

HATCHER INCORPORATED

April 27, 1987

Mr. Richard O'Hara, Chief
Department of Natural Resources
Hazardous Waste Management Section
101 S. Webster Street, GEF II
P.O.Box 7921
Madison, Wisconsin 53707

APR 30 1987

Re: Freeman Chemical Corporation
Groundwater Remediation
Monitoring
1987 Spring Quarter Results
Saukville, Wisconsin
Job No. 0001-003

Dear Richard:

Enclosed are the analytical data on the groundwater samples collected this past March from Freeman Chemical's Saukville, Wisconsin, plant site. The samples were collected by CBC - Environmental Services, Oakbrook, Wisconsin, and analyzed by Cal Lab East, Inc., Richmond, Virginia. Reported herein are 30 of the 34 samples requested. Samples were not collected by CBC for Wells 29, 30, 40 and 43 either because they were dry or CBC was unable to locate them. These wells were resampled this month and the results will be sent when they become available.

The results of these analyses are essentially within the range of past analyses and contain nothing unusual. The quarterly results form 1986 will be included in the Remedial Action Annual Report which is to be submitted by June 1. If you have any questions, please give me a call.

Sincerely,

HATCHER INCORPORATED

Roger F. Hatcher

Roger F. Hatcher, Ph.D.
President

RFH/pac
Enclosures

cc: Russell L. Cerk
Craig Bostwick
Marian J. Barnes

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated

Sample I.D.: MW-1

APR 30 1987

Project: H24

CLE I.D.: H24-1

	<u>ug/L (ppb)</u>	<u>Found</u>
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(25)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	ND	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(1)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	ND	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	ND	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	ND	(1)
Styrene	ND	(1)
Total Xylenes	ND	(1)

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated

Sample I.D.: MW-2

Project: H24

CLE I.D.: H24-2

	<u>ug/L</u>	<u>(ppb)</u>	<u>Found</u>
Chloromethane	ND	(1)	
Bromomethane	ND	(1)	
Vinyl Chloride	ND	(1)	
Chloroethane	ND	(1)	
Methylene Chloride	ND	(15)	
Acetone	ND	(25)	
Carbon Disulfide	ND	(1)	
1,1-Dichloroethene	ND	(1)	
1,1-Dichloroethane	ND	(1)	
trans-1,2-Dichloroethene	ND	(1)	
Chloroform	ND	(1)	
1,2-Dichloroethane	ND	(1)	
2-Butanone	ND	(10)	
1,1,1-Trichloroethane	ND	(1)	
Carbon Tetrachloride	ND	(1)	
Vinyl Acetate	ND	(1)	
Bromodichloromethane	ND	(1)	
1,1,2,2-Tetrachloroethane	ND	(1)	
1,2-Dichloropropane	ND	(1)	
trans-1,3-Dichloropropene	ND	(1)	
Trichloroethene	ND	(1)	
Dibromochloromethane	ND	(1)	
1,1,2-Trichloroethane	ND	(1)	
Benzene	ND	(1)	
cis-1,3-Dichloropropene	ND	(1)	
2-Chloroethylvinylether	ND	(1)	
Bromoform	ND	(1)	
2-Hexanone	ND	(5)	
4-Methyl-2-Pentanone	ND	(5)	
Tetrachloroethene	ND	(1)	
Toluene	ND	(1)	
Chlorobenzene	ND	(1)	
Ethylbenzene	ND	(1)	
Styrene	ND	(1)	
Total Xylenes	ND	(1)	

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: MW-3Project: H24
CLE I.D.: H24-3

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(25)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	ND	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(1)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	ND	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	ND	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	ND	(1)
Styrene	ND	(1)
Total Xylenes	ND	(1)

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated

Sample I.D.: MW-4

Project: H24

CLE I.D.: H24-4

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(25)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	ND	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(1)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	ND	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	ND	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	ND	(1)
Styrene	ND	(1)
Total Xylenes	ND	(1)

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: W16-AProject: H21
CLE I.D.: H21-1

	<u>ug/L (ppb)</u>	<u>Found</u>
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	ND	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(2)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	ND	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	ND	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	ND	(1)
Styrene	ND	(1)
Total Xylenes	ND	(1)

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: W-21AProject: H21
CLE I.D.: H21-2

	ug/L	(ppb)	Found
Chloromethane	ND	(200)	
Bromomethane	ND	(200)	
Vinyl Chloride	230	(200)	
Chloroethane	ND	(200)	
Methylene Chloride	ND	(3000)	
Acetone	ND	(4000)	
Carbon Disulfide	ND	(200)	
1,1-Dichloroethene	ND	(200)	
1,1-Dichloroethane	ND	(200)	
trans-1,2-Dichloroethene	260	(200)	
Chloroform	ND	(200)	
1,2-Dichloroethane	ND	(200)	
2-Butanone	ND	(2000)	
1,1,1-Trichloroethane	ND	(200)	
Carbon Tetrachloride	ND	(200)	
Vinyl Acetate	ND	(200)	
Bromodichloromethane	ND	(200)	
1,1,2,2-Tetrachloroethane	ND	(400)	
1,2-Dichloropropane	ND	(200)	
trans-1,3-Dichloropropene	ND	(200)	
Trichloroethene	ND	(200)	
Dibromochloromethane	ND	(200)	
1,1,2-Trichloroethane	ND	(200)	
Benzene	2000	(200)	
cis-1,3-Dichloropropene	ND	(200)	
2-Chloroethylvinylether	ND	(200)	
Bromoform	ND	(200)	
2-Hexanone	ND	(1000)	
4-Methyl-2-Pentanone	ND	(1000)	
Tetrachloroethene	ND	(200)	
Toluene	3300	(200)	
Chlorobenzene	ND	(200)	
Ethylbenzene	18000	(200)	
Styrene	ND	(200)	
Total Xylenes	13000	(200)	

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA



EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: W-22Project: H21
CLE I.D.: H21-3

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	ND	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(2)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	ND	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	ND	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	ND	(1)
Styrene	ND	(1)
Total Xylenes	ND	(1)

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: W-23Project: H21
CLE I.D.: H21-4

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	5	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	3	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(2)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	3	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	2	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	ND	(1)
Styrene	ND	(1)
Total Xylenes	5	(1)

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: W-24AProject: H21
CLE I.D.: H21-5

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	12	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	26	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(2)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	1	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	3	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	3	(1)
Styrene	ND	(1)
Total Xylenes	15	(1)

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: W-28Project: H21
CLE I.D.: H21-6

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	29	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	9	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(2)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	7	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	2	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	4	(1)
Styrene	ND	(1)
Total Xylenes	16	(1)

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: W-38Project: H21
CLE I.D.: H21-7

	ug/L	(ppb)	Found
Chloromethane	ND	(100)	
Bromomethane	ND	(100)	
Vinyl Chloride	ND	(100)	
Chloroethane	ND	(100)	
Methylene Chloride	ND	(1500)	
Acetone	ND	(4000)	
Carbon Disulfide	ND	(100)	
1,1-Dichloroethene	ND	(100)	
1,1-Dichloroethane	ND	(100)	
trans-1,2-Dichloroethene	ND	(100)	
Chloroform	ND	(100)	
1,2-Dichloroethane	ND	(100)	
2-Butanone	ND	(1500)	
1,1,1-Trichloroethane	ND	(100)	
Carbon Tetrachloride	ND	(100)	
Vinyl Acetate	ND	(100)	
Bromodichloromethane	ND	(100)	
1,1,2,2-Tetrachloroethane	ND	(200)	
1,2-Dichloropropane	ND	(100)	
trans-1,3-Dichloropropene	ND	(100)	
Trichloroethene	ND	(100)	
Dibromochloromethane	ND	(100)	
1,1,2-Trichloroethane	ND	(100)	
Benzene	7700	(100)	
cis-1,3-Dichloropropene	ND	(100)	
2-Chloroethylvinylether	ND	(100)	
Bromoform	ND	(100)	
2-Hexanone	1700	(500)	
4-Methyl-2-Pentanone	ND	(500)	
Tetrachloroethene	ND	(100)	
Toluene	12000	(100)	
Chlorobenzene	ND	(100)	
Ethylbenzene	13000	(100)	
Styrene	ND	(100)	
Total Xylenes	23000	(100)	

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: W-39Project: H21
CLE I.D.: H21-8

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	ND	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(2)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	ND	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	ND	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	ND	(1)
Styrene	ND	(1)
Total Xylenes	ND	(1)

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: W-41Project: H21
CLE I.D.: H21-9

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(20)
Bromomethane	ND	(20)
Vinyl Chloride	ND	(20)
Chloroethane	ND	(20)
Methylene Chloride	ND	(300)
Acetone	ND	(400)
Carbon Disulfide	ND	(20)
1,1-Dichloroethene	ND	(20)
1,1-Dichloroethane	ND	(20)
trans-1,2-Dichloroethene	ND	(20)
Chloroform	ND	(20)
1,2-Dichloroethane	ND	(20)
2-Butanone	ND	(200)
1,1,1-Trichloroethane	ND	(20)
Carbon Tetrachloride	ND	(20)
Vinyl Acetate	ND	(20)
Bromodichloromethane	ND	(20)
1,1,2,2-Tetrachloroethane	ND	(40)
1,2-Dichloropropane	ND	(20)
trans-1,3-Dichloropropene	ND	(20)
Trichloroethene	ND	(20)
Dibromochloromethane	ND	(20)
1,1,2-Trichloroethane	ND	(20)
Benzene	ND	(20)
cis-1,3-Dichloropropene	ND	(20)
2-Chloroethylvinylether	ND	(20)
Bromoform	ND	(20)
2-Hexanone	ND	(100)
4-Methyl-2-Pentanone	ND	(100)
Tetrachloroethene	ND	(20)
Toluene	33	(20)
Chlorobenzene	ND	(20)
Ethylbenzene	2400	(20)
Styrene	ND	(400)*
Total Xylenes	8100	(20)

ND = None detected; reporting limit in parentheses.

* = Reporting limit raised due to interference.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated

Sample I.D.: W-42

Project: H21

CLE I.D.: H21-10

	<u>ug/L (ppb)</u>	<u>Found</u>
Chloromethane	ND	(20)
Bromomethane	ND	(20)
Vinyl Chloride	260	(20)
Chloroethane	ND	(20)
Methylene Chloride	ND	(300)
Acetone	ND	(400)
Carbon Disulfide	ND	(20)
1,1-Dichloroethene	ND	(20)
1,1-Dichloroethane	ND	(20)
trans-1,2-Dichloroethene	ND	(20)
Chloroform	ND	(20)
1,2-Dichloroethane	53	(20)
2-Butanone	ND	(200)
1,1,1-Trichloroethane	ND	(20)
Carbon Tetrachloride	ND	(20)
Vinyl Acetate	ND	(20)
Bromodichloromethane	ND	(20)
1,1,2,2-Tetrachloroethane	ND	(40)
1,2-Dichloropropane	ND	(20)
trans-1,3-Dichloropropene	ND	(20)
Trichloroethene	ND	(20)
Dibromochloromethane	ND	(20)
1,1,2-Trichloroethane	ND	(20)
Benzene	1700	(20)
cis-1,3-Dichloropropene	ND	(20)
2-Chloroethylvinylether	ND	(20)
Bromoform	ND	(20)
2-Hexanone	ND	(100)
4-Methyl-2-Pentanone	ND	(100)
Tetrachloroethene	ND	(20)
Toluene	630	(20)
Chlorobenzene	ND	(20)
Ethylbenzene	75	(20)
Styrene	ND	(20)
Total Xylenes	300	(20)

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: W-44Project: H21
CLE I.D.: H21-11

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(200)
Bromomethane	ND	(200)
Vinyl Chloride	ND	(200)
Chloroethane	ND	(200)
Methylene Chloride	ND	(3000)
Acetone	ND	(4000)
Carbon Disulfide	ND	(200)
1,1-Dichloroethene	ND	(200)
1,1-Dichloroethane	ND	(200)
trans-1,2-Dichloroethene	780	(200)
Chloroform	ND	(200)
1,2-Dichloroethane	ND	(200)
2-Butanone	ND	(2000)
1,1,1-Trichloroethane	ND	(200)
Carbon Tetrachloride	ND	(200)
Vinyl Acetate	ND	(200)
Bromodichloromethane	ND	(200)
1,1,2,2-Tetrachloroethane	ND	(200)
1,2-Dichloropropane	ND	(200)
trans-1,3-Dichloropropene	ND	(200)
Trichloroethene	ND	(200)
Dibromochloromethane	ND	(200)
1,1,2-Trichloroethane	ND	(200)
Benzene	4400	(200)
cis-1,3-Dichloropropene	ND	(200)
2-Chloroethylvinylether	ND	(200)
Bromoform	ND	(200)
2-Hexanone	ND	(1000)
4-Methyl-2-Pentanone	ND	(1000)
Tetrachloroethene	ND	(200)
Toluene	14000	(200)
Chlorobenzene	ND	(200)
Ethylbenzene	8300	(200)
Styrene	ND	(200)
Total Xylenes	27000	(200)

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: W-45Project: H21
CLE I.D.: H21-12

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	2	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	ND	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(2)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	58	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	99	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	96	(1)
Styrene	ND	(1)
Total Xylenes	220	(1)

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated

Sample I.D.: W-46

Project: H21

CLE I.D.: H21-13

	<u>ug/L (ppb)</u>	<u>Found</u>
Chloromethane	ND	(10)
Bromomethane	ND	(10)
Vinyl Chloride	ND	(10)
Chloroethane	ND	(10)
Methylene Chloride	ND	(150)
Acetone	ND	(200)
Carbon Disulfide	ND	(10)
1,1-Dichloroethene	ND	(10)
1,1-Dichloroethane	ND	(10)
trans-1,2-Dichloroethene	15	(10)
Chloroform	ND	(10)
1,2-Dichloroethane	ND	(10)
2-Butanone	ND	(100)
1,1,1-Trichloroethane	ND	(10)
Carbon Tetrachloride	ND	(10)
Vinyl Acetate	ND	(10)
Bromodichloromethane	ND	(10)
1,1,2,2-Tetrachloroethane	ND	(10)
1,2-Dichloropropane	ND	(10)
trans-1,3-Dichloropropene	ND	(10)
Trichloroethene	ND	(10)
Dibromochloromethane	ND	(10)
1,1,2-Trichloroethane	ND	(10)
Benzene	17	(10)
cis-1,3-Dichloropropene	ND	(10)
2-Chloroethylvinylether	ND	(10)
Bromoform	ND	(10)
2-Hexanone	ND	(50)
4-Methyl-2-Pentanone	ND	(50)
Tetrachloroethene	ND	(10)
Toluene	1300	(10)
Chlorobenzene	ND	(10)
Ethylbenzene	270	(10)
Styrene	ND	(20)*
Total Xylenes	5400	(10)

ND = None detected; reporting limit in parentheses.

* = Reporting limit raised due to interference.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated

Sample I.D.: W-47

Project: H21

CLE I.D.: H21-14

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(500)
Bromomethane	ND	(500)
Vinyl Chloride	ND	(500)
Chloroethane	ND	(500)
Methylene Chloride	ND	(7500)
Acetone	ND	(10000)
Carbon Disulfide	ND	(500)
1,1-Dichloroethene	ND	(500)
1,1-Dichloroethane	ND	(500)
trans-1,2-Dichloroethene	ND	(500)
Chloroform	ND	(500)
1,2-Dichloroethane	ND	(500)
2-Butanone	ND	(5000)
1,1,1-Trichloroethane	ND	(500)
Carbon Tetrachloride	ND	(500)
Vinyl Acetate	ND	(500)
Bromodichloromethane	ND	(500)
1,1,2,2-Tetrachloroethane	ND	(500)
1,2-Dichloropropane	ND	(500)
trans-1,3-Dichloropropene	ND	(500)
Trichloroethene	ND	(500)
Dibromochloromethane	ND	(500)
1,1,2-Trichloroethane	ND	(500)
Benzene	760	(500)
cis-1,3-Dichloropropene	ND	(500)
2-Chloroethylvinylether	ND	(500)
Bromoform	ND	(500)
2-Hexanone	ND	(2500)
4-Methyl-2-Pentanone	ND	(2500)
Tetrachloroethene	ND	(500)
Toluene	18000	(500)
Chlorobenzene	ND	(500)
Ethylbenzene	16000	(500)
Styrene	ND	(500)
Total Xylenes	94000	(500)

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated

Sample I.D.: W-48

Project: H21

CLE I.D.: H21-15

	<u>ug/L</u>	<u>(ppb)</u>	<u>Found</u>
Chloromethane	ND	(1)	
Bromomethane	ND	(1)	
Vinyl Chloride	ND	(1)	
Chloroethane	2	(1)	
Methylene Chloride	ND	(15)	
Acetone	ND	(20)	
Carbon Disulfide	ND	(1)	
1,1-Dichloroethene	ND	(1)	
1,1-Dichloroethane	ND	(1)	
trans-1,2-Dichloroethene	4	(1)	
Chloroform	ND	(1)	
1,2-Dichloroethane	27	(1)	
2-Butanone	ND	(10)	
1,1,1-Trichloroethane	ND	(1)	
Carbon Tetrachloride	ND	(1)	
Vinyl Acetate	ND	(1)	
Bromodichloromethane	ND	(1)	
1,1,2,2-Tetrachloroethane	ND	(1)	
1,2-Dichloropropane	ND	(1)	
trans-1,3-Dichloropropene	ND	(1)	
Trichloroethene	ND	(1)	
Dibromochloromethane	ND	(1)	
1,1,2-Trichloroethane	ND	(1)	
Benzene	ND	(1)	
cis-1,3-Dichloropropene	ND	(1)	
2-Chloroethylvinylether	ND	(1)	
Bromoform	ND	(1)	
2-Hexanone	ND	(5)	
4-Methyl-2-Pentanone	ND	(5)	
Tetrachloroethene	ND	(1)	
Toluene	3	(1)	
Chlorobenzene	ND	(1)	
Ethylbenzene	3	(1)	
Styrene	ND	(1)	
Total Xylenes	8	(1)	

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: PZ-6AProject: H21
CLE I.D.: H21-16

	<u>ug/L</u>	<u>(ppb)</u>	<u>Found</u>
Chloromethane	ND	(500)	
Bromomethane	ND	(500)	
Vinyl Chloride	ND	(500)	
Chloroethane	ND	(500)	
Methylene Chloride	ND	(7500)	
Acetone	ND	(10000)	
Carbon Disulfide	ND	(500)	
1,1-Dichloroethene	ND	(500)	
1,1-Dichloroethane	ND	(500)	
trans-1,2-Dichloroethene	3000	(500)	
Chloroform	ND	(500)	
1,2-Dichloroethane	ND	(500)	
2-Butanone	ND	(5000)	
1,1,1-Trichloroethane	ND	(500)	
Carbon Tetrachloride	ND	(500)	
Vinyl Acetate	ND	(500)	
Bromodichloromethane	ND	(500)	
1,1,2,2-Tetrachloroethane	ND	(500)	
1,2-Dichloropropane	ND	(500)	
trans-1,3-Dichloropropene	ND	(500)	
Trichloroethene	ND	(500)	
Dibromochloromethane	ND	(500)	
1,1,2-Trichloroethane	ND	(500)	
Benzene	1900	(500)	
cis-1,3-Dichloropropene	ND	(500)	
2-Chloroethylvinylether	ND	(500)	
Bromoform	ND	(500)	
2-Hexanone	ND	(2500)	
4-Methyl-2-Pentanone	ND	(2500)	
Tetrachloroethene	ND	(500)	
Toluene	63000	(500)	
Chlorobenzene	ND	(500)	
Ethylbenzene	16000	(500)	
Styrene	ND	(500)	
Total Xylenes	75000	(500)	

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: PZ-18AProject: H21
CLE I.D.: H21-17

	<u>ug/L (ppb)</u>	<u>Found</u>
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	3	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(1)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	2	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	180	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	74	(1)
Styrene	ND	(4)*
Total Xylenes	390	(1)

ND = None detected; reporting limit in parentheses.

* = Reporting limit raised due to interference.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: PZ-19AProject: H21
CLE I.D.: H21-18

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	5	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	41	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(1)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	160	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	ND	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	2	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	2	(1)
Styrene	ND	(1)
Total Xylenes	4	(1)

ND = None detected; reporting limit in parentheses.



VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: PZ-20Project: H21
CLE I.D.: H21-19

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	ND	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(1)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	ND	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	24	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	17	(1)
Styrene	ND	(1)
Total Xylenes	58	(1)

ND = None detected; reporting limit in parentheses.



VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: PZ-27

Project: H21
CLE I.D.: H21-20

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	58	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(1)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	150	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	2	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	13	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	14	(1)
Styrene	ND	(1)
Total Xylenes	41	(1)

ND = None detected; reporting limit in parentheses.



VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: PZ-14B

Project: H21
CLE I.D.: H21-21

	<u>ug/L (ppb)</u>	<u>Found</u>
Chloromethane	ND	(10)
Bromomethane	ND	(10)
Vinyl Chloride	ND	(10)
Chloroethane	ND	(10)
Methylene Chloride	ND	(150)
Acetone	ND	(200)
Carbon Disulfide	ND	(10)
1,1-Dichloroethene	ND	(10)
1,1-Dichloroethane	ND	(10)
trans-1,2-Dichloroethene	ND	(10)
Chloroform	ND	(10)
1,2-Dichloroethane	ND	(10)
2-Butanone	ND	(100)
1,1,1-Trichloroethane	ND	(10)
Carbon Tetrachloride	ND	(10)
Vinyl Acetate	ND	(10)
Bromodichloromethane	ND	(10)
1,1,2,2-Tetrachloroethane	ND	(10)
1,2-Dichloropropane	ND	(10)
trans-1,3-Dichloropropane	ND	(10)
Trichloroethene	ND	(10)
Dibromochloromethane	ND	(10)
1,1,2-Trichloroethane	ND	(10)
Benzene	ND	(10)
cis-1,3-Dichloropropene	ND	(10)
2-Chloroethylvinylether	ND	(10)
Bromoform	ND	(10)
2-Hexanone	ND	(50)
4-Methyl-2-Pentanone	ND	(50)
Tetrachloroethene	ND	(10)
Toluene	66	(10)
Chlorobenzene	ND	(10)
Ethylbenzene	410	(10)
Styrene	170	(10)
Total Xylenes	4300	(10)

ND = None detected; reporting limit in parentheses.



VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: PW-8

Project: H21
CLE I.D.: H21-22

	<u>ug/L (ppb)</u>	<u>Found</u>
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	ND	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(1)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	1	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	6	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	9	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	17	(1)
Styrene	ND	(1)
Total Xylenes	30	(1)

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: Trip BlankProject: H21
CLE I.D.: H21-23

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	49*	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	ND	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(1)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	3	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	ND	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	ND	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	ND	(1)
Styrene	ND	(1)
Total Xylenes	ND	(1)

ND = None detected; reporting limit in parentheses.

* = See cover letter.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: W-3AProject: H21
CLE I.D.: H21-24

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	ND	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(1)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	ND	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	3	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	2	(1)
Styrene	ND	(1)
Total Xylenes	4	(1)

ND = None detected; reporting limit in parentheses.



VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: W-3B

Project: H21
CLE I.D.: H21-25

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	ND	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(1)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	ND	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	5	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	2	(1)
Styrene	ND	(1)
Total Xylenes	7	(1)

ND = None detected; reporting limit in parentheses.



VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated

Sample I.D.: PZ-7A

Project: H21

CLE I.D.: H21-26

	<u>ug/L (ppb)</u>	<u>Found</u>
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	ND	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(1)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	ND	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	7	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	10	(1)
Styrene	ND	(1)
Total Xylenes	43	(1)

ND = None detected; reporting limit in parentheses.



VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: PZ-8A

Project: H21
CLE I.D.: H21-27

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	ND	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(1)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	ND	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	2	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	ND	(1)
Styrene	ND	(1)
Total Xylenes	7	(1)

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: Inside Field BlankProject: H21
CLE I.D.: H21-28

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	ND	(1)
Chloroform	2	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(1)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	ND	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	2	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	ND	(1)
Styrene	ND	(1)
Total Xylenes	3	(1)

ND = None detected; reporting limit in parentheses.



VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: Outside Field Blank

Project: H21
CLE I.D.: H21-29

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	ND	(1)
Chloroform	2	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(1)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	ND	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	1	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	ND	(1)
Styrene	ND	(1)
Total Xylenes	ND	(1)

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: Trip BlankProject: H21
CLE I.D.: H21-30

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	ND	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(1)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropane	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	ND	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	ND	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	ND	(1)
Styrene	ND	(1)
Total Xylenes	ND	(1)

ND = None detected; reporting limit in parentheses.

VOLATILE ORGANIC COMPOUNDS DATA

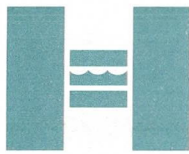
EPA METHOD 624

(As Modified by the CLP)

Hatcher Incorporated
Sample I.D.: CLE Holding BlankProject: H21
CLE I.D.: HB331

	<u>ug/L (ppb) Found</u>	
Chloromethane	ND	(1)
Bromomethane	ND	(1)
Vinyl Chloride	ND	(1)
Chloroethane	ND	(1)
Methylene Chloride	ND	(15)
Acetone	ND	(20)
Carbon Disulfide	ND	(1)
1,1-Dichloroethene	ND	(1)
1,1-Dichloroethane	ND	(1)
trans-1,2-Dichloroethene	ND	(1)
Chloroform	ND	(1)
1,2-Dichloroethane	ND	(1)
2-Butanone	ND	(10)
1,1,1-Trichloroethane	ND	(1)
Carbon Tetrachloride	ND	(1)
Vinyl Acetate	ND	(1)
Bromodichloromethane	ND	(1)
1,1,2,2-Tetrachloroethane	ND	(1)
1,2-Dichloropropane	ND	(1)
trans-1,3-Dichloropropene	ND	(1)
Trichloroethene	ND	(1)
Dibromochloromethane	ND	(1)
1,1,2-Trichloroethane	ND	(1)
Benzene	ND	(1)
cis-1,3-Dichloropropene	ND	(1)
2-Chloroethylvinylether	ND	(1)
Bromoform	ND	(1)
2-Hexanone	ND	(5)
4-Methyl-2-Pentanone	ND	(5)
Tetrachloroethene	ND	(1)
Toluene	ND	(1)
Chlorobenzene	ND	(1)
Ethylbenzene	ND	(1)
Styrene	ND	(1)
Total Xylenes	ND	(1)

ND = None detected; reporting limit in parentheses.



HATCHER INCORPORATED

July 23, 1987

JUL 28 1987

Mr. Mark Tusler
Wisconsin Department of Natural Resources
Hazardous Waste Management Section
101 S. Webster Street, GEF II
Madison, Wisconsin 53707

Re: Freeman Chemical Corporation
Groundwater Remediation
Saukville, Wisconsin
1987 Summer Quarter Results
Job No. 0001-003

Dear Mark:

Enclosed are the analytical data on the groundwater samples collected this past June from Freeman Chemical's Saukville plant site. The samples were collected by CBC - Environmental Services, Oakbrook, Wisconsin, and analyzed by Cal Lab East, Inc. (Enesco), Richmond, Virginia. Reported herein are 22 of the 29 samples anticipated to be analyzed. Samples were not collected by CBC for Wells 43, 45 and 46 because they did not contain water during this period. Wells 21A, 28 and 29 were not sampled by CBC this month because they were having pumps installed during the week of sampling. Sample 3A was lost during laboratory analysis due to an autosampler failure.

The results of these analyses are essentially within the range of past analyses. As I indicated to you over the phone, by comparing the attached diagram with Figure 2-2 of the Site Construction Report, it does appear that the extent of contamination in the glacial aquifer has somewhat diminished. No apparent change was detectable for the shallow dolomite aquifer.

If you have any questions, please don't hesitate to give us a call.

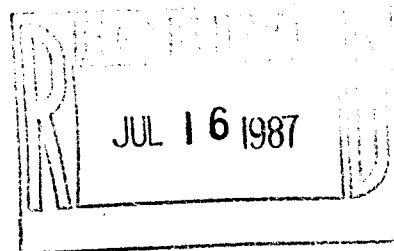
Sincerely,
HATCHER INCORPORATED

James D. Knauss / Jam
James D. Knauss, Ph.D.
Principal

JDK/tam
Attachments
cc: Russell L. Cerk
Craig Bostwick
Marian Barnes



July 16, 1987



Roger Hatcher, Ph.D.
Hatcher Incorporated
1523 Huguenot Road
Suite 101
Midlothian, VA 23113

JUL 28 1987

Dear Roger:

Enclosed is the analytical report for Project H33 which included the quarterly monitoring samples for Freeman Chemical.

Sample H33-6 was lost during analysis due to an autosampler failure. We were unable to repeat the analysis due to the lack of sample therefore no data is reported.

All QC data were within acceptable limits except surrogate recoveries in samples H33-5 and H33-11 in which 1,2-dichloroethane-d₄ was high. Surrogate recoveries in the method blank were acceptable therefore reanalysis was not performed on the basis of surrogates. H33-5 was reanalyzed at a lower dilution. Both analyses of this sample had a high recovery of 1,2-dichloroethane-d₄.

The reporting limit for acetone in sample H33-19 was raised. The amount of acetone in the sample was slightly elevated above background levels. Since the sample required a multiple dilution, it is probable that this level is not significant.

If you have any questions, please call me.

Sincerely,

A handwritten signature in cursive script that reads "Peggy S. Sleevi".

Peggy S. Sleevi
Operations Manger
Environmental Sciences

PSS/crp

Enclosure

ANALYTICAL REPORT
PROJECT H33



JUL 28 1987

For

HATCHER INCORPORATED

July 17, 1987

2240 Dabney Road
Richmond, Virginia 23230
804/359-1900

Facsimile: 804/353-1860

SAMPLE DESCRIPTION INFORMATION

FOR

HATCHER INCORPORATED

JUL 28 1987

<u>CLE I.D.</u>	<u>Sample Description</u>	<u>Sample Type</u>	<u>Date Sampled</u>	<u>Date Received</u>
H33-1	Trip Blank	Water	05/28/87	06/24/87
H33-2	Field Blank (Inside)	Water	06/23/87	06/24/87
H33-3	Field Blank (Outside)	Water	06/23/87	06/24/87
H33-4	PZ-7A	Water	06/23/87	06/24/87
H33-5	W-40	Water	06/23/87	06/24/87
H33-6	W-3A	Water	06/23/87	06/24/87
H33-7	PZ-19A	Water	06/23/87	06/24/87
H33-8	PZ-27	Water	06/23/87	06/24/87
H33-9	PZ-18A	Water	06/23/87	06/24/87
H33-10	PZ-1A	Water	06/23/87	06/24/87
H33-11	W-47	Water	06/23/87	06/24/87
H33-12	W-48	Water	06/23/87	06/24/87
H33-13	W-44	Water	06/23/87	06/24/87
H33-14	W-42	Water	06/23/87	06/24/87
H33-15	Field Blank (Inside)	Water	06/24/87	06/26/87
H33-16	Field Blank (Outside)	Water	06/24/87	06/26/87
H33-17	W-41	Water	06/24/87	06/26/87
H33-18	W-25	Water	06/24/87	06/26/87
H33-19	PZ-6A	Water	06/24/87	06/26/87
H33-20	Trip Blank	Water	06/25/87	06/26/87
H33-21	Field Blank (Inside)	Water	06/25/87	06/26/87
H33-22	Field Blank (Outside)	Water	06/25/87	06/26/87
H33-23	MW1	Water	06/25/87	06/26/87
H33-24	MW2	Water	06/25/87	06/26/87
H33-25	MW3	Water	06/25/87	06/26/87
H33-26	W-30	Water	06/25/87	06/26/87
H33-27	24A	Water	06/25/87	06/26/87
H33-28	PZ-14B	Water	06/25/87	06/26/87
H33-29	PZ-4A	Water	06/25/87	06/26/87
H33-30	W-38	Water	06/25/87	06/26/87
H33-31	PW-8	Water	06/25/87	06/26/87

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: Trip Blank

Laboratory I.D.: H33-1 Enseco I.D.: NA

Matrix: Water Sampled: 05/28/87 Received: 06/24/87

Authorized: 06/24/87 Prepared: NA Analyzed: 06/26/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	20
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	1
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected
 NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: Field Blank (Inside)

Laboratory I.D.: H33-2 Enseco I.D.: NA

Matrix: Water Sampled: 06/23/87 Received: 06/24/87

Authorized: 06/24/87 Prepared: NA Analyzed: 06/26/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	20
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	2
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected

NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: Field Blank (Outside)

Laboratory I.D.: H33-3 Enseco I.D.: NA

Matrix: Water Sampled: 06/23/87 Received: 06/24/87

Authorized: 06/24/87 Prepared: NA Analyzed: 06/26/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	20
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	2
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected
 NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: PZ-7A

Laboratory I.D.: H33-4 Enseco I.D.: NA

Matrix: Water Sampled: 06/23/87 Received: 06/24/87

Authorized: 06/24/87 Prepared: NA Analyzed: 06/26/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	20
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	2
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected
 NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: W-40

Laboratory I.D.: H33-5 Enseco I.D.: NA

Matrix: Water Sampled: 06/23/87 Received: 06/24/87

Authorized: 06/24/87 Prepared: NA Analyzed: 06/29/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	20
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	2
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	5	ug/L	1

ND = Not Detected
 NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: PZ-19A

Laboratory I.D.: H33-7 Enseco I.D.: NA

Matrix: Water Sampled: 06/23/87 Received: 06/24/87

Authorized: 06/24/87 Prepared: NA Analyzed: 06/26/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	9	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	20
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	2	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	100	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	370	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	2
Tetrachloroethene	2	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	3	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected
 NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: PZ-27

Laboratory I.D.: H33-8 Enseco I.D.: NA

Matrix: Water Sampled: 06/23/87 Received: 06/24/87

Authorized: 06/24/87 Prepared: NA Analyzed: 06/29/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	2
Bromomethane	ND	ug/L	2
Vinyl Chloride	ND	ug/L	2
Chloroethane	ND	ug/L	2
Methylene Chloride	ND	ug/L	20
Acetone	ND	ug/L	40
Carbon Disulfide	ND	ug/L	2
1,1-Dichloroethene	ND	ug/L	2
1,1-Dichloroethane	ND	ug/L	2
trans-1,2-Dichloroethene	110	ug/L	2
Chloroform	ND	ug/L	2
1,2-Dichloroethane	ND	ug/L	2
2-Butanone	ND	ug/L	10
1,1,1-Trichloroethane	3	ug/L	2
Carbon Tetrachloride	ND	ug/L	2
Vinyl Acetate	ND	ug/L	2
Bromodichloromethane	ND	ug/L	2
1,2-Dichloropropane	ND	ug/L	2
trans-1,3-Dichloropropene	ND	ug/L	2
Trichloroethene	250	ug/L	2
Dibromochloromethane	ND	ug/L	2
1,1,2-Trichloroethane	ND	ug/L	2
Benzene	ND	ug/L	2
cis-1,3-Dichloropropene	ND	ug/L	2
2-Chloroethyl vinyl ether	ND	ug/L	2
Bromoform	ND	ug/L	2
4-Methyl-2-Pentanone	ND	ug/L	10
2-Hexanone	ND	ug/L	10
1,1,2,2-Tetrachloroethane	ND	ug/L	4
Tetrachloroethene	ND	ug/L	2
Toluene	ND	ug/L	2
Chlorobenzene	ND	ug/L	2
Ethyl benzene	ND	ug/L	2
Styrene	ND	ug/L	2
Total Xylenes	ND	ug/L	2

ND = Not Detected
 NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: PZ-18A

Laboratory I.D.: H33-9 Enseco I.D.: NA

Matrix: Water Sampled: 06/23/87 Received: 06/24/87

Authorized: 06/24/87 Prepared: NA Analyzed: 06/26/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	20
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	2
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected

NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: PZ-1A

Laboratory I.D.: H33-10 Enseco I.D.: NA

Matrix: Water Sampled: 06/23/87 Received: 06/24/87

Authorized: 06/24/87 Prepared: NA Analyzed: 06/26/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	20
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	5
1,1,1-Trichloroethane	2	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	1	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	2
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected

NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS
EPA METHOD 624/HSL List

 Client Name: Hatcher Incorporated

 Client I.D.: W-47

 Laboratory I.D.: H33-11

 Enseco I.D.: NA

 Matrix: Water

 Sampled: 06/23/87

 Received: 06/24/87

 Authorized: 06/24/87

 Prepared: NA

 Analyzed: 06/29/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	500
Bromomethane	ND	ug/L	500
Vinyl Chloride	ND	ug/L	500
Chloroethane	ND	ug/L	500
Methylene Chloride	ND	ug/L	75,000
Acetone	16,000	ug/L	150,000
Carbon Disulfide	ND	ug/L	500
1,1-Dichloroethene	ND	ug/L	500
1,1-Dichloroethane	ND	ug/L	500
trans-1,2-Dichloroethene	ND	ug/L	500
Chloroform	ND	ug/L	500
1,2-Dichloroethane	ND	ug/L	500
2-Butanone	4,000	ug/L	2,500
1,500,1-Trichloroethane	ND	ug/L	500
Carbon Tetrachloride	ND	ug/L	500
Vinyl Acetate	ND	ug/L	500
Bromodichloromethane	ND	ug/L	500
1,2-Dichloropropane	ND	ug/L	500
trans-1,3-Dichloropropene	ND	ug/L	500
Trichloroethene	ND	ug/L	500
Dibromochloromethane	ND	ug/L	500
1,1,2-Trichloroethane	ND	ug/L	500
Benzene	710	ug/L	500
cis-1,3-Dichloropropene	ND	ug/L	500
2-Chloroethyl vinyl ether	ND	ug/L	500
Bromoform	ND	ug/L	500
4-Methyl-2-Pentanone	ND	ug/L	2,500
2-Hexanone	ND	ug/L	2,500
1,1,2,2-Tetrachloroethane	ND	ug/L	1,000
Tetrachloroethene	ND	ug/L	500
Toluene	19,000	ug/L	500
Chlorobenzene	ND	ug/L	500
Ethyl benzene	20,000	ug/L	500
Styrene	ND	ug/L	500
Total Xylenes	120,000	ug/L	500

ND = Not Detected

NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS
EPA METHOD 624/HSL List

 Client Name: Hatcher Incorporated

 Client I.D.: W-48

 Laboratory I.D.: H33-12 Enseco I.D.: NA

 Matrix: Water Sampled: 06/23/87 Received: 06/24/87

 Authorized: 06/24/87 Prepared: NA Analyzed: 06/26/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	2	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	20
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	5	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	59	ug/L	1
2-Butanone	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	2
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected

NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: W-44

Laboratory I.D.: H33-13

Enseco I.D.: NA

Matrix: Water

Sampled: 06/23/87

Received: 06/24/87

Authorized: 06/24/87

Prepared: NA

Analyzed: 06/26/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	2	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	20
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	1	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	2	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	2
Tetrachloroethene	2	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	13	ug/L	1

ND = Not Detected

NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

 Client Name: Hatcher Incorporated

 Client I.D.: W-42

 Laboratory I.D.: H33-14 Enseco I.D.: NA

 Matrix: Water Sampled: 06/23/87 Received: 06/24/87

 Authorized: 06/24/87 Prepared: NA Analyzed: 06/29/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	4	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	20
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	3	ug/L	1
trans-1,2-Dichloroethene	3	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	56	ug/L	1
2-Butanone	ND	ug/L	5
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	4	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	20*
1,1,2,2-Tetrachloroethane	ND	ug/L	2
Tetrachloroethene	2	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected

NA = Not Applicable

*Detection limit raised due to interference.

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

 Client Name: Hatcher Incorporated

 Client I.D.: Field Blank (Inside)

 Laboratory I.D.: H33-15 Enseco I.D.: NA

 Matrix: Water Sampled: 06/24/87 Received: 06/26/87

 Authorized: 06/26/87 Prepared: NA Analyzed: 06/30/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	25
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	10
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	1
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected

NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS
EPA METHOD 624/HSL List

 Client Name: Hatcher Incorporated

 Client I.D.: Field Blank (Outside)

 Laboratory I.D.: H33-16 Enseco I.D.: NA

 Matrix: Water Sampled: 06/24/87 Received: 06/26/87

 Authorized: 06/26/87 Prepared: NA Analyzed: 06/30/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	25
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	10
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	1
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected

NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: W-41

Laboratory I.D.: H33-17 Enseco I.D.: NA

Matrix: Water Sampled: 06/24/87 Received: 06/26/87

Authorized: 06/26/87 Prepared: NA Analyzed: 07/01/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	20
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	10
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	2
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	100	ug/L	1

ND = Not Detected
NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: W-25

Laboratory I.D.: H33-18

Enseco I.D.: NA

Matrix: Water

Sampled: 06/24/87

Received: 06/26/87

Authorized: 06/26/87

Prepared: NA

Analyzed: 06/30/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	25
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	10
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	1
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected

NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: PZ-6A

Laboratory I.D.: H33-19 Enseco I.D.: NA

Matrix: Water Sampled: 06/24/87 Received: 06/26/87

Authorized: 06/26/87 Prepared: NA Analyzed: 07/01/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	500
Bromomethane	ND	ug/L	500
Vinyl Chloride	ND	ug/L	500
Chloroethane	ND	ug/L	500
Methylene Chloride	ND	ug/L	5,000
Acetone	ND	ug/L	15,000*
Carbon Disulfide	ND	ug/L	500
1,1-Dichloroethene	ND	ug/L	500
1,1-Dichloroethane	ND	ug/L	500
trans-1,2-Dichloroethene	5,200	ug/L	500
Chloroform	ND	ug/L	500
1,2-Dichloroethane	ND	ug/L	500
2-Butanone	ND	ug/L	5,000
1,1,1-Trichloroethane	ND	ug/L	500
Carbon Tetrachloride	ND	ug/L	500
Vinyl Acetate	ND	ug/L	500
Bromodichloromethane	ND	ug/L	500
1,2-Dichloropropane	ND	ug/L	500
trans-1,3-Dichloropropene	ND	ug/L	500
Trichloroethene	ND	ug/L	500
Dibromochloromethane	ND	ug/L	500
1,1,2-Trichloroethane	ND	ug/L	500
Benzene	3,700	ug/L	500
cis-1,3-Dichloropropene	ND	ug/L	500
2-Chloroethyl vinyl ether	ND	ug/L	500
Bromoform	ND	ug/L	500
4-Methyl-2-Pentanone	ND	ug/L	2,500
2-Hexanone	ND	ug/L	2,500
1,1,2,2-Tetrachloroethane	ND	ug/L	1,000
Tetrachloroethene	ND	ug/L	500
Toluene	140,000	ug/L	500
Chlorobenzene	ND	ug/L	500
Ethyl benzene	37,000	ug/L	500
Styrene	ND	ug/L	500
Total Xylenes	180,000	ug/L	500

ND = Not Detected

NA = Not Applicable

*See cover letter.

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS
EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated
 Client I.D.: Trip Blank
 Laboratory I.D.: H33-20 Enseco I.D.: NA
 Matrix: Water Sampled: 06/25/87 Received: 06/26/87
 Authorized: 06/26/87 Prepared: NA Analyzed: 06/30/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	25
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	10
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	1
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected
 NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: Field Blank (Inside)

Laboratory I.D.: H33-21 Enseco I.D.: NA

Matrix: Water Sampled: 06/25/87 Received: 06/26/87

Authorized: 06/26/87 Prepared: NA Analyzed: 06/30/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	25
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	10
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	1
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected
NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: Field Blank (Outside)

Laboratory I.D.: H33-22 Enseco I.D.: NA

Matrix: Water Sampled: 06/25/87 Received: 06/26/87

Authorized: 06/26/87 Prepared: NA Analyzed: 06/30/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	25
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	10
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	1
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected
 NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: MW1

Laboratory I.D.: H33-23 Enseco I.D.: NA

Matrix: Water Sampled: 06/25/87 Received: 06/26/87

Authorized: 06/26/87 Prepared: NA Analyzed: 06/30/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	25
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	10
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	1
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected
 NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS



EPA METHOD 624/HSL List

Client Name: Hatcher IncorporatedClient I.D.: MW2Laboratory I.D.: H33-24Enseco I.D.: NAMatrix: Water Sampled: 06/25/87 Received: 06/26/87Authorized: 06/26/87 Prepared: NA Analyzed: 07/01/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	20
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	10
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	2
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected

NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: MW3

Laboratory I.D.: H33-25 Enseco I.D.: NA

Matrix: Water Sampled: 06/25/87 Received: 06/26/87

Authorized: 06/26/87 Prepared: NA Analyzed: 06/30/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	25
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	10
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	1
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected

NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

 Client Name: Hatcher Incorporated

 Client I.D.: 24A

 Laboratory I.D.: H33-27

 Enseco I.D.: NA

 Matrix: Water

 Sampled: 06/25/87

 Received: 06/26/87

 Authorized: 06/26/87

 Prepared: NA

 Analyzed: 07/01/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	29	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	20
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	1	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	33	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	10
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	1
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected

NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: PZ-14B

Laboratory I.D.: H33-28 Enseco I.D.: NA

Matrix: Water Sampled: 06/25/87 Received: 06/26/87

Authorized: 06/26/87 Prepared: NA Analyzed: 07/01/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	20
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	10
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	2
Tetrachloroethene	ND	ug/L	1
Toluene	4	ug/L	1
Chlorobenzene	2	ug/L	1
Ethyl benzene	6	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	330	ug/L	1

ND = Not Detected
 NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

 Client Name: Hatcher Incorporated

 Client I.D.: PZ-4A

 Laboratory I.D.: H33-29 Enseco I.D.: NA

 Matrix: Water Sampled: 06/25/87 Received: 06/26/87

 Authorized: 06/26/87 Prepared: NA Analyzed: 07/01/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	20
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	10
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	ND	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	2
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected

NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

Client Name: Hatcher Incorporated

Client I.D.: W-30

Laboratory I.D.: H33-26 Enseco I.D.: NA

Matrix: Water Sampled: 06/25/87 Received: 06/26/87

Authorized: 06/26/87 Prepared: NA Analyzed: 07/01/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	2
Bromomethane	ND	ug/L	2
Vinyl Chloride	ND	ug/L	2
Chloroethane	ND	ug/L	2
Methylene Chloride	ND	ug/L	20
Acetone	ND	ug/L	40
Carbon Disulfide	ND	ug/L	2
1,1-Dichloroethene	ND	ug/L	2
1,1-Dichloroethane	ND	ug/L	2
trans-1,2-Dichloroethene	3	ug/L	2
Chloroform	ND	ug/L	2
1,2-Dichloroethane	ND	ug/L	2
2-Butanone	ND	ug/L	20
1,1,1-Trichloroethane	ND	ug/L	2
Carbon Tetrachloride	ND	ug/L	2
Vinyl Acetate	ND	ug/L	2
Bromodichloromethane	ND	ug/L	2
1,2-Dichloropropane	ND	ug/L	2
trans-1,3-Dichloropropene	ND	ug/L	2
Trichloroethene	ND	ug/L	2
Dibromochloromethane	ND	ug/L	2
1,1,2-Trichloroethane	ND	ug/L	2
Benzene	51	ug/L	2
cis-1,3-Dichloropropene	ND	ug/L	2
2-Chloroethyl vinyl ether	ND	ug/L	2
Bromoform	ND	ug/L	2
4-Methyl-2-Pentanone	ND	ug/L	10
2-Hexanone	ND	ug/L	10
1,1,2,2-Tetrachloroethane	ND	ug/L	4
Tetrachloroethene	ND	ug/L	2
Toluene	45	ug/L	2
Chlorobenzene	ND	ug/L	2
Ethyl benzene	150	ug/L	2
Styrene	ND	ug/L	2
Total Xylenes	190	ug/L	2

ND = Not Detected
 NA = Not Applicable

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS
EPA METHOD 624/HSL List

 Client Name: Hatcher Incorporated

 Client I.D.: W-38

 Laboratory I.D.: H33-30 Enseco I.D.: NA

 Matrix: Water Sampled: 06/25/87 Received: 06/26/87

 Authorized: 06/26/87 Prepared: NA Analyzed: 07/01/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	250
Bromomethane	ND	ug/L	250
Vinyl Chloride	ND	ug/L	250
Chloroethane	ND	ug/L	250
Methylene Chloride	ND	ug/L	2500
Acetone	ND	ug/L	5000
Carbon Disulfide	ND	ug/L	250
1,1-Dichloroethene	ND	ug/L	250
1,1-Dichloroethane	ND	ug/L	250
trans-1,2-Dichloroethene	ND	ug/L	250
Chloroform	ND	ug/L	250
1,2-Dichloroethane	ND	ug/L	250
2-Butanone	ND	ug/L	2500
1,1,1-Trichloroethane	ND	ug/L	250
Carbon Tetrachloride	ND	ug/L	250
Vinyl Acetate	ND	ug/L	250
Bromodichloromethane	ND	ug/L	250
1,2-Dichloropropane	ND	ug/L	250
trans-1,3-Dichloropropene	ND	ug/L	250
Trichloroethene	ND	ug/L	250
Dibromochloromethane	ND	ug/L	250
1,1,2-Trichloroethane	ND	ug/L	250
Benzene	6100	ug/L	250
cis-1,3-Dichloropropene	ND	ug/L	250
2-Chloroethyl vinyl ether	ND	ug/L	250
Bromoform	ND	ug/L	250
4-Methyl-2-Pentanone	ND	ug/L	1500*
2-Hexanone	ND	ug/L	1250
1,1,2,2-Tetrachloroethane	ND	ug/L	500
Tetrachloroethene	ND	ug/L	250
Toluene	12000	ug/L	250
Chlorobenzene	ND	ug/L	250
Ethyl benzene	14000	ug/L	250
Styrene	ND	ug/L	250
Total Xylenes	29000	ug/L	250

ND = Not Detected

NA = Not Applicable

* = Reporting limit raised due to interference

HAZARDOUS SUBSTANCE LIST (HSL) VOLATILE ORGANICS

EPA METHOD 624/HSL List

 Client Name: Hatcher Incorporated

 Client I.D.: PW-8

 Laboratory I.D.: H33-31

 Enseco I.D.: NA

 Matrix: Water Sampled: 06/25/87 Received: 06/26/87

 Authorized: 06/26/87 Prepared: NA Analyzed: 07/01/87

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>
Chloromethane	ND	ug/L	1
Bromomethane	ND	ug/L	1
Vinyl Chloride	ND	ug/L	1
Chloroethane	ND	ug/L	1
Methylene Chloride	ND	ug/L	10
Acetone	ND	ug/L	20
Carbon Disulfide	ND	ug/L	1
1,1-Dichloroethene	ND	ug/L	1
1,1-Dichloroethane	ND	ug/L	1
trans-1,2-Dichloroethene	ND	ug/L	1
Chloroform	ND	ug/L	1
1,2-Dichloroethane	ND	ug/L	1
2-Butanone	ND	ug/L	10
1,1,1-Trichloroethane	ND	ug/L	1
Carbon Tetrachloride	ND	ug/L	1
Vinyl Acetate	ND	ug/L	1
Bromodichloromethane	ND	ug/L	1
1,2-Dichloropropane	ND	ug/L	1
trans-1,3-Dichloropropene	ND	ug/L	1
Trichloroethene	ND	ug/L	1
Dibromochloromethane	ND	ug/L	1
1,1,2-Trichloroethane	ND	ug/L	1
Benzene	12	ug/L	1
cis-1,3-Dichloropropene	ND	ug/L	1
2-Chloroethyl vinyl ether	ND	ug/L	1
Bromoform	ND	ug/L	1
4-Methyl-2-Pentanone	ND	ug/L	5
2-Hexanone	ND	ug/L	5
1,1,2,2-Tetrachloroethane	ND	ug/L	2
Tetrachloroethene	ND	ug/L	1
Toluene	ND	ug/L	1
Chlorobenzene	ND	ug/L	1
Ethyl benzene	ND	ug/L	1
Styrene	ND	ug/L	1
Total Xylenes	ND	ug/L	1

ND = Not Detected

NA = Not Applicable

QUALITY CONTROL DATA

EPA METHOD 624

SURROGATE SPIKE PERCENT RECOVERY SUMMARY

Hatcher Incorporated

Project: H33
Matrix: Water

<u>Sample I.D.</u> (Q.C. Limits)	<u>Toluene-d₈</u> (88-110)	<u>BFB</u> (86-120)	<u>1,2-Dichloroethane-d₄</u> (76-110)
H33-1	96	96	93
H33-2	92	90	87
H33-3	94	92	90
H33-4	93	93	88
H33-5	110	110	120*
H33-7	110	100	94
H33-8	98	96	100
H33-9	100	96	92
H33-10	95	93	88
H33-11	110	110	120*
H33-12	95	93	94
H33-13	94	95	91
H33-14	100	100	110
H33-15	96	95	94
H33-16	98	96	97
H33-17	100	100	96
H33-18	96	94	95
H33-19	100	99	100
H33-20	93	91	94
H33-21	98	94	96
H33-22	95	93	95
H33-23	92	89	90
H33-24	99	98	94
H33-25	92	88	93
H33-26	100	98	98
H33-27	110	110	100
H33-28	100	110	100
H33-29	100	96	93
H33-30	100	100	100
H33-31	110	100	99
MB62687	98	97	94
MB62987	100	100	100
MB63087	91	92	93
MB70187	98	98	93

Surrogate Spike Level: 50 ug/L

*Outside Q.C. Limits.

QUALITY CONTROL DATA

EPA METHOD 624

REAGENT SPIKE PERCENT RECOVERY SUMMARY

Hatcher Incorporated

Project: H33
Matrix: Water

<u>Compound</u>	<u>RS61887</u>	<u>RSD61887</u>	<u>RPD</u>
1,1-Dichloroethene	73.0	72.6	0.5
Trichloroethene	90.8	87.8	3.4
Chlorobenzene	94.0	95.2	1.3
Toluene	96.0	93.6	2.5
Benzene	84.0	8.22	2.2

Reagent Spike Level: 50 ug/L

RS = Reagent Spike
RSD = Reagent Spike Duplicate
RPD = Relative Percent Difference

QUALITY CONTROL DATA

EPA METHOD 624

REAGENT SPIKE PERCENT RECOVERY SUMMARY

Hatcher Incorporated

Project: H33
Matrix: Water

<u>Compound</u>	<u>RS62987A</u>	<u>RSD62987</u>	<u>RPD</u>
1,1-Dichloroethene	61.6	61.4	0.3
Trichloroethene	84.4	85.0	0.7
Chlorobenzene	99.6	93.2	6.6
Toluene	98.0	92.2	6.1
Benzene	79.4	78.8	0.8

Reagent Spike Level: 50 ug/L

RS = Reagent Spike
RSD = Reagent Spike Duplicate
RPD = Relative Percent Difference

QUALITY CONTROL DATA

EPA METHOD 624

REAGENT SPIKE PERCENT RECOVERY SUMMARY

Hatcher Incorporated

Project: H33
Matrix: Water




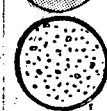
<u>Compound</u>	<u>RS70187</u>	<u>RSD70187</u>	<u>RPD</u>
1,1-Dichloroethene	123	129	4.8
Trichloroethene	102	105	2.9
Chlorobenzene	94.8	98.8	4.1
Toluene	99.4	104	4.5
Benzene	98.6	102	3.4

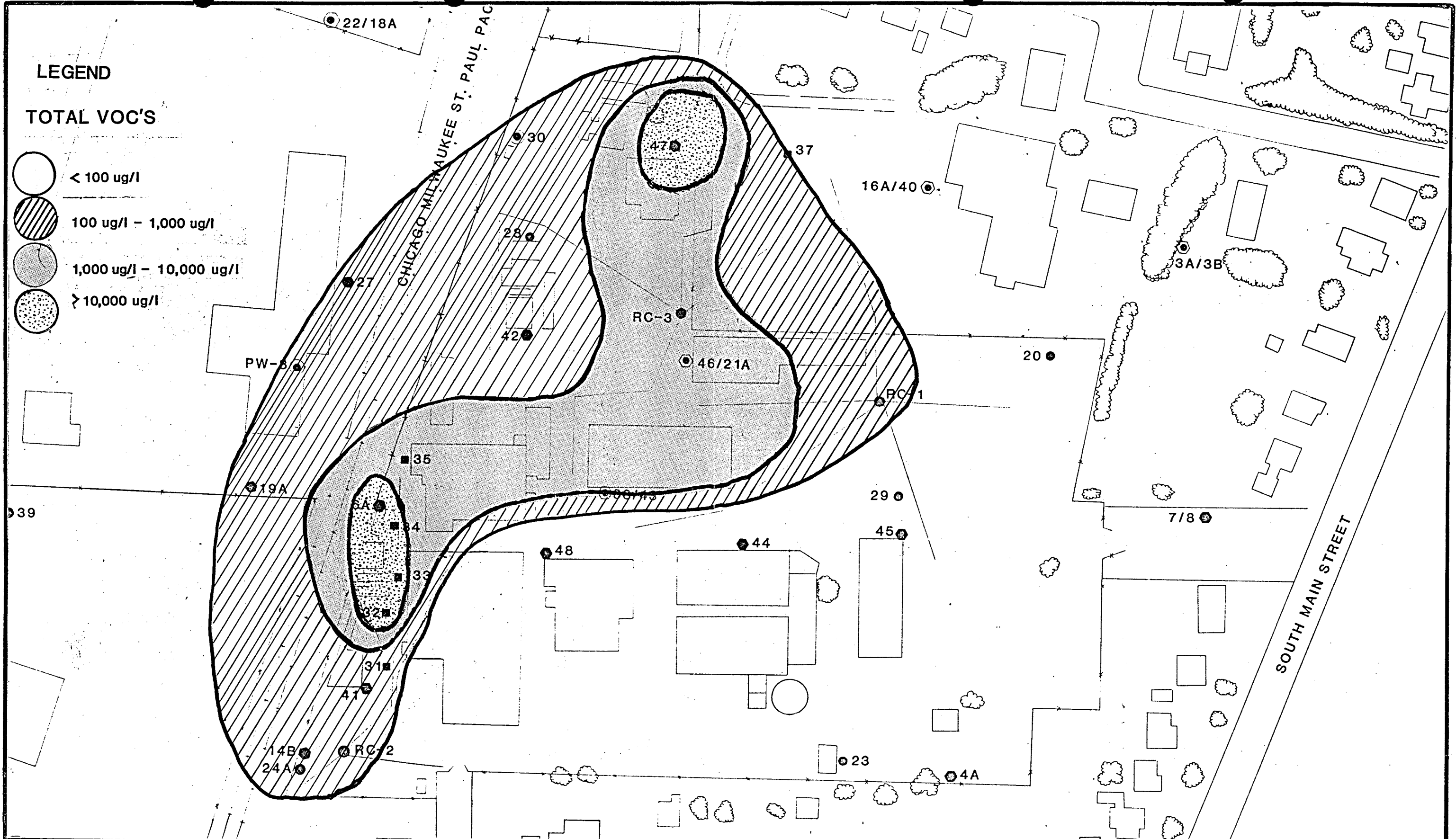
Reagent Spike Level: 50 ug/L

RS = Reagent Spike
RSD = Reagent Spike Duplicate
RPD = Relative Percent Difference

LEGEND

TOTAL VOC'S

-  < 100 ug/l
-  100 ug/l - 1,000 ug/l
-  1,000 ug/l - 10,000 ug/l
-  > 10,000 ug/l



Freeman Chemical Corporation
Saukville, Wisconsin

Job No.: 0001-003

Hatcher Incorporated
RICHMOND, VIRGINIA

Date: 7/23/87

Scale: 1"=100'

Approximate Extent of Glacial Aquifer
Contamination Summer 1987

Drawing No.:

Figure No.: