



# HSI GEOTRANS

A TETRA TECH COMPANY

02-20-000915

43  
7-22-1998

175 N. Corporate Drive  
Suite 100  
Brookfield, Wisconsin  
53045

414-792-1282 FAX 414-792-1310

July 17, 1998  
(N734-101)



Mr. Dave Carper  
Wisconsin Department of Natural Resources  
RR/3  
P.O. Box 7921  
Madison, WI 53707-7921

Mr. Charles Warzecha  
WI Division of Health & Social Services  
1414 E. Washington Avenue  
Room 96, Division of Health  
Madison, WI 53703

RE: Ripon FF/NN Landfill Private Well Sampling Results

Dear Dave and Chuck:

Enclosed please find copies of the letters sent to the residents and the laboratory analytical results from the private well sampling conducted at four wells adjacent to the FF/NN Landfill in Ripon, Wisconsin in April 1998.

The well water was tested for the presence of volatile organic compounds (VOCs). As you can see from the enclosed laboratory sheets, no VOCs other than acetone were detected in the water samples analyzed by National Environmental Testing, Inc. The acetone was also detected in the trip blank at a concentration of 11 ppb, confirming its laboratory artifact origin.

Should you have any questions concerning the water quality results, please feel free to call me at 414-792-1282.

Sincerely,

HSI GEOTRANS

Judy L. Fassbender, P.G.  
Senior Hydrogeologist

JLF/gf



# HSI GEOTRANS

A TETRA TECH COMPANY

175 N. Corporate Drive  
Suite 100  
Brookfield, Wisconsin  
53045

414-792-1282 FAX 414-792-1310

July 17, 1998  
(N734-101)

Mr. Jeff Gaastra  
W14297 Charles Street  
Ripon, WI 54971

RE: Results of Well Water Testing Conducted April 1998

Dear Mr. Gaastra:

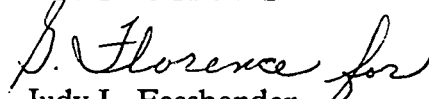
Water samples were collected from your home in April 1998 by HSI GeoTrans, Inc. and submitted for laboratory analysis. This testing was performed as part of the groundwater monitoring being conducted in cooperation with the Wisconsin Department of Natural Resources at the FF/NN Landfill in Ripon.

Your well water was tested for the presence of volatile organic compounds (VOCs). No VOCs other than acetone were detected in the water sample from your well. Acetone is a common laboratory contaminant and it was also found in the quality control samples indicating that the acetone was not present in the water from your well but was introduced in the sampling and analysis process. Therefore, it does not appear that the FF/NN Landfill or any other contaminant source has impacted your well with VOC contamination. A copy of the laboratory results is attached. Note that the "<" in the results column means that a compound was undetected.

Should you have any questions concerning your water quality results, please feel free to call me collect at 414-792-1282, or call Chuck Warzecha at the Wisconsin Division of Health at 608-267-3732.

Sincerely,

HSI GEOTRANS

  
Judy L. Fassbender  
Senior Hydrogeologist

JLF:gf

cc: Dave Carper, WDNR  
Chuck Warzecha, DHSS



NATIONAL  
ENVIRONMENTAL  
TESTING, INC.

Watertown Division  
602 Commerce Drive  
P.O. Box 288  
Watertown, WI 53094

Tel: (920) 261-1660  
Fax: (920) 261-8120  
WDNR No. 128053530

## ANALYTICAL REPORT

Ms. Judy Fassbender  
HYDRO-SEARCH/GEO-TRANS  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

04/24/1998  
Job No: 98.03070  
Sample No: 293114  
Account No: 39150  
Page 42

JOB DESCRIPTION: N734 Ripon FF/NN Landfill  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: 00467201 Gaastra N734 Ripon  
Rec'd 4 degrees C

Date Taken: 04/14/1998 14:30

Date Received: 04/16/1998

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Prep/Run Batch
VOC - AQUEOUS - EPA 8260A							
Misc VOC Compounds							
Acetone	6.8	ug/L	3.0	9.7	S-8260	04/22/1998	9
Acrolein	<3.2	ug/L	3.2	10	S-8260	04/22/1998	9
Acrylonitrile	<2.0	ug/L	2.0	6.5	S-8260	04/22/1998	9
Benzene	<0.31	ug/L	0.31	0.98	S-8260A	04/22/1998	416
Bromobenzene	<0.20	ug/L	0.20	0.64	S-8260A	04/22/1998	416
Bromochloromethane	<0.32	ug/L	0.32	1.0	S-8260A	04/22/1998	416
Bromodichloromethane	<0.20	ug/L	0.20	0.63	S-8260A	04/22/1998	416
Bromoform	<0.14	ug/L	0.14	0.45	S-8260A	04/22/1998	416
Bromomethane	<0.46	ug/L	0.46	1.5	S-8260A	04/22/1998	416
2-Butanone (MEK)	<2.0	ug/L	2.0	2.0	S-8260	04/22/1998	9
n-Butylbenzene	<0.44	ug/L	0.44	1.4	S-8260A	04/22/1998	416
sec-Butylbenzene	<0.45	ug/L	0.45	1.4	S-8260A	04/22/1998	416
tert-Butylbenzene	<0.38	ug/L	0.38	1.2	S-8260A	04/22/1998	416
Carbon Disulfide	<1.0	ug/L	1.0	1.0	S-8260	04/22/1998	9
Carbon Tetrachloride	<0.40	ug/L	0.40	1.3	S-8260A	04/22/1998	416
Chlorobenzene	<0.22	ug/L	0.22	0.69	S-8260A	04/22/1998	416
Chlorodibromomethane	<0.10	ug/L	0.10	0.33	S-8260A	04/22/1998	416
Chloroethane	<1.2	ug/L	1.2	3.9	S-8260A	04/22/1998	416
Chloroform	<0.18	ug/L	0.18	0.58	S-8260A	04/22/1998	416
Chloromethane	<0.38	ug/L	0.38	1.2	S-8260A	04/22/1998	416
2-Chlorotoluene	<0.28	ug/L	0.28	0.90	S-8260A	04/22/1998	416
4-Chlorotoluene	<0.47	ug/L	0.47	1.5	S-8260A	04/22/1998	416
1,2-Dibromo-3-Chloropropane	<1.4	ug/L	1.4	4.5	S-8260A	04/22/1998	416
1,2-Dibromoethane (EDB)	<0.16	ug/L	0.16	0.51	S-8260A	04/22/1998	416
Dibromomethane	<0.11	ug/L	0.11	0.36	S-8260A	04/22/1998	416
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.64	S-8260A	04/22/1998	416
1,3-Dichlorobenzene	<0.22	ug/L	0.22	0.71	S-8260A	04/22/1998	416
1,4-Dichlorobenzene	<0.35	ug/L	0.35	1.1	S-8260A	04/22/1998	416
Dichlorodifluoromethane	<0.49	ug/L	0.49	1.6	S-8260A	04/22/1998	416
1,1-Dichloroethane	<0.25	ug/L	0.25	0.79	S-8260A	04/22/1998	416
1,2-Dichloroethane	<0.20	ug/L	0.20	0.63	S-8260A	04/22/1998	416
1,1-Dichloroethene	<0.73	ug/L	0.73	2.3	S-8260A	04/22/1998	416
cis-1,2-Dichloroethene	<0.23	ug/L	0.23	0.74	S-8260A	04/22/1998	416



## ANALYTICAL REPORT

Ms. Judy Fassbender  
HYDRO-SEARCH/GEO TRANS  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

04/24/1998  
Job No: 98.03070  
Sample No: 293114  
Account No: 39150  
Page 43

JOB DESCRIPTION: N734 Ripon FF/NN Landfill  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: 00467201 Gaastra N734 Ripon  
Rec'd 4 degrees C

Date Taken: 04/14/1998 14:30

Date Received: 04/16/1998

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Prep/Run Batch
trans-1,2-Dichloroethene	<0.39	ug/L	0.39	1.2	S-8260A	04/22/1998	416
1,2-Dichloropropane	<0.29	ug/L	0.29	0.93	S-8260A	04/22/1998	416
1,3-Dichloropropane	<0.15	ug/L	0.15	0.46	S-8260A	04/22/1998	416
2,2-Dichloropropane	<0.37	ug/L	0.37	1.2	S-8260A	04/22/1998	416
1,1-Dichloropropene	<0.63	ug/L	0.63	2.0	S-8260A	04/22/1998	416
cis-1,3-Dichloropropene	<0.17	ug/L	0.17	0.56	S-8260A	04/22/1998	416
trans-1,3-Dichloropropene	<0.13	ug/L	0.13	0.42	S-8260A	04/22/1998	416
2,3-Dichloropropene	<0.30	ug/L	0.30	1.0	S-8260	04/22/1998	9
Di-isopropyl ether	<0.13	ug/L	0.13	0.41	S-8260A	04/22/1998	416
Ethylbenzene	<0.38	ug/L	0.38	1.2	S-8260A	04/22/1998	416
Hexachlorobutadiene	<0.37	ug/L	0.37	1.2	S-8260A	04/22/1998	416
Hexane	<1.7	ug/L	1.7	5.5	S-8260	04/22/1998	9
Isopropylbenzene	<0.36	ug/L	0.36	1.1	S-8260A	04/22/1998	416
p-Isopropyltoluene	<0.35	ug/L	0.35	1.1	S-8260A	04/22/1998	416
Methylene Chloride	<0.87	ug/L	0.87	3.1	S-8260A	04/22/1998	416
4-Methyl-2-pentanone (MIBK)	<0.37	ug/L	0.37	1.2	S-8260	04/22/1998	9
Methyl-t-butyl ether	<0.14	ug/L	0.14	0.45	S-8260A	04/22/1998	416
Naphthalene	<0.35	ug/L	0.35	1.1	S-8260A	04/22/1998	416
n-Propylbenzene	<0.46	ug/L	0.46	1.5	S-8260A	04/22/1998	416
Styrene	<0.16	ug/L	0.16	0.51	S-8260A	04/22/1998	416
1,1,1,2-Tetrachloroethane	<0.11	ug/L	0.11	0.34	S-8260A	04/22/1998	416
1,1,2,2-Tetrachloroethane	<0.39	ug/L	0.39	1.3	S-8260A	04/22/1998	416
Tetrachloroethene	<0.63	ug/L	0.63	2.0	S-8260A	04/22/1998	416
Tetrahydrofuran	<1.9	ug/L	1.9	6.1	S-8260	04/22/1998	9
Toluene	<0.39	ug/L	0.39	1.3	S-8260A	04/22/1998	416
1,2,3-Trichlorobenzene	<0.32	ug/L	0.32	1.0	S-8260A	04/22/1998	416
1,2,4-Trichlorobenzene	<0.18	ug/L	0.18	0.57	S-8260A	04/22/1998	416
1,1,1-Trichloroethane	<0.28	ug/L	0.28	0.88	S-8260A	04/22/1998	416
1,1,2-Trichloroethane	<0.15	ug/L	0.15	0.46	S-8260A	04/22/1998	416
Trichloroethene	<0.49	ug/L	0.49	1.6	S-8260A	04/22/1998	416
Trichlorofluoromethane	<0.58	ug/L	0.58	1.8	S-8260A	04/22/1998	416
1,2,3-Trichloropropane	<0.28	ug/L	0.28	0.90	S-8260A	04/22/1998	416
1,2,4-Trimethylbenzene	<0.32	ug/L	0.32	1.0	S-8260A	04/22/1998	416
1,3,5-Trimethylbenzene	<0.33	ug/L	0.33	1.0	S-8260A	04/22/1998	416
Vinyl Chloride	<0.46	ug/L	0.46	1.5	S-8260A	04/22/1998	416



NATIONAL  
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WDNR No. 128053530

## ANALYTICAL REPORT

Ms. Judy Fassbender  
HYDRO-SEARCH/GEO TRANS  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

04/24/1998  
Job No: 98.03070  
Sample No: 293114  
Account No: 39150  
Page 44

JOB DESCRIPTION: N734 Ripon FF/NN Landfill  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: 00467201 Gaastra N734 Ripon  
Rec'd 4 degrees C

Date Taken: 04/14/1998 14:30

Date Received: 04/16/1998

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Prep/Run Batch
Xylenes, Total	<1.1	ug/L	1.1	3.6	S-8260A	04/22/1998	416
Surr: Dibromofluoromethane	103.4	%	n/a	n/a	S-8260A	04/22/1998	416
Surr: Toluene-d8	104.0	%	n/a	n/a	S-8260A	04/22/1998	416
Surr: Bromofluorobenzene	95.6	%	n/a	n/a	S-8260A	04/22/1998	416



# HSI GEOTRANS

A TETRA TECH COMPANY

175 N. Corporate Drive  
Suite 100  
Brookfield, Wisconsin  
53045

414-792-1282 FAX 414-792-1310

July 17, 1998  
(N734-101)

Mr. William Miller  
N8756 S. Koro Road  
Ripon, WI 54971

RE: Results of Well Water Testing Conducted April 1998

Dear Mr. Miller:

Water samples were collected from your home in April 1998 by HSI GeoTrans, Inc. and submitted for laboratory analysis. This testing was performed as part of the groundwater monitoring being conducted in cooperation with the Wisconsin Department of Natural Resources at the FF/NN Landfill in Ripon.

Your well water was tested for the presence of volatile organic compounds (VOCs). No VOCs other than acetone were detected in the water sample from your well. Acetone is a common laboratory contaminant and it was also found in the quality control samples indicating that the acetone was not present in the water from your well but was introduced in the sampling and analysis process. Therefore, it does not appear that the FF/NN Landfill or any other contaminant source has impacted your well with VOC contamination. A copy of the laboratory results is attached. Note that the "<" in the results column means that a compound was undetected.

Should you have any questions concerning your water quality results, please feel free to call me collect at 414-792-1282, or call Chuck Warzecha at the Wisconsin Division of Health at 608-267-3732.

Sincerely,

HSI GEOTRANS

  
Judy L. Fassbender  
Senior Hydrogeologist

JLF:gf

cc: Dave Carper, WDNR  
Chuck Warzecha, DHSS



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WDNR No. 128053530

## ANALYTICAL REPORT

Ms. Judy Fassbender  
HYDRO-SEARCH/GEO TRANS  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

04/24/1998  
Job No: 98.03070  
Sample No: 293112  
Account No: 39150  
Page 36

JOB DESCRIPTION: N734 Ripon FF/NN Landfill  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: 00467206 Miller Well N734 Ripon  
Rec'd 4 degrees C

Date Taken: 04/14/1998 13:50

Date Received: 04/16/1998

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Prep/Run Batch
VOC - AQUEOUS - EPA 8260A							
Misc VOC Compounds							
Acetone	5.7	ug/L	3.0	9.7	S-8260	04/22/1998	9
Acrolein	<3.2	ug/L	3.2	10	S-8260	04/22/1998	9
Acrylonitrile	<2.0	ug/L	2.0	6.5	S-8260	04/22/1998	9
Benzene	<0.31	ug/L	0.31	0.98	S-8260A	04/22/1998	416
Bromobenzene	<0.20	ug/L	0.20	0.64	S-8260A	04/22/1998	416
Bromochloromethane	<0.32	ug/L	0.32	1.0	S-8260A	04/22/1998	416
Bromodichloromethane	<0.20	ug/L	0.20	0.63	S-8260A	04/22/1998	416
Bromoform	<0.14	ug/L	0.14	0.45	S-8260A	04/22/1998	416
Bromomethane	<0.46	ug/L	0.46	1.5	S-8260A	04/22/1998	416
2-Butanone (MEK)	<2.0	ug/L	2.0	2.0	S-8260	04/22/1998	9
n-Butylbenzene	<0.44	ug/L	0.44	1.4	S-8260A	04/22/1998	416
sec-Butylbenzene	<0.45	ug/L	0.45	1.4	S-8260A	04/22/1998	416
tert-Butylbenzene	<0.38	ug/L	0.38	1.2	S-8260A	04/22/1998	416
Carbon Disulfide	<1.0	ug/L	1.0	1.0	S-8260	04/22/1998	9
Carbon Tetrachloride	<0.40	ug/L	0.40	1.3	S-8260A	04/22/1998	416
Chlorobenzene	<0.22	ug/L	0.22	0.69	S-8260A	04/22/1998	416
Chlorodibromomethane	<0.10	ug/L	0.10	0.33	S-8260A	04/22/1998	416
Chloroethane	<1.2	ug/L	1.2	3.9	S-8260A	04/22/1998	416
Chloroform	<0.18	ug/L	0.18	0.58	S-8260A	04/22/1998	416
Chloromethane	<0.38	ug/L	0.38	1.2	S-8260A	04/22/1998	416
2-Chlorotoluene	<0.28	ug/L	0.28	0.90	S-8260A	04/22/1998	416
4-Chlorotoluene	<0.47	ug/L	0.47	1.5	S-8260A	04/22/1998	416
1,2-Dibromo-3-Chloropropane	<1.4	ug/L	1.4	4.5	S-8260A	04/22/1998	416
1,2-Dibromoethane (EDB)	<0.16	ug/L	0.16	0.51	S-8260A	04/22/1998	416
Dibromomethane	<0.11	ug/L	0.11	0.36	S-8260A	04/22/1998	416
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.64	S-8260A	04/22/1998	416
1,3-Dichlorobenzene	<0.22	ug/L	0.22	0.71	S-8260A	04/22/1998	416
1,4-Dichlorobenzene	<0.35	ug/L	0.35	1.1	S-8260A	04/22/1998	416
Dichlorodifluoromethane	<0.49	ug/L	0.49	1.6	S-8260A	04/22/1998	416
1,1-Dichloroethane	<0.25	ug/L	0.25	0.79	S-8260A	04/22/1998	416
1,2-Dichloroethane	<0.20	ug/L	0.20	0.63	S-8260A	04/22/1998	416
1,1-Dichloroethene	<0.73	ug/L	0.73	2.3	S-8260A	04/22/1998	416
cis-1,2-Dichloroethene	<0.23	ug/L	0.23	0.74	S-8260A	04/22/1998	416



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## ANALYTICAL REPORT

Ms. Judy Fassbender  
HYDRO-SEARCH/GEO TRANS  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

04/24/1998  
Job No: 98.03070  
Sample No: 293112  
Account No: 39150  
Page 37

JOB DESCRIPTION: N734 Ripon FF/NN Landfill  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: 00467206 Miller Well N734 Ripon  
Rec'd 4 degrees C

Date Taken: 04/14/1998 13:50

Date Received: 04/16/1998

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Prep/Run Batch
trans-1,2-Dichloroethene	<0.39	ug/L	0.39	1.2	S-8260A	04/22/1998	416
1,2-Dichloropropane	<0.29	ug/L	0.29	0.93	S-8260A	04/22/1998	416
1,3-Dichloropropane	<0.15	ug/L	0.15	0.46	S-8260A	04/22/1998	416
2,2-Dichloropropane	<0.37	ug/L	0.37	1.2	S-8260A	04/22/1998	416
1,1-Dichloropropene	<0.63	ug/L	0.63	2.0	S-8260A	04/22/1998	416
cis-1,3-Dichloropropene	<0.17	ug/L	0.17	0.56	S-8260A	04/22/1998	416
trans-1,3-Dichloropropene	<0.13	ug/L	0.13	0.42	S-8260A	04/22/1998	416
2,3-Dichloropropene	<0.30	ug/L	0.30	1.0	S-8260	04/22/1998	9
Di-isopropyl ether	<0.13	ug/L	0.13	0.41	S-8260A	04/22/1998	416
Ethylbenzene	<0.38	ug/L	0.38	1.2	S-8260A	04/22/1998	416
Hexachlorobutadiene	<0.37	ug/L	0.37	1.2	S-8260A	04/22/1998	416
Hexane	<1.7	ug/L	1.7	5.5	S-8260	04/22/1998	9
Isopropylbenzene	<0.36	ug/L	0.36	1.1	S-8260A	04/22/1998	416
p-Isopropyltoluene	<0.35	ug/L	0.35	1.1	S-8260A	04/22/1998	416
Methylene Chloride	<0.87	ug/L	0.87	3.1	S-8260A	04/22/1998	416
4-Methyl-2-pentanone (MIBK)	<0.37	ug/L	0.37	1.2	S-8260	04/22/1998	9
Methyl-t-butyl ether	<0.14	ug/L	0.14	0.45	S-8260A	04/22/1998	416
Naphthalene	<0.35	ug/L	0.35	1.1	S-8260A	04/22/1998	416
n-Propylbenzene	<0.46	ug/L	0.46	1.5	S-8260A	04/22/1998	416
Styrene	<0.16	ug/L	0.16	0.51	S-8260A	04/22/1998	416
1,1,1,2-Tetrachloroethane	<0.11	ug/L	0.11	0.34	S-8260A	04/22/1998	416
1,1,2,2-Tetrachloroethane	<0.39	ug/L	0.39	1.3	S-8260A	04/22/1998	416
Tetrachloroethene	<0.63	ug/L	0.63	2.0	S-8260A	04/22/1998	416
Tetrahydrofuran	<1.9	ug/L	1.9	6.1	S-8260	04/22/1998	9
Toluene	<0.39	ug/L	0.39	1.3	S-8260A	04/22/1998	416
1,2,3-Trichlorobenzene	<0.32	ug/L	0.32	1.0	S-8260A	04/22/1998	416
1,2,4-Trichlorobenzene	<0.18	ug/L	0.18	0.57	S-8260A	04/22/1998	416
1,1,1-Trichloroethane	<0.28	ug/L	0.28	0.88	S-8260A	04/22/1998	416
1,1,2-Trichloroethane	<0.15	ug/L	0.15	0.46	S-8260A	04/22/1998	416
Trichloroethene	<0.49	ug/L	0.49	1.6	S-8260A	04/22/1998	416
Trichlorofluoromethane	<0.58	ug/L	0.58	1.8	S-8260A	04/22/1998	416
1,2,3-Trichloropropane	<0.28	ug/L	0.28	0.90	S-8260A	04/22/1998	416
1,2,4-Trimethylbenzene	<0.32	ug/L	0.32	1.0	S-8260A	04/22/1998	416
1,3,5-Trimethylbenzene	<0.33	ug/L	0.33	1.0	S-8260A	04/22/1998	416
Vinyl Chloride	<0.46	ug/L	0.46	1.5	S-8260A	04/22/1998	416





NATIONAL  
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TESTING, INC.

Watertown Division  
602 Commerce Drive  
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Tel: (920) 261-1660  
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WDNR No. 128053530

## ANALYTICAL REPORT

Ms: Judy Fassbender  
HYDRO-SEARCH/GEO TRANS  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

04/24/1998  
Job No: 98.03070  
Sample No: 293112  
Account No: 39150  
Page 38

JOB DESCRIPTION: N734 Ripon FF/NN Landfill  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: 00467206 Miller Well N734 Ripon  
Rec'd 4 degrees C

Date Taken: 04/14/1998 13:50

Date Received: 04/16/1998

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Prep/Run Batch
Xylenes, Total	<1.1	ug/L	1.1	3.6	S-8260A	04/22/1998	416
Surr: Dibromofluoromethane	102.4	%	n/a	n/a	S-8260A	04/22/1998	416
Surr: Toluene-d8	103.8	%	n/a	n/a	S-8260A	04/22/1998	416
Surr: Bromofluorobenzene	96.8	%	n/a	n/a	S-8260A	04/22/1998	416



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WDNR No. 128053530

## ANALYTICAL REPORT

Ms. Judy Fassbender  
HYDRO-SEARCH/GEO TRANS  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

04/24/1998  
Job No: 98.03070  
Sample No: 293113  
Account No: 39150  
Page 39

JOB DESCRIPTION: N734 Ripon FF/NN Landfill  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: 00467206 Miller Well Dupe N734 Ripon  
Rec'd 4 degrees C

Date Taken: 04/14/1998 14:00

Date Received: 04/16/1998

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Prep/Run Batch
VOC - AQUEOUS - EPA 8260A							
Misc VOC Compounds							
Acetone	5.9	ug/L	3.0	9.7	S-8260	04/22/1998	9
Acrolein	<3.2	ug/L	3.2	10	S-8260	04/22/1998	9
Acrylonitrile	<2.0	ug/L	2.0	6.5	S-8260	04/22/1998	9
Benzene	<0.31	ug/L	0.31	0.98	S-8260A	04/22/1998	416
Bromobenzene	<0.20	ug/L	0.20	0.64	S-8260A	04/22/1998	416
Bromochloromethane	<0.32	ug/L	0.32	1.0	S-8260A	04/22/1998	416
Bromodichloromethane	<0.20	ug/L	0.20	0.63	S-8260A	04/22/1998	416
Bromoform	<0.14	ug/L	0.14	0.45	S-8260A	04/22/1998	416
Bromomethane	<0.46	ug/L	0.46	1.5	S-8260A	04/22/1998	416
2-Butanone (MEK)	<2.0	ug/L	2.0	2.0	S-8260	04/22/1998	9
n-Butylbenzene	<0.44	ug/L	0.44	1.4	S-8260A	04/22/1998	416
sec-Butylbenzene	<0.45	ug/L	0.45	1.4	S-8260A	04/22/1998	416
tert-Butylbenzene	<0.38	ug/L	0.38	1.2	S-8260A	04/22/1998	416
Carbon Disulfide	<1.0	ug/L	1.0	1.0	S-8260	04/22/1998	9
Carbon Tetrachloride	<0.40	ug/L	0.40	1.3	S-8260A	04/22/1998	416
Chlorobenzene	<0.22	ug/L	0.22	0.69	S-8260A	04/22/1998	416
Chlorodibromomethane	<0.10	ug/L	0.10	0.33	S-8260A	04/22/1998	416
Chloroethane	<1.2	ug/L	1.2	3.9	S-8260A	04/22/1998	416
Chloroform	<0.18	ug/L	0.18	0.58	S-8260A	04/22/1998	416
Chloromethane	<0.38	ug/L	0.38	1.2	S-8260A	04/22/1998	416
2-Chlorotoluene	<0.28	ug/L	0.28	0.90	S-8260A	04/22/1998	416
4-Chlorotoluene	<0.47	ug/L	0.47	1.5	S-8260A	04/22/1998	416
1,2-Dibromo-3-Chloropropane	<1.4	ug/L	1.4	4.5	S-8260A	04/22/1998	416
1,2-Dibromoethane (EDB)	<0.16	ug/L	0.16	0.51	S-8260A	04/22/1998	416
Dibromomethane	<0.11	ug/L	0.11	0.36	S-8260A	04/22/1998	416
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.64	S-8260A	04/22/1998	416
1,3-Dichlorobenzene	<0.22	ug/L	0.22	0.71	S-8260A	04/22/1998	416
1,4-Dichlorobenzene	<0.35	ug/L	0.35	1.1	S-8260A	04/22/1998	416
Dichlorodifluoromethane	<0.49	ug/L	0.49	1.6	S-8260A	04/22/1998	416
1,1-Dichloroethane	<0.25	ug/L	0.25	0.79	S-8260A	04/22/1998	416
1,2-Dichloroethane	<0.20	ug/L	0.20	0.63	S-8260A	04/22/1998	416
1,1-Dichloroethene	<0.73	ug/L	0.73	2.3	S-8260A	04/22/1998	416
cis-1,2-Dichloroethene	<0.23	ug/L	0.23	0.74	S-8260A	04/22/1998	416



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WDNR No. 128053530

## ANALYTICAL REPORT

Ms. Judy Fassbender  
HYDRO-SEARCH/GEO TRANS  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

04/24/1998  
Job No: 98.03070  
Sample No: 293113  
Account No: 39150  
Page 40

JOB DESCRIPTION: N734 Ripon FF/NN Landfill  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: 00467206 Miller Well Dupe N734 Ripon  
Rec'd 4 degrees C

Date Taken: 04/14/1998 14:00

Date Received: 04/16/1998

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Prep/Run Batch
trans-1,2-Dichloroethene	<0.39	ug/L	0.39	1.2	S-8260A	04/22/1998	416
1,2-Dichloropropane	<0.29	ug/L	0.29	0.93	S-8260A	04/22/1998	416
1,3-Dichloropropane	<0.15	ug/L	0.15	0.46	S-8260A	04/22/1998	416
2,2-Dichloropropane	<0.37	ug/L	0.37	1.2	S-8260A	04/22/1998	416
1,1-Dichloropropene	<0.63	ug/L	0.63	2.0	S-8260A	04/22/1998	416
cis-1,3-Dichloropropene	<0.17	ug/L	0.17	0.56	S-8260A	04/22/1998	416
trans-1,3-Dichloropropene	<0.13	ug/L	0.13	0.42	S-8260A	04/22/1998	416
2,3-Dichloropropene	<0.30	ug/L	0.30	1.0	S-8260	04/22/1998	9
Di-isopropyl ether	<0.13	ug/L	0.13	0.41	S-8260A	04/22/1998	416
Ethylbenzene	<0.38	ug/L	0.38	1.2	S-8260A	04/22/1998	416
Hexachlorobutadiene	<0.37	ug/L	0.37	1.2	S-8260A	04/22/1998	416
Hexane	<1.7	ug/L	1.7	5.5	S-8260	04/22/1998	9
Isopropylbenzene	<0.36	ug/L	0.36	1.1	S-8260A	04/22/1998	416
p-Isopropyltoluene	<0.35	ug/L	0.35	1.1	S-8260A	04/22/1998	416
Methylene Chloride	<0.87	ug/L	0.87	3.1	S-8260A	04/22/1998	416
4-Methyl-2-pentanone (MIBK)	<0.37	ug/L	0.37	1.2	S-8260	04/22/1998	9
Methyl-t-butyl ether	<0.14	ug/L	0.14	0.45	S-8260A	04/22/1998	416
Naphthalene	<0.35	ug/L	0.35	1.1	S-8260A	04/22/1998	416
n-Propylbenzene	<0.46	ug/L	0.46	1.5	S-8260A	04/22/1998	416
Styrene	<0.16	ug/L	0.16	0.51	S-8260A	04/22/1998	416
1,1,1,2-Tetrachloroethane	<0.11	ug/L	0.11	0.34	S-8260A	04/22/1998	416
1,1,2,2-Tetrachloroethane	<0.39	ug/L	0.39	1.3	S-8260A	04/22/1998	416
Tetrachloroethene	<0.63	ug/L	0.63	2.0	S-8260A	04/22/1998	416
Tetrahydrofuran	<1.9	ug/L	1.9	6.1	S-8260	04/22/1998	9
Toluene	<0.39	ug/L	0.39	1.3	S-8260A	04/22/1998	416
1,2,3-Trichlorobenzene	<0.32	ug/L	0.32	1.0	S-8260A	04/22/1998	416
1,2,4-Trichlorobenzene	<0.18	ug/L	0.18	0.57	S-8260A	04/22/1998	416
1,1,1-Trichloroethane	<0.28	ug/L	0.28	0.88	S-8260A	04/22/1998	416
1,1,2-Trichloroethane	<0.15	ug/L	0.15	0.46	S-8260A	04/22/1998	416
Trichloroethene	<0.49	ug/L	0.49	1.6	S-8260A	04/22/1998	416
Trichlorofluoromethane	<0.58	ug/L	0.58	1.8	S-8260A	04/22/1998	416
1,2,3-Trichloropropane	<0.28	ug/L	0.28	0.90	S-8260A	04/22/1998	416
1,2,4-Trimethylbenzene	<0.32	ug/L	0.32	1.0	S-8260A	04/22/1998	416
1,3,5-Trimethylbenzene	<0.33	ug/L	0.33	1.0	S-8260A	04/22/1998	416
Vinyl Chloride	<0.46	ug/L	0.46	1.5	S-8260A	04/22/1998	416



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WDNR No. 128053530

### ANALYTICAL REPORT

Ms. Judy Fassbender  
HYDRO-SEARCH/GEO TRANS  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

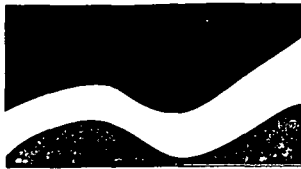
04/24/1998  
Job No: 98.03070  
Sample No: 293113  
Account No: 39150  
Page 41

JOB DESCRIPTION: N734 Ripon FF/NN Landfill  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: 00467206 Miller Well Dupe N734 Ripon  
Rec'd 4 degrees C

Date Taken: 04/14/1998 14:00

Date Received: 04/16/1998

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Prep/Run Batch
Xylenes, Total	<1.1	ug/L	1.1	3.6	S-8260A	04/22/1998	416
Surr: Dibromofluoromethane	100.8	%	n/a	n/a	S-8260A	04/22/1998	416
Surr: Toluene-d8	102.8	%	n/a	n/a	S-8260A	04/22/1998	416
Surr: Bromofluorobenzene	95.6	%	n/a	n/a	S-8260A	04/22/1998	416



# HSI GEOTRANS

A TETRA TECH COMPANY

175 N. Corporate Drive  
Suite 100  
Brookfield, Wisconsin  
53045

414-792-1282 FAX 414-792-1310

July 17, 1998  
(N734-101)

Mr. Greg Baneck  
W14298 Charles Street  
Ripon, WI 54971

RE: Results of Well Water Testing Conducted April 1998

Dear Mr. Baneck:

Water samples were collected from your home in April 1998 by HSI GeoTrans, Inc. and submitted for laboratory analysis. This testing was performed as part of the groundwater monitoring being conducted in cooperation with the Wisconsin Department of Natural Resources at the FF/NN Landfill in Ripon.

Your well water was tested for the presence of volatile organic compounds (VOCs). No VOCs were detected in the water sample from your well. Therefore, it does not appear that the FF/NN Landfill or any other contaminant source has impacted your well with VOC contamination. A copy of the laboratory results is attached. Note that the "<" in the results column means that a compound was undetected.

Should you have any questions concerning your water quality results, please feel free to call me collect at 414-792-1282, or call Chuck Warzecha at the Wisconsin Division of Health at 608-267-3732. Dave Carper is the project manager at the WDNR. He can provide you with information about the landfill and he can be reached at 608-267-6823.

Sincerely,

HSI GEOTRANS

Judy L. Fassbender  
Senior Hydrogeologist

JLF:gf

cc: Dave Carper, WDNR  
Chuck Warzecha, DHSS



ANALYTICAL REPORT

Ms. Judy Fassbender  
HYDRO-SEARCH/GEO TRANS  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

04/24/1998  
Job No: 98.03070  
Sample No: 293115  
Account No: 39150  
Page 45

JOB DESCRIPTION: N734 Ripon FF/NN Landfill  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: 00467xxx Baneck Well N734 Ripon  
Rec'd 4 degrees C

Date Taken: 04/14/1998 15:00

Date Received: 04/16/1998

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Prep/Run Batch
VOC - AQUEOUS - EPA 8260A							
Misc VOC Compounds							
Acetone	<3.0	ug/L	3.0	9.7	S-8260	04/22/1998	9
Acrolein	<3.2	ug/L	3.2	10	S-8260	04/22/1998	9
Acrylonitrile	<2.0	ug/L	2.0	6.5	S-8260	04/22/1998	9
Benzene	<0.31	ug/L	0.31	0.98	S-8260A	04/22/1998	416
Bromobenzene	<0.20	ug/L	0.20	0.64	S-8260A	04/22/1998	416
Bromochloromethane	<0.32	ug/L	0.32	1.0	S-8260A	04/22/1998	416
Bromodichloromethane	<0.20	ug/L	0.20	0.63	S-8260A	04/22/1998	416
Bromoform	<0.14	ug/L	0.14	0.45	S-8260A	04/22/1998	416
Bromomethane	<0.46	ug/L	0.46	1.5	S-8260A	04/22/1998	416
2-Butanone (MEK)	<2.0	ug/L	2.0	2.0	S-8260	04/22/1998	9
n-Butylbenzene	<0.44	ug/L	0.44	1.4	S-8260A	04/22/1998	416
sec-Butylbenzene	<0.45	ug/L	0.45	1.4	S-8260A	04/22/1998	416
tert-Butylbenzene	<0.38	ug/L	0.38	1.2	S-8260A	04/22/1998	416
Carbon Disulfide	<1.0	ug/L	1.0	1.0	S-8260	04/22/1998	9
Carbon Tetrachloride	<0.40	ug/L	0.40	1.3	S-8260A	04/22/1998	416
Chlorobenzene	<0.22	ug/L	0.22	0.69	S-8260A	04/22/1998	416
Chlorodibromomethane	<0.10	ug/L	0.10	0.33	S-8260A	04/22/1998	416
Chloroethane	<1.2	ug/L	1.2	3.9	S-8260A	04/22/1998	416
Chloroform	<0.18	ug/L	0.18	0.58	S-8260A	04/22/1998	416
Chloromethane	<0.38	ug/L	0.38	1.2	S-8260A	04/22/1998	416
2-Chlorotoluene	<0.28	ug/L	0.28	0.90	S-8260A	04/22/1998	416
4-Chlorotoluene	<0.47	ug/L	0.47	1.5	S-8260A	04/22/1998	416
1,2-Dibromo-3-Chloropropane	<1.4	ug/L	1.4	4.5	S-8260A	04/22/1998	416
1,2-Dibromoethane (EDB)	<0.16	ug/L	0.16	0.51	S-8260A	04/22/1998	416
Dibromomethane	<0.11	ug/L	0.11	0.36	S-8260A	04/22/1998	416
1,2-Dichlorobenzene	<0.20	ug/L	0.20	0.64	S-8260A	04/22/1998	416
1,3-Dichlorobenzene	<0.22	ug/L	0.22	0.71	S-8260A	04/22/1998	416
1,4-Dichlorobenzene	<0.35	ug/L	0.35	1.1	S-8260A	04/22/1998	416
Dichlorodifluoromethane	<0.49	ug/L	0.49	1.6	S-8260A	04/22/1998	416
1,1-Dichloroethane	<0.25	ug/L	0.25	0.79	S-8260A	04/22/1998	416
1,2-Dichloroethane	<0.20	ug/L	0.20	0.63	S-8260A	04/22/1998	416
1,1-Dichloroethene	<0.73	ug/L	0.73	2.3	S-8260A	04/22/1998	416
cis-1,2-Dichloroethene	<0.23	ug/L	0.23	0.74	S-8260A	04/22/1998	416



### ANALYTICAL REPORT

Ms. Judy Fassbender  
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175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

04/24/1998  
Job No: 98.03070  
Sample No: 293115  
Account No: 39150  
Page 46

JOB DESCRIPTION: N734 Ripon FF/NN Landfill  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: 00467xxx Baneck Well N734 Ripon  
Rec'd 4 degrees C

Date Taken: 04/14/1998 15:00

Date Received: 04/16/1998

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Prep/Run Batch
trans-1,2-Dichloroethene	<0.39	ug/L	0.39	1.2	S-8260A	04/22/1998	416
1,2-Dichloropropane	<0.29	ug/L	0.29	0.93	S-8260A	04/22/1998	416
1,3-Dichloropropane	<0.15	ug/L	0.15	0.46	S-8260A	04/22/1998	416
2,2-Dichloropropane	<0.37	ug/L	0.37	1.2	S-8260A	04/22/1998	416
1,1-Dichloropropene	<0.63	ug/L	0.63	2.0	S-8260A	04/22/1998	416
cis-1,3-Dichloropropene	<0.17	ug/L	0.17	0.56	S-8260A	04/22/1998	416
trans-1,3-Dichloropropene	<0.13	ug/L	0.13	0.42	S-8260A	04/22/1998	416
2,3-Dichloropropene	<0.30	ug/L	0.30	1.0	S-8260	04/22/1998	9
Di-isopropyl ether	<0.13	ug/L	0.13	0.41	S-8260A	04/22/1998	416
Ethylbenzene	<0.38	ug/L	0.38	1.2	S-8260A	04/22/1998	416
Hexachlorobutadiene	<0.37	ug/L	0.37	1.2	S-8260A	04/22/1998	416
Hexane	<1.7	ug/L	1.7	5.5	S-8260	04/22/1998	9
Isopropylbenzene	<0.36	ug/L	0.36	1.1	S-8260A	04/22/1998	416
p-Isopropyltoluene	<0.35	ug/L	0.35	1.1	S-8260A	04/22/1998	416
Methylene Chloride	<0.87	ug/L	0.87	3.1	S-8260A	04/22/1998	416
4-Methyl-2-pentanone (MIBK)	<0.37	ug/L	0.37	1.2	S-8260	04/22/1998	9
Methyl-t-butyl ether	<0.14	ug/L	0.14	0.45	S-8260A	04/22/1998	416
Naphthalene	<0.35	ug/L	0.35	1.1	S-8260A	04/22/1998	416
n-Propylbenzene	<0.46	ug/L	0.46	1.5	S-8260A	04/22/1998	416
Styrene	<0.16	ug/L	0.16	0.51	S-8260A	04/22/1998	416
1,1,1,2-Tetrachloroethane	<0.11	ug/L	0.11	0.34	S-8260A	04/22/1998	416
1,1,1,2,2-Tetrachloroethane	<0.39	ug/L	0.39	1.3	S-8260A	04/22/1998	416
Tetrachloroethene	<0.63	ug/L	0.63	2.0	S-8260A	04/22/1998	416
Tetrahydrofuran	<1.9	ug/L	1.9	6.1	S-8260	04/22/1998	9
Toluene	<0.39	ug/L	0.39	1.3	S-8260A	04/22/1998	416
1,2,3-Trichlorobenzene	<0.32	ug/L	0.32	1.0	S-8260A	04/22/1998	416
1,2,4-Trichlorobenzene	<0.18	ug/L	0.18	0.57	S-8260A	04/22/1998	416
1,1,1-Trichloroethane	<0.28	ug/L	0.28	0.88	S-8260A	04/22/1998	416
1,1,2-Trichloroethane	<0.15	ug/L	0.15	0.46	S-8260A	04/22/1998	416
Trichloroethene	<0.49	ug/L	0.49	1.6	S-8260A	04/22/1998	416
Trichlorofluoromethane	<0.58	ug/L	0.58	1.8	S-8260A	04/22/1998	416
1,2,3-Trichloropropane	<0.28	ug/L	0.28	0.90	S-8260A	04/22/1998	416
1,2,4-Trimethylbenzene	<0.32	ug/L	0.32	1.0	S-8260A	04/22/1998	416
1,3,5-Trimethylbenzene	<0.33	ug/L	0.33	1.0	S-8260A	04/22/1998	416
Vinyl Chloride	<0.46	ug/L	0.46	1.5	S-8260A	04/22/1998	416



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WDNR No. 128053530

### ANALYTICAL REPORT

Ms. Judy Fassbender  
HYDRO-SEARCH/GEO TRANS  
175 N. Corporate Drive  
Suite 100  
Brookfield, WI 53045

04/24/1998  
Job No: 98.03070  
Sample No: 293115  
Account No: 39150  
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JOB DESCRIPTION: N734 Ripon FF/NN Landfill  
PROJECT DESCRIPTION: Groundwater Analysis  
SAMPLE DESCRIPTION: 00467xxx Baneck Well N734 Ripon  
Rec'd 4 degrees C

Date Taken: 04/14/1998 15:00

Date Received: 04/16/1998

Parameter	Results	Units	MDL	LOQ	Method	Date Analyzed	Prep/Run Batch
Xylenes; Total	<1.1	ug/L	1.1	3.6	S-8260A	04/22/1998	416
Surr: Dibromofluoromethane	104.0	%	n/a	n/a	S-8260A	04/22/1998	416
Surr: Toluene-d8	104.0	%	n/a	n/a	S-8260A	04/22/1998	416
Surr: Bromofluorobenzene	95.8	%	n/a	n/a	S-8260A	04/22/1998	416