10-2-11

Iowa
department of water, air and waste management

March 12, 1985

Atlantic PWS
161168
Atlantic Water
IAD039954200
1e3
IDWAWH
3-12-85

Manager
Atlantic Municipal Utilities
Atlantic, Iowa 50022

RE: Synthetic Organic Compound Study
Resampling Results

Dear Sir:

I have enclosed a copy of the results for the samples recently collected by our regional staff from your water system. These samples were collected to determine the validity of previous analytical results. The following organic compounds were detected:

Sample Location	Organic Compound	Concentration is Parts Per Billion
Finished	Chloroform	5
Finished	Bromodichloromethane	12
Finished	Dibromochloromethane	28
Finished	Bromoform	10

The synthetic organic chemicals found in the finished water sample (chloroform, bromodichloromethane, dibromochloromethane, bromoform) belong to a group of compounds called trihalomethanes (TTHM). TTHM's are formed during the disinfection process when chlorine reacts with dissolved organic matter. Public water systems serving over 10,000 people routinely monitor for these substances. The maximum contaminant level for TTHM's is 100 PPB. 45 PPB were found in your drinking water. The contaminants at their present concentrations should pose no immediate health concern.

We are in the process of compiling the data for the synthetic organic compound study and will contact you if we have any further information to provide you. Thanks again for your cooperation in this study. Please contact me directly if you have any questions about this letter or the contaminants found in your water.

Sincerely,

FIELD SERVICES DIVISION

A720
00-00 161168
SUPERFUND RECORDS

James R. Humeston
Environmental Specialist
Central Assistance Branch

JRH:blb/FSW070D03.01

cc: Region 4

UNIVERSITY HYGIENIC LABORATORY
Analytical Report

Client: IDWAWM
Client Address:

Client Sample Identification: Bathroom Sink - IDWAWM, Reg. Office No. 4, Atlantic, Iowa
Date Sample Collected: 1-23-85
Date Sample Received: 1-24-85

ANALYTICAL RESULTS

UHL Lab No. 5-0461

Analyte	Concentration (µg/L)	%SD Precision	Accuracy (%Recovery)	Quantitation Limit (µg/L)
chloromethane	<1	± 10	86	1
bromomethane	<1	± 9	99	1
vinyl chloride	<1	± 8	102	1
chloroethane	<1	± 12	99	1
methylene chloride	<1	± 10	77	1
1,1-dichloroethene	<1	± 10	97	1
1,1-dichloroethane	<1	± 4	100	1
trans-1,2-dichloroethene	<1	± 10	76	1
chloroform	5	± 3	99	1
1,2-dichloroethane	<1	± 3	92	1
1,1,1,-trichloroethane	<1	± 2	110	1
carbon tetrachloride	<1	± 5	104	1
bromodichloromethane	12	± 3	96	1
1,2-dichloropropane	<1	± 2	87	1
trans-1,3-dichloropropene	<1	± 4	86	1
trichloroethene	<1	± 7	69	1
dibromochloromethane	28	± 11	92	1

Analytical Method: EPA Method 624

Analyst: G. Robertson and S. Chase
Verified: JC
Date Reported: 2-22-85

'85 MAR 7 AM 10 05

E13/5-0461a

ANALYTICAL RESULTS

UHL Lab No. 5-0461

Analyte	Concentration (µg/L)	%SD Precision	Accuracy (%Recovery)	Quantitation Limit (µg/L)
cis-1,3-dichloropropene	<1	± 7	80	1
1,1,2-trichloroethane	<1	± 8	92	1
benzene	<1	± 3	96	1
2-chloroethylvinyl ether	<5	± 23	84	5
bromoform	10	± 16	96	1
tetrachloroethene	<1	± 5	94	1
1,1,2,2-tetrachloroethane	<1	± 12	98	1
toluene	<1	± 5	87	1
chlorobenzene	<1	± 9	88	1
ethylbenzene	<1	± 8	88	1
acrolein	<25	ND	ND	25
acrylonitrile	<25	ND	ND	25

Analytical Method: EPA Method 624

Analyst: G. Robertson and S. Chase
Verified: SC
Date Reported: 2-22-85

ND = Not Determined

FEB 2

UNIVERSITY HYGIENIC LABORATORY
UNIVERSITY OF IOWA
OAKDALE HALL
IOWA CITY, IOWA 52242

CLIENT WAWM - SOC

SITE Atlantic PRIMARY LAB ID 5-0461

SPECIFIC SAMPLING LOCATION IDWAWM Regional Office No. 4 SECONDARY ID

PESTICIDE COMPOUNDS

Compound	Concentration (µg/L)	Compound	Concentration (µg/L)
ldrin (HHDN)	<0.02	Toxaphene (polychlorocamphene)	<0.6
alpha-BHC (α Benzene Hexachloride)	<0.01	Dyfonate (Fonofos)	<0.1
beta-BHC (β Benzene Hexachloride)	<0.02	Counter (Terbufos)	<0.1
delta-BHC (Benzene Hexachloride)	<0.02	Lorsban (Chlorpyrifos)	<0.1
gamma-BHC (Lindane)	<0.01	Thimet (Phorate)	<0.1
Chlordane	<0.1	MoCap (Ethoprop)	<0.1
DDD (TDE)	<0.04	Atrazine (AAtrex)	<0.1
DDE	<0.02	Bladex (Cyanazine)	<0.08
DDT (Dichlorodiphenyltrichloroethane)	<0.04	Lasso (Alaclor)	<0.08
Dieldrin (HEOD)	<0.02	Treflan (Trifluralin)	<0.02
Endosulfan I (Thiodan I)	<0.02	Sencor (Metribuzin)	<0.01
Endosulfan II (Thiodan II)	<0.04	Dual (Metolachlor)	<0.1
Endosulfan sulfate	<0.02	Prowl (Pendimethalin)	<0.02
Endrin (Endrex)	<0.04	Amiben (Chloramben)	<0.07
Endrin aldehyde	<0.05	Banvel (Dicamba)	<0.07
Heptachlor	<0.01	2,4-D	<0.07
Heptachlor epoxide	<0.02	Silvex	<0.05

E14/p5-0461
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