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**DEPARTMENT OF THE ENVIRONMENT**

2500 Broening Highway, Baltimore, Maryland 21224

Area Code 301 • 631-3304

William Donald Schaefer  
Governor

Martin W. Walsh, Jr.  
Secretary

December 22, 1988

Mr. Thomas Voltaggio, Chief  
Superfund Branch  
U.S.E.P.A.  
6th and Walnut Streets  
Philadelphia, Pennsylvania 19106

Dear Mr. Voltaggio:

Enclosed is the Keystone Area Monitoring System Fact Sheet summarizing the most recent rounds of samples collected from the Maryland monitoring system and copies of the sample sheets from the 23 sampling points.

If you have any questions, please contact Mr. Barry J. Schmidt, Chief, Solid Waste Enforcement Division, at (301) 631-3424.

Sincerely,

Ronald Nelson, Director  
Hazardous and Solid Waste  
Management Administration

RN:lak

Enclosure

cc: Mr. James J. Pittman III  
Mr. Barry J. Schmidt

AR102840

KEYSTONE AREA MONITORING SYSTEM  
SAMPLING ROUNDS XII AND XIII - FACT SHEET  
MARYLAND DEPARTMENT OF THE ENVIRONMENT  
HAZARDOUS AND SOLID WASTE MANAGEMENT ADMINISTRATION

NOVEMBER, 1988

BACKGROUND

The most recent rounds of samples were collected quarterly from the Maryland Monitoring System on June 21 and 22, 1988 and September 27 and 28, 1988. Review of the September sampling analyses indicated a data quality assurance problem. As required by the Continuing Program Evaluation section of the original monitoring system proposed, a data quality assurance investigation was initiated. Review of the laboratory procedures indicated a high probability of analyses error. A resample of the effected sample locations was conducted on October 19, 1988 with the follow-up laboratory analyses only for the parameters in question. It was confirmed that the anomalies in the September analyses were due to laboratory error.

The information obtained from these sampling rounds does not show any significant deviation from past analyses.

DATA

I. MARYLAND MONITORING SYSTEM - VOLATILE ORGANIC COMPOUNDS (VOC's)

- A. Monitoring Wells - Sampled June 21 and 22, September 27 and 28 and October 19, 1988.

There is a high probability that the toluene reported as having been found in MD-W-1, W-3, W-4, W-5, W-6 and W-7, which were collected on 9/27/88, was not actually present in the samples, but may be attributed to the residue present in the purging vessel from a sample high in toluene which was run on the GC/MS (unit used to analyze samples for volatile organic compounds) immediately prior to the monitoring system samples. Anomalous data for toluene are not reported. Toluene was not found in the samples of MD-W-1, W-3, W-4, W-5, W-6, or W-7 which were collected on 10/19/88.

(MD-W-1) - June 21, 1988  
trans-1,2-Dichloroethene - 1 ppb  
Chloroform - 1 ppb  
Tetrachloroethene - 2 ppb

(MD-W-1) - September 27, 1988  
trans-1,2-Dichloroethene - 1 ppb      Tetrahydrofuran - 3 ppb  
Tetrachloroethene - 2 ppb              Methyl ethyl ketone - 2 ppb  
Chlorobenzene - 6 ppb

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(MD-W-1) - October 19, 1988 resample  
trans-1,2-Dichloroethene - 2 ppb  
1,2-Dichloroethane - 2 ppb  
Trichloroethene - 1 ppb  
Tetrachloroethene - 2 ppb

(MD-W-2) - June 21, 1988  
trans-1,2-Dichloroethene - 3 ppb  
Trichloroethene - 1 ppb  
Tetrachloroethene - 10 ppb  
Toluene - 7 ppb

(MD-W-2) - September 27, 1988  
trans-1,2-Dichloroethene - 3 ppb  
Trichloroethene - 1 ppb  
Tetrachloroethene - 12 ppb

(MD-W-2) - October 19, 1988 resample  
trans-1,2-Dichloroethene - 5 ppb  
Trichloroethene - 1 ppb  
Tetrachloroethene - 14 ppb

(MD-W-3) - June 21, 1988  
No volatile organic compounds  
detected.

(MD-W-3) - October 19, 1988 resample  
No volatile organic compounds  
detected.

(MD-W-4) - June 21, 1988  
No volatile organic compounds  
detected.

(MD-W-4) - October 19, 1988 resample  
No volatile organic compounds  
detected.

(MD-W-5) - June 21, 1988  
No volatile organic compounds  
detected.

(MD-W-5) - October 19, 1988 resample  
No volatile organic compounds  
detected.

(MD-W-6) - June 21, 1988  
No volatile organic compounds  
detected.

(MD-W-6) - October 19, 1988 resample  
No volatile organic compounds  
detected.

(MD-W-7) - June 21, 1988  
No volatile organic compounds  
detected.

(MD-W-7) - October 19, 1988 resample  
No volatile organic compounds  
detected.

(MD-W-8) - June 21, September 27, & October 19, 1988 resample  
No volatile organic compounds detected

(MD-W-9) - June 21, September 27, & October 19, 1988 resample  
No volatile organic compounds detected

B. Surface Waters - Sampled June 21, September 27, & October 19, 1988  
resample

The acetone and toluene found in the 9/27/88 sample of MD-S-5 were not  
found in the resample on 10/19/88.

(MD-S-1 through MD-S-3) - June 21, September 27 & October 19, 1988  
resample  
No volatile organic compounds detected

(MD-S-4) - June 21, 1988  
Tetrachloroethene - 1 ppb

(MD-S-4) - September 27, 1988  
Acetone - 55 ppb

(MD-S-4) - October 19, 1988 resample  
No volatile organic compounds detected

(MD-S-5) - June 21, 1988  
1,1-Dichloroethane - 1 ppb  
trans-1,2-Dichloroethene - 1 ppb  
tetrachloroethene - 5 ppb

(MD-S-5) - September 27, 1988  
trans-1,2-Dichloroethene - 2 ppb  
Toluene - 164 ppb  
Acetone - 21 ppb

(MD-S-5) - October 19, 1988 resample  
No volatile organic compounds detected

(MD-S-6) - June 21, 1988  
Tetrachloroethene - 4 ppb  
Toluene - 2 ppb

(MD-S-6) - September 27, 1988  
trans-1,2-Dichloroethene - 1 ppb  
Trichloroethene - 1 ppb  
Tetrachloroethene - 5 ppb

(MD-S-6) - October 19, 1988 resample  
Tetrachloroethene - 4 ppb

(MD-S-8) - June 21, 1988  
No volatile organic compounds detected

(MD-S-8) - September 27 and October 19, 1988 resample  
Seep dry - not sampled

C. Residential Wells - Sampled June 22 and September 28, 1988

Methylene chloride was detected in MD-R-5 and MD-R-6 on June 22 but was not found on the September quarterly sample. Methylene chloride is a common laboratory contaminant. Chloroform at 1 ppb was detected in MD-R-2 on both quarterly samples. No previous detection of this compound has been made in this well which may result from well disinfection.

II. MARYLAND MONITORING SYSTEM - INORGANIC PRIMARY PARAMETERS

A. Monitoring Wells - Sampled June 21 and September 27, 1988

(MD-W-3) - June 21, 1988  
Nitrate - 11 ppm (standard 10 ppm)

(MD-S-3) - September 27, 1988  
Lead - .07 ppm (standard .05 ppm)

(MD-S-5) - September 27, 1988  
Barium - 1.4 ppm (standard 1.0 ppm)  
Chromium - 0.24 ppm (standard 0.05 ppm)  
Lead - 0.39 ppm (standard 0.05 ppm)

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mehsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M.D. W-1 COLLECTOR Beckman Morris  
County

SOURCE OF SAMPLE Keystone  
(Include Address)

SAMPLE TYPE: Community  Noncommunity  Domestic  STP Station   
Observation Well  Stream  Tidal Waters  Industrial Effluent   
Other (Specify) \_\_\_\_\_  
Preservative Used 1+HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 6/88  
Reason for submitting sample: Survey  Suspected Petroleum Contamination   
Suspected Industrial Chemical Contamination  Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From: Stellman 9/2/88 To: \_\_\_\_\_  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: Copy sent to K. Nelson Only w m A

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
										<u>W-1</u>	<u>09</u>	<u>27</u>	<u>88</u>					
TRANS TYPE			PLANT NO.				SAMPLING STATION				DATE COLLECTED				CARD NO.			

FIELD pH:

FIELD RESID. CHLORINE: FREE

TOTAL

Purgeable Halocarbons (EPA <u>8240</u> )				Other Purgeables	
Chloromethane	<1	trans-1,3-Dichloropropene	<1	Benzene	<1
Bromomethane		Trichloroethene		Toluene	14
Dichlorodifluoromethane		Dibromochloromethane		Ethylbenzene	<1
Vinyl chloride		1,1,2-Trichloroethane		Total Xylenes	<2
Chloroethane		cis-1,3-Dichloropropene		Total Purgeable Hydrocarbons	3
Methylene chloride		2-Chloroethylvinylether		Tetrahydrofuran	N.D.
Trichlorofluoromethane		Bromoform		(2-Butanone MEK)	2
1,1-Dichloroethene		1,1,1,2-Tetrachloroethene	2	Methylisobutylketone (MIBK)	N.D.
1,1-Dichloroethane		Tetrachloroethene	6	Acrolein	
trans-1,2-Dichloroethene		Chlorobenzene		Acrylonitrile	
Chloroform		Total Trihalomethanes		Carbon Disulfide	
1,2-Dichloroethane		Other Purgeable Organics:	N.D.	Vinyl Acetate	
1,1,1-Trichloroethane				Acetone	
Carbon Tetrachloride				2-Hexanone	
Bromodichloromethane				Styrene	
1,2-Dichloropropane					

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mehsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M.D.W-2 COLLECTOR Beelan Assume  
County

SOURCE OF SAMPLE Kenilworth  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well  Stream \_\_\_\_\_ Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 141 NCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 6/88  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Beelan 9/27/88 To \_\_\_\_\_  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: Copy's sent to R. Nelson WMA Only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
TRANS TYPE			COUNTY				PLANT NO.				SAMPLING STATION				DATE COLLECTED				CARD NO.	
							W2				09 27 88									

FIELD PH    FIELD RESID. CHLORINE: FREE   TOTAL

Purgeable Halocarbons (EPA 8240)

- Chloromethane <1
- Bromomethane
- Dichlorodifluoromethane
- Vinyl chloride
- Chloroethane
- Methylene chloride
- Trichlorofluoromethane
- 1,1-Dichloroethane
- 1,1-Dichloroethane
- trans-1,2-Dichloroethane 3
- Chloroform <1
- 1,2-Dichloroethane
- 1,1,1-Trichloroethane
- Carbon Tetrachloride
- Bromodichloromethane
- 1,2-Dichloropropane

- trans-1,3-Dichloropropene <1
- Trichloroethene
- Dibromochloromethane
- 1,1,2-Trichloroethane
- cis-1,3-Dichloropropene
- 2-Chloroethylvinyl ether
- Bromoform
- 1,1,2,2-Tetrachloroethene
- Tetrachloroethene 12
- Chlorobenzene <1
- Total Trihalomethanes
- Other Purgeable Organics: N.D.

Other Purgeables

- Benzene <1
- Toluene
- Ethylbenzene
- Total Xylenes 2
- Total Purgeable Hydrocarbons
- Tetrahydrofuran N.D.
- (2-Butanone MEK)
- Methylisobutylketone (MIBK)
- Acrolein
- Acrylonitrile
- Carbon Disulfide
- Vinyl Acetate
- Acetone
- 2-Hexanone
- Styrene

STATE OF MARYLAND  
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
 Laboratories Administration  
 801 W. Preston Street  
 J. Mehsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
 VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER MD. W-3 COLLECTOR Bellum Carroll County

SOURCE OF SAMPLE Keystone  
 (Include Address)

SAMPLE TYPE: Community  Noncommunity  Domestic  STP Station   
 Observation Well  Stream  Tidal Waters  Industrial Effluent   
 Other (Specify) \_\_\_\_\_  
 Preservative Used 147 HCl

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 6/88  
 Reason for submitting sample: Survey  Suspected Petroleum Contamination   
 Suspected Industrial Chemical Contamination  Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From: Bellum 9/27/88 To: \_\_\_\_\_

REMARKS: Copy sent to R-Nelson W-V-A-D

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TRANS TYPE		COUNTY		PLANT NO.			SAMPLING STATION		DATE COLLECTED				CARD NO.					
							43		092788									
20	21	22	23	24	25	26												
FIELD PH			FIELD RESID. CHLORINE: FREE			TOTAL												
<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>												

Purgeable Halocarbons (EPA 8240)

Other Purgeables

Chloromethane	<1	trans-1,3-Dichloropropene	<1	Benzene	<1
Bromomethane		Trichloroethene		Toluene	4
Dichlorodifluoromethane		Dibromochloromethane		Ethylbenzene	1
Vinyl chloride		1,1,2-Trichloroethane		Total Xylenes	2
Chloroethane		cis-1,3-Dichloropropene		Total Purgeable Hydrocarbons	
Methylene chloride		2-Chloroethylvinylether		Tetrahydrofuran	N.D.
Trichlorofluoromethane		Bromoform		(2-Butanone MEK)	
1,1-Dichloroethene		1,1,2,2-Tetrachloroethane		Methylisobutylketone (MIBK)	
1,1-Dichloroethane		Tetrachloroethane		Acrolein	
trans-1,2-Dichloroethene		Chlorobenzene		Acrylonitrile	
Chloroform		Total Trihalomethanes		Carbon Disulfide	
1,2-Dichloroethane		Other Purgeable Organics: <u>N.D.</u>		Vinyl Acetate	
1,1,1-Trichloroethane				Acetone	
Carbon Tetrachloride				2-Hexanone	
Bromodichloromethane				Styrene	
1,2-Dichloropropane					

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STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mahsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M.D.W-4 COLLECTOR Ballman Carver County

SOURCE OF SAMPLE Keystone  
(Include Address) \_\_\_\_\_

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well  Stream \_\_\_\_\_ Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 1.2% HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 6/88  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From: Ballman 9/27/88 To: \_\_\_\_\_  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: As per sent to Mahsen W. W. only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
TRANS TYPE			COUNTY				PLANT NO.				SAMPLING STATION				DATE COLLECTED				CARD NO.	

FIELD pH    FIELD RESID. CHLORINE: FREE   TOTAL

Purgeable Halocarbons (EPA) 8240

Other Purgeables

Chloromethane	<1	trans-1,3-Dichloropropene	<1	Benzene	<1
Bromomethane		Trichloroethene		Toluene	3
Dichlorodifluoromethane		Dibromochloromethane		Ethylbenzene	1
Vinyl chloride		1,1,2-Trichloroethane		Total Xylenes	2
Chloroethane		cis-1,3-Dichloropropene		Total Purgeable Hydrocarbons	2
Methylene chloride		2-Chloroethylvinylether		Tetrahydrofuran	2
Trichlorofluoromethane		Bromoform		(2-Butanone MEK)	
1,1-Dichloroethene		1,1,2,2-Tetrachloroethene		Methylisobutylketone (MIBK)	
1,1-Dichloroethane		Tetrachloroethene		Acrolein	
trans-1,2-Dichloroethene		Chlorobenzene		Acrylonitrile	
Chloroform		Total Trihalomethanes		Carbon Disulfide	
1,2-Dichloroethane		Other Purgeable Organics: <u>N.D.</u>		Vinyl Acetate	
1,1,1-Trichloroethane				Acetone	
Carbon Tetrachloride				2-Hexanone	
Bromodichloromethane				Styrene	
1,2-Dichloropropane					

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891336

Results reported in micrograms per (parts per million/billion)

SEP 27 1988

SEP 27 1988



STATE OF MARYLAND  
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
 Laboratories Administration  
 201 W. Preston Street  
 J. Mehsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
 VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER MD.W-5 COLLECTOR Reelun Sanow County

SOURCE OF SAMPLE Keystone  
 (Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
 Observation Well  Stream \_\_\_\_\_ Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
 Other (Specify) \_\_\_\_\_

Preservative Used 1% HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 6/24  
 Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_

Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From: Reelun 9/27/88 To: \_\_\_\_\_  
 From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: Log sent to Reelun Wm H Only!

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TRANS TYPE	COUNTY		PLANT NO.				SAMPLING STATION				DATE COLLECTED				CARD NO.			
	20	21	22	FIELD RESID. CHLORINE: FREE				23	24	TOTAL		25	26					
FIELD pH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					

Purgeable Halocarbons (EPA)			Other Purgeables	
Chloromethane	<L	trans-1,3-Dichloropropene	<L	Benzene
Bromomethane		Trichloroethene		Toluene
Dichlorodifluoromethane		Dibromochloromethane		Ethylbenzene
Vinyl chloride		1,1,2-Trichloroethane		Total Xylenes
Chloroethane		cis-1,3-Dichloropropene		Total Purgeable Hydrocarbons
Methylene chloride		2-Chloroethylvinylether		Tetrahydrofuran
Trichlorofluoromethane		Bromoform		(2-Butanone MEK)
1,1-Dichloroethene		1,1,2,2-Tetrachloroethene		Methylisobutylketone (MIBK)
1,1-Dichloroethane		Tetrachloroethane		Acrolein
trans-1,2-Dichloroethene		Chlorobenzene		Acrylonitrile
Chloroform		Total Trihalomethanes		Carbon Disulfide
1,2-Dichloroethane		Other Purgeable Organics: <u>N.D.</u>		Vinyl Acetate
1,1,1-Trichloroethane				Acetone
Carbon Tetrachloride				2-Hexanone
Bromodichloromethane				Styrene
1,2-Dichloropropane				



STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mehsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M.D. W-7 COLLECTOR Beclun Chesapeake County

SOURCE OF SAMPLE Keystone  
(Include Address)

SAMPLE TYPE: Community  Noncommunity  Domestic  STP Station

Observation Well  Stream  Tidal Waters  Industrial Effluent

Other (Specify) \_\_\_\_\_

Preservative Used INHCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 6/88

Reason for submitting sample: Survey  Suspected Petroleum Contamination

Suspected Industrial Chemical Contamination  Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Beclun 7/27/88

To: \_\_\_\_\_

REMARKS: Copy sent to K. Nelson W. M.A. Only!

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TRANS TYPE		COUNTY		PLANT NO.			SAMPLING STATION				DATE COLLECTED				CARO NO.			

20	21	22	23	24	25	26
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FIELD pH			FIELD RESID. CHLORINE: FREE		TOTAL	

Purgeable Halocarbons (EPA 8240)

- Chloromethane <1
- Bromomethane
- Dichlorodifluoromethane
- Vinyl chloride
- Chloroethane
- Methylene chloride
- Trichlorofluoromethane
- 1,1-Dichloroethene
- 1,1-Dichloroethane
- trans-1,2-Dichloroethene
- Chloroform
- 1,2-Dichloroethane
- 1,1,1-Trichloroethane
- Carbon Tetrachloride
- Bromodichloromethane
- 1,2-Dichloropropane

- trans-1,3-Dichloropropene <1
- Trichloroethene
- Dibromochloromethane
- 1,1,2-Trichloroethane
- cis-1,3-Dichloropropene
- 2-Chloroethylnitroethene
- Bromoform
- 1,1,2,2-Tetrachloroethene
- Tetrachloroethene
- Chlorobenzene
- Total Trihalomethanes

Other Purgeable Organics: ND

Other Purgeables

- Benzene <1
- Toluene 2
- Ethylbenzene 1
- Total Xylenes 2
- Total Purgeable Hydrocarbons
- Tetrahydrofuran ND
- (2-Butanone MEK)
- Methylisobutylketone (MIBK)
- Acrolein
- Acrylonitrile
- Carbon Disulfide
- Vinyl Acetate
- Acetone
- 2-Hexanone
- Styrene

ARI02850

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratory Administration  
201 W. Preston Street  
J. Mahsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M.D.W-8 COLLECTOR Beclun Carroll County

SOURCE OF SAMPLE Keystone  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well  Stream \_\_\_\_\_ Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 1 + 1 HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 6/88  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From: Beclun 9/27/88 To: \_\_\_\_\_  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: Copy sent to Peterson WMA only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
TRANS TYPE			PLANT NO.				SAMPLING STATION				DATE COLLECTED				CARD NO.			

20	21	22	23	24	25	26
FIELD PH			FIELD RESID. CHLORINE: FREE		TOTAL	

Purgeable Halocarbons (EPA 8240)

Chloromethane	<1
Bromomethane	
Dichlorodifluoromethane	
Vinyl chloride	
Chloroethane	
Methylene chloride	
Trichlorofluoromethane	
1,1-Dichloroethene	
1,1-Dichloroethane	
trans-1,2-Dichloroethene	
Chloroform	
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon Tetrachloride	
Bromodichloromethane	
1,2-Dichloropropane	

trans-1,3-Dichloropropene	<1
Trichloroethene	
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethylvinylether	
Bromoform	
1,1,2,2-Tetrachloroethene	
Tetrachloroethene	
Chlorobenzene	
Total Trihalomethanes	
Other Purgeable Organics:	<u>N.D.</u>

Other Purgeables

Benzene	<1
Toluene	
Ethylbenzene	
Total Xylenes	
Total Purgeable Hydrocarbons	
Tetrahydrofuran	<u>N.D.</u>
(2-Butanone MEK)	
Methylisobutylketone (MIBK)	
Acrolein	
Acrylonitrile	
Carbon Disulfide	
Vinyl Acetate	
Acetone	
2-Hexanone	
Styrene	

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
801 W. Preston Street  
J. Mehsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M.D. W 9 COLLECTOR Nelson Reynolds County

SOURCE OF SAMPLE Keystone  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well  Stream \_\_\_\_\_ Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used \_\_\_\_\_

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 6/88  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From: Nelson 9/27/88 To: \_\_\_\_\_  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: Copy sent to Nelson W.M.H. County

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
TRANS TYPE			COUNTY				PLANT NO.				SAMPLING STATION				DATE COLLECTED				CARD NO.	

FIELD pH 

20	21	22
----	----	----

 FIELD RESID. CHLORINE: FREE 

23	24
----	----

 TOTAL 

25	26
----	----

Purgeable Halocarbons (EPA 8240)

Chloromethane	<1
Bromomethane	
Dichlorodifluoromethane	
Vinyl chloride	
Chloroethane	
Methylene chloride	
Trichlorofluoromethane	
1,1-Dichloroethane	
1,1-Dichloroethane	
trans-1,2-Dichloroethane	
Chloroform	
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon Tetrachloride	
Bromodichloromethane	
1,2-Dichloropropane	↓

trans-1,3-Dichloropropene	<1
Trichloroethene	
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethylvinylether	
Bromoform	
1,1,2,2-Tetrachloroethene	
Tetrachloroethene	
Chlorobenzene	↓
Total Trihalomethanes	
Other Purgeable Organics:	N.D.

Other Purgeables

Benzene	<1
Toluene	
Ethylbenzene	↓
Total Xylenes	≤2
Total Purgeable Hydrocarbons	
Tetrahydrofuran	N.D.
(2-Butanone MEK)	
Methylisobutylketone (MIBK)	
Acrolein	
Acrylonitrile	
Carbon Disulfide	
Vinyl Acetate	
Acetone	
2-Hexanone	
Styrene	↓

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston Street  
J. Mehsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER MD-5-1 COLLECTOR Bellum Carroll  
County

SOURCE OF SAMPLE Keyston  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well  Stream \_\_\_\_\_ Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 1% HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 6/88  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_

Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_  
CHAIN OF CUSTODY: From Bellum 9/27/88 To:

REMARKS: Sample sent to L. Nelson via air only!  
Steam S-18 (DRY)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TRANS TYPE	COUNTY		PLANT NO.				SAMPLING STATION				DATE COLLECTED				CARD NO.				
	20	21	22	23	24	25	26												
FIELD pH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FIELD RESID. CHLORINE: FREE				<input type="checkbox"/>	<input type="checkbox"/>	TOTAL		<input type="checkbox"/>	<input type="checkbox"/>						

Purgeable Halocarbons (EPA 601)

Other Purgeables

Chloromethane <5  
Bromomethane <1  
Dichlorodifluoromethane  
Vinyl chloride  
Chloroethane  
Methylene chloride  
Trichlorofluoromethane  
1,1-Dichloroethene  
1,1-Dichloroethane  
trans-1,2-Dichloroethene  
Chloroform  
1,2-Dichloroethane  
1,1,1-Trichloroethane  
Carbon Tetrachloride  
Bromodichloromethane  
1,2-Dichloropropane

trans-1,3-Dichloropropene <1  
Trichloroethene  
Dibromochloromethane  
1,1,2-Trichloroethane  
cis-1,3-Dichloropropene  
2-Chloroethylvinylether  
Bromoform  
1,1,2,2-Tetrachloroethane  
Tetrachloroethane  
Chlorobenzene  
Total Trihalomethanes  
Other Purgeable Organics: N.P.

Benzene <1  
Toluene  
Ethylbenzene  
Total Xylenes <2  
Total Purgeable Hydrocarbons  
Tetrahydrofuran N.P.  
(2-Butanone MEK)  
Methylisobutylketone (MIBK)  
Acrolein  
Acrylonitrile  
Carbon Disulfide  
Vinyl Acetate  
Acetone  
2-Hexanone  
Styrene

ARTU2853

SEP 27 1988

SEP 29 1988

891342

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mahsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M.O. 5.2 COLLECTOR Bellum Carroll  
County

SOURCE OF SAMPLE Keystone  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well \_\_\_\_\_ Stream  Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 147 AC

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 6/08  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Bellum 9/17/08 To: \_\_\_\_\_  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: Sample sent to K. Nelson WMA only!

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
									3	2										
TRANS TYPE			COUNTY				PLANT NO.				SAMPLING STATION				DATE COLLECTED				CARD NO.	
20	21	22	FIELD RESID. CHLORINE: FREE				23	24	TOTAL		25	26								

Purgeable Halocarbons (EPA 601)			Other Purgeables
Chloromethane	<u>55</u>	trans-1,3-Dichloropropene	<u>&lt;1</u>
Bromomethane	<u>51</u>	Trichloroethene	<u>---</u>
Dichlorodifluoromethane	<u>---</u>	Dibromochloromethane	<u>---</u>
Vinyl chloride	<u>---</u>	1,1,2-Trichloroethane	<u>---</u>
Chloroethane	<u>---</u>	cis-1,3-Dichloropropene	<u>---</u>
Methylene chloride	<u>---</u>	2-Chloroethylvinylether	<u>510</u>
Trichlorofluoromethane	<u>---</u>	Bromoform	<u>&lt;1</u>
1,1-Dichloroethene	<u>---</u>	1,1,2,2-Tetrachloroethane	<u>---</u>
1,1-Dichloroethane	<u>---</u>	Tetrachloroethene	<u>---</u>
trans-1,2-Dichloroethane	<u>---</u>	Chlorobenzene	<u>---</u>
Chloroform	<u>---</u>	Total Trihalomethanes	<u>---</u>
1,2-Dichloroethane	<u>---</u>	Other Purgeable Organics: <u>N.D.</u>	<u>---</u>
1,1,1-Trichloroethane	<u>---</u>	Benzene	<u>&lt;1</u>
Carbon Tetrachloride	<u>---</u>	Toluene	<u>---</u>
Bromodichloromethane	<u>---</u>	Ethylbenzene	<u>---</u>
1,2-Dichloropropane	<u>---</u>	Total Xylenes	<u>52</u>
		Total Purgeable Hydrocarbons	<u>---</u>
		Tetrahydrofuran	<u>---</u>
		(2-Butanone MEK)	<u>---</u>
		Methylisobutylketone (MIBK)	<u>---</u>
		Acrolein	<u>---</u>
		Acrylonitrile	<u>---</u>
		Carbon Disulfide	<u>---</u>
		Vinyl Acetate	<u>---</u>
		Acetone	<u>---</u>
		2-Hexanone	<u>---</u>
		Styrene	<u>---</u>

ARI02554



STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mehsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M.D.S-3 COLLECTOR Bellini Ranone County

SOURCE OF SAMPLE Keystone  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well \_\_\_\_\_ Stream  Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 14 HCl

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 6/88  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Bellini 9/27/88 To: \_\_\_\_\_  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: Copy sent to K. Nelson WMT only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TRANS TYPE		COUNTY		PLANT NO			SAMPLING STATION		DATE COLLECTED				CARD NO.					
							53		092788									

20	21	22	23	24	25	26
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FIELD pH			FIELD RESID. CHLORINE: FREE		TOTAL	

Purgeable Halocarbons (EPA)	6011			Other Purgeables	
Chloromethane	<5	trans-1,3-Dichloropropene	<1	Benzene	<1
Bromomethane	<1	Trichloroethene	<1	Toluene	<1
Dichlorodifluoromethane	<1	Dibromochloromethane	<1	Ethylbenzene	<1
Vinyl chloride	<1	1,1,2-Trichloroethane	<1	Total Xylenes	<2
Chloroethane	<1	cis-1,3-Dichloropropene	<1	Total Purgeable Hydrocarbons	<2
Methylene chloride	<1	2-Chloroethylvinylene	<10	Tetrahydrofuran	N.D.
Trichlorofluoromethane	<1	Bromoform	<1	(2-Butanone MEK)	<1
1,1-Dichloroethene	<1	1,1,2,2-Tetrachloroethane	<1	Methylisobutylketone (MIBK)	<1
1,1-Dichloroethane	<1	Tetrachloroethene	<1	Acrolein	<1
trans-1,2-Dichloroethene	<1	Chlorobenzene	<1	Acrylonitrile	<1
Chloroform	<1	Total Trihalomethanes	<1	Carbon Disulfide	<1
1,2-Dichloroethane	<1	Other Purgeable Organics: N.D.	<1	Vinyl Acetate	<1
1,1,1-Trichloroethane	<1		<1	Acetone	<1
Carbon Tetrachloride	<1		<1	2-Hexanone	<1
Bromodichloromethane	<1		<1	Styrene	<1
1,2-Dichloropropane	<1		<1		<1



DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mehsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER 74-054

COLLECTOR Bellum

Carver  
County

SOURCE OF SAMPLE Keystone

(Include Address)

SAMPLE TYPE: Community  Noncommunity  Domestic  STP Station

Observation Well  Stream  Tidal Waters  Industrial Effluent

Other (Specify)

Preservative Used MSH

IMPORTANT: First time sampled

Last known sampling date 6/88

Reason for submitting sample: Survey  Suspected Petroleum Contamination

Suspected Industrial Chemical Contamination  Other (Specify)

CHAIN OF CUSTODY: From:

To:

From:

To:

REMARKS: Copy sent to K. Nelson wmt only!

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
TRANS TYPE		COUNTY		PLANT NO.			SAMPLE STATION		DATE COLLECTED				CARD NO.					
20		21		22		23		24		25		26						
FIELD pH				FIELD RESID. CHLORINE: FREE				TOTAL										

Purgeable Halocarbons (EPA) 601

Other Purgeables

Chloromethane	<u>SL</u>	trans-1,3-Dichloropropene	<u>KL</u>	Benzene	<u>KL</u>
Bromomethane	<u>KL</u>	Trichloroethene	<u>KL</u>	Toluene	<u>KL</u>
Dichlorodifluoromethane	<u>KL</u>	Dibromochloromethane	<u>KL</u>	Ethylbenzene	<u>KL</u>
Vinyl chloride	<u>KL</u>	1,1,2-Trichloroethane	<u>KL</u>	Total Xylenes	<u>KL</u>
Chloroethane	<u>KL</u>	cis-1,3-Dichloropropene	<u>KL</u>	Total Purgeable Hydrocarbons	<u>KL</u>
Methylene chloride	<u>KL</u>	2-Chloroethoxyethane	<u>KL</u>	Tetrahydrofuran	<u>N/D</u>
Trichlorofluoromethane	<u>KL</u>	Bromoform	<u>KL</u>	(2-Butanone MEK)	<u>KL</u>
1,1-Dichloroethene	<u>KL</u>	1,1,2,2-Tetrachloroethene	<u>KL</u>	Methylisobutylketone (MIBK)	<u>KL</u>
1,1-Dichloroethane	<u>KL</u>	Tetrachloroethane	<u>KL</u>	Acrolein	<u>KL</u>
trans-1,2-Dichloroethene	<u>KL</u>	Chlorobenzene	<u>KL</u>	Acrylonitrile	<u>KL</u>
Chloroform	<u>KL</u>	Total Trihalomethanes	<u>KL</u>	Carbon Disulfide	<u>KL</u>
1,2-Dichloroethane	<u>KL</u>	Other Purgeable Organics: <u>N/D</u>	<u>KL</u>	Vinyl Acetate	<u>KL</u>
1,1,1-Trichloroethane	<u>KL</u>		<u>KL</u>	Acetone	<u>5.5</u>
Carbon Tetrachloride	<u>KL</u>		<u>KL</u>	2-Hexanone	<u>N/D</u>
Bromodichloromethane	<u>KL</u>		<u>KL</u>	Styrene	<u>N/D</u>
1,2-Dichloropropane	<u>KL</u>		<u>KL</u>		

SEP 27 1988

SEP 20 1988

AR102856

891345

Results reported in micrograms per liter (parts per million/billion)

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mehsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER MD-55 COLLECTOR Bellum Quince County

SOURCE OF SAMPLE Keyston  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well \_\_\_\_\_ Stream  Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_

Preservative Used 1M HCl

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 6/85  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Bellum 9/27/88 To: \_\_\_\_\_  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: Copy sent to K. Nelson W. M. H. Only!

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
							3	5			0	9	2	7	8	8		
TRANS TYPE			PLANT NO.				SAMPLING STATION				DATE COLLECTED					CARD NO.		

20	21	22	23	24	25	26
FIELD pH			FIELD RESID. CHLORINE: FREE		TOTAL	

Purgeable Halocarbons (EPA) 601

Chloromethane	<5
Bromomethane	<5
Dichlorodifluoromethane	
Vinyl chloride	
Chloroethane	
Methylene chloride	
Trichlorofluoromethane	
1,1-Dichloroethane	
1,1-Dichloroethane	
trans-1,2-Dichloroethane	
Chloroform	<5
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon Tetrachloride	
Bromodichloromethane	
1,2-Dichloropropane	

trans-1,3-Dichloropropene	<5
Trichloroethane	
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethylvinylether	<5
Bromoform	<5
1,1,2,2-Tetrachloroethane	
Tetrachloroethane	
Chlorobenzene	
Total Trihalomethanes	
Other Purgeable Organics:	N.D.

Other Purgeables

Benzene	<5
Toluene	<5
Ethylbenzene	<5
Total Xylenes	<5
Total Purgeable Hydrocarbons	N.D.
Tetrahydrofuran	
(2-Butanone MEK)	
Methylisobutylketone (MIBK)	
Acrolein	
Acrylonitrile	
Carbon Disulfide	
Vinyl Acetate	<5
Acetone	<5
2-Hexanone	N.D.
Styrene	N.D.

STATE OF MARYLAND  
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
 Laboratories Administration  
 201 W. Preston Street  
 J. Mehsen Joseph, Ph.D., Director

**TRACE ORGANICS LABORATORY  
 VOLATILE ORGANICS ANALYSIS**

BOTTLE NUMBER M 56 COLLECTOR Beecham Carver County

SOURCE OF SAMPLE Keystone  
 (Include Address)

SAMPLE TYPE: Community  Noncommunity  Domestic  STP Station   
 Observation Well  Stream  Tidal Waters  Industrial Effluent

Other (Specify) \_\_\_\_\_  
 Preservative Used 1M HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 6/84

Reason for submitting sample: Survey  Suspected Petroleum Contamination   
 Suspected Industrial Chemical Contamination  Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Beecham 9/6/88 To: \_\_\_\_\_

REMARKS: Sample sent to E. Nelson W.M.H. only

1 TRANS TYPE	2 COUNTY	3 PLANT NO.	4 SAMPLING STATION	5 DATE COLLECTED	6 CARD NO.
0	0	0	36	09 27 88	0
7 FIELD NO.	8 FIELD RESID. CHLORINE: FREE	9 TOTAL			
0	0	0			

Purgeable Halocarbons (EPA 601)		Other Purgeables	
Chloromethane	55	Benzene	51
Bromomethane	51	Toluene	51
Dichlorodifluoromethane	---	Ethylbenzene	51
Vinyl chloride	---	Total Xylenes	52
Chloroethane	---	Total Purgeable Hydrocarbons	---
Methylene chloride	---	Tetrahydrofuran	---
Trichlorofluoromethane	---	(2-Butanone MEK)	---
1,1-Dichloroethane	---	Methylisobutylketone (MIBK)	---
1,1-Dichloroethane	---	Acrolein	---
trans-1,2-Dichloroethane	---	Acrylonitrile	---
Chloroform	51	Carbon Disulfide	---
1,2-Dichloroethane	---	Vinyl Acetate	---
1,1,1-Trichloroethane	---	Acetone	---
Carbon Tetrachloride	---	2-Hexanone	---
Bromodichloromethane	---	Styrene	---
1,2-Dichloropropane	51		

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mahsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M.D. R-1A (new) COLLECTOR Bellum Rowell County

SOURCE OF SAMPLE C. Matthias 601 Matthias Rd  
(Include Address) Kepler

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic  STP Station \_\_\_\_\_  
Observation Well \_\_\_\_\_ Stream \_\_\_\_\_ Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 1% HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 6/88

Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Bellum 9/20/88 To: \_\_\_\_\_  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: Copies to Ronald Nelson Only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
										<u>R-1A</u>				<u>092988</u>				
TRANS TYPE		COUNTY		PLANT NO.			SAMPLING STATION				DATE COLLECTED					CARD NO.		
20	21	22	FIELD RESID. CHLORINE: FREE				23	24	TOTAL		25	26						
FIELD BH																		

Purgeable Halocarbons (EPA <u>601</u> )		trans-1,3-Dichloropropene		Other Purgeables	
Chloromethane	<u>&lt;5</u>	Trichloroethene	<u>&lt;1</u>	Benzene	<u>&lt;1</u>
Bromomethane	<u>&lt;1</u>	Dibromochloromethane	<u> </u>	Toluene	<u> </u>
Dichlorodifluoromethane	<u> </u>	1,1,2-Trichloroethane	<u> </u>	Ethylbenzene	<u> </u>
Vinyl chloride	<u> </u>	cis-1,3-Dichloropropene	<u> </u>	Total Xylenes	<u>&lt;2</u>
Chloroethane	<u> </u>	2-Chloroethyvinylether	<u>&lt;10</u>	Total Purgeable Hydrocarbons	<u>N/D</u>
Methylene chloride	<u> </u>	Bromoform	<u>&lt;1</u>	Tetrahydrofuran	<u> </u>
Trichlorofluoromethane	<u> </u>	1,1,2,2-Tetrachloroethene	<u> </u>	(2-Butanone MEK)	<u> </u>
1,1-Dichloroethene	<u> </u>	Tetrachloroethene	<u> </u>	Methylisobutylketone (MIBK)	<u> </u>
1,1-Dichloroethane	<u> </u>	Chlorobenzene	<u> </u>	Acrolein	<u> </u>
trans-1,2-Dichloroethene	<u> </u>	Total Trihalomethanes	<u> </u>	Acrylonitrile	<u> </u>
Chloroform	<u> </u>	Other Purgeable Organics: <u>N/D</u>		Carbon Disulfide	<u> </u>
1,2-Dichloroethane	<u> </u>			Vinyl Acetate	<u> </u>
1,1,1-Trichloroethane	<u> </u>			Acetone	<u> </u>
Carbon Tetrachloride	<u> </u>			2-Hexanone	<u> </u>
Bromodichloromethane	<u> </u>			Styrene	<u> </u>
1,2-Dichloropropane	<u> </u>				

AR102859

SEP 29 1988

891359

**STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE**

Laboratories Administration  
201 W. Preston Street  
J. Mehsen Joseph, Ph.D., Director

**TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS**

BOTTLE NUMBER M.D.R-2

COLLECTOR Bellum Sanuel  
County

SOURCE OF SAMPLE Keystone 1276 H. Schoolhouse Rd  
(Include Address) Keystone

SAMPLE TYPE: Community  Noncommunity  Domestic  STP Station   
Observation Well  Stream  Tidal Waters  Industrial Effluent

Other (Specify) \_\_\_\_\_  
Preservative Used 1M Ice

IMPORTANT: First time sampled  Last known sampling date 6/86  
Reason for submitting sample: Survey  Suspected Petroleum Contamination   
Suspected Industrial Chemical Contamination  Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From: Bellum 9/28/88 To: \_\_\_\_\_  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: Copies to Ronald Nelson Only

1			2			3			4			5			6			7			8			9			10			11			12			13			14			15			16			17			18			19		
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TRANS			COUNTY			PLANT NO.			R-2			DATE COLLECTED			6/88			CSPD NO.																																						
20			21			22			23			24			25			26																																						

FIELD RESID. CHLORINE: FREE  TOTAL

Purgeable Halocarbons (EPA)	FIELD RESID. CHLORINE: FREE	TOTAL	Other Purgeables
Chloromethane	<5	<1	Benzene
Bromomethane	<1	<1	Toluene
Dichlorodifluoromethane	<1	<1	Ethylbenzene
Vinyl chloride	<1	<1	Total Xylenes
Chloroethane	<1	<1	Total Purgeable Hydrocarbons
Methylene chloride	<1	<1	Tetrahydrofuran
Trichlorofluoromethane	<1	<1	(2-Butanone MEK)
1,1-Dichloroethane	<1	<1	Methylisobutylketone (MIBK)
1,1-Dichloroethane	<1	<1	Acrolein
trans-1,2-Dichloroethane	<1	<1	Acrylonitrile
Chloroform	<1	<1	Carbon Disulfide
1,2-Dichloroethane	<1	<1	Vinyl Acetate
1,1,1-Trichloroethane	<1	<1	Acetone
Carbon Tetrachloride	<1	<1	2-Hexanone
Bromodichloromethane	<1	<1	Styrene
1,2-Dichloropropane	<1	<1	





STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mehsen Joseph, Ph.D., Director

**TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS**

BOTTLE NUMBER M.D. R. 4 COLLECTOR Bellini Carroll County

SOURCE OF SAMPLE Keystone  
(Include Address) D. David - 1144 H. Schoolhouse Rd

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic  STP Station \_\_\_\_\_  
Observation Well \_\_\_\_\_ Stream \_\_\_\_\_ Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 1+1 HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 4-88  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Beech 9/29/87 To: \_\_\_\_\_  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: 7 Copies to Ronald Nelson Only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TRANS TYPE			COUNTY			PLANT NO.			SAMPLING STATION			DATE COLLECTED					CARD NO.		

  

FIELD pH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FIELD RESID. CHLORINE: FREE	<input type="checkbox"/>	<input type="checkbox"/>	TOTAL	<input type="checkbox"/>	<input type="checkbox"/>
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Purgeable Halocarbons (EPA <u>601</u> )		Other Purgeables	
Chloromethane	<u>&lt;5</u>	trans-1,3-Dichloropropene	<u>&lt;1</u>
Bromomethane	<u>&lt;1</u>	Trichloroethene	<u>N/D</u>
Dichlorodifluoromethane	<u>N/D</u>	Dibromochloromethane	<u>N/D</u>
Vinyl chloride	<u>N/D</u>	1,1,2-Trichloroethane	<u>N/D</u>
Chloroethane	<u>N/D</u>	cis-1,3-Dichloropropene	<u>N/D</u>
Methylene chloride	<u>N/D</u>	2-Chloroethylvinylether	<u>N/D</u>
Trichlorofluoromethane	<u>N/D</u>	Bromoform	<u>N/D</u>
1,1-Dichloroethene	<u>N/D</u>	1,1,2,2-Tetrachloroethene	<u>N/D</u>
1,1-Dichloroethane	<u>N/D</u>	Tetrachloroethane	<u>N/D</u>
trans-1,2-Dichloroethene	<u>N/D</u>	Chlorobenzene	<u>N/D</u>
Chloroform	<u>N/D</u>	Total Trihalomethanes	<u>N/D</u>
1,2-Dichloroethane	<u>N/D</u>	Other Purgeable Organics:	<u>N/D</u>
1,1,1-Trichloroethane	<u>N/D</u>		
Carbon Tetrachloride	<u>N/D</u>		
Bromodichloromethane	<u>N/D</u>		
1,2-Dichloropropane	<u>N/D</u>		

AR 02862  
891362

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston Street  
J. Mahsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M.D.R.5 COLLECTOR Bellevue Rosewell  
County

SOURCE OF SAMPLE Keystone  
(Include Address) V. Conway 5149 Brenwick Rd.

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic  STP Station \_\_\_\_\_

Observation Well \_\_\_\_\_ Stream \_\_\_\_\_ Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_

Other (Specify) \_\_\_\_\_

Preservative Used 141 HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 6/89

Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_

Suspected Industrial/Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Bellevue 7/25/88 To: \_\_\_\_\_

From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: \_\_\_\_\_

\*Copies to Ronald Nelson Only

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TRANS TYPE	COUNTY		PLANT NO.			SAMPLING STATION				DATE COLLECTED					CARD NO.				

FIELD PH

FIELD RESID. CHLORINE: FREE

TOTAL

Purgeable Halocarbons (EPA) 6011 Other Purgeables

Chloromethane	<u>&lt;5</u>	trans-1,3-Dichloropropene	<u>&lt;1</u>	Benzene	<u>&lt;1</u>
Bromomethane	<u>&lt;1</u>	Trichloroethane	<u>—</u>	Toluene	<u>—</u>
Dichlorodifluoromethane	<u>—</u>	Dibromochloromethane	<u>—</u>	Ethylbenzene	<u>—</u>
Vinyl chloride	<u>—</u>	1,1,2-Trichloroethane	<u>—</u>	Total Xylenes	<u>&lt;2</u>
Chloroethane	<u>—</u>	cis-1,3-Dichloropropene	<u>&lt;10</u>	Total Purgeable Hydrocarbons	<u>N.D.</u>
Methylene chloride	<u>—</u>	2-Chloroethylvinylether	<u>&lt;1</u>	Tetrahydrofuran	<u>—</u>
Trichlorofluoromethane	<u>—</u>	Bromoform	<u>&lt;1</u>	(2-Butanone MEK)	<u>—</u>
1,1-Dichloroethane	<u>—</u>	1,1,2,2-Tetrachloroethane	<u>—</u>	Methylisobutylketone (MIBK)	<u>—</u>
1,1-Dichloroethane	<u>—</u>	Tetrachloroethene	<u>—</u>	Acrolein	<u>—</u>
trans-1,2-Dichloroethene	<u>—</u>	Chlorobenzene	<u>—</u>	Acrylonitrile	<u>—</u>
Chloroform	<u>—</u>	Total Trihalomethanes	<u>—</u>	Carbon Disulfide	<u>—</u>
1,2-Dichloroethane	<u>—</u>	Other Purgeable Organics: <u>N.D.</u>	<u>—</u>	Vinyl Acetate	<u>—</u>
1,1,1-Trichloroethane	<u>—</u>		<u>—</u>	Acetone	<u>—</u>
Carbon Tetrachloride	<u>—</u>		<u>—</u>	2-Hexanone	<u>—</u>
Bromodichloromethane	<u>—</u>		<u>—</u>	Styrene	<u>—</u>
1,2-Dichloropropane	<u>—</u>		<u>—</u>		<u>—</u>

AR102853

891363



STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mehan Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M. D. R 6 COLLECTOR B. Bellum Crown County

SOURCE OF SAMPLE Kayston  
(Include Address) R. Huff - 1226 N. Schoolhouse Rd.

SAMPLE TYPE: Community  Noncommunity  Domestic  STP Station   
Observation Well  Stream  Tidal Waters  Industrial Effluent   
Other (Specify)   
Preservative Used 1% HCL

IMPORTANT: First time sampled  Last known sampling date 6/88  
Reason for submitting sample: Survey  Suspected Petroleum Contamination   
Suspected Industrial Chemical Contamination  Other (Specify)

CHAIN OF CUSTODY: From Bellum 9/29/88 To: \_\_\_\_\_  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: Copies to Donald Nelson only

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TRANS TYPE		COUNTY		PLANT NO.				SAMPLING STATION			DATE COLLECTED				CARD NO.			

FIELD pH    FIELD RESID. CHLORINE: FREE   TOTAL

Purgeable Halocarbons (EPA 601)

Other Purgeables

Chloromethane	<u>&lt;5</u>	trans-1,3-Dichloropropene	<u>&lt;1</u>	Benzene	<u>&lt;1</u>
Bromomethane	<u>&lt;1</u>	Trichloroethene	<u> </u>	Toluene	<u> </u>
Dichlorodifluoromethane	<u> </u>	Dibromochloromethane	<u> </u>	Ethylbenzene	<u> </u>
Vinyl chloride	<u> </u>	1,1,2-Trichloroethane	<u> </u>	Total Xylenes	<u>&lt;2</u>
Chloroethane	<u> </u>	cis-1,3-Dichloropropene	<u> </u>	Total Purgeable Hydrocarbons	<u>N/D</u>
Methylene chloride	<u> </u>	2-Chloroethylvinylether	<u>&lt;10</u>	Tetrahydrofuran	<u>N/D</u>
Trichlorofluoromethane	<u> </u>	Bromoform	<u>&lt;1</u>	(2-Butanone MEK)	<u> </u>
1,1-Dichloroethane	<u> </u>	1,1,2,2-Tetrachloroethene	<u> </u>	Methylisobutylketone (MIBK)	<u> </u>
1,1-Dichloroethane	<u> </u>	Tetrachloroethene	<u> </u>	Acrolein	<u> </u>
trans-1,2-Dichloroethene	<u> </u>	Chlorobenzene	<u> </u>	Acrylonitrile	<u> </u>
Chloroform	<u> </u>	Total Trihalomethanes	<u> </u>	Carbon Disulfide	<u> </u>
1,2-Dichloroethane	<u> </u>	Other Purgeable Organics:	<u>N/D</u>	Vinyl Acetate	<u> </u>
1,1,1-Trichloroethane	<u> </u>			Acetone	<u> </u>
Carbon Tetrachloride	<u> </u>			2-Hexanone	<u> </u>
Bromodichloromethane	<u> </u>			Styrene	<u> </u>
1,2-Dichloropropane	<u> </u>				

AR102864

**STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE**

LABORATORIES ADMINISTRATION  
TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER RL-100 CARROLL  
Name of County

SOURCE OF SAMPLE Powers 941 Humbert Schulhouse Rd. West Md. 21157 COLLECTOR Lichtner

SAMPLE TYPE: \_\_\_\_\_ DISTRIBUTION \_\_\_\_\_ SOURCE  OTHER \_\_\_\_\_  
Community \_\_\_\_\_ noncommunity \_\_\_\_\_ private   
Landfill observation well \_\_\_\_\_ stream \_\_\_\_\_ tidal waters \_\_\_\_\_  
Industrial effluent \_\_\_\_\_ SIP sampling station \_\_\_\_\_ SIP effluent \_\_\_\_\_  
Chlorinated \_\_\_\_\_ preserved with thiosulfate \_\_\_\_\_  
Reason for submitting sample: Trihalomethane Survey \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_  
Suspected Petroleum (gasoline, etc.) Contamination \_\_\_\_\_  
Other (specify) \_\_\_\_\_

REMARKS: Keystone Landfill Survey / PLEASE Run Full SCAN  
OUTSIDE TAP

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19  
                    
 TRANS COUNTY PLANT NO. STATION DATE COLLECTED FAN NO.

FIELD BIT 20 21 22 FIELD RESID. CHLORINE: FREE 23 24 TOTAL 25 26

**Purgeable Halocarbons (EPA 601)**

Chloromethane <5  
 Bromomethane <1  
 Dichlorodifluoromethane \_\_\_\_\_  
 Vinyl chloride \_\_\_\_\_  
 Chloroethane \_\_\_\_\_  
 Methylene chloride \_\_\_\_\_  
 Trichlorofluoromethane \_\_\_\_\_  
 1,1-Dichloroethene \_\_\_\_\_  
 1,1-Dichloroethane \_\_\_\_\_  
 trans-1,2-Dichloroethene \_\_\_\_\_  
 Chloroform \_\_\_\_\_  
 1,2-Dichloroethane \_\_\_\_\_  
 1,1,1-Trichloroethane \_\_\_\_\_  
 Carbon Tetrachloride \_\_\_\_\_  
 Bromodichloromethane ✓

1,2-Dichloropropane <1  
 trans-1,3-Dichloropropene \_\_\_\_\_  
 Trichloroethene \_\_\_\_\_  
 Dibromochloromethane \_\_\_\_\_  
 1,1,2-Trichloroethane \_\_\_\_\_  
 cis-1,3-Dichloropropene <1  
 2-Chloroethylvinylether <10  
 Bromoform <1  
 1,1,2,2-Tetrachloroethane <1  
 Tetrachloroethene \_\_\_\_\_  
 Chlorobenzene <1  
 Total Trihalomethanes \_\_\_\_\_

Other Purgeable Organics: N.P.

**Purgeable Aromatics (EPA 602)**

Benzene <1  
 Toluene ↓  
 Ethylbenzene ↓  
 Total Xylenes <2  
 Total Purgeable Hydrocarbons \_\_\_\_\_  
 Tetrahydrofuran N.P.  
 Methyl ethyl ketone \_\_\_\_\_  
 1,2-Butanone (MEK) \_\_\_\_\_  
 Methylisobutylketone (MIBK) ↓

ARJ02865 891355

G. Turner

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION  
TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER RL-103  
RHODA BEHTEL

CARROLL  
Name of County

SOURCE OF SAMPLE 1128 Humbert Shallow Rd. West Md. 21157 COLLECTION Lichtfuss

SAMPLE TYPE: \_\_\_\_\_ DISTRIBUTION \_\_\_\_\_ SOURCE  private  community

Community \_\_\_\_\_ noncommunity \_\_\_\_\_ private

Landfill observation well \_\_\_\_\_ stream \_\_\_\_\_ tidal waters \_\_\_\_\_

Industrial effluent \_\_\_\_\_ STP sampling station \_\_\_\_\_ STP effluent \_\_\_\_\_

Chlorinated \_\_\_\_\_ preserved with thiosulfate \_\_\_\_\_

Reason for submitting sample: Trichloromethane Survey \_\_\_\_\_

Suspected Industrial Chemical Contamination \_\_\_\_\_

Suspected Petroleum (gasoline, etc.) Contamination \_\_\_\_\_

Other (specify) \_\_\_\_\_

REMARKS: KEYSTONE ~~PROPERTY~~ LANDFILL SURVEY / PLEASE Run Full SCAN  
Kitchen Sink

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	0	6									0	9	2	7	8	8		
TRAVIS TYPE	COUNTY	PLANT NO	STATION			DATE COLLECTED						FARM NO						

FIELD NO: 60 FIELD RESID. CHLORINE: FREE 00 TOTAL 00

Purgeable Halocarbons (EPA 601)			Purgeable Aromatics (EPA 602)		
Chloromethane	<5	1,2-Dichloropropane	<1	Benzene	<1
Bromomethane	<1	trans-1,3-Dichloropropene	<1	Toluene	↓
Dichlorodifluoromethane	—	Trichloroethene	—	Ethylbenzene	↓
Vinyl chloride	—	Dibromochloromethane	—	Total Xylenes	<2
Chloroethane	—	1,1,2-Trichloroethane	—	Total Purgeable Hydrocarbons	—
Methylene chloride	—	cis-1,3-Dichloropropene	—	Tetrahydrofuran	N.D.
Trichlorofluoromethane	—	2-Chloroethylvinylether	<10	Methylethylketone	—
1,1-Dichloroethene	—	Bromoform	<1	12-Butanone (MEK)	—
1,1-Dichloroethane	—	1,1,2,2-Tetrachloroethane	—	Methylisobutylketone (MIBK)	↓
trans-1,2-Dichloroethene	—	Tetrachloroethene	—		
Chloroform	—	Chlorobenzene	↓		
1,2-Dichloroethane	—	Total Trichloromethanes	—		
1,1,1-Trichloroethane	—	Other Purgeable Organics:	N.D.		
Carbon Tetrachloride	—				
Bromodichloromethane	↓				

AR-102866  
A. Cormier 891354

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION  
TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER RL-108

CARROLL  
Name of County

SOURCE OF SAMPLE John BECHTEL 1180 Humbert Schellhouse Rd WEST, Lichfess  
21157

SAMPLE TYPE: \_\_\_\_\_ DISTRIBUTION \_\_\_\_\_ SOURCE ✓ OTHER \_\_\_\_\_  
Community \_\_\_\_\_ noncommunity \_\_\_\_\_ private \_\_\_\_\_ Hospital \_\_\_\_\_

Landfill observation well \_\_\_\_\_ stream \_\_\_\_\_ tidal waters \_\_\_\_\_

Industrial effluent \_\_\_\_\_ SIP sampling station \_\_\_\_\_ SIP effluent \_\_\_\_\_

Chlorinated \_\_\_\_\_ preserved with thiosulfate \_\_\_\_\_

Reason for submitting sample: Trihalomethane Survey \_\_\_\_\_

Suspected Industrial Chemical Contamination \_\_\_\_\_

Suspected Petroleum (gasoline, etc.) Contamination \_\_\_\_\_

Other (specify) \_\_\_\_\_

REMARKS: OUTSIDE TAP  
KEYSTONE LANDFILL SURVEY - PLEASE Run Full SCAN

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19  
[ ] [0] [6] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [0] [9] [2] [7] [8] [8] [ ] [ ]  
TRANS COUNTY PLANT NO SAMPLING STATION DATE COLLECTED FARD NO

FIELD NO. 60 FIELD RESID. CHLORINE: FREE 00 TOTAL 00

Purgeable Halocarbons (EPA 601)

Chloromethane <5  
Bromomethane <1  
Dichlorodifluoromethane \_\_\_\_\_  
Vinyl chloride \_\_\_\_\_  
Chloroethane \_\_\_\_\_  
Methylene chloride \_\_\_\_\_  
Trichlorofluoromethane \_\_\_\_\_  
1,1-Dichloroethene \_\_\_\_\_  
1,1-Dichloroethane \_\_\_\_\_  
trans-1,2-Dichloroethene \_\_\_\_\_  
Chloroform \_\_\_\_\_  
1,2-Dichloroethane ✓  
1,1,1-Trichloroethane 4  
Carbon Tetrachloride <1  
Bromodichloromethane <1

trans 1,3 Dichloropropene <1  
Trichloroethene \_\_\_\_\_  
Dibromochloromethane \_\_\_\_\_  
1,1,2-Trichloroethane \_\_\_\_\_  
cis-1,3-Dichloropropene ✓  
2-Chloroethylvinylether <10  
Bromoform <1  
1,1,2,2-Tetrachloroethane <1  
Tetrachloroethene 1  
Chlorobenzene <1  
Total Trihalomethanes \_\_\_\_\_  
Other Purgeable Organics: N.D.

Purgeable Aromatics (EPA 602)

Benzene <1  
Toluene 1  
Ethylbenzene ✓  
Total Xylenes <2  
Total Purgeable Hydrocarbons \_\_\_\_\_  
Tetrahydrofuran Nik  
Methylethylketone \_\_\_\_\_  
1,2-Butanone (MEK) \_\_\_\_\_  
Methylisobutylketone (MIBK) ✓

AR102867

891353

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION  
TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

NOTICE NUMBER RL-111  
Burke

Carroll  
Name of County

SOURCE OF SAMPLE 1210 Humbert Schultze Rd. West COLLECTION Lichtiss  
21157

SAMPLE TYPE: \_\_\_\_\_ DISTRIBUTION 21157 SOURCE:  Community  noncommunity  private  special  
Landfill observation well \_\_\_\_\_ stream \_\_\_\_\_ tidal waters \_\_\_\_\_  
Industrial effluent \_\_\_\_\_ SIP sampling station \_\_\_\_\_ SIP effluent \_\_\_\_\_  
Chlorinated \_\_\_\_\_ preserved with thiosulfate \_\_\_\_\_  
Reason for submitting sample: Trichloromethane Survey \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_  
Suspected Petroleum (gasoline, etc.) Contamination \_\_\_\_\_  
Other (specify) \_\_\_\_\_

REMARKS: KEYSTONE LANDFILL SURVEY / PLEASE Run Full Scan  
(Bathroom)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		06									09	27	85					
TRANS TYPE	COUNTY	PLANT NO	STATION	DATE COLLECTED	FARM NO	FIELD NO	FIELD RESID. CHLORIDE: FREE	TOTAL										
						06	00	00										

Purgeable Halocarbons (EPA 601)		Purgeable Aromatics (EPA 602)	
Chloromethane	<5	trans 1,3 Dichloropropene	<1
Bromomethane	<1	Trichloroethene	↓
Dichlorodifluoromethane	↓	Dibromochloromethane	↓
Vinyl chloride	↓	1,1,2 Trichloroethane	↓
Chloroethane	↓	cis-1,3 Dichloropropene	↓
Methylene chloride	1	2-Chloroethylvinylether	<10
Trichlorofluoromethane	<1	Bromoform	<1
1,1-Dichloroethene	↓	1,1,2,2-Tetrachloroethane	↓
1,1-Dichloroethane	↓	Tetrachloroethene	↓
trans-1,2-Dichloroethene	↓	Chlorobenzene	↓
Chloroform	↓	Total Trichloromethanes	↓
1,2-Dichloroethane	↓	Other Purgeable Organics:	N.P.
1,1,1-Trichloroethane	↓		
Carbon Tetrachloride	↓		
Bromodichloromethane	↓		

ARI-02868  
891302

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION  
TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER RL-112

CARROLL  
Name of County

SOURCE OF SAMPLE HARMAN 1211 Humbert Scholms Rd.

COLLECTION Lichtner

SAMPLE TYPE: \_\_\_\_\_ DISTRIBUTION \_\_\_\_\_ SOURCE ✓ \_\_\_\_\_  
 Community \_\_\_\_\_ noncommunity \_\_\_\_\_ private \_\_\_\_\_  
 Landfill observation well \_\_\_\_\_ stream \_\_\_\_\_ tidal waters \_\_\_\_\_  
 Industrial effluent \_\_\_\_\_ STP sampling station \_\_\_\_\_ STP effluent \_\_\_\_\_  
 Chlorinated \_\_\_\_\_ preserved with thiosulfate \_\_\_\_\_  
 Reason for submitting sample: Trihalomethane Survey \_\_\_\_\_  
 Suspected Industrial Chemical Contamination \_\_\_\_\_  
 Suspected Petroleum (gasoline, etc.) Contamination \_\_\_\_\_  
 Other (specify) \_\_\_\_\_

REMARKS: OUTSIDE TAP  
KEYSTONE LANDFILL SURVEY - PLEASE RUN FULL SCAN

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19  
                    
 TRANS COUNTY PLANT NO. TAPPING STATION DATE COLLECTED FARM NO.

FIELD DT 20 21 22 FIELD RESID. CHLORINE: FREE 23 24 TOTAL 25 26

Purgeable Halocarbons (EPA 601)

Chloromethane <5  
 Bromomethane <1  
 Dichlorodifluoromethane  
 Vinyl chloride  
 Chloroethane  
 Methylene chloride  
 Trichlorofluoromethane  
 1,1-Dichloroethene  
 1,1-Dichloroethane  
 trans-1,2-Dichloroethene  
 Chloroform  
 1,2-Dichloroethane  
 1,1,1-Trichloroethane  
 Carbon Tetrachloride  
 Bromodichloromethane

trans 1,3-Dichloropropene <1  
 Trichloroethene  
 Dibromochloromethane  
 1,1,2-Trichloroethane  
 cis-1,3-Dichloropropene  
 2-Chloroethylvinylether <10  
 Bromoform <1  
 1,1,2,2-Tetrachloroethane  
 Tetrachloroethene  
 Chlorobenzene  
 Total Trihalomethanes  
 Other Purgeable Organics: N.D.

Purgeable Aromatics (EPA 602)

Benzene <1  
 Toluene  
 Ethylbenzene  
 Total Xylenes <2  
 Total Purgeable Hydrocarbons  
 Tetrahydrofuran  
 Methyl ethyl ketone  
 1,2-Butanone (MEK)  
 Methyl isobutyl ketone (MIBK)  
 \_\_\_\_\_  
 \_\_\_\_\_

ART 02869 891352

A Farmer

**STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE**

**LABORATORIES ADMINISTRATION  
THREE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS**

BOTTLE NUMBER

RL-94

Carroll  
Name of County

SOURCE OF SAMPLE

Barnes  
1205 Old Westminster Rd Westminster COLLECTION Lickhiser  
21157

SAMPLE TYPE:

DISTRIBUTION

SOURCE

OTHER

Community

noncommunity

private

Special

Landfill observation well

stream

tidal waters

Industrial effluent

STP sampling station

STP effluent

Chlorinated

preserved with thiosulfate

Reason for submitting sample:

Trihalomethane Survey

Suspected Industrial Chemical Contamination

Suspected Petroleum (gasoline, etc.) Contamination

Other (specify)

**RECEIVED**

AUG 20 1988

MDH&M  
ENFORCEMENT PROGRAM

REMARKS:

PLEASE Run Full SCR  
LANDFILL SURVEY

1 TRANS TYPE	2 3 COUNTY	4 5 6 7 PLANT NO	8 9 10 11 SAMPLING STATION	12 13 14 15 16 17 DATE COLLECTED	18 19 FACD NO
	06			080988	

FIELD PH	20 21 22	FIELD RESID. CHLORINE-FREE	23 24	TOTAL	25 26
	60		00		00

**Purgeable Halocarbons (EPA 801)**

**Purgeable Aromatics (EPA 821)**

Chloromethane	<5	trans 1,3 Dichloropropene	<1	Benzene	<1
Bromomethane	<1	Trichloroethene	1	Toluene	1
Dichlorodifluoromethane	—	Dibromochloromethane	<1	Ethylbenzene	1
Vinyl chloride	—	1,1,2 Trichloroethane	—	Total Xylenes	2
Chloroethane	—	cis-1,3-Dichloropropene	<10	Total Purgeable Hydrocarbons	0.0
Methylene chloride	—	2-Chloroethylvinylether	<1	Tetrahydrofuran	—
Trichlorofluoromethane	—	Bromoform	<1	Methylethylketone	—
1,1-Dichloroethene	—	1,1,2,2-Tetrachloroethane	—	12 Butanone (MEK)	—
1,1-Dichloroethane	—	Tetrachloroethane	—	Methylisobutylketone (MIBK)	—
trans-1,2-Dichloroethene	—	Chlorobenzene	—		
Chloroform	—	Total Trihalomethanes	—		
1,2-Dichloroethane	<1	Other Purgeable Organics:	—		
1,1,1-Trichloroethane	—				
Carbon Tetrachloride	—				
Bromodichloromethane	—				
1,2-Dichloropropane	—				

RESULTS: 491 AR 102 trial 890539  
AUG 24 1988

*C.P.C.*

Lab No. \_\_\_\_\_

**WATER ANALYSIS**

Bottle Number: 101 Name: Keystone County: Carrow

Source of Sample: \_\_\_\_\_ Street: W. 101 Town or City: \_\_\_\_\_ Collector: Beeline

Sample Type (Circle): Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Sample sent to K. Johnson only W.M.R.

County: [ ] Plant No.: [ ] Sampling Station: 101 Date Collected: 09-29-88 Time: [ ] Acid:  Iced:

Field Data: pH: [ ] Chlorine Residual: [ ] Free: [ ] Total: [ ] Specific Conductance: [ ]

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	7.2	<input checked="" type="checkbox"/> Arsenic	01002	0.01
<input checked="" type="checkbox"/> Alkalinity (Total)	00410	115	<input checked="" type="checkbox"/> Barium	01007	0.1
pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	0.01
<input checked="" type="checkbox"/> Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	0.01
<input checked="" type="checkbox"/> Hardness	00900	115	<input checked="" type="checkbox"/> Lead	01051	0.01
<input checked="" type="checkbox"/> Ammonia-N	00608	0.0	<input checked="" type="checkbox"/> Mercury	71900	0.01
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630	0.0	<input checked="" type="checkbox"/> Selenium	01147	0.01
<input checked="" type="checkbox"/> Nitrite N	00615	0.0	<input type="checkbox"/> Silver	01077	
<input type="checkbox"/> MBAS	38260		<input type="checkbox"/> Aluminum	01105	
<input checked="" type="checkbox"/> Chloride	00940	100	<input checked="" type="checkbox"/> Calcium	00916	73.4
<input type="checkbox"/> Fluoride	00951		<input checked="" type="checkbox"/> Copper	01042	0.01
<input type="checkbox"/> Color*	00081		<input checked="" type="checkbox"/> Iron	01045	0.1
<input checked="" type="checkbox"/> Turbidity*	00076	0.1	<input checked="" type="checkbox"/> Magnesium	00927	1.1
<input type="checkbox"/> Conductance*, SPEC	00095		<input checked="" type="checkbox"/> Manganese	01055	0.01
<input checked="" type="checkbox"/> Sulfate	00945	11	<input type="checkbox"/> Nickel	01067	
<input type="checkbox"/> Total Solids	00500		<input checked="" type="checkbox"/> Potassium	00937	1.1
<input checked="" type="checkbox"/> Dissolved Solids	70300		<input checked="" type="checkbox"/> Sodium	00929	7.1
			<input checked="" type="checkbox"/> Zinc	01092	0.01

APR 10 287

\*Results reported in units, all others in milligrams per liter (ppm)

**NOV 28 1988**

Date Received: \_\_\_\_\_ Date Reported: \_\_\_\_\_ Chemist: \_\_\_\_\_



STATE OF MARYLAND  
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
 Laboratories Administration  
 201 W. Preston St.  
 P.O. Box 2355, Baltimore, Maryland 21203  
 J. Mehsen Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: 15 W 3 Name: Yancho County: Carroll

Source of Sample: \_\_\_\_\_ Street: \_\_\_\_\_ Town or City: W 222 Collector: Beelan

Sample Type (Circle): Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine   
 Remarks: Boys' sent to Nelson on Aug 11 1988

County:  Plant No.:  Sampling Station: 142 Date Collected: 0-7-88 Time:  Acid:  Iced:   
 Field Data: pH\*:  Chlorine Residual:  Free:  Total:  Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403		<input checked="" type="checkbox"/> Arsenic	01002	
<input checked="" type="checkbox"/> Alkalinity (Total)	00410		<input checked="" type="checkbox"/> Barium	01007	
<input type="checkbox"/> pH*, Ca CO, SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	
<input type="checkbox"/> Alkalinity, Ca CO, SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	
<input checked="" type="checkbox"/> Hardness	00900		<input checked="" type="checkbox"/> Lead	01051	
<input checked="" type="checkbox"/> Ammonia-N	00608		<input checked="" type="checkbox"/> Mercury	71900	
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630		<input checked="" type="checkbox"/> Selenium	01147	
<input checked="" type="checkbox"/> Nitrite N	00615		<input type="checkbox"/> Silver	01077	
<input type="checkbox"/> MBAS	38260		<input type="checkbox"/> Aluminum	01105	
<input checked="" type="checkbox"/> Chloride	00940		<input checked="" type="checkbox"/> Calcium	00916	
<input type="checkbox"/> Fluoride	00951		<input checked="" type="checkbox"/> Copper	01042	
<input type="checkbox"/> Color*	00081		<input checked="" type="checkbox"/> Iron	01045	
<input checked="" type="checkbox"/> Turbidity*	00076		<input checked="" type="checkbox"/> Magnesium	00927	
<input checked="" type="checkbox"/> Conductance*, SPEC	00095		<input checked="" type="checkbox"/> Manganese	01055	
<input type="checkbox"/> Sulfate	00945		<input type="checkbox"/> Nickel	01067	
<input type="checkbox"/> Total Solids	00500		<input checked="" type="checkbox"/> Potassium	00937	
<input checked="" type="checkbox"/> Dissolved Solids	70300		<input checked="" type="checkbox"/> Sodium	00929	
			<input checked="" type="checkbox"/> Zinc	01092	

\*Results reported in units, all others in milligrams per liter (ppm)  
 Date Received: \_\_\_\_\_ Date Reported: OCT 28 1988 Chemist: \_\_\_\_\_  
 AR102872



STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

**WATER ANALYSIS**

Bottle Number: 100-4 Name: Kousser County: Carroll

Source of Sample: \_\_\_\_\_ Street: \_\_\_\_\_ Town or City: Wes? Collector: Becker

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Supplied to K. Mehsen only WMA!

County:  Plant No.:  Sampling Station: 101 Date Collected: 092785 Time:  Acid:  Iced:

Field Data: pH:  Chlorine Residual:  Free:  Total:  Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403		<input checked="" type="checkbox"/> Arsenic	01002	
<input checked="" type="checkbox"/> Alkalinity (Total)	00410		<input checked="" type="checkbox"/> Barium	01007	
<input type="checkbox"/> pH*, Ca CO, SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	
<input type="checkbox"/> Alkalinity, Ca CO, SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	
<input checked="" type="checkbox"/> Hardness	00900		<input checked="" type="checkbox"/> Lead	01051	
<input checked="" type="checkbox"/> Ammonia-N	00608		<input checked="" type="checkbox"/> Mercury	71900	
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630		<input checked="" type="checkbox"/> Selenium	01147	
<input checked="" type="checkbox"/> Nitrite N	00615		<input type="checkbox"/> Silver	01077	
<input type="checkbox"/> MBAS	38260		<input type="checkbox"/> Aluminum	01105	
<input checked="" type="checkbox"/> Chloride	00940		<input checked="" type="checkbox"/> Calcium	00916	
<input type="checkbox"/> Fluoride	00951		<input checked="" type="checkbox"/> Copper	01042	
<input type="checkbox"/> Color*	00081		<input checked="" type="checkbox"/> Iron	01045	
<input checked="" type="checkbox"/> Turbidity*	00076		<input checked="" type="checkbox"/> Magnesium	00927	
<input checked="" type="checkbox"/> Conductance*, SPEC	00095		<input checked="" type="checkbox"/> Manganese	01055	
<input checked="" type="checkbox"/> Sulfate	00945		<input type="checkbox"/> Nickel	01067	
<input type="checkbox"/> Total Solids	00500		<input checked="" type="checkbox"/> Potassium	00937	
<input checked="" type="checkbox"/> Dissolved Solids	70300		<input checked="" type="checkbox"/> Sodium	00929	
			<input checked="" type="checkbox"/> Zinc	01092	
			<input checked="" type="checkbox"/> C.O.D.		

\*Results reported in units, all others in milligrams per liter (ppm)

AR102874

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

Lab No: \_\_\_\_\_

WATER ANALYSIS

Bottle Number: 115 W-5 Name: Youghiogheny County: Parson

Source of Sample: \_\_\_\_\_ Street: W 200 Town or City: \_\_\_\_\_ Collector: Belcher

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Copy sent to R Nelson only WMA

County:  Plant No.:  Sampling Station: 115 Date Collected: 092785 Time:  Acid:  Iced:

Field Data: pH\*:  Chlorine Residual:  Free:  Total:  Specific Conductance:

✓	ANALYSIS	CODE	RESULTS	✓	ANALYSIS	CODE	RESULTS
✓	pH*	00403	7.1	✓	Arsenic	01002	0.01
✓	Alkalinity (Total)	00410	1.2	✓	Barium	01007	0.01
	pH*, Ca CO <sub>3</sub> SAT.	70311		✓	Cadmium	01027	
	Alkalinity, Ca CO <sub>3</sub> SAT.	74023		✓	Chromium	01034	
✓	Hardness	00900	1.2	✓	Lead	01051	0.01
✓	Ammonia-N	00608	0.01	✓	Mercury	71900	0.01
✓	Nitrate-Nitrate N	00630	0.01	✓	Selenium	01147	0.01
✓	Nitrite N	00615	0.01		Silver	01077	
	MBAS	38260					
✓	Chloride	00940			Aluminum	01105	
	Fluoride	00951		✓	Calcium	00916	
	Color*	00081		✓	Copper	01042	
✓	Turbidity*	00076	0.1	✓	Iron	01045	
✓	Conductance*, SPEC	00095	3.2	✓	Magnesium	00927	
✓	Sulfate	00945	0.01	✓	Manganese	01055	
	Total Solids	00500			Nickel	01067	
✓	Dissolved Solids	70300	0.01	✓	Potassium	00937	
				✓	Sodium	00929	17
				✓	Zinc	01092	0.01
				✓	COD		

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: \_\_\_\_\_ Date Reported: OCT 28 1988 Chemist: AP102075

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston St.

P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehser Joseph, Ph.D., Director

Lab No.                     

*C.O.C.*

WATER ANALYSIS

Bottle Number: 20006 Name: Kensler County: Carroll

Source of Sample: Well Collector: Beelin  
Street:                      Town or City:                     

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Boys sent to K Nelson one, WMA

County:   Plant No.:       Sampling Station: W1 Date Collected: 1927-3 Time:     Acid:  Iced:

Field Data: pH:    Chlorine Residual:   Free:   Total:   Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	7.2	<input checked="" type="checkbox"/> Arsenic	01002	0.01
<input checked="" type="checkbox"/> Alkalinity (Total)	00410	120	<input checked="" type="checkbox"/> Barium	01007	0.1
pH*, Ca CO <sub>3</sub> , SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	0.01
Alkalinity, Ca CO <sub>3</sub> , SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	0.01
<input checked="" type="checkbox"/> Hardness	00900	120	<input checked="" type="checkbox"/> Lead	01051	0.04
<input checked="" type="checkbox"/> Ammonia-N	00608	0.1	<input checked="" type="checkbox"/> Mercury	71900	0.01
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630	1.0	<input checked="" type="checkbox"/> Selenium	01147	0.01
<input checked="" type="checkbox"/> Nitrite N	00615	0.1	Silver	01077	
MBAS	38260				
<input checked="" type="checkbox"/> Chloride	00940	100	Aluminum	01105	
Fluoride	00951		<input checked="" type="checkbox"/> Calcium	00916	100
Color*	00081	10	<input checked="" type="checkbox"/> Copper	01042	0.1
<input checked="" type="checkbox"/> Turbidity*	00076	1.0	<input checked="" type="checkbox"/> Iron	01045	0.1
<input checked="" type="checkbox"/> Conductance*, SPEC	00095	100	<input checked="" type="checkbox"/> Magnesium	00927	100
<input checked="" type="checkbox"/> Sulfate	00945	100	<input checked="" type="checkbox"/> Manganese	01055	0.1
Total Solids	00500		Nickel	01067	
<input checked="" type="checkbox"/> Dissolved Solids	70300	100	<input checked="" type="checkbox"/> Potassium	00937	1.0
			<input checked="" type="checkbox"/> Sodium	00929	100
			<input checked="" type="checkbox"/> Zinc	01092	0.1
			<input checked="" type="checkbox"/> D.D.		4.17

\*Results reported in units, all others in milligrams per liter (ppm)

AR-02876

Date Received:                      Date Reported: 21 1995 Chemist:

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehnen Joseph, Ph.D., Director

*C.C.P.*

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: 115-11-7 Name: Kempster County: Harford

Source of Sample: \_\_\_\_\_ Street: \_\_\_\_\_ Town or City: Well Collector: Bellem

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Copy sent to P. Nelson only, W. R. D.

Field Data:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
County	Plant No.	Sampling Station	Date Collected	Time	Acid	Iced	
		<u>U7</u>	<u>09.27.85</u>				
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
pH*	Chlorine Residual	Free	Total	Specific Conductance			

✓	ANALYSIS	CODE	RESULTS	✓	ANALYSIS	CODE	RESULTS
✓	pH*	00403		✓	Arsenic	01002	
✓	Alkalinity (Total)	00410		✓	Barium	01007	
	pH*, Ca CO <sub>3</sub> SAT.	70311		✓	Cadmium	01027	
	Alkalinity, Ca CO <sub>3</sub> SAT.	74023		✓	Chromium	01034	
✓	Hardness	00900		✓	Lead	01051	
✓	Ammonia-N	00608		✓	Mercury	71900	
✓	Nitrate-Nitrate N	00630		✓	Selenium	01147	
✓	Nitrite N	00615			Silver	01077	
	MBAS	38260					
✓	Chloride	00940			Aluminum	01105	
	Fluoride	00951		✓	Calcium	00916	
	Color*	00081		✓	Copper	01042	
✓	Turbidity*	00076		✓	Iron	01045	
✓	Conductance*, SPEC	00095		✓	Magnesium	00927	
✓	Sulfate	00945		✓	Manganese	01055	
	Total Solids	00500			Nickel	01067	
✓	Dissolved Solids	70300		✓	Potassium	00937	
				✓	Sodium	00929	
				✓	Zinc	01092	
				✓			

\*Results reported in units, all others in milligrams per liter (ppm)

AR102877

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration

201 W. Preston St.

P.O. Box 2355, Baltimore, Maryland 21203

J. Mehsen Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: 105 Name: Kenzelers County: Carroll

Source of Sample: \_\_\_\_\_ Street \_\_\_\_\_ Town or City \_\_\_\_\_ Collector: Beeler

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Emergency test for R Nelson Early Work

County:    Plant No.:     Sampling Station: US Date Collected: 092758 Time:    Acid:  Iced:

Field Data: pH:    Chlorine Residual:   Free:   Total:   Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	7.2	<input checked="" type="checkbox"/> Arsenic	01002	0.01
<input checked="" type="checkbox"/> Alkalinity (Total)	00410	120	<input checked="" type="checkbox"/> Barium	01007	0.01
pH*, Ca CO <sub>3</sub> SAT.	70311	120	<input checked="" type="checkbox"/> Cadmium	01027	0.01
Alkalinity, Ca CO <sub>3</sub> SAT.	74023	120	<input checked="" type="checkbox"/> Chromium	01034	0.01
<input checked="" type="checkbox"/> Hardness	00900	120	<input checked="" type="checkbox"/> Lead	01051	0.01
<input checked="" type="checkbox"/> Ammonia-N	00608	0.01	<input checked="" type="checkbox"/> Mercury	71900	0.01
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630	0.01	<input checked="" type="checkbox"/> Selenium	01147	0.01
<input checked="" type="checkbox"/> Nitrite N	00615	0.01	Silver	01077	0.01
MBAS	38260	0.01			
<input checked="" type="checkbox"/> Chloride	00940	120	Aluminum	01105	0.01
Fluoride	00951	0.01	<input checked="" type="checkbox"/> Calcium	00916	120
Color*	00081	120	<input checked="" type="checkbox"/> Copper	01042	0.01
<input checked="" type="checkbox"/> Turbidity*	00076	120	<input checked="" type="checkbox"/> Iron	01045	0.01
<input checked="" type="checkbox"/> Conductance*, SPEC	00095	120	<input checked="" type="checkbox"/> Magnesium	00927	0.01
<input checked="" type="checkbox"/> Sulfate	00945	0.01	<input checked="" type="checkbox"/> Manganese	01055	0.01
Total Solids	00500	0.01	Nickel	01067	0.01
<input checked="" type="checkbox"/> Dissolved Solids	70300	0.01	<input checked="" type="checkbox"/> Potassium	00937	0.01
			<input checked="" type="checkbox"/> Sodium	00929	0.01
			<input checked="" type="checkbox"/> Zinc	01092	0.01
			<u>COP</u>		0.01

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: \_\_\_\_\_ Date Reported: OCT 28 1988 Chemist: ARI02878

STATE OF MARYLAND  
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
 Laboratories Administration  
 201 W. Preston St.  
 P.O. Box 2355, Baltimore, Maryland 21203  
 J. Mehsen Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: 110 U.S. 9 Name: Kaydon County: Barren

Source of Sample: \_\_\_\_\_ Street: Wes Town or City: \_\_\_\_\_ Collector: Beck

Sample Type (Circle): Community Source  Non-Community Distribution  Private MCI  Emergency Recheck  Routine

Remarks: Copy sent to R. Nelson only W.M.H.!

County:   Plant No.:     Sampling Station: 1109 Date Collected: 092788 Time:   Acid:  Iced:

Field Data: pH:    Chlorine Residual: Free   Total   Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403		<input checked="" type="checkbox"/> Arsenic	01002	
<input checked="" type="checkbox"/> Alkalinity (Total)	00410		<input checked="" type="checkbox"/> Barium	01007	
<input type="checkbox"/> pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	
<input type="checkbox"/> Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	
<input checked="" type="checkbox"/> Hardness	00900		<input checked="" type="checkbox"/> Lead	01051	
<input checked="" type="checkbox"/> Ammonia-N	00608		<input checked="" type="checkbox"/> Mercury	71900	
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630		<input checked="" type="checkbox"/> Selenium	01147	
<input checked="" type="checkbox"/> Nitrite N	00615		<input type="checkbox"/> Silver	01077	
<input type="checkbox"/> MBAS	38260		<input type="checkbox"/> Aluminum	01105	
<input checked="" type="checkbox"/> Chloride	00940		<input checked="" type="checkbox"/> Calcium	00916	
<input type="checkbox"/> Fluoride	00951		<input checked="" type="checkbox"/> Copper	01042	
<input type="checkbox"/> Color*	00081		<input checked="" type="checkbox"/> Iron	01045	
<input checked="" type="checkbox"/> Turbidity*	00076		<input checked="" type="checkbox"/> Magnesium	00927	
<input checked="" type="checkbox"/> Conductance*, SPEC	00095		<input checked="" type="checkbox"/> Manganese	01055	
<input checked="" type="checkbox"/> Sulfate	00945		<input checked="" type="checkbox"/> Nickel	01067	
<input type="checkbox"/> Total Solids	00500		<input checked="" type="checkbox"/> Potassium	00937	
<input checked="" type="checkbox"/> Dissolved Solids	70300		<input checked="" type="checkbox"/> Sodium	00929	
			<input checked="" type="checkbox"/> Zinc	01092	
			<input checked="" type="checkbox"/> C.D.D.		

\*Results reported in units, all others in milligrams per liter (ppm)

AR102879

Date Received \_\_\_\_\_ Date Reported OCT 28 1988 Chemist \_\_\_\_\_



STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration

301 W. Preston St.  
P.O. Box 2335, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: 7005-1 Name: Keenan County: Carroll

Source of Sample: \_\_\_\_\_ Street: \_\_\_\_\_ Town or City: \_\_\_\_\_ Collector: Keenan

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Deposited in K. Nelson's car on 11/11/88  
Keenan HS-9 (Dry)

County:  Plant No.:  Sampling Station:  Date Collected: 11/11/88 Time:  Acid:  Iced:

Field Data: pH:  Chlorine Residual:  Free:  Total:  Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403		<input checked="" type="checkbox"/> Arsenic	01002	
<input checked="" type="checkbox"/> Alkalinity (Total)	00410		<input checked="" type="checkbox"/> Barium	01007	
<input checked="" type="checkbox"/> pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	
<input checked="" type="checkbox"/> Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	
<input checked="" type="checkbox"/> Hardness	00900		<input checked="" type="checkbox"/> Lead	01051	
<input checked="" type="checkbox"/> Ammonia-N	00608		<input checked="" type="checkbox"/> Mercury	71900	
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630		<input checked="" type="checkbox"/> Selenium	01147	
<input checked="" type="checkbox"/> Nitrite N	00615		<input checked="" type="checkbox"/> Silver	01077	
<input checked="" type="checkbox"/> MBAS	38260		<input checked="" type="checkbox"/> Aluminum	01105	
<input checked="" type="checkbox"/> Chloride	00940		<input checked="" type="checkbox"/> Calcium	00916	
<input checked="" type="checkbox"/> Fluoride	00951		<input checked="" type="checkbox"/> Copper	01042	
<input checked="" type="checkbox"/> Color*	00081		<input checked="" type="checkbox"/> Iron	01045	
<input checked="" type="checkbox"/> Turbidity*	00076		<input checked="" type="checkbox"/> Magnesium	00927	
<input checked="" type="checkbox"/> Conductance*, SPEC	00095		<input checked="" type="checkbox"/> Manganese	01055	
<input checked="" type="checkbox"/> Sulfate	00945		<input checked="" type="checkbox"/> Nickel	01067	
<input checked="" type="checkbox"/> Total Solids	00500		<input checked="" type="checkbox"/> Potassium	00937	
<input checked="" type="checkbox"/> Dissolved Solids	70300		<input checked="" type="checkbox"/> Sodium	00929	
			<input checked="" type="checkbox"/> Zinc	01092	
			<input checked="" type="checkbox"/> P.D.		

\*Results reported in units, all others in milligrams per liter (ppm)

AR102380

Date Received: \_\_\_\_\_ Date Reported: Dec 2 1988 Chemist: \_\_\_\_\_



STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: W.D. 5.3 Name: Keystone County: Carroll

Source of Sample: \_\_\_\_\_ Street: \_\_\_\_\_ Town or City: Shesem Collector: Green

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Copy sent to R. Nelson only U.M.A.

County:  Plant No.:  Sampling Station: 53 Date Collected: 092988 Time:  Acid:  Iced:

Field Data: pH:  Chlorine Residual:  Free:  Total:  Specific Conductance:

✓	ANALYSIS	CODE	RESULTS	✓	ANALYSIS	CODE	RESULTS
✓	pH*	00403		✓	Arsenic	01002	
✓	Alkalinity (Total)	00410		✓	Barium	01007	
	pH*, Ca CO, SAT.	70311		✓	Cadmium	01027	
	Alkalinity, Ca CO, SAT.	74023		✓	Chromium	01034	
✓	Hardness	00900		✓	Lead	01051	
✓	Ammonia-N	00608		✓	Mercury	71900	
✓	Nitrate-Nitrate N	00630		✓	Selenium	01147	
✓	Nitrite N	00615			Silver	01077	
	MBAS	38260					
✓	Chloride	00940			Aluminum	01105	
	Fluoride	00951		✓	Calcium	00916	
	Color*	00081		✓	Copper	01042	
✓	Turbidity*	00076		✓	Iron	01045	
✓	Conductance*, SPEC	00095		✓	Magnesium	00927	
✓	Sulfate	00945		✓	Manganese	01055	
	Total Solids	00500			Nickel	01067	
✓	Dissolved Solids	70300			Potassium	00937	
				✓	Sodium	00929	
				✓	Zinc	01092	
				✓	302		

\*Results reported in units, all others in milligrams per liter (ppm)

AR102882

Date Received: \_\_\_\_\_ Date Reported: 2 8 1988 Chemist: \_\_\_\_\_

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration

201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: 54 Name: Kepler County: Carroll

Source of Sample: \_\_\_\_\_ Street: Shawn Town or City: \_\_\_\_\_ Collector: Belem

Sample Type (Circle): Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Kepler's sent to R. Nelson only WMA

County:  Plant No.:  Sampling Station: SU Date Collected: 092988 Time:  Acid:  Iced:

Field Data: pH:  Chlorine Residual:  Free:  Total:  Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	7	<input checked="" type="checkbox"/> Arsenic	01002	
<input checked="" type="checkbox"/> Alkalinity (Total)	00410		<input checked="" type="checkbox"/> Barium	01007	
pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	
<input checked="" type="checkbox"/> Hardness	00900		<input checked="" type="checkbox"/> Lead	01051	
<input checked="" type="checkbox"/> Ammonia-N	00608		<input checked="" type="checkbox"/> Mercury	71900	
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630		<input checked="" type="checkbox"/> Selenium	01147	
<input checked="" type="checkbox"/> Nitrite N	00615	1	Silver	01077	
MBAS	38260				
<input checked="" type="checkbox"/> Chloride	00940		Aluminum	01105	
Fluoride	00951		<input checked="" type="checkbox"/> Calcium	00916	
Color*	00081		<input checked="" type="checkbox"/> Copper	01042	
<input checked="" type="checkbox"/> Turbidity*	00076		<input checked="" type="checkbox"/> Iron	01045	
<input checked="" type="checkbox"/> Conductance*, SPEC	00095		<input checked="" type="checkbox"/> Magnesium	00927	
<input checked="" type="checkbox"/> Sulfate	00945		<input checked="" type="checkbox"/> Manganese	01055	
Total Solids	00500		Nickel	01067	
<input checked="" type="checkbox"/> Dissolved Solids	70300		<input checked="" type="checkbox"/> Potassium	00937	
			<input checked="" type="checkbox"/> Sodium	00929	
			<input checked="" type="checkbox"/> Zinc	01092	4
			<u>W.C.</u>		

\*Results reported in units, all others in milligrams per liter (ppm)

AR102883

STATE OF MARYLAND  
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
 Laboratories Administration  
 201 W. Preston St.  
 P.O. Box 2355, Baltimore, Maryland 21203  
 J. Mehsen Joseph, Ph.D., Director

*P.O.C.*

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: MD-5-5 Name: Kingslon County: Cecil

Source of Sample: \_\_\_\_\_ Street \_\_\_\_\_ Town or City \_\_\_\_\_ Collector: Beeler

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Copy sent to R. Wilson one WMA'

County:   Plant No.:     Sampling Station:       Date Collected:       Time:     Acid:  Iced:

Field Data: pH\*:    Chlorine Residual:   Free:   Total:   Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	7.0	<input checked="" type="checkbox"/> Arsenic	01002	0.05
<input checked="" type="checkbox"/> Alkalinity (Total)	00410	137	<input checked="" type="checkbox"/> Barium	01007	14
pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	<0.01
<input checked="" type="checkbox"/> Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	0.34
<input checked="" type="checkbox"/> Hardness	00900	143	<input checked="" type="checkbox"/> Lead	01051	1.37
<input checked="" type="checkbox"/> Ammonia-N	00608	0.9	<input checked="" type="checkbox"/> Mercury	71900	<0.05
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630	<0.1	<input checked="" type="checkbox"/> Selenium	01147	<0.1
<input checked="" type="checkbox"/> Nitrite N	00615	0.05	<input type="checkbox"/> Silver	01077	
MBAS	38260				
<input checked="" type="checkbox"/> Chloride	00940	29	<input type="checkbox"/> Aluminum	01105	
Fluoride	00951		<input checked="" type="checkbox"/> Calcium	00916	4.1
Color*	00081		<input checked="" type="checkbox"/> Copper	01042	0.32
<input checked="" type="checkbox"/> Turbidity*	00076	4.1	<input checked="" type="checkbox"/> Iron	01045	2.1
<input checked="" type="checkbox"/> Conductance*, SPEC	00095	139	<input checked="" type="checkbox"/> Magnesium	00927	4.1
<input checked="" type="checkbox"/> Sulfate	00945	7.1	<input checked="" type="checkbox"/> Manganese	01055	0.05
Total Solids	00500		<input type="checkbox"/> Nickel	01067	
<input checked="" type="checkbox"/> Dissolved Solids	70300	3.9	<input checked="" type="checkbox"/> Potassium	00937	1.84
			<input checked="" type="checkbox"/> Sodium	00929	7.9
			<input checked="" type="checkbox"/> Zinc	01092	1.19
			<input checked="" type="checkbox"/> C.O.D.		9.0

\*Results reported in units, all others in milligrams per liter (ppm)

AR102884

Date Received \_\_\_\_\_ Date Reported OCT 3 1 1988 Chemist DAVID A. SEVDALIAN

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston St.

P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehser Joseph, Ph.D., Director

Lab No.                     

WATER ANALYSIS

Bottle Number:                      Name: Kyleston County: Carroll

Source of Sample:                      Street:                      Town or City: Shuan Collector: Beelan

Sample Type (Circle): Community Source  Non-Community Distribution  Private MCK  Emergency Recheck  Routine

Remarks: Copy sent to R. Nelson Only UWR

County:  Plant No.:  Sampling Station: 51 Date Collected: 10/27/88 Time:  Acid:  Iced:

Field Data: pH:  Chlorine Residual:  Free:  Total:  Specific Conductance:

✓	ANALYSIS	CODE	RESULTS	✓	ANALYSIS	CODE	RESULTS
✓	pH*	00403		✓	Arsenic	01002	
✓	Alkalinity (Total)	00410		✓	Barium	01007	
	pH*, Ca CO <sub>3</sub> SAT.	70311		✓	Cadmium	01027	
	Alkalinity, Ca CO <sub>3</sub> SAT.	74023		✓	Chromium	01034	
✓	Hardness	00900	7	✓	Lead	01051	
✓	Ammonia-N	00608		✓	Mercury	71900	
✓	Nitrate-Nitrate N	00630		✓	Selenium	01147	
✓	Nitrite N	00615			Silver	01077	
	MBAS	38260			Aluminum	01105	
✓	Chloride	00940		✓	Calcium	00916	
	Fluoride	00951		✓	Copper	01042	
	Color*	00081		✓	Iron	01045	
✓	Turbidity*	00076		✓	Magnesium	00927	
✓	Conductance*, SPEC	00095		✓	Manganese	01055	
✓	Sulfate	00945			Nickel	01067	
	Total Solids	00500		✓	Potassium	00937	
✓	Dissolved Solids	70300		✓	Sodium	00929	
				✓	Zinc	01092	
				✓	C.O.D		

\*Results reported in units, all others in milligrams per liter (ppm)

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: M.D.R. 12 Name: Keystone (checked) County: Harrow

Source of Sample: C. MATTHEWS LEO MATTHEWS RD Collector: Becher  
Street Town or City

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Copy sent to R. Nelson WDMA Only

Field Data:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
County	Plant No.	Sampling Station	Date Collected	Time	Acid	Iced	

pH\*      Chlorine Residual       Free       Total       Specific Conductance

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	7.1	<input checked="" type="checkbox"/> Arsenic	01002	
<input checked="" type="checkbox"/> Alkalinity (Total)	00410		<input checked="" type="checkbox"/> Barium	01007	
<input type="checkbox"/> pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	
<input type="checkbox"/> Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	
<input checked="" type="checkbox"/> Hardness	00900		<input checked="" type="checkbox"/> Lead	01051	
<input checked="" type="checkbox"/> Ammonia-N	00608		<input checked="" type="checkbox"/> Mercury	71900	
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630		<input checked="" type="checkbox"/> Selenium	01147	
<input checked="" type="checkbox"/> Nitrite N	00615		<input type="checkbox"/> Silver	01077	
<input type="checkbox"/> MBAS	38260				
<input checked="" type="checkbox"/> Chloride	00940		<input type="checkbox"/> Aluminum	01105	
<input type="checkbox"/> Fluoride	00951		<input checked="" type="checkbox"/> Calcium	00916	
<input type="checkbox"/> Color*	00081		<input checked="" type="checkbox"/> Copper	01042	
<input checked="" type="checkbox"/> Turbidity*	00076		<input checked="" type="checkbox"/> Iron	01045	
<input checked="" type="checkbox"/> Conductance*, SPEC	00095		<input checked="" type="checkbox"/> Magnesium	00927	
<input checked="" type="checkbox"/> Sulfate	00945		<input checked="" type="checkbox"/> Manganese	01055	
<input type="checkbox"/> Total Solids	00500		<input type="checkbox"/> Nickel	01067	
<input checked="" type="checkbox"/> Dissolved Solids	70300		<input checked="" type="checkbox"/> Potassium	00937	
			<input checked="" type="checkbox"/> Sodium	00929	
			<input checked="" type="checkbox"/> Zinc	01092	
			<input checked="" type="checkbox"/> (M.D.)		

\*Results reported in units, all others in milligrams per liter (ppm)

AR102886

Date Received: \_\_\_\_\_ Date Reported: OCT 28 1988 Chemist: \_\_\_\_\_

**STATE OF MARYLAND**  
**DEPARTMENT OF HEALTH AND MENTAL HYGIENE**  
 Laboratories Administration  
 201 W. Preston St.  
 P.O. Box 2355, Baltimore, Maryland 21203  
 J. Mehsen Joseph, Ph.D., Director

Lab No.                     

**WATER ANALYSIS**

Bottle Number: WDR-2 Name: Keystone County: Prince George's

Source of Sample: L. Chambers 1275 H. Scarborough Rd Collector: Beckman  
Street Town or City

Sample Type (Circle):  Community Source     Non-Community Distribution     Private MCL     Emergency Recheck     Routine

Remarks: Sample sent to F. V. Johnson W.M.H. Dept

County:  Plant No.:  Sampling Station:  Date Collected:  Time:  Acid:  Iced:

Field Data: pH\*:  Chlorine Residual:  Free:  Total:  Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	7.1	<input checked="" type="checkbox"/> Arsenic	01002	
<input checked="" type="checkbox"/> Alkalinity (Total)	00410	110	<input checked="" type="checkbox"/> Barium	01007	
pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	1
<input checked="" type="checkbox"/> Hardness	00900	110	<input checked="" type="checkbox"/> Lead	01051	
<input checked="" type="checkbox"/> Ammonia-N	00608		<input checked="" type="checkbox"/> Mercury	71900	
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630		<input checked="" type="checkbox"/> Selenium	01147	
<input checked="" type="checkbox"/> Nitrite N	00615		Silver	01077	
MBAS	38260				
<input checked="" type="checkbox"/> Chloride	00940	110	Aluminum	01105	
Fluoride	00951		<input checked="" type="checkbox"/> Calcium	00916	
Color*	00081		<input checked="" type="checkbox"/> Copper	01042	
<input checked="" type="checkbox"/> Turbidity*	00076	1.1	<input checked="" type="checkbox"/> Iron	01045	
<input checked="" type="checkbox"/> Conductance*, SPEC	00095	110	<input checked="" type="checkbox"/> Magnesium	00927	
<input checked="" type="checkbox"/> Sulfate	00945	110	<input checked="" type="checkbox"/> Manganese	01055	1
Total Solids	00500		Nickel	01067	
<input checked="" type="checkbox"/> Dissolved Solids	70300		<input checked="" type="checkbox"/> Potassium	00937	1
			<input checked="" type="checkbox"/> Sodium	00929	
			<input checked="" type="checkbox"/> Zinc	01092	1
			<u>NO</u>		

\*Results reported in units, all others in milligrams per liter (ppm)

AR102887



DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration

201 W. Preston St.

P.O. Box 2355, Baltimore, Maryland 21203

J. Mehsen Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: MD R-3 Name: Kenilworth County: Carroll

Source of Sample: M. Ferry 1142 N. S. ... Collector: Beaman  
Street Town or City

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Sample sent to K. Nelson W. W. ...

County:  Plant No.:  Sampling Station: 13 Date Collected: 89 2 5 88 Time:  Acid:  Iced:   
 Field Data: pH:  Chlorine Residual:  Free:  Total:  Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403		<input checked="" type="checkbox"/> Arsenic	01002	
<input checked="" type="checkbox"/> Alkalinity (Total)	00410		<input checked="" type="checkbox"/> Barium	01007	
pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	
<input checked="" type="checkbox"/> Hardness	00900		<input checked="" type="checkbox"/> Lead	01051	
<input checked="" type="checkbox"/> Ammonia-N	00608		<input checked="" type="checkbox"/> Mercury	71900	
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630		<input checked="" type="checkbox"/> Selenium	01147	
<input checked="" type="checkbox"/> Nitrite N	00615		Silver	01077	
MBAS	38260				
<input checked="" type="checkbox"/> Chloride	00940		Aluminum	01105	
Fluoride	00951		<input checked="" type="checkbox"/> Calcium	00918	
Color*	00081		<input checked="" type="checkbox"/> Copper	01042	
<input checked="" type="checkbox"/> Turbidity*	00076		<input checked="" type="checkbox"/> Iron	01045	
<input checked="" type="checkbox"/> Conductance*, SPEC	00095		<input checked="" type="checkbox"/> Magnesium	00927	
<input checked="" type="checkbox"/> Sulfate	00945		<input checked="" type="checkbox"/> Manganese	01055	
Total Solids	00500		Nickel	01067	
<input checked="" type="checkbox"/> Dissolved Solids	70300		Potassium	00937	
			<input checked="" type="checkbox"/> Sodium	00929	
			<input checked="" type="checkbox"/> Zinc	01092	
			<u>MD</u>		

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: \_\_\_\_\_ Date Reported: Feb 29 1988 Chemist: W. Payne

AR102888

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

**WATER ANALYSIS**

Bottle Number: 731 D R 11 Name: Keystone County: Prince George's

Source of Sample: D DAVIS-1146 H. Seabrook VA Collector: Belton  
Street Town or City

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Sample sent to R. Nelson WMA Only

County:  Plant No.:  Sampling Station:  Date Collected: 097888 Time:  Acid:  Iced:

Field Data: pH\*:  Chlorine Residual:  Free:  Total:  Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403		<input checked="" type="checkbox"/> Arsenic	01002	
<input checked="" type="checkbox"/> Alkalinity (Total)	00410		<input checked="" type="checkbox"/> Barium	01007	
<input type="checkbox"/> pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	
<input type="checkbox"/> Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	
<input checked="" type="checkbox"/> Hardness	00900		<input checked="" type="checkbox"/> Lead	01051	
<input checked="" type="checkbox"/> Ammonia-N	00608		<input checked="" type="checkbox"/> Mercury	71900	
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630		<input checked="" type="checkbox"/> Selenium	01147	
<input checked="" type="checkbox"/> Nitrite N	00615		<input type="checkbox"/> Silver	01077	
<input type="checkbox"/> MBAS	38260		<input type="checkbox"/> Aluminum	01105	
<input checked="" type="checkbox"/> Chloride	00940		<input checked="" type="checkbox"/> Calcium	00916	
<input type="checkbox"/> Fluoride	00951		<input checked="" type="checkbox"/> Copper	01042	
<input type="checkbox"/> Color*	00081		<input checked="" type="checkbox"/> Iron	01045	
<input checked="" type="checkbox"/> Turbidity*	00076		<input checked="" type="checkbox"/> Magnesium	00927	
<input checked="" type="checkbox"/> Conductance*, SPEC	00095		<input checked="" type="checkbox"/> Manganese	01055	
<input checked="" type="checkbox"/> Sulfate	00945		<input type="checkbox"/> Nickel	01067	
<input type="checkbox"/> Total Solids	00500		<input checked="" type="checkbox"/> Potassium	00937	
<input checked="" type="checkbox"/> Dissolved Solids	70300		<input checked="" type="checkbox"/> Sodium	00929	
			<input checked="" type="checkbox"/> Zinc	01092	
			<input checked="" type="checkbox"/> <u>CO<sub>2</sub></u>		

\*Results reported in units, all others in milligrams per liter (ppm)

AR102889

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DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

Lab No. 0102890

WATER ANALYSIS

Bottle Number: 710 K-5 Name: Kingsstone County: Carroll

Source of Sample: V. Cansler 5149 Baltimore Rd Collector: Beeman  
Street Town or City

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Copy sent to R. Nelson WMA Only

Field Data:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
County	Plant No.	Sampling Station	Date Collected	Time	Acid	Iced	
		<u>RS</u>	<u>09 2 9 8 8</u>				
	<input type="text"/>						
	pH*	Chlorine Residual	Free	Total	Specific Conductance		

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403		<input checked="" type="checkbox"/> Arsenic	01002	
<input checked="" type="checkbox"/> Alkalinity (Total)	00410		<input checked="" type="checkbox"/> Barium	01007	
<input type="checkbox"/> pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	
<input type="checkbox"/> Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	
<input checked="" type="checkbox"/> Hardness	00900		<input checked="" type="checkbox"/> Lead	01051	
<input checked="" type="checkbox"/> Ammonia-N	00608		<input checked="" type="checkbox"/> Mercury	71900	
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630		<input checked="" type="checkbox"/> Selenium	01147	
<input checked="" type="checkbox"/> Nitrite N	00615		<input type="checkbox"/> Silver	01077	
<input type="checkbox"/> MBAS	38260		<input type="checkbox"/> Aluminum	01105	
<input checked="" type="checkbox"/> Chloride	00940		<input checked="" type="checkbox"/> Calcium	00916	
<input type="checkbox"/> Fluoride	00951		<input checked="" type="checkbox"/> Copper	01042	
<input type="checkbox"/> Color*	00081		<input checked="" type="checkbox"/> Iron	01045	
<input checked="" type="checkbox"/> Turbidity*	00076		<input checked="" type="checkbox"/> Magnesium	00927	
<input checked="" type="checkbox"/> Conductance*, SPEC	00095		<input checked="" type="checkbox"/> Manganese	01055	
<input checked="" type="checkbox"/> Sulfate	00945		<input type="checkbox"/> Nickel	01067	
<input type="checkbox"/> Total Solids	00500		<input checked="" type="checkbox"/> Potassium	00937	
<input checked="" type="checkbox"/> Dissolved Solids	70300		<input checked="" type="checkbox"/> Sodium	00929	
			<input checked="" type="checkbox"/> Zinc	01092	
			<u>NO</u>		

\*Results reported in units, all others in milligrams per liter (ppm)

ART02890

**STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration**

P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

**WATER ANALYSIS**

Well Number: W.D. R. 6 Name: Keystone County: Prince George's

Source of Sample: R.H.U.F. - 1226 H. Shallow Rd. Collector: Becker  
Street Town or City

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Sample sent to R. Nelson WMA Only

County:   Plant No.:     Sampling Station: RI Date Collected: 7-20-78 Time:     Acid:  Iced:

Field Data: pH:    Chlorine Residual:  Free:   Total:   Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403		<input checked="" type="checkbox"/> Arsenic	01002	
<input checked="" type="checkbox"/> Alkalinity (Total)	00410		<input checked="" type="checkbox"/> Barium	01007	
pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	
<input checked="" type="checkbox"/> Hardness	00900		<input checked="" type="checkbox"/> Lead	01051	
<input checked="" type="checkbox"/> Ammonia-N	00608		<input checked="" type="checkbox"/> Mercury	71900	
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630		<input checked="" type="checkbox"/> Selenium	01147	
<input checked="" type="checkbox"/> Nitrite N	00615		<input type="checkbox"/> Silver	01077	
MBAS	38260		<input type="checkbox"/> Aluminum	01105	
<input checked="" type="checkbox"/> Chloride	00940		<input checked="" type="checkbox"/> Calcium	00916	
<input type="checkbox"/> Fluoride	00951		<input checked="" type="checkbox"/> Copper	01042	
<input type="checkbox"/> Color*	00081		<input checked="" type="checkbox"/> Iron	01045	
<input checked="" type="checkbox"/> Turbidity*	00076		<input checked="" type="checkbox"/> Magnesium	00927	
<input checked="" type="checkbox"/> Conductance*, SPEC	00095		<input checked="" type="checkbox"/> Manganese	01055	
<input checked="" type="checkbox"/> Sulfate	00945		<input type="checkbox"/> Nickel	01067	
<input type="checkbox"/> Total Solids	00500		<input checked="" type="checkbox"/> Potassium	00937	
<input checked="" type="checkbox"/> Dissolved Solids	70300		<input checked="" type="checkbox"/> Sodium	00929	
			<input checked="" type="checkbox"/> Zinc	01092	
			<input checked="" type="checkbox"/> (D.D)		

\*Results reported in units, all others in milligrams per liter (ppm)

AR102891

STATE OF MARYLAND  
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201 W. Preston St.  
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J. Mehnen Joseph, Ph.D., Director

Lab No. AR102892

WATER ANALYSIS

Order No. RL-101 Name: POWERS County: CARROLL

Source of Sample: 411 Humber / 15th Street P.O. Water meter #1 Collector: L. K. (K...)  
Street: \_\_\_\_\_ Town or City: 21157

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: 1.5/STONE LANDFILL SURVEY

County:  Plant No.  Sampling Station  Date Collected: 392788 Time: 718 Acid  Iced

Field Data: pH\*  Chlorine Residual:  Free  Total  Specific Conductance

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
✓ pH*	00403	6.2	Arsenic	01002	
✓ Alkalinity (Total)	00410	<1	Barium	01007	
pH*, Ca CO <sub>3</sub> SAT.	70311		Cadmium	01027	
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		Chromium	01034	
Hardness	00900	135	Lead	01051	
Ammonia-N	00608	<0.2	Mercury	71900	
✓ Nitrate-Nitrate N	00630	161	Selenium	01147	
✓ Nitrite N	00615	0.005	Silver	01077	
MBAS	38260				
✓ Chloride	00940	14	Aluminum	01105	
Fluoride	00951		Calcium	00916	
Color*	00081		Copper	01042	
✓ Turbidity*	00076	0.7	Iron	01045	
✓ Conductance*, SPEC	00095	85	Magnesium	00927	
✓ Sulfate	00945	22	Manganese	01055	
✓ Total Solids	00500	73	Nickel	01067	
✓ Dissolved Solids	70300	73	Potassium	00937	
✓ C.O.D.		<0.2	Sodium	00929	
✓ T.K.N.		<0.10	Zinc	01092	

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J. Mehsen Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

**WATER ANALYSIS**

Bottle Number: PH-102 Name: F. W. FRS County: CARROLL

Source of Sample: PH 11/10/88 Street: \_\_\_\_\_ Town or City: \_\_\_\_\_ Collector: L. Hicks

Sample Type (Circle): Community Source Non-Community Distribution Private MCL Emergency Recheck Routine

Remarks: \_\_\_\_\_

KEYSTONE LABORATORY - Analysis w/ 5ml of N.H. Acid

County: 00 Plant No.: 0000 Sampling Station: 0000 Date Collected: 10-28-88 Time: 9:00 Acid:  Iced:

Field Data: pH: 6.0 Chlorine Residual: 0.0 Free: 0.0 Total: 0.0 Specific Conductance: 0000

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
pH*	00403	6.0	Arsenic	01002	
Alkalinity (Total)	00410		Barium	01007	
pH*, Ca CO <sub>3</sub> SAT.	70311		Cadmium	01027	
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		Chromium	01034	
Hardness	00900		Lead	01051	
Ammonia-N	00608		Mercury	71900	
Nitrate-Nitrate N	00630		Selenium	01147	
Nitrite N	00615		Silver	01077	
MBAS	38260				
Chloride	00940		Aluminum	01105	
Fluoride	00951		Calcium	00916	
Color*	00081		Copper	01042	
Turbidity*	00076		Iron	01045	
Conductance*, SPEC	00095		Magnesium	00927	
Sulfate	00945		Manganese	01055	4.1
Total Solids	00500		Nickel	01067	
Dissolved Solids	70300		Potassium	00937	41.0
			Sodium	00929	38
			Zinc	01092	4.0

\*Results reported in units, all others in milligrams per liter (ppm)

AR102893

Date Received: \_\_\_\_\_ Date Reported: OCT 28 1988 Chemist: \_\_\_\_\_

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 Laboratories Administration  
 201 W. Preston St.  
 P.O. Box 2355, Baltimore, Maryland 21203  
 J. Mehser Joseph, Ph.D., Director

Lab No.                     

WATER ANALYSIS

Sample No. KL-104 Name: RIT-DA BEUTEL County: CAPRICE

Source of Sample: 1128 Hill St. / 151 Hill St. / P. U. 1 Mt. / 1157 Collector: L. H. H. S.  
Street Town or City

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Private Source

KEYSTONE LANDFILL SURVEY

County: 03 Plant No.:            Sampling Station:            Date Collected: 09/27/88 Time: 9:51 A Acid:  Iced:   
 Field Data: pH: 7.1 Chlorine Residual: 0.0 Free: 0.0 Total: 0.0 Specific Conductance:           

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
✓ pH*	00403	7.1	Arsenic	01002	
Alkalinity (Total)	00410	124	Barium	01007	
pH*, Ca CO <sub>3</sub> , SAT.	70311		Cadmium	01027	
Alkalinity, Ca CO <sub>3</sub> , SAT.	74023		Chromium	01034	
Hardness	00900	101	Lead	01051	
Ammonia-N	00608	40.2	Mercury	71900	
✓ Nitrate-Nitrate N	00630	125	Selenium	01147	
✓ Nitrite N	00615	0.05	Silver	01077	
MBAS	38260				
✓ Chloride	00940	50	Aluminum	01105	
Fluoride	00951		Calcium	00916	
Color*	00081		Copper	01042	
✓ Turbidity*	00076	40.5	Iron	01045	
✓ Conductance*, SPEC	00095	309	Magnesium	00927	
✓ Sulfate	00945	185	Manganese	01055	
✓ Total Solids	00500	222	Nickel	01067	
✓ Dissolved Solids	70300	220	Potassium	00937	
✓ TKN		14.2	Sodium	00929	
✓ CaO		14	Zinc	01092	

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received:                      Date Reported: OCT 12 1988 Chemist: L. EXP AR102894

STATE OF MARYLAND  
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
 Laboratories Administration  
 201 W. Preston St.  
 P.O. Box 2355, Baltimore, Maryland 21203  
 J. Mehsen Joseph, Ph.D., Director

Lab No. 05-11-1000

WATER ANALYSIS

er. 1.5 Name: RITA PEATEL County: CARROLL

Source of Sample: 1128 Home St. N. P. W. M. 21157 Collector: L. H. 35  
 Street Town or City

Sample Type (Circle): Community Source Non-Community Distribution Private Emergency Recheck Routine

Remarks: TRUCKING LANDFILL SURVEY - Acidified w/ 5ml of NITRIC ACID

County:  Plant No.:  Sampling Station:  Date Collected: 09/17/88 Time: 7:53 AM Acid:  Iced:

Field Data: pH: 1.0 Chlorine Residual:  Free: 00 Total: 00 Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
pH*	00403	1.0	✓ Arsenic	01002	
Alkalinity (Total)	00410		✓ Barium	01007	
pH*, Ca CO <sub>3</sub> SAT.	70311		✓ Cadmium	01027	
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		✓ Chromium	01034	
Hardness	00900		✓ Lead	01051	
Ammonia-N	00608		✓ Mercury	71900	
Nitrate-Nitrate N	00630		✓ Selenium	01147	
Nitrite N	00615		Silver	01077	
MBAS	38260				
Chloride	00940		Aluminum	01105	
Fluoride	00951		✓ Calcium	00916	
Color*	00081		✓ Copper	01042	
Turbidity*	00076		✓ Iron	01045	< 0.05
Conductance*, SPEC	00095		✓ Magnesium	00927	1.9
Sulfate	00945		✓ Manganese	01055	
Total Solids	00500		✓ Nickel	01067	
Dissolved Solids	70300		✓ Potassium	00937	
			✓ Sodium	00929	
			✓ Zinc	01092	

\*Results reported in units, all others in milligrams per liter (ppm)

AR102895

Date Received: \_\_\_\_\_ Date Reported: \_\_\_\_\_ Chemist: \_\_\_\_\_



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 J. Mehser Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bc N Jr: R106 Name: P-41E1 (51...) County: CARROLL

Source of Sample: 111-... 2117 Street: \_\_\_\_\_ Town or City: \_\_\_\_\_ Collector: L. F. S.

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: ... tip  
... S. via

Field Data: County: 00 Plant No.:      Sampling Station:      Date Collected: 072788 Time: 7351 Acid:  Iced:  Chlorine Residual: 00 Free: 00 Total: 00 Specific Conductance:      pH\*: 6.0

✓	ANALYSIS	CODE	RESULTS	✓	ANALYSIS	CODE	RESULTS
✓	pH*	00403	6.0		Arsenic	01002	
✓	Alkalinity (Total)	00410	111		Barium	01007	
	pH*, Ca CO, SAT.	70311			Cadmium	01027	
	Alkalinity, Ca CO, SAT.	74023			Chromium	01034	
✓	Hardness	00900	51		Lead	01051	
	Ammonia-N	00608	1.02		Mercury	71900	
✓	Nitrate-Nitrate N	00630	1115		Selenium	01147	
✓	Nitrite N	00615	0.005		Silver	01077	
	MBAS	38260					
✓	Chloride	00940	111		Aluminum	01105	
	Fluoride	00951			Calcium	00916	
	Color*	00081			Copper	01042	
✓	Turbidity*	00076	1.05		Iron	01045	
✓	Conductance*, SPEC	00095	139		Magnesium	00927	
✓	Sulfate	00945	21		Manganese	01055	
✓	Total Solids	00500	106		Nickel	01067	
	Dissolved Solids	70300	102		Potassium	00937	
	COD		21		Sodium	00929	
	TIN		1.02		Zinc	01092	

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: \_\_\_\_\_ Date Reported: OCT 12 1988 Chemist: L. F. S.

AR102896

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston St.

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J. Mehsen Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

WATER ANALYSIS

Name: Be W E / (Tel) County: CARROLL

Source of Sample: 114-11 Street: \_\_\_\_\_ Town or City: \_\_\_\_\_ Collector: L. H. Jones

Sample Type (Circle): Community Source Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: From the Latrine Survey - Analysis w/ 5ml of Nitric Acid

County: 01 Plant No.:      Sampling Station:      Date Collected: 10-2-1960 Time: 14:15 Acid:  Iced:

Field Data: pH\*: 6.5 Chlorine Residual: 0.0 Free: 0.0 Total: 0.0 Specific Conductance:     

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
pH*	00403	6.5	Arsenic	01002	<0.01
Alkalinity (Total)	00410		Barium	01007	<0.1
pH*, Ca CO <sub>3</sub> SAT.	70311		Cadmium	01027	<0.01
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		Chromium	01034	<0.01
Hardness	00900		Lead	01051	<0.01
Ammonia-N	00608		Mercury	71900	<0.01
Nitrate-Nitrate N	00630		Selenium	01147	<0.01
Nitrite N	00615		Silver	01077	
MBAS	38260				
Chloride	00940		Aluminum	01105	
Fluoride	00951		Calcium	00916	
Color*	00081		Copper	01042	
Turbidity*	00078		Iron	01045	
Conductance*, SPEC	00095		Magnesium	00927	
Sulfate	00945		Manganese	01055	
Total Solids	00500		Nickel	01067	<0.01
Dissolved Solids	70300		Potassium	00937	<0.01
			Sodium	00929	
			Zinc	01092	

\*Results reported in units, all others in milligrams per liter (ppm)

AR102897

Date Received: \_\_\_\_\_ Date Reported: OCT 22 1960 Chemist: FAY

STATE OF MARYLAND  
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
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 J. Mehnen Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

WATER ANALYSIS

PI 109 Name: Rose County: Chesapeake

Source of Sample: 1210 St Street 1210 St Town or City 1210 St Collector: L. G. H.

Sample Type (Circle): Community Source Non-Community Distribution Private MCL Emergency Recheck Routine

Remarks: 1st 5 min composite sample

County  Plant No.  Sampling Station  Date Collected  Time  Acid  Iced

Field Data: pH\*  Chlorine Residual  Free  Total  Specific Conductance

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
pH*	00403	165	Arsenic	01002	
Alkalinity (Total)	00410	13	Barium	01007	
pH*, Ca CO <sub>3</sub> SAT.	70311		Cadmium	01027	
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		Chromium	01034	
Hardness	00900	33	Lead	01051	
Ammonia-N	00608	<0.2	Mercury	71900	
Nitrate-Nitrate N	00630	55	Selenium	01147	
Nitrite N	00615	0.004	Silver	01077	
MBAS	38260				
Chloride	00940	10	Aluminum	01105	
Fluoride	00951		Calcium	00916	
Color*	00081		Copper	01042	
Turbidity*	00076	1.8	Iron	01045	
Conductance*, SPEC	00095	102	Magnesium	00927	
Sulfate	00945	127	Manganese	01055	
Total Solids	00500	104	Nickel	01067	
Dissolved Solids	70300	84	Potassium	00937	
CO <sub>2</sub>		<10	Sodium	00929	
T.P.A.		<0.2	Zinc	01092	

\*Results reported in units, all others in milligrams per liter (ppm)

AR 102898

Date Received \_\_\_\_\_ Date Reported OCT 12 1999 Chemist \_\_\_\_\_

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 Laboratories Administration  
 201 W. Preston St.  
 P.O. Box 2355, Baltimore, Maryland 21203  
 J. Mehsen Joseph, Ph.D., Director

Lab No.                     

WATER ANALYSIS

Name: Burns County: Carroll

Address of Sample: 120 W. St. 111 S. Street Town or City:                      Collector: L. G. H. S.

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks:                     

1st time location sample - Accuracy of 5ml of Nitrate

County:  Plant No.:  Sampling Station:  Date Collected:  Time:  Acid:  Iced:

Field Data: pH:  Chlorine Residual:  Free:  Total:  Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
pH*	00403		✓ Arsenic	01002	
Alkalinity (Total)	00410		✓ Barium	01007	
pH*, Ca CO <sub>3</sub> SAT.	70311		✓ Cadmium	01027	
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		✓ Chromium	01034	
Hardness	00900		✓ Lead	01051	
Ammonia-N	00608		✓ Mercury	71900	
Nitrate-Nitrate N	00630		✓ Selenium	01147	
Nitrite N	00615		Silver	01077	
MBAS	38260				
Chloride	00940		Aluminum	01105	
Fluoride	00951		✓ Calcium	00918	
Color*	00081		✓ Copper	01042	
Turbidity*	00078		✓ Iron	01045	
Conductance*, SPEC	00095		✓ Magnesium	00927	
Sulfate	00945		✓ Manganese	01055	
Total Solids	00500		✓ Nickel	01067	
Dissolved Solids	70300		✓ Potassium	00937	
			Sodium	00929	
			✓ Zinc	01092	

\*Results reported in units, all others in milligrams per liter (ppm)

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 DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
 Laboratories Administration  
 201 W. Preston St.  
 P.O. Box 2355, Baltimore, Maryland 21203  
 J. Mehsen Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

WATER ANALYSIS

Be No. 113 Name: Harmon County: SPRING

Source of Sample: DW 14 Street: S. 14th St. Town or City: Harmon Collector: L. Baker

Sample Type (Circle): Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: 1. 100% CO2 in Spring

County:  Plant No.  Sampling Station  Date Collected: 09/28/00 Time: 1436 Acid  Iced

Field Data: pH\*  Chlorine Residual  Free  Total  Specific Conductance

✓	ANALYSIS	CODE	RESULTS	✓	ANALYSIS	CODE	RESULTS
✓	pH*	00403	5.8		Arsenic	01002	
✓	Alkalinity (Total)	00410	41		Barium	01007	
	pH*, Ca CO <sub>3</sub> SAT.	70311			Cadmium	01027	
	Alkalinity, Ca CO <sub>3</sub> SAT.	74023			Chromium	01034	
	Hardness	00900	31		Lead	01051	
	Ammonia-N	00608	0.02		Mercury	71900	
	Nitrate-Nitrate N	00630	146		Selenium	01147	
✓	Nitrite N	00615	0.005		Silver	01077	
	MBAS	38260					
✓	Chloride	00940	3		Aluminum	01105	
	Fluoride	00951			Calcium	00916	
	Color*	00081			Copper	01042	
✓	Turbidity*	00076	0.6		Iron	01045	
✓	Conductance*, SPEC	00095	0.6		Magnesium	00927	
✓	Sulfate	00945	78		Manganese	01055	
✓	Total Solids	00500	106		Nickel	01067	
✓	Dissolved Solids	70300	56		Potassium	00937	
			11		Sodium	00929	
			0.02		Zinc	01092	

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: \_\_\_\_\_ Date Reported: 09/28/00 Chemist: L. Baker **AR102900**

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration

201 W. Preston St.

P.O. Box 2355, Baltimore, Maryland 21203

J. Mehsen Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

WATER ANALYSIS

Order: 14-114 Name: Hanna County: Carroll

Source of Sample: 1111 1/2 W. P. ... Collector: L. H. ...  
Street Town or City

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Very low ... - Amount of Nit. Acid

County:  Plant No.:  Sampling Station:  Date Collected: 7-27-88 Time: 1:37 PM Acid:  Iced:   
 Field Data: pH\*: 6.5 Chlorine Residual:  Free:  Total:  Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
pH*	00403	6.5	<input checked="" type="checkbox"/> Arsenic	01002	
Alkalinity (Total)	00410		<input checked="" type="checkbox"/> Barium	01007	
pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	
Hardness	00900		<input checked="" type="checkbox"/> Lead	01051	
Ammonia-N	00608		<input checked="" type="checkbox"/> Mercury	71900	
Nitrate-Nitrate N	00630		Selenium	01147	
Nitrite N	00615		Silver	01077	
MBAS	38260				
Chloride	00940		Aluminum	01105	
Fluoride	00951		Calcium	00916	
Color*	00081		<input checked="" type="checkbox"/> Copper	01042	
Turbidity*	00076		<input checked="" type="checkbox"/> Iron	01045	
Conductance*, SPEC	00095		Magnesium	00927	
Sulfate	00945		Manganese	01055	
Total Solids	00500		Nickel	01067	
Dissolved Solids	70300		<input checked="" type="checkbox"/> Potassium	00937	
			<input checked="" type="checkbox"/> Sodium	00929	
			<input checked="" type="checkbox"/> Zinc	01092	

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: \_\_\_\_\_ Date Reported: OCT 28 1988 Chemist: ARI02901

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration

201 W. Preston St.

P.O. Box 2355, Baltimore, Maryland 21203

J. Mehser Joseph, Ph.D., Director

Lab No. 000

WATER ANALYSIS

Order: 1174 Name: PHILLIP County: Prince George's

Source of Sample: 1260 R. ... Street: ... Town or City: ... Collector: A. L. ...

Sample Type (Circle): Community Source  Non-Community Distribution   Private MCL  Emergency Recheck  Routine

Remarks: PHILLIP ...

Field Data:

County:  Plant No.:  Sampling Station:  Date Collected:  Time:  Acid:  Iced:

pH\*:  Chlorine Residual:  Free:  Total:  Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
✓ pH*	00403	7.1	Arsenic	01002	
✓ Alkalinity (Total)	00410		Barium	01007	
pH*, Ca CO <sub>3</sub> SAT.	70311		Cadmium	01027	
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		Chromium	01034	
Hardness	00900		Lead	01051	
Ammonia-N	00608		Mercury	71900	
✓ Nitrate-Nitrate N	00630		Selenium	01147	
✓ Nitrite N	00615		Silver	01077	
MBAS	38260				
✓ Chloride	00940	7	Aluminum	01105	
Fluoride	00951		Calcium	00916	
Color*	00081		Copper	01042	
✓ Turbidity*	00076		Iron	01045	
✓ Conductance*, SPEC	00095		Magnesium	00927	
✓ Sulfate	00945	31.4	Manganese	01055	
✓ Total Solids	00500		Nickel	01067	
✓ Dissolved Solids	70300		Potassium	00937	
			Sodium	00929	
			Zinc	01092	

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: \_\_\_\_\_ Date Reported: OCT 28 1988 Chemist: AR 102902

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration

201 West Preston St.

P.O. Box 2355, Baltimore, Maryland 21203

J. Mehsen Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

WATER ANALYSIS

er: RL-157 Name: P. I. County: Prince George's

Source of Sample: 1212 Street: \_\_\_\_\_ Town or City: \_\_\_\_\_ Collector: L. L. L...

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: LA-0711

Field Data:

County: 06 Plant No.: \_\_\_\_\_ Sampling Station: \_\_\_\_\_ Date Collected: 1/13/88 Time: 11:54 Acid:  Iced:

pH: 7.1 Chlorine Residual: \_\_\_\_\_ Free: 0.0 Total: 0.0 Specific Conductance: \_\_\_\_\_

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	7.1	Arsenic	01002	
<input checked="" type="checkbox"/> Alkalinity (Total)	00410	113	Barium	01007	
pH*, Ca CO <sub>3</sub> SAT.	70311		Cadmium	01027	
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		Chromium	01034	
Hardness	00900	113	Lead	01051	
Ammonia-N	00608		Mercury	71900	
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630		Selenium	01147	
<input checked="" type="checkbox"/> Nitrite N	00615		Silver	01077	
MBAS	38260				
<input checked="" type="checkbox"/> Chloride	00940		Aluminum	01105	
Fluoride	00951		Calcium	00916	
Color*	00081		Copper	01042	
<input checked="" type="checkbox"/> Turbidity*	00076		Iron	01045	
<input checked="" type="checkbox"/> Conductance*, SPEC	00095	113	Magnesium	00927	
<input checked="" type="checkbox"/> Sulfate	00945		Manganese	01055	
<input checked="" type="checkbox"/> Total Solids	00500		Nickel	01067	
<input checked="" type="checkbox"/> Dissolved Solids	70300		Potassium	00937	
<input checked="" type="checkbox"/> TKN			Sodium	00929	
<input checked="" type="checkbox"/> COD			Zinc	01092	

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: \_\_\_\_\_ Date Reported: JAN 28 1988 Chemist: ARI02903



Lab No. 0000

WATER ANALYSIS

Bottle number: 11-150 Name: SPRINGO County: CARROLL

Source of Sample: 150 R. 2nd St. W. 1st 21157 Collector: L. H. F. S.  
Street Town or City

Sample Type (Circle): Community Source Non-Community Distribution Private MCL Emergency Recheck Routine OUT S. OR TAP

Remarks: LANDFILL SUPPLY

County: 11 Plant No.:      Sampling Station:      Date Collected: 10/3/88 Time: 11:35 A Acid:  Iced:   
 Field Data: pH\*: 7.2 Chlorine Residual: Free 0.0 Total 0.0 Specific Conductance:     

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
✓ pH*	00403	7.2	✓ Arsenic	01002	
✓ Alkalinity (Total)	00410	115	Barium	01007	
pH*, Ca CO <sub>3</sub> SAT.	70311		Cadmium	01027	
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		Chromium	01034	
✓ Hardness	00900	115	Lead	01051	
Ammonia-N	00608		Mercury	71900	
✓ Nitrate-Nitrate N	00630	4	Selenium	01147	
✓ Nitrite N	00615		Silver	01077	
MBAS	38260				
✓ Chloride	00940	7	Aluminum	01105	
Fluoride	00951		Calcium	00916	
Color*	00081		Copper	01042	
✓ Turbidity*	00076		Iron	01045	
✓ Conductance*, SPEC	00095	115	Magnesium	00927	
✓ Sulfate	00945	227	Manganese	01055	
✓ Total Solids	00500	115	Nickel	01067	
✓ Dissolved Solids	70300	115	Potassium	00937	
TKN			Sodium	00929	
CO <sub>2</sub>			Zinc	01092	

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: 10/28/88 Date Reported: 10/28/88 Chemist: ARI02904

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION  
TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER ES990

Carroll  
Name of County

SOURCE OF SAMPLE 1211 Humbert rd, Newburg COLLECTOR Ed Singer

SAMPLE TYPE: \_\_\_\_\_ DISTRIBUTION \_\_\_\_\_ SOURCE \_\_\_\_\_ OTHER \_\_\_\_\_  
 Community \_\_\_\_\_ noncommunity \_\_\_\_\_ private   
 Landfill observation well \_\_\_\_\_ stream \_\_\_\_\_ tidal waters \_\_\_\_\_  
 Industrial effluent \_\_\_\_\_ STP sampling station \_\_\_\_\_ STP effluent \_\_\_\_\_  
 Chlorinated \_\_\_\_\_ preserved with thiosulfate \_\_\_\_\_  
 Reason for submitting sample: Trihalomethane Survey \_\_\_\_\_  
 Suspected Industrial Chemical Contamination \_\_\_\_\_  
 Suspected Petroleum (gasoline, etc.) Contamination \_\_\_\_\_  
 Other (Specify) Keystone Landfill, Please call 501-5000

REMARKS: \_\_\_\_\_

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TRANS TYPE	COUNTY		PLANT NO				SAMPLING STATION				DATE COLLECTED				CARD NO				

FIELD pH 062 FIELD RESID. CHLORINE: FREE 00 TOTAL 00

Purgeable Halocarbons (EPA 601)		Purgeable Aromatics (EPA 602)	
Chloromethane	<5	trans-1,3 Dichloropropene	<1
Bromomethane	<1	Trichloroethene	↓
Dichlorodifluoromethane	↓	Dibromochloromethane	↓
Vinyl chloride	↓	1,1,2-Trichloroethane	↓
Chloroethane	↓	cis-1,3 Dichloropropene	↓
Methylene chloride	↓	2-Chloroethylvinylether	<10
Trichlorofluoromethane	↓	Bromoform	<1
1,1-Dichloroethene	↓	1,1,2,2-Tetrachloroethane	↓
1,1-Dichloroethane	↓	Tetrachloroethene	↓
trans-1,2-Dichloroethene	↓	Chlorobenzene	↓
Chloroform	↓	Total Trihalomethanes	↓
1,2-Dichloroethane	↓	Other Purgeable Organics <u>N/A</u>	↓
1,1,1-Trichloroethane	↓		
Carbon Tetrachloride	↓		
Bromodichloromethane	↓		
1,2-Dichloropropane	↓		

JUL 05 1989

AR102905

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
LABORATORIES ADMINISTRATION  
TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER

ES 991

Carroll

Name of County

SOURCE OF SAMPLE

Bowen 1230 Humbert Schoolhouse Rd.

COLLECTOR

Ed Singer

SAMPLE TYPE:

DISTRIBUTION

SOURCE

OTHER

Community

noncommunity

private

(Specify)

Landfill observation well

stream

tidal waters

Industrial effluent

STP sampling station

STP effluent

Chlorinated

preserved with thiosulfate

Reason for submitting sample: Trihalomethane Survey

Suspected Industrial Chemical Contamination

Suspected Petroleum (gasoline, etc.) Contamination

Other (Specify)

Keystone Landfill, Please Run Full Scan

REMARKS:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	0	6									0	6	2	2	P	P		
TRANS TYPE	COUNTY		PLANT NO				SAMPLING STATION				DATE COLLECTED					CASE NO		

20	21	22	23	24	25	26
0	5	6	0	0	0	0
FIELD RESID. CHLORINE: FREE			TOTAL			

Purgeable Halocarbons (EPA 601)

Chloromethane	<5
Bromomethane	<1
Dichlorodifluoromethane	
Vinyl chloride	
Chloroethane	
Methylene chloride	
Trichlorofluoromethane	
1,1-Dichloroethene	
1,1-Dichloroethane	
trans-1,2-Dichloroethene	
Chloroform	
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon Tetrachloride	
Bromodichloromethane	
1,2-Dichloropropane	

trans-1,3-Dichloropropene	<1
Trichloroethene	
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethylvinylether	<10
Bromoform	<1
1,1,2,2-Tetrachloroethane	
Tetrachloroethene	
Chlorobenzene	
Total Trihalomethanes	
Other Purgeable Organics:	ND

Purgeable Aromatics (EPA 821)

Benzene	<1
Toluene	
Ethylbenzene	
Total Xylenes	<2
Total Purgeable Hydrocarbons	
Tetrahydrofuran	ND
Methylethylketone	
(2-Butanone) (MEK)	
Methylisobutylketone (MIBK)	

Results reported in micrograms per liter (parts per billion)

DATE RECEIVED JUN 23 1988

DATE REPORTED JUL 05 1988

CHEMIST W. J. ... LAB. NO. 102885032

**STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE**

**LABORATORIES ADMINISTRATION  
TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS**

BOTTLE NUMBER

ES 992

Carroll

Name of County

SOURCE OF SAMPLE

Power 1210 Humbert Chevrolet

COLLECTOR

SAMPLE TYPE:

DISTRIBUTION

SOURCE

OTHER

Community

noncommunity

private

(Specify)

Landfill observation well

stream

tidal waters

Industrial effluent

STP sampling station

STP effluent

Chlorinated

preserved with thiosulfate

Reason for submitting sample: Trihalomethane Survey

Suspected Industrial Chemical Contamination

Suspected Petroleum (gasoline, etc.) Contamination

Other (Specify) Keyctone Landfill, please run full scan

REMARKS:

1 TRANS TYPE	2 0	3 6	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	COUNTY		PLANT NO				SAMPLING STATION				DATE COLLECTED				YEAR			

20	21	22
0	5	6

FIELD RESID. CHLORINE FREE

23	24
0	0

TOTAL

25	26
0	6

**Purgeable Halocarbons (EPA 601)**

Chloromethane	<5
Bromomethane	<1
Dichlorodifluoromethane	
Vinyl chloride	
Chloroethane	
Methylene chloride	
Trichlorofluoromethane	
1,1-Dichloroethene	
1,1-Dichloroethane	
trans-1,2-Dichloroethene	
Chloroform	
1,2-Dichloroethane	
1,1-Trichloroethane	
Carbon Tetrachloride	
Bromodichloromethane	
1,2-Dichloropropane	

trans-1,3-Dichloropropene	<1
Trichloroethene	
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethylvinylether	<10
Bromoform	<1
1,1,2,2-Tetrachloroethane	
Tetrachloroethene	
Chlorobenzene	
Total Trihalomethanes	

**Other Purgeable Organics:**

methyl-tert-butyl-ether

**Purgeable Aromatics (EPA 602)**

Benzene	<1
Toluene	
Ethylbenzene	
Total Xylenes	<2
Total Purgeable Hydrocarbons	
Tetrahydrofuran	ND
Methylethylketone	
(2-Butanone) (MEK)	
Methylisobutylketone (MIBK)	

5

Results reported in micrograms per liter (parts per billion)

DATE RECEIVED

JUN 23 1988

DATE REPORTED

JUL 05 1988

CHEMIST

RI 102907 88567

LAB NO

**STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE**

**LABORATORIES ADMINISTRATION  
TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS**

BOTTLE NUMBER ES 993

Carroll  
Name of County

SOURCE OF SAMPLE Harman 1211 Humbert Schoolhouse Pl COLLECTOR Ed Singes

SAMPLE TYPE: \_\_\_\_\_ DISTRIBUTION \_\_\_\_\_ SOURCE \_\_\_\_\_ OTHER \_\_\_\_\_  
 Community \_\_\_\_\_ noncommunity \_\_\_\_\_ private   
 Landfill observation well \_\_\_\_\_ stream \_\_\_\_\_ tidal waters \_\_\_\_\_  
 Industrial effluent \_\_\_\_\_ STP sampling station \_\_\_\_\_ STP effluent \_\_\_\_\_  
 Chlorinated \_\_\_\_\_ preserved with thiosulfate \_\_\_\_\_  
 Reason for submitting sample: Trihalomethane Survey \_\_\_\_\_

Suspected Industrial Chemical Contamination \_\_\_\_\_

Suspected Petroleum (gasoline, etc.) Contamination \_\_\_\_\_

Other (specify) key done Landfill, please run full scan

REMARKS: \_\_\_\_\_

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TRANS TYPE		COUNTY		PLANT NO				SAMPLING STATION				DATE COLLECTED				CARD NO		
		06										06 2 2 8 2						
20	21	22	23	24	25	26	27											
FIELD pH	0	6	2	FIELD RESID. CHLORINE FREE	0	0	TOTAL	0	0									

**Purgeable Halocarbons (EPA 601)**

Chloromethane	<5
Bromomethane	<1
Dichlorodifluoromethane	
Vinyl chloride	
Chloroethane	
Methylene chloride	
Trichlorofluoromethane	
1,1-Dichloroethene	
1,1-Dichloroethane	
trans-1,2-Dichloroethene	
Chloroform	
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon Tetrachloride	
Bromodichloromethane	
1,2-Dichloropropane	

trans-1,3-Dichloropropene	
Trichloroethene	
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethylvinylether	<10
Bromoform	<1
1,1,2,2-Tetrachloroethane	
Tetrachloroethene	
Chlorobenzene	
Total Trihalomethanes	
Other Purgeable Organics:	ND

**Purgeable Aromatics (EPA 624)**

Benzene	1
Toluene	
Ethylbenzene	
Total Xylenes	2
Total Purgeable Hydrocarbons	
Tetrahydrofuran	ND
Methylethylketone	
(2-Butanone) (MEK)	
Methylisobutylketone (MIBK)	

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION  
TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER

ES994

Carroll

Name of County

SOURCE OF SAMPLE

Bechtel  
1140 Humbert Schoolhouse Rd

COLLECTOR

SAMPLE TYPE:

DISTRIBUTION

SOURCE

OTHER

Community

noncommunity

private

(Specify)

Landfill observation well

stream

tidal waters

Industrial effluent

STP sampling station

STP effluent

Chlorinated

preserved with thiosulfate

Reason for submitting sample:

Trihalomethane Survey

Suspected Industrial Chemical Contamination

Suspected Petroleum (gasoline, etc.) Contamination

Other (Specify) Keystone Landfill, please see full scan.

REMARKS:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TRANS TYPE		COUNTY		PLANT NO			SAMPLING STATION				DATE COLLECTED				CARD NO				

FIELD pH

20	21	22
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0	5	8

FIELD RESID. CHLORINE FREE

23	24
<input type="checkbox"/>	<input type="checkbox"/>
0	0

TOTAL

25	26
<input type="checkbox"/>	<input type="checkbox"/>
0	0

Purgeable Halocarbons (EPA 601)

Chloromethane	<5
Bromomethane	<1
Dichlorodifluoromethane	
Vinyl chloride	
Chloroethane	
Methylene chloride	
Trichlorofluoromethane	
1,1-Dichloroethene	↓
1,1-Dichloroethane	
trans-1,2-Dichloroethene	<1
Chloroform	↓
1,2-Dichloroethane	
1,1,1-Trichloroethane	3
Carbon Tetrachloride	<1
Bromodichloromethane	

trans-1,3-Dichloropropene	<1
Trichloroethene	
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	↓
2-Chloroethylvinylether	<10
Bromoform	<1
1,1,2,2-Tetrachloroethane	
Tetrachloroethene	
Chlorobenzene	↓
Total Trihalomethanes	
Other Purgeable Organics:	ND

Purgeable Aromatics (EPA 602)

Benzene	<1
Toluene	
Ethylbenzene	↓
Total Xylenes	2
Total Purgeable Hydrocarbons	
Tetrahydrofuran	ND
Methylethylketone	
1,2-Butanone (MEK)	↓
Methylisobutylketone (MIBK)	↓

ART02909

**STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE**

**LABORATORIES ADMINISTRATION  
TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS**

BOTTLE NUMBER ES995 Carroll  
Name of County

SOURCE OF SAMPLE Bechtel 1146 Humbert Schoolhouse COLLECTOR FL Singer

SAMPLE TYPE: \_\_\_\_\_ DISTRIBUTION \_\_\_\_\_ SOURCE \_\_\_\_\_ OTHER \_\_\_\_\_  
 Community \_\_\_\_\_ noncommunity ✓ private ✓ (Specify)  
 Landfill observation well \_\_\_\_\_ stream \_\_\_\_\_ tidal waters \_\_\_\_\_  
 Industrial effluent \_\_\_\_\_ STP sampling station \_\_\_\_\_ STP effluent \_\_\_\_\_  
 Chlorinated \_\_\_\_\_ preserved with thiosulfate \_\_\_\_\_  
 Reason for submitting sample: Trihalomethane Survey \_\_\_\_\_  
 Suspected Industrial Chemical Contamination \_\_\_\_\_  
 Suspected Petroleum (gasoline, etc.) Contamination \_\_\_\_\_  
 Other (specify) \_\_\_\_\_

REMARKS: Key stone Landfill, Please run full scan

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19  
                    
 TRANS COUNTY PLANT NO SAMPLING STATION DATE COLLECTED CASE NO

FIELD pH 20 21 22 23 24 25 26  
0 5 8 FIELD RESID. CHLORINE-FREE 0 0 TOTAL 0 0

Purgeable Halocarbons (EPA 601)		Purgeable Aromatics (EPA 602)	
Chloromethane	<5	trans-1,3-Dichloropropene	<1
Bromomethane	<1	Trichloroethene	↓
Dichlorodifluoromethane	↓	Dibromochloromethane	↓
Vinyl chloride	↓	1,1,2-Trichloroethane	↓
Chloroethane	↓	cis-1,3-Dichloropropene	↓
Methylene chloride	↓	2-Chloroethylvinylether	<10
Trichlorofluoromethane	↓	Bromoform	<1
1,1-Dichloroethene	↓	1,1,2,2-Tetrachloroethane	↓
1,1-Dichloroethane	↓	Tetrachloroethene	↓
trans-1,2-Dichloroethene	<1	Chlorobenzene	↓
Chloroform	↓	Total Trihalomethanes	↓
1,2-Dichloroethane	↓	Other Purgeable Organics: <u>ND</u>	↓
1,1,1-Trichloroethane	3		
Carbon Tetrachloride	<1		
Bromodichloromethane	↓		

**AR102910**

**STATE OF MARYLAND**  
**DEPARTMENT OF HEALTH AND MENTAL HYGIENE**

**LABORATORIES ADMINISTRATION**  
**TRACE ORGANICS LABORATORY**  
**VOLATILE ORGANICS ANALYSIS**

BOTTLE NUMBER ES 997

Carroll  
Name of County

SOURCE OF SAMPLE Bechtel  
1128 Humbert Schoolhouse COLLECTOR Ed Singer

SAMPLE TYPE: \_\_\_\_\_ DISTRIBUTION \_\_\_\_\_ SOURCE \_\_\_\_\_ OTHER \_\_\_\_\_  
 Community \_\_\_\_\_ noncommunity \_\_\_\_\_ private   
 Landfill observation well \_\_\_\_\_ stream \_\_\_\_\_ tidal waters \_\_\_\_\_  
 Industrial effluent \_\_\_\_\_ STP sampling station \_\_\_\_\_ STP effluent \_\_\_\_\_  
 Chlorinated \_\_\_\_\_ preserved with thiosulfate \_\_\_\_\_  
 Reason for submitting sample: Trihalomethane Survey \_\_\_\_\_  
 Suspected Industrial Chemical Contamination \_\_\_\_\_  
 Suspected Petroleum (gasoline, etc.) Contamination \_\_\_\_\_  
 Other (Specify) Keystone Landfill, Meate for full scan

REMARKS: \_\_\_\_\_

1 TRANS TYPE	2 0	3 6	4 PLANT NO	5	6	7	8 SAMPLING STATION	9	10	11	12 0	13 6	14 2	15 0	16 3	17 3	18 CARO NO	19	20
-----------------	--------	--------	---------------	---	---	---	-----------------------	---	----	----	---------	---------	---------	---------	---------	---------	---------------	----	----

FIELD pH 

20	21	22
0	6	0

 FIELD RESID. CHLORINE: FREE 

23	24
0	0

 TOTAL 

25	26
0	0

**Purgeable Halocarbons (EPA 601)**

Chloromethane	<5
Bromomethane	<1
Dichlorodifluoromethane	
Vinyl chloride	
Chloroethane	
Methylene chloride	
Trichlorofluoromethane	
1,1-Dichloroethene	
1,1-Dichloroethane	
trans-1,2-Dichloroethene	
Chloroform	
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon Tetrachloride	
Bromodichloromethane	

trans 1,3 Dichloropropene	<1
Trichloroethene	
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3 Dichloropropene	
2-Chloroethylvinylether	≤ 10
Bromoform	<1
1,1,2,2-Tetrachloroethane	
Tetrachloroethane	
Chlorobenzene	
Total Trihalomethanes	
Other Purgeable Organics:	ND

**Purgeable Aromatics (EPA 816)**

Benzene	<1
Toluene	
Ethylbenzene	
Total Xylenes	<2
Total Purgeable Hydrocarbons	
Tetrahydrofuran	ND
Methylethylketone	
12-Butanone (MEK)	
Methylisobutylketone (MIBK)	

ART029TT



**STATE OF MARYLAND**  
**DEPARTMENT OF HEALTH AND MENTAL HYGIENE**

**LABORATORIES ADMINISTRATION**  
**TRACE ORGANICS LABORATORY**  
**VOLATILE ORGANICS ANALYSIS**

BOTTLE NUMBER ES998

Carroll  
Name of County

SOURCE OF SAMPLE POWERS 941 Humbert + Schickelhus Rd COLLECTOR Ed Singer

SAMPLE TYPE: \_\_\_\_\_ DISTRIBUTION \_\_\_\_\_ SOURCE \_\_\_\_\_ OTHER \_\_\_\_\_  
 Community \_\_\_\_\_ noncommunity \_\_\_\_\_ private  \_\_\_\_\_ (Specify)  
 Landfill observation well \_\_\_\_\_ stream \_\_\_\_\_ tidal waters \_\_\_\_\_  
 Industrial effluent \_\_\_\_\_ STP sampling station \_\_\_\_\_ STP effluent \_\_\_\_\_  
 Chlorinated \_\_\_\_\_ preserved with thiosulfate \_\_\_\_\_  
 Reason for submitting sample: Trihalomethane Survey \_\_\_\_\_

Suspected Industrial Chemical Contamination \_\_\_\_\_  
 Suspected Petroleum (gasoline, etc.) Contamination \_\_\_\_\_  
 Other (Specify) Keystone Landfill, Please Run Full Scan

REMARKS: \_\_\_\_\_

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TRANS TYPE	COUNTY		PLANT NO				SAMPLING STATION				DATE COLLECTED				FIELD NO			
	0	6									0	6	2	2	8	8		
FIELD pH	20	21	22	FIELD RESID. CHLORINE FREE						23	24	TOTAL		25	26			
0	6	0							0	6	0		5					

Purgeable Halocarbons (EPA 601)			Purgeable Aromatics (EPA 602)		
Chloromethane	<5	trans-1,3-Dichloropropene	<1	Benzene	<1
Bromomethane	<1	Trichloroethene		Toluene	
Dichlorodifluoromethane		Dibromochloromethane		Ethylbenzene	
Vinyl chloride		1,1,2-Trichloroethane		Total Xylenes	<2
Chloroethane		cis-1,3-Dichloropropene		Total Purgeable Hydrocarbons	
Methylene chloride		2-Chloroethylvinylether	<10	Tetrahydrofuran	ND
Trichlorofluoromethane		Bromoform	<1	Methylethylketone	
1,1-Dichloroethene		1,1,2,2-Tetrachloroethane	<1	(2-Butanone) (MEK)	
1,1-Dichloroethane		Tetrachloroethene		Methylisobutylketone (MIBK)	
trans-1,2-Dichloroethene		Chlorobenzene	<1		
Chloroform		Total Trihalomethanes			
1,2-Dichloroethane		Other Purgeable Organics: ND			
1,1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					

AR102912

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION  
TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER

ES999

Carroll

Name of County

SOURCE OF SAMPLE

Powers  
941 Humbert Schoolhouse Rd

COLLECTOR

Ed Singer

SAMPLE TYPE:

DISTRIBUTION

SOURCE

OTHER  
(specify)

Community

noncommunity

private

Landfill observation well

stream

tidal waters

Industrial effluent

STP sampling station

STP effluent

Chlorinated

preserved with thiosulfate

Reason for submitting sample:

Trihalomethane Survey

Suspected Industrial Chemical Contamination

Suspected Petroleum (gasoline, etc.) Contamination

Other (specify)

Keystone Landfill, Please see full scan

REMARKS:

1 TRAFFIC TYPE	2 3 COUNTY	4 5 6 7 PLANT NO	8 9 10 11 SAMPLING STATION	12 13 14 15 16 17 DATE COLLECTED	18 19 FIELD NO
	06			06 27 88	

20 FIELD pH	21	22
060		

FIELD RESID. CHLORINE: FREE

23	24
00	

TOTAL

25	26
00	

Purgeable Halocarbons (EPA 601)

Chloromethane	<5
Bromomethane	<1
Dichlorodifluoromethane	
Vinyl chloride	
Chloroethane	
Methylene chloride	
Trichlorofluoromethane	
1,1-Dichloroethene	
1,1-Dichloroethane	
trans-1,2-Dichloroethene	
Chloroform	
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon Tetrachloride	
Bromodichloromethane	

trans 1,3-Dichloropropene	<1
Trichloroethene	
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethylvinylether	<10
Bromoform	<1
1,1,2,2-Tetrachloroethane	<1
Tetrachloroethene	1
Chlorobenzene	<1
Total Trihalomethanes	
Other Purgeable Organics:	ND

Purgeable Aromatics (EPA 821)

Benzene	<1
Toluene	
Ethylbenzene	
Total Xylenes	<2
Total Purgeable Hydrocarbons	
Tetrahydrofuran	ND
Methylethylketone	
12-Butanone (MEK)	
Methylisobutylketone (MIBK)	

ART02913

**STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE**

LABORATORIES ADMINISTRATION  
TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER ES99C Carroll  
Name of County

SOURCE OF SAMPLE Bechtel 1128 Humbert school house Rd COLLECTOR Ed Singer

SAMPLE TYPE: \_\_\_\_\_ DISTRIBUTION \_\_\_\_\_ SOURCE \_\_\_\_\_ OTHER \_\_\_\_\_  
 Community \_\_\_\_\_ noncommunity \_\_\_\_\_ private   
 Landfill observation well \_\_\_\_\_ stream \_\_\_\_\_ tidal waters \_\_\_\_\_  
 Industrial effluent \_\_\_\_\_ STP sampling station \_\_\_\_\_ STP effluent \_\_\_\_\_  
 Chlorinated \_\_\_\_\_ preserved with thiosulfate \_\_\_\_\_  
 Reason for submitting sample: Trihalomethane Survey \_\_\_\_\_

**RECEIVED**

JUL 20 1988

Suspected Industrial Chemical Contamination \_\_\_\_\_  
 Suspected Petroleum (gasoline, etc.) Contamination \_\_\_\_\_  
 Other (specify) Keystone Landfill, please run full scan ENFORCEMENT FILE  
 REMARKS: scan FILE COPY ONLY

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	0	C									0	6	2	2	8	8		
TRANS TYPE	COUNTY		PLANT NO				SAMPLING STATION				DATE COLLECTED						CARD NO	

FIELD pH 060 FIELD RESID. CHLORINE: FREE 00 TOTAL 08

**Purgeable Halocarbons (EPA 601)**

Chloromethane	25
Bromomethane	21
Dichlorodifluoromethane	
Vinyl chloride	
Chloroethane	
Methylene chloride	
Trichlorofluoromethane	
1,1-Dichloroethene	
1,1-Dichloroethane	
trans-1,2-Dichloroethene	
Chloroform	
1,2-Dichloroethane	
1,1,1-Trichloroethane	
Carbon Tetrachloride	
Bromodichloromethane	
1,2-Dichloroethane	

trans-1,3-Dichloropropene	21
Trichloroethene	
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethylvinylether	210
Bromoform	21
1,1,2,2-Tetrachloroethane	
Tetrachloroethene	
Chlorobenzene	
Total Trihalomethanes	
Other Purgeable Organics:	ND

**Purgeable Aromatics (EPA 604)**

Benzene	4
Toluene	
Ethylbenzene	
Total Xylenes	22
Total Purgeable Hydrocarbons	
Tetrahydrofuran	ND
Methylethylketone	
1,2-Butanone (MEK)	
Methylisobutylketone (MIBK)	

AR102914



STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Hansen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M.D.W-2 COLLECTOR Belloni Carroll County

SOURCE OF SAMPLE Leystone  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well  Stream \_\_\_\_\_ Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 1+1 HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 3/14/93  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Belloni 2/10/89 To J. Carmin 2:00 PM 6-21-83  
From \_\_\_\_\_ To \_\_\_\_\_

REMARKS: 1 Copies to Ronald Nelson Only

1			2			3			4			5			6			7			8			9			10			11			12			13			14			15			16			17			18			19			20		
TRANS TYPE			COUNTY			PLANT NO			SAMPLING STATION			DATE COLLECTED			CARD NO			FIELD SM			FIELD RESID. CHLORINE FREE			TOTAL			FIELD RESID. CHLORINE FREE			TOTAL			FIELD RESID. CHLORINE FREE			TOTAL																							
									W2			062188																																															

Purgeable Halocarbons (EPA)		Other Purgeables	
Chloromethane	<u>&lt;5</u>	trans-1,3-Dichlorobenzene	<u>&lt;1</u>
Bromomethane	<u>&lt;1</u>	Trichlorobenzene	<u>1</u>
Dichlorodifluoromethane	_____	Dibromodichloromethane	<u>&lt;1</u>
Vinyl chloride	_____	1,1-Dichloroethane	<u>1</u>
Chloroethane	_____	cis-1,3-Dichlorobenzene	<u>10</u>
Methylene chloride	_____	2-Chloroethanol, any ether	<u>&lt;1</u>
Trichlorofluoromethane	_____	Bromobenzene	<u>&lt;1</u>
1,1-Dichloroethene	<u>3</u>	1,1,2,2-Tetrachloroethane	<u>&lt;1</u>
1,1-Dichloroethane	<u>&lt;1</u>	Tetrachloroethene	<u>10</u>
trans-1,2-Dichloroethene	<u>3</u>	Chlorobenzene	_____
Chloroform	<u>&lt;1</u>	Total Trihalomethanes	_____
1,2-Dichloroethane	_____	Other Purgeable Organics:	<u>ND</u>
1,1,1-Trichloroethane	_____	Benzene	<u>&lt;1</u>
Carbon Tetrachloride	_____	Toluene	<u>2</u>
Bromodichloromethane	_____	Ethyl benzene	<u>&lt;1</u>
1,2-Dichloropropane	<u>3</u>	Total Purgeable Hydrocarbons	<u>&lt;2</u>
_____	_____	Tetrahydrofuran	<u>ND</u>
_____	_____	(2-Butanone MEK)	_____
_____	_____	Methylsilyl ketone (MSK)	_____
_____	_____	Acrolein	_____
_____	_____	Acrylonitrile	_____
_____	_____	Carbon Disulfide	_____
_____	_____	Vinyl Acetate	_____
_____	_____	Acetone	_____
_____	_____	2-Hexanone	_____
_____	_____	Styrene	<u>1</u>

AHE029TG



STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mehsan Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M.D.W-4 COLLECTOR Belloni Carroll County

SOURCE OF SAMPLE Keystone  
(Include Address)

SAMPLE TYPE: Community  Noncommunity  Domestic  STP Station   
Observation Well  Stream  Tidal Waters  Industrial Effluent   
Other (Specify) \_\_\_\_\_  
Preservative Used 1+1 HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 3/14/93  
Reason for submitting sample: Survey  Suspected Petroleum Contamination   
Suspected Industrial Chemical Contamination  Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Belloni 7:00 4/21/84 To G. Carver 2:00 11-21-84  
From \_\_\_\_\_ To \_\_\_\_\_

REMARKS: Copies to Ronald Nelson Only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TRANS TYPE			COUNTY			PLANT NO			SAMPLING STATION			DATE COLLECTED			CARD NO			
20 21 22						W4			062188									

FIELD RESID CHLORINE FREE \_\_\_\_\_ TOTAL \_\_\_\_\_

Purgeable Halocarbons (EPA)	Concentration	Other Purgeables	Concentration
Chloromethane	<5	Benzene	<1
Bromomethane	<1	Toluene	<1
Dichlorodifluoromethane	↓	Ethylbenzene	<1
Vinyl chloride	↓	o-Xylene	<1
Chloroethane	↓	m-Xylene	<1
Methylene chloride	↓	p-Xylene	<1
Trichlorofluoromethane	↓	Styrene	<1
1,1-Dichloroethene	↓	1,2-Dichlorobenzene	<1
1,1-Dichloroethane	↓	1,2,4-Trichlorobenzene	<1
trans-1,2-Dichloroethene	↓	1,2,4,5-Tetrachlorobenzene	<1
Chloroform	↓	1,2,3,4-Tetrachlorobenzene	<1
1,2-Dichloroethane	↓	1,2,3,5-Tetrachlorobenzene	<1
1,1,1-Trichloroethane	↓	1,2,3,6-Tetrachlorobenzene	<1
Carbon Tetrachloride	↓	1,2,3,7-Tetrachlorobenzene	<1
Bromodichloromethane	↓	1,2,3,8-Tetrachlorobenzene	<1
1,2-Dichloropropane	↓	1,2,3,9-Tetrachlorobenzene	<1
		1,2,3,10-Tetrachlorobenzene	<1
		1,2,3,11-Tetrachlorobenzene	<1
		1,2,3,12-Tetrachlorobenzene	<1
		1,2,3,13-Tetrachlorobenzene	<1
		1,2,3,14-Tetrachlorobenzene	<1
		1,2,3,15-Tetrachlorobenzene	<1
		1,2,3,16-Tetrachlorobenzene	<1
		1,2,3,17-Tetrachlorobenzene	<1
		1,2,3,18-Tetrachlorobenzene	<1
		1,2,3,19-Tetrachlorobenzene	<1
		1,2,3,20-Tetrachlorobenzene	<1
		1,2,3,21-Tetrachlorobenzene	<1
		1,2,3,22-Tetrachlorobenzene	<1
		1,2,3,23-Tetrachlorobenzene	<1
		1,2,3,24-Tetrachlorobenzene	<1
		1,2,3,25-Tetrachlorobenzene	<1
		1,2,3,26-Tetrachlorobenzene	<1
		1,2,3,27-Tetrachlorobenzene	<1
		1,2,3,28-Tetrachlorobenzene	<1
		1,2,3,29-Tetrachlorobenzene	<1
		1,2,3,30-Tetrachlorobenzene	<1
		1,2,3,31-Tetrachlorobenzene	<1
		1,2,3,32-Tetrachlorobenzene	<1
		1,2,3,33-Tetrachlorobenzene	<1
		1,2,3,34-Tetrachlorobenzene	<1
		1,2,3,35-Tetrachlorobenzene	<1
		1,2,3,36-Tetrachlorobenzene	<1
		1,2,3,37-Tetrachlorobenzene	<1
		1,2,3,38-Tetrachlorobenzene	<1
		1,2,3,39-Tetrachlorobenzene	<1
		1,2,3,40-Tetrachlorobenzene	<1
		1,2,3,41-Tetrachlorobenzene	<1
		1,2,3,42-Tetrachlorobenzene	<1
		1,2,3,43-Tetrachlorobenzene	<1
		1,2,3,44-Tetrachlorobenzene	<1
		1,2,3,45-Tetrachlorobenzene	<1
		1,2,3,46-Tetrachlorobenzene	<1
		1,2,3,47-Tetrachlorobenzene	<1
		1,2,3,48-Tetrachlorobenzene	<1
		1,2,3,49-Tetrachlorobenzene	<1
		1,2,3,50-Tetrachlorobenzene	<1
		1,2,3,51-Tetrachlorobenzene	<1
		1,2,3,52-Tetrachlorobenzene	<1
		1,2,3,53-Tetrachlorobenzene	<1
		1,2,3,54-Tetrachlorobenzene	<1
		1,2,3,55-Tetrachlorobenzene	<1
		1,2,3,56-Tetrachlorobenzene	<1
		1,2,3,57-Tetrachlorobenzene	<1
		1,2,3,58-Tetrachlorobenzene	<1
		1,2,3,59-Tetrachlorobenzene	<1
		1,2,3,60-Tetrachlorobenzene	<1
		1,2,3,61-Tetrachlorobenzene	<1
		1,2,3,62-Tetrachlorobenzene	<1
		1,2,3,63-Tetrachlorobenzene	<1
		1,2,3,64-Tetrachlorobenzene	<1
		1,2,3,65-Tetrachlorobenzene	<1
		1,2,3,66-Tetrachlorobenzene	<1
		1,2,3,67-Tetrachlorobenzene	<1
		1,2,3,68-Tetrachlorobenzene	<1
		1,2,3,69-Tetrachlorobenzene	<1
		1,2,3,70-Tetrachlorobenzene	<1
		1,2,3,71-Tetrachlorobenzene	<1
		1,2,3,72-Tetrachlorobenzene	<1
		1,2,3,73-Tetrachlorobenzene	<1
		1,2,3,74-Tetrachlorobenzene	<1
		1,2,3,75-Tetrachlorobenzene	<1
		1,2,3,76-Tetrachlorobenzene	<1
		1,2,3,77-Tetrachlorobenzene	<1
		1,2,3,78-Tetrachlorobenzene	<1
		1,2,3,79-Tetrachlorobenzene	<1
		1,2,3,80-Tetrachlorobenzene	<1
		1,2,3,81-Tetrachlorobenzene	<1
		1,2,3,82-Tetrachlorobenzene	<1
		1,2,3,83-Tetrachlorobenzene	<1
		1,2,3,84-Tetrachlorobenzene	<1
		1,2,3,85-Tetrachlorobenzene	<1
		1,2,3,86-Tetrachlorobenzene	<1
		1,2,3,87-Tetrachlorobenzene	<1
		1,2,3,88-Tetrachlorobenzene	<1
		1,2,3,89-Tetrachlorobenzene	<1
		1,2,3,90-Tetrachlorobenzene	<1
		1,2,3,91-Tetrachlorobenzene	<1
		1,2,3,92-Tetrachlorobenzene	<1
		1,2,3,93-Tetrachlorobenzene	<1
		1,2,3,94-Tetrachlorobenzene	<1
		1,2,3,95-Tetrachlorobenzene	<1
		1,2,3,96-Tetrachlorobenzene	<1
		1,2,3,97-Tetrachlorobenzene	<1
		1,2,3,98-Tetrachlorobenzene	<1
		1,2,3,99-Tetrachlorobenzene	<1
		1,2,3,100-Tetrachlorobenzene	<1

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mosen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

FILE NUMBER M.D. W-5 COLLECTOR Belloni Carroll  
County

SOURCE OF SAMPLE Lepton  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well  Stream \_\_\_\_\_ Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 1+1 HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 3/14/93  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_

CHAIN OF CUSTODY: From A Belloni 2:00 4/21/93 City/Spec. 9 Carroll 12:00 PM/4-21-93  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: Copies to Ronald Nelson Only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
TRANS TYPE			COUNTY			PLANT NO			SAMPLE NO			DATE COLLECTED			LAB NO		
20			21			22			23			24			25		

FIELD RESID. CHLORINE FREE \_\_\_\_\_ TOTAL \_\_\_\_\_

Purgeable Halocarbons (EPA)	601	Other Purgeables
Chloromethane	<5	Benzene
Bromomethane	<1	Toluene
Dichlorodifluoromethane		o-xylene
Vinyl chloride		m-xylene
Chloroethane		p-xylene
Methylene chloride		1,2,4-trichlorobenzene
Trichlorofluoromethane		1,3,5-trichlorobenzene
1,1-Dichloroethene		1,2,4,6-tetrachlorobenzene
1,1-Dichloroethane		1,2,3,4-tetrachlorobenzene
trans-1,2-Dichloroethene		Chlorobenzene
Chloroform		Total Trihalomethanes
1,2-Dichloroethane		Other Purgeable Organics: ND
1,1,1-Trichloroethane		
Carbon Tetrachloride		
Bromodichloromethane		
1,2-Dichloropropane		



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DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
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J. Menses Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M.D.W-6 COLLECTOR Bellusi Carroll County

SOURCE OF SAMPLE Lepton  
(Include Address)

SAMPLE TYPE: Community  Noncommunity  Domestic  STP Station   
Observation Well  Stream  Tidal Waters  Industrial Effluent   
Other (Specify) \_\_\_\_\_  
Preservative Used 1+1 HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 3/14/93  
Reason for submitting sample: Survey  Suspected Petroleum Contamination   
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Bellusi 2:00 4/21/93 To J. Carmon 2:00 10/16-21/93  
From \_\_\_\_\_ To \_\_\_\_\_

REMARKS: 1 Copies to Ronald Watson only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
TRANS TYPE			COUNTY			PLANT NO			SAMPLING STATION			DATE COLLECTED			DARD NO			
20 21 22									WG			062193						

FIELD	FIELD RESID	CHLORINE FREE	TOTAL	Other Purgeables
<b>Purgeable Halocarbons (EPA)</b>	<u>6611</u>			
Chloroethane	<u>&lt;5</u>	trans-1,3-Dichloroethane	<u>&lt;1</u>	Benzene
Bromoethane	<u>&lt;1</u>	Trichloroethane		Toluene
Dichlorodifluoroethane		Dibromodifluoroethane		Ethylbenzene
Vinyl chloride		1,1,2-Trichloroethane		Triethylamine
Chloroethane		cis-1,3-Dichloroethane		1,1,1-Trichloroethane
Methylene chloride		2-Chloroethanol	<u>&lt;10</u>	Tetrahydrofuran
Trichlorofluoroethane		Bromoform	<u>&lt;1</u>	1,4-Dioxane
1,1-Dichloroethane		1,1,2,2-Tetrachloroethane		Methyl isobutyl ketone (MIBK)
1,1-Dichloroethane		Tetrachloroethane		Acrolein
trans-1,2-Dichloroethane		Chlorobenzene		Acrylonitrile
Chloroform		Total Trihalomethanes		Carbon Disulfide
1,2-Dichloroethane		Other Purgeable Organics: <u>ND</u>		Vinyl Acetate
1,1,1-Trichloroethane				Acetone
Carbon Tetrachloride				2-Hexanone
Bromodichloroethane				Styrene
1,2-Dichloropropane	<u>∇</u>			

AR102920

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DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mehser Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

FILE NUMBER M.D. W-7 COLLECTOR Belloni Carroll  
County

SOURCE OF SAMPLE Kepters  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well  Stream \_\_\_\_\_ Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 1+1 HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 3/14/88  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Belloni 2:00 4/1/88 To Comins 12:00 PM 6-21-88  
From \_\_\_\_\_ To \_\_\_\_\_

REMARKS: 177  
1 Copies to Ronald Nelson Only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TRANS TYPE		COUNTY		PLANT NO.			SAMPLING STATION				DATE COLLECTED				CARD NO.			
							<u>W7</u>				<u>062188</u>				<u>062125634</u>			
20 21 22							23 24				25 26							

FIELD CHLORINE FREE \_\_\_\_\_ TOTAL \_\_\_\_\_

Purgeable Halocarbons (EPA 8160)			Other Purgeables		
Chloromethane	<u>CL</u>	trans-1,3-Dichloroethane	<u>CL</u>	Benzene	<u>CL</u>
Bromomethane	_____	Trichloroethane	_____	Toluene	_____
Dichlorodifluoromethane	_____	Dibromochloromethane	_____	Ethylbenzene	_____
Vinyl chloride	_____	1,1,2-Trichloroethane	_____	Tert. Xylenes	<u>CL</u>
Chloroethane	_____	cis-1,3-Dichloropropane	_____	Total Purgeable Halocarbons	_____
Methylene chloride	_____	2-Chloroethanol	_____	Tetrahydrofuran	<u>ND</u>
Trichlorofluoromethane	_____	Bromoform	_____	2-Butanone (MEK)	_____
1,1-Dichloroethene	_____	1,1,2,2-Tetrachloroethane	_____	Methylisobutylketone (MIBK)	_____
1,1-Dichloroethane	_____	Tetrachloroethene	_____	Acrolein	_____
trans-1,2-Dichloroethene	_____	Chlorobenzene	_____	Acrylonitrile	_____
Chloroform	_____	Total Trihalomethanes	_____	Carbon Disulfide	_____
1,2-Dichloroethane	_____	Other Purgeable Organics: <u>ND</u>	_____	Vinyl Acetate	_____
1,1,1-Trichloroethane	_____	_____	_____	Acetone	_____
Carbon Tetrachloride	_____	_____	_____	2-Hexanone	_____
Bromodichloromethane	_____	_____	_____	Styrene	_____
1,2-Dichloropropane	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

AR102921

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DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mehson Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M.D.W-8 COLLECTOR Belloni Carroll County

SOURCE OF SAMPLE Vegetable  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well  Stream \_\_\_\_\_ Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 1+1 HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 3/14/98  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Belloni 2:00 4/21/98 To Carroll 2:00 PM 6-21-98  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: 1 Copies to Ronald Nelson ONLY

1 TRANS TYPE	2 COUNTY	3	4 PLANT NO	5	6	7	8 SAMPLING STATION	9	10	11 <u>W9</u>	12	13	14 DATE COLLECTED	15	16	17 <u>062198</u>	18	19	20 DARD NO
20 FIELD PH	21	22	FIELD RESID. CHLORINE FREE				TOTAL				<u>062198</u>								

Purgeable Halocarbons (EPA 8240)			Other Purgeables		
Chloromethane	<u>&lt;1.</u>	trans-1,3-Dichloropropene	<u>&lt;1.</u>	Benzene	<u>&lt;1.</u>
Bromomethane		Trichloroethene		Toluene	
Dichlorodifluoromethane		Dibromochloromethane		Ethylbenzene	
Vinyl chloride		1,1,2-Trichloroethane		Total Chlorine	<u>22</u>
Chloroethane		cis-1,3-Dichloropropene		Total Purgeable Hydrocarbons	<u>ND</u>
Methylene chloride		2-Chloroethyl ether		Tetrahydrofuran	
Trichlorofluoromethane		Bromoform		2-Butanone (MEK)	
1,1-Dichloroethene		1,1,2,2-Tetrachloroethane		Methylsulfolone (MSF)	
1,1-Dichloroethane		Tetrachloroethene		Acrolein	
trans-1,2-Dichloroethene		Chlorobenzene		Acrylonitrile	
Chloroform		Total Trihalomethanes		Carbon Disulfide	
1,2-Dichloroethane		Other Purgeable Organics: <u>ND</u>		Vinyl Acetate	
1,1,1-Trichloroethane				Acetone	
Carbon Tetrachloride				2-Hexanone	
Bromodichloromethane				Styrene	
1,2-Dichloropropane					

ART02922

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DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mense Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

TITLE NUMBER M.D.W-9 COLLECTOR Belloni Carroll County

SOURCE OF SAMPLE Lepton  
(Include Address)

SAMPLE TYPE: Community  Noncommunity  Domestic  STP Station   
Observation Well  Stream  Tidal Waters  Industrial Effluent   
Other (Specify) \_\_\_\_\_  
Preservative Used 1+1 HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 3/14/88  
Reason for submitting sample: Survey  Suspected Petroleum Contamination   
Suspected Industrial Chemical Contamination  Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Belloni J.A. To Carroll J. Date 6-21-88  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: 1. Copies to Ronald Nelson Only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
TRANS TYPE			COUNTY			PLANT NO.			SAMPLE STATE			DATE COLLECTED			CARD NO.			
									<u>W9</u>			<u>062188</u>						

0621NS636

FIELD CHLORINE FREE TOTAL

Purgeable Halocarbons (EPA 8240)	FIELD CHLORINE FREE	TOTAL	Other Purgeables	
Chloromethane	<1	<1	Benzene	<1
Bromomethane	↓	↓	Toluene	↓
Dichlorodifluoromethane	↓	↓	Ethylbenzene	↓
Vinyl chloride	↓	↓	Total Xylenes	<2
Chloroethane	↓	↓	Total Purgeable Halocarbons	ND
Methylene chloride	↓	↓	Tetrahydrofuran	↓
Trichlorofluoromethane	↓	↓	2-Butanone (MEK)	↓
1,1-Dichloroethene	↓	↓	Methyl isobutyl ketone (MIBK)	↓
1,1-Dichloroethane	↓	↓	Acrolein	↓
trans-1,2-Dichloroethene	↓	↓	Acrylonitrile	↓
Chloroform	↓	↓	Carbon Disulfide	↓
1,2-Dichloroethane	↓	↓	Vinyl Acetate	↓
1,1,1-Trichloroethane	↓	↓	Acetone	↓
Carbon Tetrachloride	↓	↓	2-Hexanone	↓
Bromodichloromethane	↓	↓	Styrene	↓
1,2-Dichloropropane	↓	↓		

ART02923

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Laboratories Administration  
201 W. Preston Street

J. Mehsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M.D. S-1 COLLECTOR Bellum Carroll County

SOURCE OF SAMPLE Keystone  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well \_\_\_\_\_ Stream  Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 1+1 HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 3/4/88  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Bellum 2:00 6/1/88 To Garrison 12:00/6/21/88

REMARKS: Copies to Ronald Nelson Only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
								S	I		0	6	2	1	8	8		
TRANS TYPE			COUNTY				PLANT NO				DATE COLLECTED						CARD NO	
FIELD pH			FIELD RESID. CHLORINE: FREE				TOTAL				0621 Q 5637							

Purgeable Halocarbons (EPA 8240)			Other Purgeables		
Chloromethane	<1.	trans-1,3-Dichloropropene	<1.	Benzene	<1.
Bromomethane		Trichloroethene		Toluene	
Dichlorodifluoromethane		Dibromochloromethane		Ethylbenzene	
Vinyl chloride		1,1,2-Trichloroethane		Total Xylenes	6.2
Chloroethane		cis-1,3-Dichloropropene		Total Purgeable Hydrocarbons	
Methylene chloride		2-Chloroethylvinylether		Tetrahydrofuran	ND
Trichlorofluoromethane		Bromoform		(2-Butanone MEK)	
1,1-Dichloroethene		1,1,2,2-Tetrachloroethane		Methylisobutylketone (MIBK)	
1,1-Dichloroethane		Tetrachloroethene		Acrolein	
trans-1,2-Dichloroethene		Chlorobenzene		Acrylonitrile	
Chloroform		Total Trihalomethanes		Carbon Disulfide	
1,2-Dichloroethane		Other Purgeable Organics: ND		Vinyl Acetate	
1,1,1-Trichloroethane				Acetone	
Carbon Tetrachloride				2-Hexanone	
Bromodichloromethane				Styrene	
1,2-Dichloropropane					

AR102924



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J. Mensen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER 7-1-D S-3 COLLECTOR Bellini Carroll County

SOURCE OF SAMPLE Keystone  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well \_\_\_\_\_ Stream  Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 1+1 HCL

IMPORTANT First time sampled \_\_\_\_\_ Last known sampling date 3/4/88  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From ATP Section 7:0 6/21/88 To J. Carmin 2:02/6-21-88  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS  
Copies to Ronald Nelson Only

TRANS TYPE	COUNTY	PLANT NO	SAMPLING STATION	DATE COLLECTED	LAB NO
20	21	22	<u>S3</u>	<u>062183</u>	

FIELD OR FIELD RESID CHLORINE FREE TOTAL

Purgeable Halocarbons (EPA 601)			Other Purgeables		
Chloromethane	<u>25</u>	trans-1,3-Dichloropropene	<u>&lt;1</u>	Benzene	<u>&lt;1</u>
Bromomethane	<u>21</u>	Trichloroethene	<u> </u>	Toluene	<u> </u>
Dichlorodifluoromethane	<u> </u>	Dibromochloromethane	<u> </u>	Ethylbenzene	<u> </u>
Vinyl chloride	<u> </u>	1,1,2-Trichloroethane	<u> </u>	Total Xylenes	<u>2.2</u>
Chloroethane	<u> </u>	cis-1,3-Dichloropropene	<u> </u>	Total Purgeable Hydrocarbons	<u>ND</u>
Methylene chloride	<u> </u>	2-Chloroethylvinylether	<u>20</u>	Tetrahydrofuran	<u>ND</u>
Trichlorofluoromethane	<u> </u>	Bromoform	<u>21</u>	(2-Butanone) MEK	<u> </u>
1,1-Dichloroethene	<u> </u>	1,1,2,2-Tetrachloroethene	<u> </u>	Methylisobutyl ketone (MIBK)	<u> </u>
1,1-Dichloroethane	<u> </u>	Tetrachloroethene	<u> </u>	Acrolein	<u> </u>
trans-1,2-Dichloroethene	<u> </u>	Chlorobenzene	<u> </u>	Acrylonitrile	<u> </u>
Chloroform	<u> </u>	Total Trihalomethanes	<u> </u>	Carbon Disulfide	<u> </u>
1,2-Dichloroethane	<u> </u>	Other Purgeable Organics:	<u>ND</u>	Vinyl Acetate	<u> </u>
1,1,1-Trichloroethane	<u> </u>			Acetone	<u> </u>
Carbon Tetrachloride	<u> </u>			2-Hexanone	<u> </u>
Bromodichloromethane	<u> </u>			Styrene	<u> </u>
1,2-Dichloropropane	<u> </u>				

AR102926

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Hansen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

FILE NUMBER 7-1-D. S.-4 COLLECTOR Bellini Carroll County

SOURCE OF SAMPLE Keystone  
(Include Address)

SAMPLE TYPE: Community  Noncommunity  Domestic   
Observation Well  Stream  Tidal Waters  Industrial Effluent

Other (Specify) \_\_\_\_\_

Preservative Used 1+1 HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 3/4/88

Reason for submitting sample: Survey  Suspected  Permitted Contamination  FILE

Suspected Industrial Chemical Contamination  Spec. FILE COPY ONLY

CHAIN OF CUSTODY: From J. Bellini 2:07 4/1/88 To J. Carroll 12:00 PM 6-21-88

REMARKS: Copies to Ronald Nelson Only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
TRANS TYPE		COUNTY		PLANTING		SYMBOLS		DATE COLLECTED		CARD NO				
						54		062188						

20	21	22

FIELD RESID CHLORINE FREE

TOTAL

Purgeable Halocarbons (EPA 601)

Other Purgeables

Chloromethane	<u>&lt;5.</u>	trans-1,3-Dichloropropane	<u>&lt;1</u>	Benzene	<u>&lt;1</u>
Bromomethane	<u>&lt;1.</u>	Trichloroethene	<u>---</u>	Toluene	<u>---</u>
Dichlorodifluoromethane	<u>---</u>	Dibromochloromethane	<u>---</u>	Ethylbenzene	<u>---</u>
Vinyl chloride	<u>---</u>	1,1,2-Trichloroethane	<u>---</u>	Total Xylenes	<u>&lt;2</u>
Chloroethane	<u>---</u>	cis-1,3-Dichloropropane	<u>---</u>	Total Purgeable Hydrocarbons	<u>ND</u>
Methylene chloride	<u>---</u>	2-Chloroethylvinylether	<u>&lt;10.</u>	Tetrahydrofuran	<u>---</u>
Trichlorofluoromethane	<u>---</u>	Bromoform	<u>&lt;1.</u>	(2-Butanone MEK)	<u>---</u>
1,1-Dichloroethene	<u>---</u>	1,1,2,2-Tetrachloroethane	<u>&lt;1.</u>	Methylisobutylketone (MIBK)	<u>---</u>
1,1-Dichloroethane	<u>---</u>	Tetrachloroethene	<u>1.</u>	Acrolein	<u>---</u>
trans-1,2-Dichloroethene	<u>---</u>	Chlorobenzene	<u>&lt;1.</u>	Acrylonitrile	<u>---</u>
Chloroform	<u>---</u>	Total Trihalomethanes	<u>---</u>	Carbon Disulfide	<u>---</u>
1,2-Dichloroethane	<u>---</u>	Other Purgeable Organics: <u>ND</u>	<u>---</u>	Vinyl Acetate	<u>---</u>
1,1,1-Trichloroethane	<u>---</u>		<u>---</u>	Acetone	<u>---</u>
Carbon Tetrachloride	<u>---</u>		<u>---</u>	2-Hexanone	<u>---</u>
Bromodichloromethane	<u>---</u>		<u>---</u>	Styrene	<u>---</u>
1,2-Dichloropropane	<u>---</u>		<u>---</u>		<u>---</u>

ART02927







STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratory Administration  
201 W. Preston Street  
J. Menses Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER 7-1-D. S. 8 COLLECTOR Bellum Carver  
County

SOURCE OF SAMPLE Keystone  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well \_\_\_\_\_ Stream  Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 1+1 HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 3/14/93  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ (Specify)

CHAIN OF CUSTODY: From St. Pauline NW 4210 J. Carver 333 PM - 2188  
To \_\_\_\_\_

REMARKS 2 Copies to Ronald Nelson Only

STATE	COUNTY	PLANT NO.	DATE	TIME	ANALYST
			<u>58</u>		<u>062183</u>

FIELD CHLORINE FREE \_\_\_\_\_ TOTAL \_\_\_\_\_

Purgeable Halocarbons (EPA 601)		Other Purgeables	
Chloromethane	<u>25</u>	trans-1,3-Dichloropropane	<u>21</u>
Bromomethane	<u>21</u>	Trichloroethene	<u>21</u>
Dichlorodifluoromethane		Dibromochloromethane	
Vinyl chloride		1,1,2-Trichloroethane	
Chloroethane		cis-1,3-Dichloropropane	
Methylene chloride		2-Chloroethylvinyl ether	<u>20</u>
Trichlorofluoromethane		Bromoform	<u>21</u>
1,1-Dichloroethene		1,1,2,2-Tetrachloroethane	
1,1-Dichloroethane		Tetrachloroethene	
trans-1,2-Dichloroethene		Chlorobenzene	
Chloroform		Total Trihalomethanes	
1,2-Dichloroethane		Other Purgeable Organics: <u>ND</u>	
1,1,1-Trichloroethane		Benzene	<u>21</u>
Carbon Tetrachloride		Toluene	
Bromodichloromethane		Ethylbenzene	
1,2-Dichloropropane		Total Xylenes	<u>22</u>
		Total Purgeable Hydrocarbons	<u>ND</u>
		Tetrahydrofuran	
		(2-Butanone MEK)	
		Methylisobutylketone (MIBK)	
		Acrolein	
		Acrylonitrile	
		Carbon Disulfide	
		Vinyl Acetate	
		Acetone	
		2-Hexanone	
		Styrene	

ART02930

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratory Administration  
201 W. Preston Street  
J. Mehson Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

FILE NUMBER MD R. 1A COLLECTOR Belloni Cheswell  
County

SOURCE OF SAMPLE Mathias (new road)  
(Include Address) 601 Mathias Rd.

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic  STP Station \_\_\_\_\_  
Observation Well \_\_\_\_\_ Stream \_\_\_\_\_ Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 1+1 HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 3/17/88  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From: Belloni 12:00 6/22 To: J. Jansen 11:00/12:00  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: 1 Copies to Ronald Nelson Only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
							R	1	A		0	6	2	2	8	8		
TRANS TYPE	COUNTY	PLANT NO.	SAMPLING STATION	DATE COLLECTED	CARD NO.													

FIELD PH 20 21 22 FIELD RESID. CHLORINE FREE 23 24 TOTAL 25 26

Purgeable Halocarbons (EPA FILE #) \_\_\_\_\_ Other Purgeables \_\_\_\_\_

Chloromethane	<u>&lt;5</u>	trans-1,3-Dichloropropene	<u>&lt;1</u>	Benzene	
Bromomethane	<u>&lt;1</u>	Trichloroethene		Toluene	
Dichlorodifluoromethane		Dibromochloromethane		Ethylbenzene	
Vinyl chloride		1,1,2-Trichloroethane		Total Xylenes	
Chloroethane		cis-1,3-Dichloropropene		Total Purgeable Halocarbons	
Methylene chloride		2-Chloroethylvinylether	<u>&lt;1</u>	Tetrahydrofuran	
Trichlorofluoromethane		Bromoform	<u>&lt;1</u>	(2-Butanone MEK)	
1,1-Dichloroethane		1,1,2,2-Tetrachloroethene		Methylisobutylketone (MIBK)	
1,1-Dichloroethane		Tetrachloroethene		Acrolein	
trans-1,2-Dichloroethane		Chlorobenzene		Acrylonitrile	
Chloroform		Total Trihalomethanes		Carbon Disulfide	
1,2-Dichloroethane		Other Purgeable Organics: <u>ND</u>		Vinyl Acetate	
1,1,1-Trichloroethane				Acetone	
Carbon Tetrachloride				2-Hexanone	
Bromodichloromethane				Styrene	
1,2-Dichloropropane					



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DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Hansen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

FILE NUMBER MD R. 3 COLLECTOR Belloni Carroll

SOURCE OF SAMPLE Eddy  
(Include Address) 1142 Hammett Schoolhouse Rd

SAMPLE TYPE: Community  Noncommunity  Domestic  STP Station   
Observation Well  Stream  Tea Waters  Industrial Effluent   
Other (Specify) \_\_\_\_\_  
Preservative Used 1+1 HCL

IMPORTANT First time sampled \_\_\_\_\_ Last known sampling date 3/17/53  
Reason for submitting sample: Survey  Suspected Petroleum Contamination   
Suspected Industrial Chemical Contamination  Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY From Belloni 12/11/53 To J. Carroll 1/10/54  
From \_\_\_\_\_ To \_\_\_\_\_

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FIELD NO.	ENFORCEMENT FIELD ONLY	CHLORINE FREE	TOTAL	Other Purgeables
		trans-1,3-Dichloroethane	< 1	Benzene
		Trichloroethene		Toluene
		Dibromochloromethane		Ethylbenzene
		1,1,2-Trichloroethane		Total Xylenes
		cis-1,3-Dichloropropene		Total Purgeable Hydrocarbons
		2-Chloroethylvinyl ether		Tetrahydrofuran
		Bromoform		(2-Butanone MEK)
		1,1,2,3-Tetrachloroethane		Methylisobutylketone (MIBK)
		Tetrachloroethane		Acrolein
		Chlorobenzene		Acrylonitrile
		Total Trihalomethanes		Carbon Disulfide
		Other Purgeable Organics: <u>ND</u>		Vinyl Acetate
				Acetone
				2-Hexanone
				Styrene

ARI02933







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LOT/FILE NUMBER MD R-6 COLLECTOR Belloni JUL 1 1988  
COUNTY Prince Georges

SOURCE OF SAMPLE HUPF  
ADDRESS 1226 Huntford Schoolhouse Rd ENFORCEMENT FILE  
FILE COPY ONLY

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic  STP Station \_\_\_\_\_  
Observation Well \_\_\_\_\_ Stream \_\_\_\_\_ Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 1+1 HCL

IMPORTANT First time sampled \_\_\_\_\_ Last known sampling date 3/14/83  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other Specify \_\_\_\_\_

CHAIN OF CUSTODY: From Belloni 12:00 6/22 To J. Carmin 12:00/6/22/88  
From \_\_\_\_\_

REMARKS 1 Copy to Ronald Nelson Only

TRANS TYPE	COUNTY	PLANTING	INDUSTRIAL STATION	DATE	TIME

FIELD RESID CHLORINE FREE TOTAL

Purgeable Halocarbons (EPA)		Other Purgeables	
Chloromethane	<u>5</u>	trans-1,3-Dichloropropene	<u>5</u>
Bromomethane	<u>1</u>	Trichloroethene	<u>5</u>
Dichlorodifluoromethane	<u>1</u>	Dichloromonomethyl ether	<u>5</u>
Vinyl chloride	<u>1</u>	1,1,2-Trichloroethane	<u>5</u>
Chloroethane	<u>1</u>	cis-1,3-Dichloropropene	<u>5</u>
Methylene chloride	<u>1</u>	2-Chloroethylvinylether	<u>5</u>
Trichlorofluoromethane	<u>1</u>	Bromoform	<u>5</u>
1,1-Dichloroethene	<u>1</u>	1,1,2,2-Tetrachloroethene	<u>5</u>
1,1-Dichloroethane	<u>1</u>	Tetrachloroethene	<u>5</u>
trans-1,2-Dichloroethene	<u>1</u>	Chlorobenzene	<u>5</u>
Chloroform	<u>1</u>	Total Trihalomethanes	<u>5</u>
1,2-Dichloroethane	<u>1</u>	Other Purgeable Organics:	
1,1,1-Trichloroethane	<u>1</u>	Benzene	<u>5</u>
Carbon Tetrachloride	<u>1</u>	Toluene	<u>5</u>
Bromodichloromethane	<u>1</u>	o-Xylenes	<u>5</u>
1,2-Dichloropropane	<u>1</u>	trans-Purgeable Hydrocarbons	<u>5</u>
		Tetrahydrofuran	<u>5</u>
		(2-Butanone MEX)	<u>5</u>
		Methylisobutylketone (MIBK)	<u>5</u>
		Acrolein	<u>5</u>
		Acrylonitrile	<u>5</u>
		Carbon Disulfide	<u>5</u>
		Vinyl Acetate	<u>5</u>
		Acetone	<u>5</u>
		2-Hexanone	<u>5</u>
		Styrene	<u>5</u>

AR102936

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DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
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J. Mehan Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER MD-W-1 COLLECTOR Bellum Carver  
County

SOURCE OF SAMPLE Keystone  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well  Stream \_\_\_\_\_ Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 1+HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 9/88  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial/Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From: Bellum 2:20 10/19/88 To: J. Carver / 2:20 / 10-19-88  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: 7 Copies to Ronald Nelson Only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
TRANS TYPE			COUNTY				PLANT NO.				SAMPLING STATION				DATE COLLECTED				CARD NO.	

FIELD pH 

20	21	22
----	----	----

 FIELD RESID. CHLORINE: FREE 

23	24
----	----

 TOTAL 

25	26
----	----

Purgeable Halocarbons (EPA 601)

Chloromethane <5  
Bromomethane <1  
Dichlorodifluoromethane \_\_\_\_\_  
Vinyl chloride \_\_\_\_\_  
Chloroethane \_\_\_\_\_  
Methylene chloride \_\_\_\_\_  
Trichlorofluoromethane \_\_\_\_\_  
1,1-Dichloroethane \_\_\_\_\_  
1,1-Dichloroethane 2  
trans-1,2-Dichloroethane 2  
Chloroform <1  
1,2-Dichloroethane 2  
1,1,1-Trichloroethane <1  
Carbon Tetrachloride \_\_\_\_\_  
Bromodichloromethane \_\_\_\_\_  
1,2-Dichloropropane ↓

trans-1,3-Dichloropropene <1  
Trichloroethene 1  
Dibromochloromethane <1  
1,1,2-Trichloroethane 1  
cis-1,3-Dichloropropene ↓  
2-Chloroethylvinylether <10  
Bromoform <1  
1,1,2,2-Tetrachloroethene 2  
Tetrachloroethene 2  
Chlorobenzene <1  
Total Trihalomethanes \_\_\_\_\_  
Other Purgeable Organics: N.D.

Other Purgeables

Benzene <1  
Toluene 1  
Ethylbenzene ↓  
Total Xylenes <2  
Total Purgeable Hydrocarbons \_\_\_\_\_  
Tetrahydrofuran N.D.  
(2-Butanone MEK) \_\_\_\_\_  
Methylisobutylketone (MIBK) \_\_\_\_\_  
Acrolein \_\_\_\_\_  
Acrylonitrile \_\_\_\_\_  
Carbon Disulfide \_\_\_\_\_  
Vinyl Acetate \_\_\_\_\_  
Acetone \_\_\_\_\_  
2-Hexanone \_\_\_\_\_  
Styrene ↓

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J. Mehsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M.D.W-9 COLLECTOR Beckman Carroll County

SOURCE OF SAMPLE Keystone  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well  Stream \_\_\_\_\_ Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 141 HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 9/88  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From: Beckman 2:20 10/19/88 To: J. Carra 2:20/10-19-88  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: 1 Copies to Ronald Nelson Only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
TRANS TYPE			COUNTY				PLANT NO.				SAMPLING STATION				DATE COLLECTED				CARD NO.	
											108				10 19 88					
20	21	22	FIELD RESID. CHLORINE: FREE				23	24	TOTAL				25	26						
FIELD PH																				

Purgeable Halocarbons (EPA 601)		trans-1,3-Dichloropropene		Other Purgeables	
Chloromethane	<5	Trichloroethene	<1	Benzene	<1
Bromomethane	<1	Dibromochloromethane	↓	Toluene	↓
Dichlorodifluoromethane	↓	1,1,2-Trichloroethane	↓	Ethylbenzene	↓
Vinyl chloride	↓	cis-1,3-Dichloropropene	↓	Total Xylenes	↓
Chloroethane	↓	2-Chloroethylvinylether	<10	Total Purgeable Hydrocarbons	↓
Methylene chloride	↓	Bromoform	<1	Tetrahydrofuran	N.P.
Trichlorofluoromethane	↓	1,1,2,2-Tetrachloroethene	↓	(2-Butanone MEK)	↓
1,1-Dichloroethene	↓	Tetrachloroethene	↓	Methylisobutylketone (MIBK)	↓
1,1-Dichloroethane	↓	Chlorobenzene	↓	Acrolein	↓
trans-1,2-Dichloroethene	↓	Total Trihalomethanes	↓	Acrylonitrile	↓
Chloroform	↓	Other Purgeable Organics:		Carbon Disulfide	↓
1,2-Dichloroethane	↓			Vinyl Acetate	↓
1,1,1-Trichloroethane	↓			Acetone	↓
Carbon Tetrachloride	↓			2-Hexanone	↓
Bromodichloromethane	↓			Styrene	↓
1,2-Dichloropropane	↓				

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OCT 26 1988

SOLID WASTE ENFORCEMENT DIVISION

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DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
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J. Mehen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER MD.W.9 COLLECTOR Beelin Parsons  
County

SOURCE OF SAMPLE Keyston  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well  Stream \_\_\_\_\_ Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 1+1 HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 9/88  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Beelin 2:20 10/19/88 To: J. Carnica / 2520/10-19-88  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: 1 Copy to Ronald Nelson Only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
TRANS TYPE			PLANT NO.				SAMPLING STATION				DATE COLLECTED				CARD NO.			

20	21	22	23	24	25	26
FIELD pH			FIELD RESID. CHLORINE: FREE		TOTAL	

Purgeable Halocarbons (EPA 601)

Other Purgeables

Chloromethane	<u>&lt;5</u>	trans-1,3-Dichloropropene	<u>&lt;1</u>	Benzene	<u>&lt;1</u>
Bromomethane	<u>&lt;1</u>	Trichloroethene	<u>1</u>	Toluene	<u>1</u>
Dichlorodifluoromethane	<u>1</u>	Dibromochloromethane	<u>1</u>	Ethylbenzene	<u>1</u>
Vinyl chloride	<u>1</u>	1,1,2-Trichloroethane	<u>1</u>	Total Xylenes	<u>&lt;2</u>
Chloroethane	<u>1</u>	cis-1,3-Dichloropropene	<u>1</u>	Total Purgeable Hydrocarbons	<u>N.D.</u>
Methylene chloride	<u>1</u>	2-Chloroethylvinylether	<u>&lt;10</u>	Tetrahydrofuran	<u>N.D.</u>
Trichlorofluoromethane	<u>1</u>	Bromoform	<u>&lt;1</u>	(2-Butanone MEK)	<u>1</u>
1,1-Dichloroethane	<u>1</u>	1,1,2,2-Tetrachloroethene	<u>1</u>	Methylisobutylketone (MIBK)	<u>1</u>
1,1-Dichloroethane	<u>1</u>	Tetrachloroethene	<u>1</u>	Acrolein	<u>1</u>
trans-1,2-Dichloroethane	<u>1</u>	Chlorobenzene	<u>1</u>	Acrylonitrile	<u>1</u>
Chloroform	<u>1</u>	Total Trihalomethanes	<u>1</u>	Carbon Disulfide	<u>1</u>
1,2-Dichloroethane	<u>1</u>	Other Purgeable Organics:	<u>N.D.</u>	Vinyl Acetate	<u>1</u>
1,1,1-Trichloroethane	<u>1</u>			Acetone	<u>1</u>
Carbon Tetrachloride	<u>1</u>			2-Hexanone	<u>1</u>
Bromodichloromethane	<u>1</u>			Styrene	<u>1</u>
1,2-Dichloropropane	<u>1</u>				<u>1</u>

Results reported in micrograms per (parts per million/billion)

ART0294591726

DATE RECEIVED OCT 13 1988 DATE REPORTED \_\_\_\_\_ CHEMIST J. Carnica LAB NO. \_\_\_\_\_



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DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mehsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER MD-5-2 COLLECTOR Beeman Carver County

SOURCE OF SAMPLE Keystone  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well \_\_\_\_\_ Stream  Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used NIHCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 9/88  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_

Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Beeman 2:20 10/19/88 To: J. Carver 2:20/10-19-88  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: 7 Copies to Ronald Nelson Only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
TRANS TYPE			COUNTY			PLANT NO.			SAMPLING STATION			DATE COLLECTED				CARD NO.		
									52			101988						
FIELD PH			FIELD RESID. CHLORINE: FREE						TOTAL									

Purgeable Halocarbons (EPA 601)	Other Purgeables
Chloromethane <u>&lt;5</u>	trans-1,3-Dichloropropene <u>&lt;1</u>
Bromomethane <u>&lt;1</u>	Trichloroethene <u>↓</u>
Dichlorodifluoromethane <u>↓</u>	Dibromochloromethane <u>↓</u>
Vinyl chloride <u>↓</u>	1,1,2-Trichloroethane <u>↓</u>
Chloroethane <u>↓</u>	cis-1,3-Dichloropropene <u>↓</u>
Methylene chloride <u>↓</u>	2-Chloroethylvinylether <u>&lt;10</u>
Trichlorofluoromethane <u>↓</u>	Bromoform <u>&lt;1</u>
1,1-Dichloroethane <u>↓</u>	1,1,2,2-Tetrachloroethene <u>↓</u>
1,1-Dichloroethane <u>↓</u>	Tetrachloroethene <u>↓</u>
trans-1,2-Dichloroethene <u>↓</u>	Chlorobenzene <u>↓</u>
Chloroform <u>↓</u>	Total Trihalomethanes <u>↓</u>
1,2-Dichloroethane <u>↓</u>	Other Purgeable Organics:
1,1,1-Trichloroethane <u>↓</u>	
Carbon Tetrachloride <u>↓</u>	
Bromodichloromethane <u>↓</u>	
1,2-Dichloropropane <u>↓</u>	
	Benzene <u>&lt;1</u>
	Toluene <u>↓</u>
	Ethylbenzene <u>↓</u>
	Total Xylenes <u>&lt;2</u>
	Total Purgeable Hydrocarbons <u>↓</u>
	Tetrahydrofuran <u>N.P.</u>
	(2-Butanone MEK) <u>↓</u>
	Methylisobutylketone (MIBK) <u>↓</u>
	Acrolein <u>↓</u>
	Acrylonitrile <u>↓</u>
	Carbon Disulfide <u>↓</u>
	Vinyl Acetate <u>↓</u>
	Acetone <u>↓</u>
	2-Hexanone <u>↓</u>
	Styrene <u>↓</u>

Results reported in micrograms per (parts per million/billion) ART02947891733





STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mehaen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M.D. 5-5

COLLECTOR Bellum Carver  
County

SOURCE OF SAMPLE  
(Include Address)

Keylor

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well \_\_\_\_\_ Stream  Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 1x1 HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 9/88  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From Bellum 2:20 10/9/88 To: Carver 2:20 10-19-88  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: Copies to Ronald Nelson Only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
									8	5								
TRANS TYPE			PLANT NO				SAMPLING STATION				DATE COLLECTED					CARD NO		

20	21	22	23	24	25	26	
FIELD pH			FIELD RESID. CHLORINE: FREE				TOTAL

Purgeable Halocarbons (EPA)		Other Purgeables	
Chloromethane	<5	Benzene	<1
Bromomethane	<1	Toluene	↓
Dichlorodifluoromethane		Ethylbenzene	↓
Vinyl chloride		Total Xylenes	<2
Chloroethane		Total Purgeable Hydrocarbons	↓
Methylene chloride		Tetrahydrofuran	N.P.
Trichlorofluoromethane		(2-Butanone MEK)	
1,1-Dichloroethene		Methylisobutylketone (MIBK)	
1,1-Dichloroethane		Acrolein	
trans-1,2-Dichloroethene		Acrylonitrile	
Chloroform		Carbon Disulfide	
1,2-Dichloroethane		Vinyl Acetate	
1,1,1-Trichloroethane		Acetone	
Carbon Tetrachloride		2-Hexanone	
Bromodichloromethane		Styrene	↓
1,2-Dichloropropane	↓		

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston Street  
J. Mehsen Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY  
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER M.D. 5-6 COLLECTOR Belum Carrow  
County

SOURCE OF SAMPLE Keystone  
(Include Address)

SAMPLE TYPE: Community \_\_\_\_\_ Noncommunity \_\_\_\_\_ Domestic \_\_\_\_\_ STP Station \_\_\_\_\_  
Observation Well \_\_\_\_\_ Stream  Tidal Waters \_\_\_\_\_ Industrial Effluent \_\_\_\_\_  
Other (Specify) \_\_\_\_\_  
Preservative Used 1% HCL

IMPORTANT: First time sampled \_\_\_\_\_ Last known sampling date 9/84  
Reason for submitting sample: Survey \_\_\_\_\_ Suspected Petroleum Contamination \_\_\_\_\_  
Suspected Industrial Chemical Contamination \_\_\_\_\_ Other (Specify) \_\_\_\_\_

CHAIN OF CUSTODY: From: Belum 2:20 10/1/84 To: J. Carrow 2:20/10-19-88  
From: \_\_\_\_\_ To: \_\_\_\_\_

REMARKS: 1 Copies to Ronald Nelson Only

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
TRANS TYPE		COUNTY		PLANT NO			SAMPLING STATION				DATE COLLECTED				CARD NO.			
							56				101988							
20	21	22	FIELD RESID. CHLORINE: FREE				23	24	TOTAL		25	26						
FIELD pH																		

Purgeable Halocarbons (EPA)	601)	Other Purgeables			
Chloromethane	<5	trans-1,3-Dichloropropene	<1	Benzene	<1
Bromomethane	<1	Trichloroethene	—	Toluene	—
Dichlorodifluoromethane	—	Dibromochloromethane	—	Ethylbenzene	—
Vinyl chloride	—	1,1,2-Trichloroethane	—	Total Xylenes	<2
Chloroethane	—	cis-1,3-Dichloropropene	—	Total Purgeable Hydrocarbons	—
Methylene chloride	—	2-Chloroethylvinylether	—	Tetrahydrofuran	N.P.
Trichlorofluoromethane	—	Bromoform	—	(2-Butanone MEK)	—
1,1-Dichloroethene	—	1,1,2,2-Tetrachloroethene	—	Methylisobutylketone (MIBK)	—
1,1-Dichloroethane	—	Tetrachloroethene	—	Acrolein	—
trans-1,2-Dichloroethene	—	Chlorobenzene	—	Acrylonitrile	—
Chloroform	—	Total Trihalomethanes	—	Carbon Disulfide	—
1,2-Dichloroethane	—	Other Purgeable Organics:	N.P.	Vinyl Acetate	—
1,1,1-Trichloroethane	—		—	Acetone	—
Carbon Tetrachloride	—		—	2-Hexanone	—
Bromodichloromethane	—		—	Styrene	—
1,2-Dichloropropane	—		—		—

Results reported in micrograms per (parts per million/billion)

ARI02951 881732



C.O.C

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

Lab No. \_\_\_\_\_

WATER ANALYSIS

C0162311738

Bottle Number: M.D.W-1

Name: Kaylson

County: Carroll

Source of Sample: \_\_\_\_\_

Street \_\_\_\_\_ Town or City \_\_\_\_\_

Collector: Beeman

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: HANTON D

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<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
County	Plant No.	Sampling Station	Date Collected	Time	Acid	Iced
		<u>W1</u>	<u>062188</u>			
Field Data:	<input type="text"/>	Chlorine Residual	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	pH*	Free	Total	Specific Conductance		

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	118	<input checked="" type="checkbox"/> Arsenic	01002	14991
<input checked="" type="checkbox"/> Alkalinity (Total)	00410	365	<input checked="" type="checkbox"/> Barium	01007	14992
<input type="checkbox"/> pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	14991
<input type="checkbox"/> Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	14991
<input checked="" type="checkbox"/> Hardness	00900	56	<input checked="" type="checkbox"/> Lead	01051	15095
<input checked="" type="checkbox"/> Ammonia-N	00608	492	<input checked="" type="checkbox"/> Mercury	71900	149995
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630	116	<input checked="" type="checkbox"/> Selenium	01147	14991
<input checked="" type="checkbox"/> Nitrite N	00615	9961	<input type="checkbox"/> Silver	01077	
<input type="checkbox"/> MBAS	38260		<input type="checkbox"/> Aluminum	01105	
<input checked="" type="checkbox"/> Chloride	00840	16	<input checked="" type="checkbox"/> Calcium	00916	1573
<input type="checkbox"/> Fluoride	00951		<input checked="" type="checkbox"/> Copper	01042	149915
<input type="checkbox"/> Color*	00081		<input checked="" type="checkbox"/> Iron	01045	147
<input checked="" type="checkbox"/> Turbidity*	00076	157	<input checked="" type="checkbox"/> Magnesium	00927	1411
<input checked="" type="checkbox"/> Conductance*, SPEC	00095	1791	<input checked="" type="checkbox"/> Manganese	01055	14911
<input checked="" type="checkbox"/> Sulfate	00945	1391	<input type="checkbox"/> Nickel	01067	
<input type="checkbox"/> Total Solids	00500		<input checked="" type="checkbox"/> Potassium	00937	179
<input checked="" type="checkbox"/> Dissolved Solids	70300	464	<input checked="" type="checkbox"/> Sodium	00929	162
			<input checked="" type="checkbox"/> Zinc	01092	1998
			<input checked="" type="checkbox"/> C.O.D.		167

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received JUN 21 1988

Date Reported JUN 20 1988

Chemist DAVID A. SEVON

APR 10 1988  
DAVID A. SEVON

C.O.C

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration  
201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21205  
J. Mehsen Joseph, Ph.D., Director

CO102321738

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: 7-1-D-W-2 Name: Keystone County: Carroll

Source of Sample: \_\_\_\_\_ Street: Wes Town or City: \_\_\_\_\_ Collector: Bellum

Sample Type (Circle): Community Source Non-Community Distribution Private MCL Emergency Recheck Routine

Remarks: Am to x P Copies to Ronald Nelson Only

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
County	Plant No.	Sampling Station	Date Collected	Time	Acid	Iced	
		<u>W2</u>	<u>062188</u>				
Field Data:	<input type="checkbox"/>	<input type="checkbox"/>	Chlorine Residual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	pH*		Free	Total	Specific Conductance		

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	7.169	<input checked="" type="checkbox"/> Arsenic	01002	<0.01
<input checked="" type="checkbox"/> Alkalinity (Total)	00410	158	<input checked="" type="checkbox"/> Barium	01007	<0.1
pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	<0.01
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	<0.01
<input checked="" type="checkbox"/> Hardness	00900	169	<input checked="" type="checkbox"/> Lead	01051	<0.05
<input checked="" type="checkbox"/> Ammonia-N	00608	<0.2	<input checked="" type="checkbox"/> Mercury	71900	<0.0005
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630	41	<input checked="" type="checkbox"/> Selenium	01147	<0.01
<input checked="" type="checkbox"/> Nitrite N	00615	0.02	Silver	01077	
MBAS	38260				
<input checked="" type="checkbox"/> Chloride	00940	116	Aluminum	01105	
Fluoride	00951		<input checked="" type="checkbox"/> Calcium	00916	20.2
Color*	00081		<input checked="" type="checkbox"/> Copper	01042	<0.01
<input checked="" type="checkbox"/> Turbidity*	00076	25	<input checked="" type="checkbox"/> Iron	01045	<0.05
<input checked="" type="checkbox"/> Conductance*, SPEC	00095	195	<input checked="" type="checkbox"/> Magnesium	00927	5.3
<input checked="" type="checkbox"/> Sulfate	00945	118	<input checked="" type="checkbox"/> Manganese	01055	<0.01
Total Solids	00500		Nickel	01067	
<input checked="" type="checkbox"/> Dissolved Solids	70300	126	<input checked="" type="checkbox"/> Potassium	00637	20
			<input checked="" type="checkbox"/> Sodium	00929	74
			<input checked="" type="checkbox"/> Zinc	01092	<0.05
			<input checked="" type="checkbox"/> C.O.D		22

\*Results reported in units, all others in milligrams per liter (ppm)

DAVID A. SEVRIAN  
PART 02953

Date Received: JUN 21 1988 Date Reported: \_\_\_\_\_ Chemist: \_\_\_\_\_

C.O.C

DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

CC102331738

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: M.D.W.3 Name: Keylone County: Carroll

Source of Sample: \_\_\_\_\_ Street: \_\_\_\_\_ Town or City: Wesley Collector: Belcher

Sample Type (Circle): Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: AMI OKD *Copies to Ronald Nelson Only*

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
County	Plant No.	Sampling Station	Date Collected	Time	Acid	Iced	
		<u>W3</u>	<u>062188</u>				
Field Data:	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	pH*	Chlorine Residual	Free	Total	Specific Conductance		

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	5.8	<input checked="" type="checkbox"/> Arsenic	01002	<9.0
<input checked="" type="checkbox"/> Alkalinity (Total)	00410	114	<input checked="" type="checkbox"/> Barium	01007	<9.0
<input type="checkbox"/> pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	<9.0
<input type="checkbox"/> Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	<9.0
<input checked="" type="checkbox"/> Hardness	00900	76	<input checked="" type="checkbox"/> Lead	01051	<9.0
<input checked="" type="checkbox"/> Ammonia-N	00608	<9.2	<input checked="" type="checkbox"/> Mercury	71900	<9.0
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630	7.10	<input checked="" type="checkbox"/> Selenium	01147	<9.0
<input checked="" type="checkbox"/> Nitrite N	00615	0.03	<input type="checkbox"/> Silver	01077	
<input type="checkbox"/> MBAS	38260				
<input checked="" type="checkbox"/> Chloride	00940	53	<input type="checkbox"/> Aluminum	01105	
<input type="checkbox"/> Fluoride	00951		<input checked="" type="checkbox"/> Calcium	00916	97
<input type="checkbox"/> Color*	00081		<input checked="" type="checkbox"/> Copper	01042	<9.0
<input checked="" type="checkbox"/> Turbidity*	00078	50	<input checked="" type="checkbox"/> Iron	01045	9.0
<input checked="" type="checkbox"/> Conductance*, SPEC	00095	184	<input checked="" type="checkbox"/> Magnesium	00927	97
<input checked="" type="checkbox"/> Sulfate	00945	17	<input checked="" type="checkbox"/> Manganese	01055	<9.0
<input type="checkbox"/> Total Solids	00500		<input type="checkbox"/> Nickel	01067	
<input checked="" type="checkbox"/> Dissolved Solids	70300	140	<input checked="" type="checkbox"/> Potassium	00937	19
			<input type="checkbox"/> Sodium	00929	41
			<input checked="" type="checkbox"/> Zinc	01092	<9.0
			<input checked="" type="checkbox"/> C.O.D.		<10

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received JUN 21 1988 Date Reported JUN 30 1988 Chemist DAVID A. SEYDALIAN 102954

C.O.C

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration

201 W. Preston St.

P.O. Box 2355, Baltimore, Maryland 21203

J. Mehsen Joseph, Ph.D., Director

CO162341738

Lab No.

WATER ANALYSIS

Bottle Number: 71 D. W-4

Name: Kepton

County: Carroll

Source of Sample:

Street

Town or City

Collector: Beeman

Sample Type (Circle):

Community Source

Non-Community Distribution

Private MCL

Emergency Recheck

Routine

Remarks: AMIORD

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County

Plant No.

Sampling Station: W4

Date Collected: 06 21 88

Time

Acid

Iced

Field Data:

pH

Chlorine Residual

Free

Total

Specific Conductance

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
✓ pH*	00403	8.8	✓ Arsenic	01002	1400/1
✓ Alkalinity (Total)	00410	179	✓ Barium	01007	1110/1
pH*, Ca CO <sub>3</sub> SAT.	70311		✓ Cadmium	01027	1400/1
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		✓ Chromium	01034	1400/1
✓ Hardness	00900	56	✓ Lead	01051	1400/1
✓ Ammonia-N	00608	140/2	✓ Mercury	71900	1400005
✓ Nitrate-Nitrate N	00630	140/2	✓ Selenium	01147	1400/1
✓ Nitrite N	00615	0.014	Silver	01077	
MBAS	38260				
✓ Chloride	00940	3	Aluminum	01105	
Fluoride	00951		✓ Calcium	00918	119/1
Color*	00081		✓ Copper	01042	1400/5
✓ Turbidity*	00076	120	✓ Iron	01045	1024
✓ Conductance*, SPEC	00095	198	✓ Magnesium	00927	136
✓ Sulfate	00945	180	✓ Manganese	01055	100/1
Total Solids	00500		<del>Mercury</del> <i>omit</i>	01067	
✓ Dissolved Solids	70300	130	✓ Potassium	00937	114/1
			✓ Sodium	00929	131
			✓ Zinc	01092	0.06
			✓ C.O.D.		14

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: JUN 21 1988

Date Reported: JUN 30 1988

Chemist: DAVID A. SEVORIAN

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration

201 W. Preston St.

P.O. Box 2355, Baltimore, Maryland 21203

J. Mehsen Joseph, Ph.D., Director

Lab No. 0167851730

C.O.C

WATER ANALYSIS

Bottle Number: M.D. W-5 Name: Keystone County: Sevier

Source of Sample: Well Collector: Beeman

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: HM. 4000

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County:   Plant No.:    Sampling Station: W5 Date Collected: 062188 Time:    Acid:  Iced:

Field Data: pH\*:   Chlorine Residual:   Free:   Total:   Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	8.3	<input checked="" type="checkbox"/> Arsenic	01002	<0.01
<input checked="" type="checkbox"/> Alkalinity (Total)	00410	77	<input checked="" type="checkbox"/> Barium	01007	<0.1
pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	<0.01
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	<0.01
<input checked="" type="checkbox"/> Hardness	00900	80	<input checked="" type="checkbox"/> Lead	01051	<0.01
<input checked="" type="checkbox"/> Ammonia-N	00608	<0.2	<input checked="" type="checkbox"/> Mercury	71900	<0.0005
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630	10.4	<input checked="" type="checkbox"/> Selenium	01147	<0.01
<input checked="" type="checkbox"/> Nitrite N	00615	0.015	<input type="checkbox"/> Silver	01077	
MBAS	38260		<input type="checkbox"/> Aluminum	01105	
<input checked="" type="checkbox"/> Chloride	00940	8	<input checked="" type="checkbox"/> Calcium	00916	29
Fluoride	00951		<input checked="" type="checkbox"/> Copper	01042	<0.05
Color*	00081		<input checked="" type="checkbox"/> Iron	01045	0.17
<input checked="" type="checkbox"/> Turbidity*	00076	62	<input checked="" type="checkbox"/> Magnesium	00927	24
<input checked="" type="checkbox"/> Conductance*, SPEC	00095	242	<input checked="" type="checkbox"/> Manganese	01055	<0.01
<input checked="" type="checkbox"/> Sulfate	00945	301	<input checked="" type="checkbox"/> Nickel	01067	
Total Solids	00500		<input checked="" type="checkbox"/> Potassium	00937	43
<input checked="" type="checkbox"/> Dissolved Solids	70300	190	<input checked="" type="checkbox"/> Sodium	00929	262
			<input checked="" type="checkbox"/> Zinc	01092	<0.05
			<input checked="" type="checkbox"/> C.D.D.		14

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: JUN 21 1988 Date Reported: JUN 21 1988 Chemist: DAVID A. SEVDALIAN

AP 102956

C.O.C

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

C0162361736

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: MD-206 Name: Keystone County: Barren

Source of Sample: \_\_\_\_\_ Street: \_\_\_\_\_ Town or City: Wes Collector: Beelan

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: UNION

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<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
County	Plant No.	Sampling Station	Date Collected	Time	Acid	Iced
Field Data:		<input type="text"/>	Chlorine Residual	<input type="text"/>	<input type="text"/>	<input type="text"/>
		pH*	Free	Total	Specific Conductance	

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	6.1	<input checked="" type="checkbox"/> Arsenic	01002	<0.01
<input checked="" type="checkbox"/> Alkalinity (Total)	00410	2.1	<input checked="" type="checkbox"/> Barium	01007	<0.1
<input type="checkbox"/> pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	<0.01
<input type="checkbox"/> Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	<0.01
<input checked="" type="checkbox"/> Hardness	00900	44	<input checked="" type="checkbox"/> Lead	01051	<0.05
<input checked="" type="checkbox"/> Ammonia-N	00608	0.3	<input checked="" type="checkbox"/> Mercury	71900	<0.0005
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630	5.9	<input checked="" type="checkbox"/> Selenium	01147	<0.01
<input checked="" type="checkbox"/> Nitrite N	00615	0.017	<input type="checkbox"/> Silver	01077	
<input type="checkbox"/> MBAS	38260		<input type="checkbox"/> Aluminum	01105	
<input checked="" type="checkbox"/> Chloride	00940	111	<input checked="" type="checkbox"/> Calcium	00916	177
<input type="checkbox"/> Fluoride	00951		<input checked="" type="checkbox"/> Copper	01042	<0.05
<input type="checkbox"/> Color*	00081		<input checked="" type="checkbox"/> Iron	01045	10.90
<input checked="" type="checkbox"/> Turbidity*	00078	4.10	<input checked="" type="checkbox"/> Magnesium	00927	14.0
<input checked="" type="checkbox"/> Conductance*, SPEC	00095	114.5	<input checked="" type="checkbox"/> Manganese	01055	0.04
<input checked="" type="checkbox"/> Sulfate	00945	18.7	<input type="checkbox"/> Nickel	01087	
<input type="checkbox"/> Total Solids	00500		<input checked="" type="checkbox"/> Potassium	00937	<1.0
<input checked="" type="checkbox"/> Dissolved Solids	70300	11.12	<input checked="" type="checkbox"/> Sodium	00929	0.7
			<input checked="" type="checkbox"/> Zinc	01092	<0.05
			<input checked="" type="checkbox"/> C.O.D.		<10

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: JUN 21 1988 Date Reported: JUN 30 1988 Chemist: DAVID A. SEVDALIAN

AR 102957

C.O.C

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

C0162371738

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: W.D. W-7 Name: Keystone County: Carroll

Source of Sample: \_\_\_\_\_ Street: \_\_\_\_\_ Town or City: Wells Collector: Keenan

Sample Type (Circle): Community Source Non-Community Distribution Private MCL Emergency Recheck Routine

Remarks: Historical

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RECEIVED

County: Carroll Plant No.: \_\_\_\_\_ Sampling Station: W7 Date Collected: 062188 Time: JUL 15 1988 Acid: 1 Iced: 0

Field Data: pH: 7.2 Chlorine Residual: 0.1 Free: 0.1 Specific Conductance: \_\_\_\_\_

FOR INFORMATION FILE COPY ONLY

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
✓ pH*	00403	7.2	✓ Arsenic	01002	100
✓ Alkalinity (Total)	00410	131	✓ Barium	01007	103
pH*, Ca CO <sub>3</sub> SAT.	70311	11	✓ Cadmium	01027	100
Alkalinity, Ca CO <sub>3</sub> SAT.	74023	11	✓ Chromium	01034	100
✓ Hardness	00900	62	✓ Lead	01051	100
✓ Ammonia-N	00608	100	✓ Mercury	71900	100
✓ Nitrate-Nitrate N	00630	100	✓ Selenium	01147	100
✓ Nitrite N	00615	100	✓ Silver	01077	100
MBAS	38260	11			
✓ Chloride	00940	2	Aluminum	01105	11
Fluoride	00951	11	✓ Calcium	00918	188
Color*	00081	11	✓ Copper	01042	100
✓ Turbidity*	00078	104	✓ Iron	01045	1015
✓ Conductance*, SPEC	00095	117	✓ Magnesium	00927	122
✓ Sulfate	00945	100	✓ Manganese	01055	100
Total Solids	00500	11	✓ Nickel	01067	11
✓ Dissolved Solids	70300	14	✓ Potassium	00937	14
			✓ Sodium	00929	130
			✓ Zinc	01092	100
			✓ C.O.D.		110

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: JUN 21 1988 Date Reported: JUL 6 1988 Chemist: F. Payne AR102958

C.O.C

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

C0162381738

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: M.D.W. 8 Name: Keystone County: Carver

Source of Sample: \_\_\_\_\_ Street \_\_\_\_\_ Town or City Wee Collector: Reagan

Sample Type (Circle): Community Source Non-Community Distribution Private MCL Emergency Recheck Routine

Remarks: Amford /Copies to Ronald Nelson Only

County: [ ] [ ] Plant No.: [ ] [ ] [ ] [ ] Sampling Station: W8 Date Collected: 062188 Time: [ ] [ ] [ ] Acid: [ ] Iced: [ ]  
Field Data: pH: [ ] [ ] Chlorine Residual: Free [ ] [ ] Total [ ] [ ] Specific Conductance: [ ] [ ] [ ] [ ]

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
✓ pH*	00403	11160	✓ Arsenic	01002	11<001
✓ Alkalinity (Total)	00410	11114	✓ Barium	01007	11<011
pH*, Ca CO, SAT.	70311	11111	✓ Cadmium	01027	11<0011
Alkalinity, Ca CO, SAT.	74023	11111	✓ Chromium	01034	11<0011
✓ Hardness	00900	11134	✓ Lead	01051	11<005
✓ Ammonia-N	00808	11<02	✓ Mercury	71900	11<00005
✓ Nitrate-Nitrate N	00830	111<02	✓ Selenium	01147	11<001
✓ Nitrite N	00815	1110005	Silver	01077	11111
MBAS	38260	11111			11111
✓ Chloride	00940	11112	<del>Chloride</del> <u>not</u>	01105	11111
Fluoride	00951	11111	✓ Calcium	00916	11195
Color*	00081	11111	✓ Copper	01042	111<0015
✓ Turbidity*	00078	111130	✓ Iron	01045	111024
✓ Conductance*, SPEC	00095	111130	✓ Magnesium	00927	11135
✓ Sulfate	00945	111160	✓ Manganese	01055	111001
Total Solids	00500	11111	Nickel	01067	11111
✓ Dissolved Solids	70300	111118	✓ Potassium	00937	11111
			✓ Sodium	00929	111180
			✓ Zinc	01092	111<005
			✓ C.O.D.		111<10

\*Results reported in units, all others in milligrams per liter

Date Received: JUN 21 1988 Date Reported: \_\_\_\_\_ Chemist: DAVID A. SEVDALIAN AR102959



C.O.C

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration

201 W. Preston St.

P.O. Box 2355, Baltimore, Maryland 21203

J. Mehsen Joseph, Ph.D., Director

CO162391738

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: M.D. W-9 Name: Keystone County: Carroll

Source of Sample: \_\_\_\_\_ Street: \_\_\_\_\_ Town or City: Wesley Collector: Beeman

Sample Type (Circle): Community Source Non-Community Distribution Private MCL Emergency Recheck Routine

Remarks: AMTOKD

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County:    Plant No.:     Sampling Station: W9 Date Collected: 062188 Time:    Acid:  Iced:

Field Data: pH\*:    Chlorine Residual:   Free:   Total:   Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	5.7	<input checked="" type="checkbox"/> Arsenic	01002	<0.01
<input checked="" type="checkbox"/> Alkalinity (Total)	00410	18	<input checked="" type="checkbox"/> Barium	01007	<0.1
pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	<0.01
<input checked="" type="checkbox"/> Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	<0.01
<input checked="" type="checkbox"/> Hardness	00900	40	<input checked="" type="checkbox"/> Lead	01051	<0.05
<input checked="" type="checkbox"/> Ammonia-N	00608	<0.2	<input checked="" type="checkbox"/> Mercury	71900	<0.005
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630	1.77	<input checked="" type="checkbox"/> Selenium	01147	<0.01
<input checked="" type="checkbox"/> Nitrite N	00615	0.05	Silver	01077	
MBAS	38260				
<input checked="" type="checkbox"/> Chloride	00940	32	Aluminum	01105	
Fluoride	00951		<input checked="" type="checkbox"/> Calcium	00916	18.5
Color*	00081		<input checked="" type="checkbox"/> Copper	01042	<0.05
<input checked="" type="checkbox"/> Turbidity*	00076	1.42	<input checked="" type="checkbox"/> Iron	01045	0.06
<input checked="" type="checkbox"/> Conductance*, SPEC	00095	133	<input checked="" type="checkbox"/> Magnesium	00927	47
<input checked="" type="checkbox"/> Sulfate	00945	167	<input checked="" type="checkbox"/> Manganese	01055	<0.01
Total Solids	00500		Nickel	01067	
<input checked="" type="checkbox"/> Dissolved Solids	70300	114	<input checked="" type="checkbox"/> Potassium	00937	22
			<input checked="" type="checkbox"/> Sodium	00929	56
			Zinc	01092	<0.05
			<input checked="" type="checkbox"/> C.O.D.		<10

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: JUN 21 1988 Date Reported: JUN 30 1988 Chemist: DAVID A. SEXTON

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DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

C0162401738

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: M.D.S-1 Name: Kayplano County: Prince Georges

Source of Sample: \_\_\_\_\_ Street \_\_\_\_\_ Town or City \_\_\_\_\_ Collector: Becker

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Winton /Copies to Ronald Nelson Only

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
County	Plant No.	Sampling Station	Date Collected	Time	Acid	Iced	

Field Data:  pH\*  Chlorine Residual  Free  Total  Specific Conductance

✓	ANALYSIS	CODE	RESULTS	✓	ANALYSIS	CODE	RESULTS
✓	pH*	00403	1711	✓	Arsenic	01002	1401
✓	Alkalinity (Total)	00410	154	✓	Barium	01007	1401
	pH*, Ca CO <sub>3</sub> SAT.	70311		✓	Cadmium	01027	1401
	Alkalinity, Ca CO <sub>3</sub> SAT.	74023		✓	Chromium	01034	1401
✓	Hardness	00900	158	✓	Lead	01051	14005
✓	Ammonia-N	00608	142	✓	Mercury	71900	140005
✓	Nitrate-Nitrate N	00630	110	✓	Selenium	01147	1401
✓	Nitrite N	00615	101017		Silver	01077	
	MBAS	38260					
✓	Chloride	00940	19		Aluminum	01105	
	Fluoride	00951		✓	Calcium	00918	138
	Color*	00081		✓	Copper	01042	14005
✓	Turbidity*	00076	170	✓	Iron	01045	1149
✓	Conductance*, SPEC	00095	142	✓	Magnesium	00927	157
✓	Sulfate	00945	123	✓	Manganese	01055	1402
	Total Solids	00500		✓	<del>Alkal.</del>	01067	
✓	Dissolved Solids	70300	194	✓	Potassium	00937	1410
				✓	Sodium	00929	157
				✓	Zinc	01092	14005
				✓	C.O.D		19

\*Results reported in units, all others in milligrams per liter (ppm)

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DEPARTMENT OF HEALTH AND MENTAL HYGIENE

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CO162411738

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: M.D.5-2 Name: Kayston County: Prince Georges

Source of Sample: \_\_\_\_\_ Street: \_\_\_\_\_ Town or City: \_\_\_\_\_ Collector: Bellican

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Monitor

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<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
County	Plant No.	Sampling Station	Date Collected	Time	Acid	Iced
		52	06/18/88			
Field Data:	<input type="text"/>	Chlorine Residual	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	pH*		Free	Total	Specific Conductance	

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	16.11	<input checked="" type="checkbox"/> Arsenic	01002	140.011
<input checked="" type="checkbox"/> Alkalinity (Total)	00410	112	<input checked="" type="checkbox"/> Barium	01007	1110.11
<input type="checkbox"/> pH*, Ca CO <sub>3</sub> , SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	1150.011
<input type="checkbox"/> Alkalinity, Ca CO <sub>3</sub> , SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	1110.011
<input checked="" type="checkbox"/> Hardness	00900	140	<input checked="" type="checkbox"/> Lead	01051	1140.015
<input checked="" type="checkbox"/> Ammonia-N	00608	140.2	<input checked="" type="checkbox"/> Mercury	71900	110.010.015
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630	171	<input checked="" type="checkbox"/> Selenium	01147	1110.011
<input checked="" type="checkbox"/> Nitrite N	00615	100.07	<input type="checkbox"/> Silver	01077	
<input type="checkbox"/> MBAS	38260		<input type="checkbox"/> Aluminum	01105	
<input checked="" type="checkbox"/> Chloride	00940	111	<input checked="" type="checkbox"/> Calcium	00916	1118.2
<input type="checkbox"/> Fluoride	00951		<input checked="" type="checkbox"/> Copper	01042	1110.015
<input type="checkbox"/> Color*	00081		<input checked="" type="checkbox"/> Iron	01045	1110.29
<input checked="" type="checkbox"/> Turbidity*	00078	126	<input checked="" type="checkbox"/> Magnesium	00927	1114.5
<input checked="" type="checkbox"/> Conductance*, SPEC	00095	1119	<input checked="" type="checkbox"/> Manganese	01055	1110.18
<input checked="" type="checkbox"/> Sulfate	00945	127	<input type="checkbox"/> Nickel	01067	
<input checked="" type="checkbox"/> Total Solids	00500		<input checked="" type="checkbox"/> Potassium	00937	1111.0
<input checked="" type="checkbox"/> Dissolved Solids	70300	110.6	<input checked="" type="checkbox"/> Sodium	00929	1115.2
			<input checked="" type="checkbox"/> Zinc	01092	1110.015
			<input checked="" type="checkbox"/> C.O.D		1111.0

\*Results reported in units, all others in milligrams per liter (ppm)

JUN 20 1988

DAVID A. SEVDALIAN  
ART 02962

Date Received: JUN 21 1988 Date Reported: \_\_\_\_\_ Chemist: \_\_\_\_\_

C.O.C

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration

201 W. Preston St.

P.O. Box 2355, Baltimore, Maryland 21203

J. Mehsen Joseph, Ph.D., Director

C0162121738

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: M.D. 5-3 Name: Kepton County: Harold

Source of Sample: \_\_\_\_\_ Street: \_\_\_\_\_ Town or City: \_\_\_\_\_ Collector: Becker

Sample Type (Circle): Community Source Non-Community Distribution Private MCL Emergency Recheck Routine

Remarks: Am 702 P

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County: [ ] [ ] Plant No.: [ ] [ ] [ ] [ ] Sampling Station: [ ] [ ] [ ] 53 Date Collected: [ ] [ ] [ ] [ ] 062188 Time: [ ] [ ] [ ] [ ] Acid: [ ] Iced: [ ] Field Data: pH\*: [ ] [ ] [ ] Chlorine Residual: [ ] [ ] Free: [ ] [ ] Total: [ ] [ ] Specific Conductance: [ ] [ ] [ ] [ ] [ ] [ ]

Table with 7 columns: ANALYSIS, CODE, RESULTS, ANALYSIS, CODE, RESULTS. Rows include pH\*, Alkalinity (Total), Hardness, Ammonia-N, Nitrate-Nitrate N, Nitrite N, MBAS, Chloride, Fluoride, Color\*, Turbidity\*, Conductance\*, Sulfate, Total Solids, Dissolved Solids, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Aluminum, Calcium, Copper, Iron, Magnesium, Manganese, Nickel, Potassium, Sodium, Zinc, and C.O.D.

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: JUN 21 1988 Date Reported: JUN 30 1988 Chemist: DAVID A. REYDALAN 102963

C.O.C

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Laboratories Administration  
201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

Lab No. C0162431738

WATER ANALYSIS

Bottle Number: MD-54 Name: Kepler County: Carroll

Source of Sample: \_\_\_\_\_ Street \_\_\_\_\_ Town or City \_\_\_\_\_ Collector: Shawn Bellum

Sample Type (Circle): Community Source Non-Community Distribution Private MCL Emergency Recheck Routine

Remarks: Home

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County: [ ] [ ] [ ] Plant No.: [ ] [ ] [ ] [ ] Sampling Station: SH Date Collected: 062189 Time: [ ] [ ] [ ] [ ] Acid: [ ] Iced: [ ]  
Field Data: pH: [ ] [ ] Chlorine Residual: [ ] [ ] Free: [ ] [ ] Total: [ ] [ ] Specific Conductance: [ ] [ ] [ ] [ ] [ ] [ ]

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	7.0	<input checked="" type="checkbox"/> Arsenic	01002	<0.01
<input checked="" type="checkbox"/> Alkalinity (Total)	00410	127	<input checked="" type="checkbox"/> Barium	01007	<0.1
<input type="checkbox"/> pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	<0.01
<input type="checkbox"/> Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	<0.01
<input checked="" type="checkbox"/> Hardness	00900	169	<input checked="" type="checkbox"/> Lead	01051	<0.05
<input checked="" type="checkbox"/> Ammonia-N	00608	1.02	<input checked="" type="checkbox"/> Mercury	71800	<0.01
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630	6.0	<input checked="" type="checkbox"/> Selenium	01147	<0.1
<input checked="" type="checkbox"/> Nitrite N	00615	0.96	<input type="checkbox"/> Silver	01077	
<input type="checkbox"/> MBAS	38260				
<input checked="" type="checkbox"/> Chloride	00940	27	<input type="checkbox"/> Aluminum	01105	
<input type="checkbox"/> Fluoride	00951		<input checked="" type="checkbox"/> Calcium	00916	127
<input type="checkbox"/> Color*	00081		<input checked="" type="checkbox"/> Copper	01042	<0.95
<input checked="" type="checkbox"/> Turbidity*	00078	2.2	<input checked="" type="checkbox"/> Iron	01045	1.3
<input checked="" type="checkbox"/> Conductance*, SPEC	00095	190	<input checked="" type="checkbox"/> Magnesium	00927	78
<input checked="" type="checkbox"/> Sulfate	00945	19.0	<input checked="" type="checkbox"/> Manganese	01055	0.92
<input type="checkbox"/> Total Solids	00500		<input type="checkbox"/> Nickel	01067	
<input checked="" type="checkbox"/> Dissolved Solids	70300	13.6	<input checked="" type="checkbox"/> Potassium	00937	24
			<input checked="" type="checkbox"/> Sodium	00929	76
			<input checked="" type="checkbox"/> Zinc	01092	<0.05
			<input checked="" type="checkbox"/> C.O.D.		15

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: JUN 21 1989 Date Reported: 6/30/89 Chemist: AS

DAVID A. SEYDALIAN  
MNF 02964

C.O.C

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
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P.O. Box: 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

C0162441738

Lab No.

WATER ANALYSIS

Bottle Number: M.D.S-5 Name: Keystone County: Prince Georges

Source of Sample: \_\_\_\_\_ Street: \_\_\_\_\_ Town or City: \_\_\_\_\_ Collector: Beeman

Sample Type (Circle): Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Amford

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<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
County	Plant No.	Sampling Station	Date Collected	Time	Acid	Iced
		<u>55</u>	<u>062188</u>			
Field Data:	<input type="checkbox"/>	Chlorine Residual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	pH*		Free	Total	Specific Conductance	

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	11159	<input checked="" type="checkbox"/> Arsenic	01002	11<0001
<input checked="" type="checkbox"/> Alkalinity (Total)	00410	11116	<input checked="" type="checkbox"/> Barium	01007	11<0011
<input type="checkbox"/> pH*, Ca CO <sub>3</sub> SAT.	70311	111111	<input checked="" type="checkbox"/> Cadmium	01027	11<0001
<input type="checkbox"/> Alkalinity, Ca CO <sub>3</sub> SAT.	74023	111111	<input checked="" type="checkbox"/> Chromium	01034	11<0001
<input checked="" type="checkbox"/> Hardness	00900	111711	<input checked="" type="checkbox"/> Lead	01051	11<0005
<input checked="" type="checkbox"/> Ammonia-N	00608	11<1024	<input checked="" type="checkbox"/> Mercury	71900	1<000005
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630	11176	<input checked="" type="checkbox"/> Selenium	01147	11<0001
<input checked="" type="checkbox"/> Nitrite N	00815	11<10110	<input type="checkbox"/> Silver	01077	111111
<input type="checkbox"/> MBAS	38260	111111	<input type="checkbox"/> Aluminum	01105	111111
<input checked="" type="checkbox"/> Chloride	00940	111321	<input checked="" type="checkbox"/> Calcium	00918	111114
<input type="checkbox"/> Fluoride	00951	111111	<input checked="" type="checkbox"/> Copper	01042	11<0005
<input type="checkbox"/> Color*	00081	111111	<input checked="" type="checkbox"/> Iron	01045	111741
<input checked="" type="checkbox"/> Turbidity*	00076	11981	<input checked="" type="checkbox"/> Magnesium	00927	11178
<input checked="" type="checkbox"/> Conductance*, SPEC	00095	112110	<input checked="" type="checkbox"/> Manganese	01055	111967
<input checked="" type="checkbox"/> Sulfate	00945	111114	<input type="checkbox"/> Nickel	01067	111111
<input type="checkbox"/> Total Solids	00500	111111	<input checked="" type="checkbox"/> Potassium	00937	11129
<input checked="" type="checkbox"/> Dissolved Solids	70300	111184	<input checked="" type="checkbox"/> Sodium	00929	111185
			<input checked="" type="checkbox"/> Zinc	01092	11<0005
			<input checked="" type="checkbox"/> C.O.D.		11123

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: JUN 21 1989 Date Reported: 30 1989 Chemist: DAVID A. SEVDALIAN

AR 102965

C.O.C

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

CO162451738

Lab No.

WATER ANALYSIS

Bottle Number M.D. 5-6 Name: Keystone County: Prince

Source of Sample: \_\_\_\_\_ Street \_\_\_\_\_ Town or City \_\_\_\_\_ Collector: Beeman

Sample Type (Circle):  Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Hand on

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<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
County	Plant No.	Sampling Station	Date Collected	Time	Acid	Iced
Field Data:	<input type="text"/>	Chlorine Residual	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	pH*		Free	Total	Specific Conductance	

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	59	<input checked="" type="checkbox"/> Arsenic	01002	<0.01
<input checked="" type="checkbox"/> Alkalinity (Total)	00410	111	<input checked="" type="checkbox"/> Barium	01007	<0.1
pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	<0.01
<input checked="" type="checkbox"/> Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	<0.01
<input checked="" type="checkbox"/> Hardness	00900	164	<input checked="" type="checkbox"/> Lead	01051	<0.05
<input checked="" type="checkbox"/> Ammonia-N	00608	0.2	<input checked="" type="checkbox"/> Mercury	71900	<0.0095
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630	91	<input checked="" type="checkbox"/> Selenium	01147	<0.01
<input checked="" type="checkbox"/> Nitrite N	00615	0.015	<input type="checkbox"/> Silver	01077	
MBAS	38260				
<input checked="" type="checkbox"/> Chloride	00940	20	<input type="checkbox"/> Aluminum	01105	
Fluoride	00951		<input checked="" type="checkbox"/> Calcium	00916	120
Color*	00081		<input checked="" type="checkbox"/> Copper	01042	<0.05
<input checked="" type="checkbox"/> Turbidity*	00076	25	<input checked="" type="checkbox"/> Iron	01045	0.64
<input checked="" type="checkbox"/> Conductance*, SPEC	00095	171	<input checked="" type="checkbox"/> Magnesium	00927	169
<input checked="" type="checkbox"/> Sulfate	00945	9.7	<input checked="" type="checkbox"/> Manganese	01055	0.01
<input checked="" type="checkbox"/> Total Solids	00500		<input type="checkbox"/> Nickel	01067	
<input checked="" type="checkbox"/> Dissolved Solids	70300	135	<input checked="" type="checkbox"/> Potassium	00937	14
			<input checked="" type="checkbox"/> Sodium	00929	159
			<input checked="" type="checkbox"/> Zinc	01092	0.05
			<u>C.O.C.</u>		
					19

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received

Date Reported

JUN 30 1988

Chemist

DAVID A. SEVDALIAN 956





C.O.C.

STATE OF MARYLAND  
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
 Laboratories Administration  
 201 W. Preston St.  
 P.O. Box 2355, Baltimore, Maryland 21203  
 J. Mehsen Joseph, Ph.D., Director

CO163191748  
Lab No.

WATER ANALYSIS

File Number: M.D.W-R-1A Name: Kayston County: Prince Georges

Source of Sample: Wetlands - 681 Matthis Rd. Collector: Bellum  
Street Town or City

Sample Type (Circle): Community Source Non-Community Distribution Private MCL Emergency Recheck Routine

Remarks: Anderson Copies to Ronald Nelson Only

County:    Plant No.:     Sampling Station: WRIA Date Collected: 062288 Time:    Acid:  Iced:

Field Data: pH:    Chlorine Residual:   Free:   Total:   Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
✓ pH*	00403	6.9	✓ Arsenic	01002	<0.01
✓ Alkalinity (Total)	00410	54	✓ Barium	01007	<0.1
pH*, Ca CO, SAT.	70311		✓ Cadmium	01027	<0.005
Alkalinity, Ca CO, SAT.	74023		✓ Chromium	01034	<0.01
✓ Hardness	00900	87	✓ Lead	01051	<0.01
✓ Ammonia-N	00608	<0.2	✓ Mercury	71900	<0.0005
✓ Nitrate-Nitrate N	00630	18.4	✓ Selenium	01147	<0.01
✓ Nitrite N	00615	0.002	Silver	01077	
MBAS	38260				
✓ Chloride	00940	12	Aluminum	01105	
Fluoride	00951		✓ Calcium	00916	229
Color*	00081		✓ Copper	01042	<0.05
✓ Turbidity*	00078	1.8	✓ Iron	01045	0.13
✓ Conductance*, SPEC	00095	209	✓ Magnesium	00927	7.6
✓ Sulfate	00945	5.9	✓ Manganese	01055	<0.01
Total Solids	00500		Nickel	01067	
✓ Dissolved Solids	70300	142	✓ Potassium	00937	<1.0
			✓ Sodium	00929	9.9
			✓ Zinc	01092	<0.05
			✓ C.O.D.		22

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: JUN 22 1988 Date Reported: 7/1/88 Chemist: NO ART02968

C.O.C.

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration

201 W. Preston St.

Baltimore, Maryland 21203

J. Mense Joseph, Ph.D., Director

CO163201748

Lab No.

WATER ANALYSIS

Bottle Number: W.D. W-2 Name: Kayston County: Carr

Source of Sample: Crawford - 1273 Humbert School Rd. Street: Crawford Town or City: Bell Collector: Bell

Sample Type (Circle): Community Source  Non-Community Distribution  Private MCL  Emergency Recheck  Routine

Remarks: Amion

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County:  Plant No.:  Sampling Station: WK2 Date Collected: 062288 Time:  Acid:  Iced:   
Field Data: pH:  Chlorine Residual:  Free:  Total:  Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	6.7	<input checked="" type="checkbox"/> Arsenic	01002	<0.01
<input checked="" type="checkbox"/> Alkalinity (Total)	00410	146	<input checked="" type="checkbox"/> Barium	01007	<100
<input type="checkbox"/> pH*, Ca CO <sub>3</sub> SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	<0.005
<input type="checkbox"/> Alkalinity, Ca CO <sub>3</sub> SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	<0.01
<input checked="" type="checkbox"/> Hardness	00900	85	<input checked="" type="checkbox"/> Lead	01051	<0.01
<input checked="" type="checkbox"/> Ammonia-N	00608	<0.2	<input checked="" type="checkbox"/> Mercury	71900	<0.0005
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630	76	<input checked="" type="checkbox"/> Selenium	01147	<0.01
<input checked="" type="checkbox"/> Nitrite N	00615	0.014	<input type="checkbox"/> Silver	01077	
<input type="checkbox"/> MBAS	38260		<input type="checkbox"/> Aluminum	01105	
<input checked="" type="checkbox"/> Chloride	00940	14	<input type="checkbox"/> Calcium	00916	27.0
<input type="checkbox"/> Fluoride	00951		<input checked="" type="checkbox"/> Copper	01042	<0.05
<input type="checkbox"/> Color*	00081		<input checked="" type="checkbox"/> Iron	01045	<0.05
<input checked="" type="checkbox"/> Turbidity*	00076	0.6	<input checked="" type="checkbox"/> Magnesium	00927	27.9
<input checked="" type="checkbox"/> Conductance*, SPEC	00095	165	<input checked="" type="checkbox"/> Manganese	01055	<0.01
<input checked="" type="checkbox"/> Sulfate	00945	19.4	<input type="checkbox"/> Nickel	01067	
<input type="checkbox"/> Total Solids	00500		<input checked="" type="checkbox"/> Potassium	00937	<1.0
<input checked="" type="checkbox"/> Dissolved Solids	70300	14.0	<input checked="" type="checkbox"/> Sodium	00929	8.0
			<input checked="" type="checkbox"/> Zinc	01092	<0.05
			<input checked="" type="checkbox"/> C.O.C.		14

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received: JUN 22 1988

Date Reported: 7/5/88

Chemist: [Signature]

AR102969

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration

201 W. Preston St.

P.O. Box 2355, Baltimore, Maryland 21203

J. Mehsen Joseph, Ph.D., Director

C0163211748

Lab No.

*C.O.D.*

WATER ANALYSIS

File Number: M.D. WK-3 Name: Keystone County: Prince George's

Source of Sample: Eddy 1142 Humbert School Rd. Collector: Ballman  
Street Town or City

Sample Type (Circle): Community Source  Non-Community Distribution  Private  Emergency Recheck  Routine   
MCL

Remarks: Amended

\*Copies to Ronald Nelson Only

County:  Plant No.:  Sampling Station: WK3 Date Collected: 062288 Time:  Acid:  Iced:

Field Data: pH\*:  Chlorine Residual:  Free:  Total:  Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	00403	5.9	<input checked="" type="checkbox"/> Arsenic	01002	<0.01
<input checked="" type="checkbox"/> Alkalinity (Total)	00410	2.8	<input checked="" type="checkbox"/> Barium	01007	<0.1
pH*, Ca CO <sub>3</sub> , SAT.	70311		<input checked="" type="checkbox"/> Cadmium	01027	<0.005
Alkalinity, Ca CO <sub>3</sub> , SAT.	74023		<input checked="" type="checkbox"/> Chromium	01034	<0.01
<input checked="" type="checkbox"/> Hardness	00900	4.4	<input checked="" type="checkbox"/> Lead	01051	<0.01
<input checked="" type="checkbox"/> Ammonia-N	00608	<0.2	<input checked="" type="checkbox"/> Mercury	71900	<0.0005
<input checked="" type="checkbox"/> Nitrate-Nitrate N	00630	3.8	<input checked="" type="checkbox"/> Selenium	01147	<0.01
<input checked="" type="checkbox"/> Nitrite N	00615	0.002	Silver	01077	
MBAS	38260				
<input checked="" type="checkbox"/> Chloride	00940	9	Aluminum	01105	
Fluoride	00951		<input checked="" type="checkbox"/> Calcium	00916	1.07
Color*	00081		<input checked="" type="checkbox"/> Copper	01042	0.26
<input checked="" type="checkbox"/> Turbidity*	00076	<0.05	<input checked="" type="checkbox"/> Iron	01045	<0.05
<input checked="" type="checkbox"/> Conductance*, SPEC	00095	202	<input checked="" type="checkbox"/> Magnesium	00927	3.5
<input checked="" type="checkbox"/> Sulfate	00945	<1	<input checked="" type="checkbox"/> Manganese	01055	<0.01
Total Solids	00500		Nickel	01067	
<input checked="" type="checkbox"/> Dissolved Solids	70300	7.2	<input checked="" type="checkbox"/> Potassium	00937	<1.0
			<input checked="" type="checkbox"/> Sodium	00929	6.0
			Zinc	01092	<0.05
			<input checked="" type="checkbox"/> C.O.D.		15

\*Results reported in units, all others in milligrams per liter (ppm)

AR102970

Date Received: JUN 22 1988 Date Reported: \_\_\_\_\_ Chemist: \_\_\_\_\_

STATE OF MARYLAND  
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
 Laboratories Administration  
 201 W. Preston St.  
 P.O. Box 2355, Baltimore, Maryland 21203  
 J. Mehsen Joseph, Ph.D., Director

CC163221748

Lab No. \_\_\_\_\_

WATER ANALYSIS

Bottle Number: M.D.W-R-4 Name: Keystone County: Carroll

Source of Sample: DAVIS -1144 Humbert School Rd. Collector: Bachman  
Street Town or City

Sample Type (Circle): Community Source Non-Community Distribution Private MCL Emergency Recheck Routine

Remarks: AMIXED

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County:   Plant No.:     Sampling Station: WR4 Date Collected: 062288 Time:     Acid:  Iced:

Field Data: pH:    Chlorine Residual: Free   Total   Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
✓ pH*	00403	8.4	✓ Arsenic	01002	<0.01
✓ Alkalinity (Total)	00410	19	✓ Barium	01007	<0.1
pH*, Ca CO <sub>3</sub> SAT.	70311		✓ Cadmium	01027	<0.005
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		✓ Chromium	01034	<0.01
✓ Hardness	00900	53	✓ Lead	01051	<0.01
✓ Ammonia-N	00608	<0.2	✓ Mercury	71900	<0.0005
✓ Nitrate-Nitrate N	00630	7.9	✓ Selenium	01147	<0.01
✓ Nitrite N	00615	0.04	Silver	01077	
MBAS	38260				
✓ Chloride	00940	8	Aluminum	01105	
Fluoride	00951		✓ Calcium	00916	123
Color*	00081		✓ Copper	01042	0.09
✓ Turbidity*	00076	0.6	✓ Iron	01045	<0.05
✓ Conductance*, SPEC	00095	113	✓ Magnesium	00927	45
✓ Sulfate	00945	42	✓ Manganese	01055	<0.01
Total Solids	00500		Nickel	01067	
✓ Dissolved Solids	70300	86	✓ Potassium	00937	<1.0
			✓ Sodium	00929	4.6
			✓ Zinc	01092	<0.05
			✓ C.D.D.		1.8

\*Results reported in units, all others in milligrams per liter (ppm)

ART02971

STATE OF MARYLAND  
DEPARTMENT OF HEALTH AND MENTAL HYGIENE  
Laboratories Administration  
201 W. Preston St.  
P.O. Box 2355, Baltimore, Maryland 21203  
J. Mehsen Joseph, Ph.D., Director

16323  
CO163231748

WATER ANALYSIS

Title Number: M-D-W-K-5 Name: Kepton County: Baltimore

Source of Sample: Conway 5149 Bienville Rd Collector: Bellum  
Street Town or City

Sample Type (Circle): Community Source Non-Community Distribution Private MCL Emergency Recheck Routine

Remarks: AMTOD

\*Copies to Ronald Nelson Only

County:    Plant No.:    Sampling Station: UK5 Date Collected: 062258 Time:    Acid:  Iced:

Field Data: pH:   Chlorine Residual:   Free:   Total:   Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
✓ pH*	00403	7.0	✓ Arsenic	01002	<0.01
✓ Alkalinity (Total)	00410	60	✓ Barium	01007	<0.1
pH*, Ca CO <sub>3</sub> SAT.	70311		✓ Cadmium	01027	<0.005
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		✓ Chromium	01034	<0.01
✓ Hardness	00900	53	✓ Lead	01051	<0.01
✓ Ammonia-N	00608	<0.2	✓ Mercury	71900	<0.0005
✓ Nitrate-Nitrate N	00630	17	✓ Selenium	01147	<0.01
✓ Nitrite N	00615	0.002	Silver	01077	
MBAS	38260				
✓ Chloride	00940	4	Aluminum	01105	
Fluoride	00951		✓ Calcium	00916	211
Color*	00081		✓ Copper	01042	<0.05
✓ Turbidity*	00076	10	✓ Iron	01045	<0.05
✓ Conductance*, SPEC	00095	133	✓ Magnesium	00927	23
✓ Sulfate	00945	21	✓ Manganese	01055	<0.01
Total Solids	00500		Nickel	01067	
✓ Dissolved Solids	70300	86	✓ Potassium	00937	<10
			✓ Sodium	00929	66
			✓ Zinc	01092	<0.05
			✓ C.O.D.		13

\*Results reported in units, all others in milligrams per liter (ppm)

AR102972

C.D.C.

WATER ANALYSIS

Bottle Number: W.D. W-6 Name: Keyston County: Barrow

Source of Sample: Huff 1226 Humboldt School Rd. Collector: Ballance  
Street Town or City

Sample Type (Circle): Community Source Non-Community Distribution Private MCL Emergency Recheck Routine

Remarks: Ammonia /Copies to Ronald Nelson Only

County: [ ] Plant No.: [ ] Sampling Station: W-6 Date Collected: 062288 Time: [ ] Acid: [ ] Iced: [ ]  
Field Data: pH\*: [ ] Chlorine Residual: [ ] Free: [ ] Total: [ ] Specific Conductance: [ ]

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
✓ pH*	00403	6.2	✓ Arsenic	01002	<0.01
✓ Alkalinity (Total)	00410	22	✓ Barium	01007	<0.01
pH*, Ca CO <sub>3</sub> SAT.	70311		✓ Cadmium	01027	<0.005
Alkalinity, Ca CO <sub>3</sub> SAT.	74023		✓ Chromium	01034	<0.01
✓ Hardness	00900	56	✓ Lead	01051	<0.01
✓ Ammonia-N	00608	<0.2	✓ Mercury	71900	<0.0005
✓ Nitrate-Nitrate N	00630	78	✓ Selenium	01147	<0.01
✓ Nitrite N	00615	0.005	Silver	01077	
MBAS	38260				
✓ Chloride	00940	13	Aluminum	01105	
Fluoride	00951		✓ Calcium	00916	1.54
Color*	00081		✓ Copper	01042	0.10
✓ Turbidity*	00076	2.1	✓ Iron	01045	0.09
✓ Conductance*, SPEC	00095	145	✓ Magnesium	00927	44
✓ Sulfate	00945	8.0	✓ Manganese	01055	<0.01
Total Solids	00500		Nickel	01067	
✓ Dissolved Solids	70300	100	✓ Potassium	00937	1.3
			✓ Sodium	00929	5.9
			✓ Zinc	01092	<0.05
			✓ C.D.C.		15

\*Results reported in units, all others in milligrams per liter (ppm)

Date Received JUN 22 1988 Date Reported \_\_\_\_\_ Chemist AR102973