Carbon tetrachloride	1.0	BQL
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	BQL
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	BQL
29	1,4-Dichlorobenzene	1.0	BQL

**Comments:**

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit



# IEA

An Aquarion Company

### PURGEABLE HALOCARBONS EPA 601 COMPOUND LIST

IEA Sample Number:	471-322-3	Date Received:	06/18/92
Client Name:	Trigon Engineering, Inc.	Date Sampled:	06/17/92
Client Project ID:	015-91-036	Date Analyzed:	06/21/92
Sample Identification:	MW-10	Analysis By:	Lewis
Matrix:	Water	Dilution Factor:	1.0

Numbe	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	BQL
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	BQL
9	1,1-Dichloroethane	1.0	BQL
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	BQL
14	Carbon tetrachloride	1.0	BQL
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	BQL
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	BQL
29	1,4-Dichlorobenzene	1.0	BQL

**Comments:**

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

**PURGEABLE HALOCARBONS  
EPA 601 COMPOUND LIST**

IEA Sample Number:	471-322-4	Date Received:	06/18/92
Client Name:	Trigon Engineering, Inc.	Date Sampled:	06/17/92
Client Project ID:	015-91-036	Date Analyzed:	06/20/92
Sample Identification:	MW-10 Equipment Blank	Analysis By:	Lewis
Matrix:	Water	Dilution Factor:	1.0

Numbe	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	BQL
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	BQL
9	1,1-Dichloroethane	1.0	BQL
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	BQL
14	Carbon tetrachloride	1.0	BQL
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	BQL
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	BQL
29	1,4-Dichlorobenzene	1.0	BQL

**Comments:**

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit



# IEA

An Aquarion Company

## PURGEABLE HALOCARBONS EPA 601 COMPOUND LIST

IEA Sample Number:	471-322-5	Date Received:	06/18/92
Client Name:	Trigon Engineering, Inc.	Date Sampled:	06/17/92
Client Project ID:	015-91-036	Date Analyzed:	06/20/92
Sample Identification:	MW-8	Analysis By:	Lewis
Matrix:	Water	Dilution Factor:	1.0

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	BQL
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	BQL
9	1,1-Dichloroethane	1.0	BQL
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	BQL
14	Carbon tetrachloride	1.0	BQL
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	BQL
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	BQL
29	1,4-Dichlorobenzene	1.0	BQL

### Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

PURGEABLE HALOCARBONS  
EPA 601 COMPOUND LIST

IEA Sample Number:	471-322-6	Date Received:	06/18/92
Client Name:	Trigon Engineering, Inc.	Date Sampled:	06/17/92
Client Project ID:	015-91-036	Date Analyzed:	06/20/92
Sample Identification:	MW-9	Analysis By:	Lewis
Matrix:	Water	Dilution Factor:	1.0

Numbe	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.0	BQL
2	Bromomethane	1.0	BQL
3	Vinyl Chloride	1.0	BQL
4	Dichlorodifluoromethane	1.0	BQL
5	Chloroethane	1.0	BQL
6	Methylene chloride	1.0	BQL
7	Trichlorofluoromethane	1.0	BQL
8	1,1-Dichloroethene	1.0	BQL
9	1,1-Dichloroethane	1.0	BQL
10	trans-1,2-Dichloroethene	1.0	BQL
11	Chloroform	1.0	BQL
12	1,2-Dichloroethane	1.0	BQL
13	1,1,1-Trichloroethane	1.0	BQL
14	Carbon tetrachloride	1.0	BQL
15	Bromodichloromethane	1.0	BQL
16	1,2-Dichloropropane	1.0	BQL
17	cis-1,3-Dichloropropene	1.0	BQL
18	Trichloroethene	1.0	BQL
19	trans-1,3-Dichloropropene	1.0	BQL
20	1,1,2-Trichloroethane	1.0	BQL
21	Dibromochloromethane	1.0	BQL
22	2-Chloroethylvinyl ether	1.0	BQL
23	Bromoform	1.0	BQL
24	Tetrachloroethene	1.0	BQL
25	1,1,2,2-Tetrachloroethane	1.0	BQL
26	Chlorobenzene	1.0	BQL
27	1,3-Dichlorobenzene	1.0	BQL
28	1,2-Dichlorobenzene	1.0	BQL
29	1,4-Dichlorobenzene	1.0	BQL

Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit



# IEA

An Aquarion Company

### PURGEABLE HALOCARBONS EPA 601 COMPOUND LIST

IEA Sample Number:	471-322	Date Received:	N/A
Client Name:	Trigon Engineering, Inc.	Date Sampled:	N/A
Client Project ID:	Ø15-91-Ø36	Date Analyzed:	Ø6/19/92
Sample Identification:	QC Blank	Analysis By:	Ware
Matrix:	Water	Dilution Factor:	1.Ø

Numbe	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Chloromethane	1.Ø	BQL
2	Bromomethane	1.Ø	BQL
3	Vinyl Chloride	1.Ø	BQL
4	Dichlorodifluoromethane	1.Ø	BQL
5	Chloroethane	1.Ø	BQL
6	Methylene chloride	1.Ø	BQL
7	Trichlorofluoromethane	1.Ø	BQL
8	1,1-Dichloroethene	1.Ø	BQL
9	1,1-Dichloroethane	1.Ø	BQL
1Ø	trans-1,2-Dichloroethene	1.Ø	BQL
11	Chloroform	1.Ø	BQL
12	1,2-Dichloroethane	1.Ø	BQL
13	1,1,1-Trichloroethane	1.Ø	BQL
14	Carbon tetrachloride	1.Ø	BQL
15	Bromodichloromethane	1.Ø	BQL
16	1,2-Dichloropropane	1.Ø	BQL
17	cis-1,3-Dichloropropene	1.Ø	BQL
18	Trichloroethene	1.Ø	BQL
19	trans-1,3-Dichloropropene	1.Ø	BQL
2Ø	1,1,2-Trichloroethane	1.Ø	BQL
21	Dibromochloromethane	1.Ø	BQL
22	2-Chloroethylvinyl ether	1.Ø	BQL
23	Bromoform	1.Ø	BQL
24	Tetrachloroethene	1.Ø	BQL
25	1,1,2,2-Tetrachloroethane	1.Ø	BQL
26	Chlorobenzene	1.Ø	BQL
27	1,3-Dichlorobenzene	1.Ø	BQL
28	1,2-Dichlorobenzene	1.Ø	BQL
29	1,4-Dichlorobenzene	1.Ø	BQL

#### Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

N/A = Not Applicable

Corresponding Samples: 471-322-1 through 471-322-6

**PURGEABLE AROMATICS  
EPA 602 COMPOUND LIST**

IEA Sample Number: 471-322-1 Date Received: 06/18/92  
Client Name: Trigon Engineering, Inc. Date Sampled: 06/17/92  
Client Project ID: 015-91-036 Date Analyzed: 06/21/92  
Sample Identification: MW-6 Analysis By: Lewis  
Matrix: Water Dilution Factor: 1.0

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Benzene	1.0	BQL
2	Chlorobenzene	1.0	BQL
3	1,2-Dichlorobenzene	1.0	BQL
4	1,3-Dichlorobenzene	1.0	BQL
5	1,4-Dichlorobenzene	1.0	BQL
6	Ethylbenzene	1.0	BQL
7	Toluene	1.0	BQL
8	Xylenes (Total)	1.0	BQL

**Comments:**

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

PURGEABLE AROMATICS  
EPA 602 COMPOUND LIST

IEA Sample Number: 471-322-2 Date Received: 06/18/92  
Client Name: Trigon Engineering, Inc. Date Sampled: 06/17/92  
Client Project ID: 015-91-036 Date Analyzed: 06/20/92  
Sample Identification: MW-7 Analysis By: Lewis  
Matrix: Water Dilution Factor: 1.0

Number	Compound	Quantitation	Results
		Limit (ug/L)	Concentration (ug/L)
1	Benzene	1.0	BQL
2	Chlorobenzene	1.0	BQL
3	1,2-Dichlorobenzene	1.0	BQL
4	1,3-Dichlorobenzene	1.0	BQL
5	1,4-Dichlorobenzene	1.0	BQL
6	Ethylbenzene	1.0	BQL
7	Toluene	1.0	BQL
8	Xylenes (Total)	1.0	BQL

Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

**PURGEABLE AROMATICS  
EPA 602 COMPOUND LIST**

IEA Sample Number: 471-322-3 Date Received: 06/18/92  
Client Name: Trigon Engineering, Inc. Date Sampled: 06/17/92  
Client Project ID: 015-91-036 Date Analyzed: 06/20/92  
Sample Identification: MW-10 Analysis By: Lewis  
Matrix Water Dilution Factor: 1.0

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Benzene	1.0	BQL
2	Chlorobenzene	1.0	BQL
3	1,2-Dichlorobenzene	1.0	BQL
4	1,3-Dichlorobenzene	1.0	BQL
5	1,4-Dichlorobenzene	1.0	BQL
6	Ethylbenzene	1.0	BQL
7	Toluene	1.0	BQL
8	Xylenes (Total)	1.0	BQL

**Comments:**

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit



# IEA

An Aquarion Company

## PURGEABLE AROMATICS EPA 602 COMPOUND LIST

IEA Sample Number: 471-322-4      Date Received: 06/18/92  
 Client Name: Trigon Engineering, Inc.      Date Sampled: 06/17/92  
 Client Project ID: 015-91-036      Date Analyzed: 06/20/92  
 Sample Identification: MW-10 Equipment Blank      Analysis By: Lewis  
 Matrix: Water      Dilution Factor: 1.0

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Benzene	1.0	BQL
2	Chlorobenzene	1.0	BQL
3	1,2-Dichlorobenzene	1.0	BQL
4	1,3-Dichlorobenzene	1.0	BQL
5	1,4-Dichlorobenzene	1.0	BQL
6	Ethylbenzene	1.0	BQL
7	Toluene	1.0	BQL
8	Xylenes (Total)	1.0	BQL

**Comments:**

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

**PURGEABLE AROMATICS  
EPA 602 COMPOUND LIST**

IEA Sample Number: 471-322-5  
Client Name: Trigon Engineering, Inc.  
Client Project ID: 015-91-036  
Sample Identification: MW-8  
Matrix: Water  
Date Received: 06/18/92  
Date Sampled: 06/17/92  
Date Analyzed: 06/20/92  
Analysis By: Lewis  
Dilution Factor: 1.0

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Benzene	1.0	BQL
2	Chlorobenzene	1.0	BQL
3	1,2-Dichlorobenzene	1.0	BQL
4	1,3-Dichlorobenzene	1.0	BQL
5	1,4-Dichlorobenzene	1.0	BQL
6	Ethylbenzene	1.0	BQL
7	Toluene	1.0	BQL
8	Xylenes (Total)	1.0	BQL

**Comments:**

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.  
BQL = Below Quantitation Limit



# IEA

An Aquarion Company

## PURGEABLE AROMATICS EPA 602 COMPOUND LIST

IEA Sample Number: 471-322-6      Date Received: 06/18/92  
Client Name: Trigon Engineering, Inc.      Date Sampled: 06/17/92  
Client Project ID: 015-91-036      Date Analyzed: 06/20/92  
Sample Identification: MW-9      Analysis By: Lewis  
Matrix: Water      Dilution Factor: 1.0

Number	Compound	Quantitation Limit (ug/L)	Results Concentration (ug/L)
1	Benzene	1.0	BQL
2	Chlorobenzene	1.0	BQL
3	1,2-Dichlorobenzene	1.0	BQL
4	1,3-Dichlorobenzene	1.0	BQL
5	1,4-Dichlorobenzene	1.0	BQL
6	Ethylbenzene	1.0	BQL
7	Toluene	1.0	BQL
8	Xylenes (Total)	1.0	BQL

### Comments:

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit



**IEA**  
An Aquarion Company

**PURGEABLE AROMATICS  
EPA 602 COMPOUND LIST**

IEA Sample Number:	471-322	Date Received:	N/A
Client Name:	Trigon Engineering, Inc.	Date Sampled:	N/A
Client Project ID:	Ø15-91-Ø36	Date Analyzed:	Ø6/2Ø/92
Sample Identification:	QC Blank	Analysis By:	Lewis
Matrix:	Water	Dilution Factor:	1.

Number	Compound	Quantitation Limit (ug/L)	Results Concentrat (ug/L)
1	Benzene	1.Ø	BQL
2	Chlorobenzene	1.Ø	BQL
3	1,2-Dichlorobenzene	1.Ø	BQL
4	1,3-Dichlorobenzene	1.Ø	BQL
5	1,4-Dichlorobenzene	1.Ø	BQL
6	Ethylbenzene	1.Ø	BQL
7	Toluene	1.Ø	BQL
8	Xylenes (Total)	1.Ø	BQL

**Comments:**

Sample specific quantitation limits may be calculated by multiplying the quantitation limit by the dilution factor.

BQL = Below Quantitation Limit

N/A = Not Applicable

Corresponding Samples: 471-322-1, 2, 3, 4, 5, 6