

60850

GERAGHTY & MILLER, INC.

MONITORING WELL SAMPLES

AR300218

DIMH/OEP/SSD
TRACE ORGANICS ANALYSIS

Co. HARTFORD

SI 12434 1/22/83

SAMPLE STATION 0211

Date of Collection	3/17/83	5/22/83	7/21/83	3/21/85	7/21/86	7/16/87				
Sample Number	1486	2272	263	2775	0517	880210				
CHLOROMETHANE		22	21	21	21	21				
BROMOMETHANE		21								
DICHLORODIFLUOROMETHANE										
VINYL CHLORIDE										
CHLOROETHANE		✓								
ETHYLENE CHLORIDE		1								
TRICHLOROFLUOROMETHANE		21								
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										
1-CHLOROETHYL VINYLETHER										
BROMOFORM										
1,1,2,2-TETRACHLOROETHANE										
1,1,1,2-TETRACHLOROETHANE										
CHLOROBENZENE										
TOTAL TRIHALOMETHANES										
BENZENE										
TOLUENE										
ETHYLBENZENE			✓	✓	✓	✓				
TOTAL XYLENES		22	22	22	22	22				
TOTAL PURGEABLE HC.										
TETRAHYDROFURAN										
ETHYLETHYLKETONE										
2-BUTANONE (MEK)				3	3	11				
ETHYLISOBUTYLKETONE (MIBK)										
Acetone						31				
2-Propanol						144				

AR300219

DHM/OEP/SSD

TRACE ORGANICS ANALYSIS

Co: Hampord

SAMPLE STATION

04042

ITE BUSK VALLEY

Date of Collection	3/17/83	4/22/83	7/24/83	3/21/85	7/3/86	7/16/87			
Sample Number	1457	2273	364	2776	6518	88211			
CHLOROMETHANE		22	21	21	<1	21			
BROMOMETHANE					<1				
TRICHLORODIFLUOROMETHANE					3				
VINYL CHLORIDE					<1	✓			
CHLOROETHANE		✓	✓		21	3			
ETHYLENE CHLORIDE	4	2			7	<1			
TRICHLOROFLUOROMETHANE		21	21		21				
1,1-DICHLOROETHENE					<1				
1,1-DICHLOROETHANE					2				
TRANS-1,2-DICHLOROETHENE					2				
CHLOROFORM					<1	✓			
1,2-DICHLOROETHANE					8	2	21	2	
1,1,1-TRICHLOROETHANE					<1	<1			
CARBON TETRACHLORIDE									
BROMODICHLOROMETHANE									
1,2-DICHLOROPROPANE									
TRANS-1,3-DICHLOROPROPENE					✓	✓			
TRICHLOROETHENE					3	5	6	<1	
1-BROMOCHLOROMETHANE					<1	<1			
1,1,2-TRICHLOROETHANE									
CIS-1,3-DICHLOROPROPENE									
1,2-DICHLOROETHYL VINYL ETHER									
BROMOFORM									
1,1,2,2-TETRACHLOROETHANE					✓				
1,1,1,2-TETRACHLOROETHANE					7				
CHLOROBENZENE					<1				
TOTAL TRIHALOMETHANES					3				
BENZENE									
TOLUENE					<1	✓			
ETHYLBENZENE	✓	✓	✓		<1	14			
TOTAL XYLENES	22	22	22		27	67			
TOTAL PURGEABLE HC.									
TETRAHYDROFURAN						63			
METHYLETHYLKETONE									
2-BUTANONE (MEK)									
METHYLISOBUTYLKETONE (MIBK)									
ethyl ether									ORS.

AR300220

DIWH/OEP/SSD
TRACE ORGANICS ANALYSIS

Co - HANFORD

W 1765H 1/19/84

SAMPLE STATION 041141

Collection	1/17/83	6/21/83	7/25/83	3/21/85	7/31/86	7/14/87	7-7-88	2-22-90
Number	1458	2274	365	2777	6514	880212		
BROMOMETHANE		41		41	4	3	11	25
BROMOMETHANE	7	41		41	<1	<1	<1	<1
CHLORODIFLUOROMETHANE		285	245	55	16	23	6	<1
ETHYL CHLORIDE	7	15	23	22	10	7	2	<1
CHLOROETHANE		213	16	23	12	12	12	<1
ETHYLENE CHLORIDE	120	700	260	96	7	9	<1	<1
TRICHLOROFLUOROMETHANE	5	13	7	5	2	<1	<1	<1
1,1-DICHLOROETHENE				<1	<1	<1	<1	<1
1,2-DICHLOROETHANE	5	49	63	109	53	46	23	<1
TRANS-1,2-DICHLOROETHENE	1	4	5	62	27	32	4	<1
CHLOROFORM				<1	<1	<1	<1	<1
1,1-DICHLOROETHANE		3	5	80	<1	49	<1	1
1,1,1-TRICHLOROETHANE	3	8		<1	54	<1	<1	11
CARBON TETRACHLORIDE					<1		<1	<1
1,1-DICHLOROETHANE					<1		<1	<1
1,2-DICHLOROPROPANE					7	6	4	<1
TRANS-1,3-DICHLOROPROPANE				✓	<1	<1	<1	<1
TRICHLOROETHENE	2	4	5	18	13	9	3	<1
BROMOCHLOROMETHANE				<1	<1	<1	<1	4
1,1,2-TRICHLOROETHANE							<1	<1
TRANS-1,3-DICHLOROPROPENE							<1	<10
CHLOROETHYL VINYL ETHER							<1	<1
CHLOROFORM							<1	<1
1,1,2,2-TETRACHLOROETHANE				✓	✓	✓	<1	<1
TRICHLOROETHENE	15	25	70	40	7	12	<1	<1
BROMOBENZENE				5	8	8	<1	<1
TOTAL TRIHALOMETHANES							2	2
BENZENE	7	12	17	41	18	14	7	<1
TOLUENE				<1	<1	<1	<1	5
ETHYLBENZENE			5	<1	<1	<1	<1	<1
TOTAL XYLENES	2	4	15	2	22	22	22	22
TOTAL PURGEABLE HC.								
TETRAHYDROFURAN						8		
ETHYLETHYLKETONE								
2-BUTANONE (MEK)								
ETHYLISOBUTYLKETONE (MIBK)								
ETHYL ETHER	11	30	32		85	101	49	
1,2-DIBROMOETHANE				1				
FREON 12	62							
TRACE ORGANICS	✓	✓	✓	✓	✓	✓		
2-N-BUTANOL					240			

AR300221

Bush Valley Landfil

Site Sampling Background Information

July 11, 1984

David Healy *DA*

AR300222

Bush Valley Landfill

Outlined below is a synopsis of activities completed at the Bush Valley Landfill on July 11, 1984. NUS Corporation was assigned to complete a site investigation of this facility under EPA's Dump Site Program. Samples were sent to EPA's contract labs for analysis. After receiving the laboratory analysis, NUS will finalize a draft site investigation report, which will be sent to EPA and WMA in approximately 6-9 months. The following individuals were on-site:

Ric Callahan - NUS Corporation
Marsha Irwin - NUS Corporation
Jim Strickland - NUS Corporation
Randy Dickinson - NUS Corporation
Barry Schiesinger - NUS Corporation
Lloyd Harris - Owner
Frank Henderson - WMA, Support Services Division
David Healy - WMA, Support Services Division
Butch Henderson - WMA, Summer Student
David Berardelli - WMA, Summer Student

Three of the four monitoring wells were sampled. Monitoring well 3 contained one foot of water and did not have enough volume for sampling. The other three wells were bailed prior to sampling. Monitoring well information is as follows:

<u>Monitoring Well</u>	<u>Depth</u>	<u>Depth to Water</u>	<u>Column of Water</u>
1	45	12	33
2	43	9	34
3	19	18	1
4	20	9	11

The Braxton-Harris House was abandoned approximately one year ago, and has a field stone lined, 30 deep, dug well with a hand pump.

There was evidence of leachate seeps around the fill and three seeps were sampled. The sediment pond near monitoring well 3 had tadpoles and at least one frog.

Mr. Harris estimated he has 47 acres on this property, of which, approximately 29 acres has been landfilled.

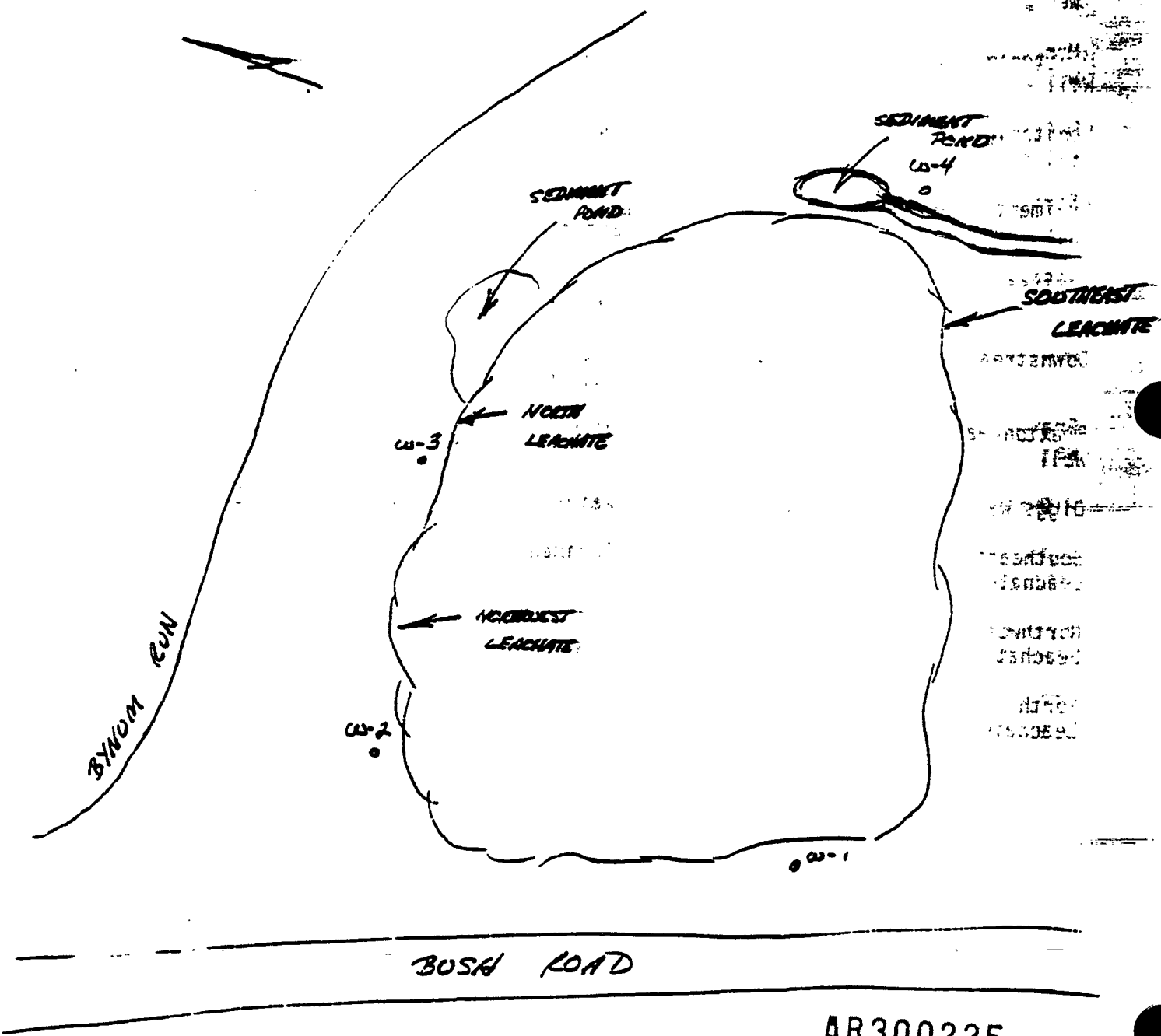
AR300223

Bush Valley Landfill

Sampling Information

<u>Sampling Location</u>	<u>Time</u>	<u>Type of Sample</u>	<u>pH</u>	<u>Specific Conductance</u>
Monitoring Well #1	9:20	Water	5.9	94
Monitoring Well #2	10:25	Water	6.34	56
Monitoring Well #4	11:50	Water	5.64	500
Sediment Pond (near MW-3)	9:50	Water	6.41	200
	9:55	Sediment		
Upstream	10:55	Water	6.43	160
	11:05	Sediment		
Downstream	12:06	Water	6.41	180
	12:10	Sediment		
Braxton-Harris Well	10:35	Water	6.38	60
Diggs Well	12:20	Water	6.69	180
Southeast Leachate	11:45	Sediment		
Northwest Leachate	12:45	Water	7.28	7000
	12:55	Sediment		
North Leachate	13:10	Water	7.33	5200
	13:15	Sediment		

AR300224



AR300225

BRAXTON-HALLS HOUSE

NOT TO

3136

December 15, 1975

Mr. John C. Lawther
Water Resources Administration
Taxes State Office Building
Annapolis, MD 21401

Re: Groundwater Quality Monitoring Wells
Bush Valley Landfill
Harford County

Dear Sir:

The permit numbers for the four wells installed at the subject landfill are as follows:

Permit Numbers: - 73 - 2517
73 - 2526
73 - 2527
73 - 2528

The driller name is Hamilton.

As I said during our recent conversation, three of the wells were recently checked and found to contain turbid water that had a decidedly oily feel. We are concerned that the present condition of the water may cause readings that will not be representative of the groundwater beneath this site.

We would appreciate an investigation of this matter by your Department.

Sincerely yours,

Douglas H. John
Regional Consultant
Division of Solid Waste Control

AR300226

DHJ:mj

cc: Dr. Canfield



DEPARTMENT OF HEALTH AND MENTAL HYGIENE
ENVIRONMENTAL HEALTH ADMINISTRATION

201 WEST PRESTON STREET

BALTIMORE 21201

PHONE • 301-383-3136

NEIL SOLOMON, M.D., PH.D.
SECRETARY

DONALD W. NOREN
DIRECTOR

Address Requested P.O. Box 1337
Baltimore, Maryland 21203

February 19, 1976

Mr. F. J. Handshee
Resources Protection Division
119 Hays Street
P.O. Box 191
Bel Air, Maryland 21014

Dear Jim:

You will find attached our proposed program for monitoring the quality of ground and surface water on and near the Mullins, Tollgate, Scarboro, Madonna, and Bush Valley Landfills. We have also attached the information concerning sampling station locations and data collected previously which you might not have.

At Tollgate, the outfall from the sediment basin nearest U.S. Route 1 has been added as a sampling station. Sampling the discharge from this basin will allow us to monitor the quality of the water which is draining off the most recently filled areas.

We recommend that the following analyses of the samples be requested: Chemical Oxygen Demand, pH, Chlorides, Iron, Total Dissolved Solids, Total Hardness and Sodium. These analyses represent "routine" monitoring of ground and surface waters. Normally, this Division assumes the responsibility for obtaining comprehensive background samples at new landfills.

Of course, the numbers and location of stations will change as existing sites are upgraded or phased out or new sites are established.

AR300227

Mr. F. J. Handshoe
Page 2
February 19, 1976

Samples may have to be collected at intervals more frequent than those shown if the analyses show a significant change in the ground or surface waters near any of the landfills.

If, after reviewing this proposed program, you have any questions or comments, please let us know.

Sincerely yours,

Douglas H. John
Regional Consultant
Division of Solid Waste Control

DHJ:mj

Attachments

cc: John C. Lawther
G. Ward Barstow

AR300228

SAMPLING INFORMATION

<u>Site Name</u>	<u>Station Type</u>	<u>Number</u>	<u>Sample By</u>	<u>Frequency Times/Yr.</u>	<u>Months</u>
TOLLGATE	Mon. Wells	9	SHD	4	3-6-9-12
	Stream	1	CHD	2	4-11
	Sed. Basin Outfall	1	CHD	2	4-11
MULLINS	Potable Wells	5	CHD	4	3-6-9-12
	Stream	2	CHD*	2	3-9
SCARBORO	Mon. Wells	4	SHD	4	3-6-9-12
	Potable Wells	1	CHD	4	3-6-9-12
MADONNA	Spring	1	CHD	4	3-6-9-12
	Potable Wells	3**	CHD	4	3-6-9-12
BUSH VALLEY	Mon. Wells	4	SHD	4	3-6-9-12
	Stream	2*	CHD	2	4-11

* These stations may be dropped if they are included in the monitoring program of the Water Resources Administration.

** The Division of Solid Waste Control will survey the properties near this site to determine which potable wells could serve as monitoring stations. CHD will sample routinely.

2/76

DHJ:mj

AR300229

SAMPLING INFORMATION

<u>Site Name</u>	<u>Station Type</u>	<u>Number</u>	<u>Sample By</u>	<u>Frequency Times/Yr.</u>	<u>Months</u>
TOLLGATE	Mon. Wells	9	SHD	4	3-6-9-12
	Stream	1	CHD	2	4-11
	Sed. Basin Outfall	1	CHD	2	4-11
MULLINS	Potable Wells	5	CHD	4	3-6-9-12
	Stream	2	CHD*	2	3-9
SCARBORO	Mon. Wells	4	SHD	4	3-6-9-12
	Potable Wells	1	CHD	4	3-6-9-12
MADONNA	Spring	1	CHD	4	3-6-9-12
	Potable Wells	3**	CHD	4	3-6-9-12
BUSH VALLEY	Mon. Wells	4	SHD	4	3-6-9-12
	Stream	2*	CHD	2	4-11

* These stations may be dropped if they are included in the monitoring program of the Water Resources Administration.

** The Division of Solid Waste Control will survey the properties near this site to determine which potable wells could serve as monitoring stations. CHD will sample routinely.

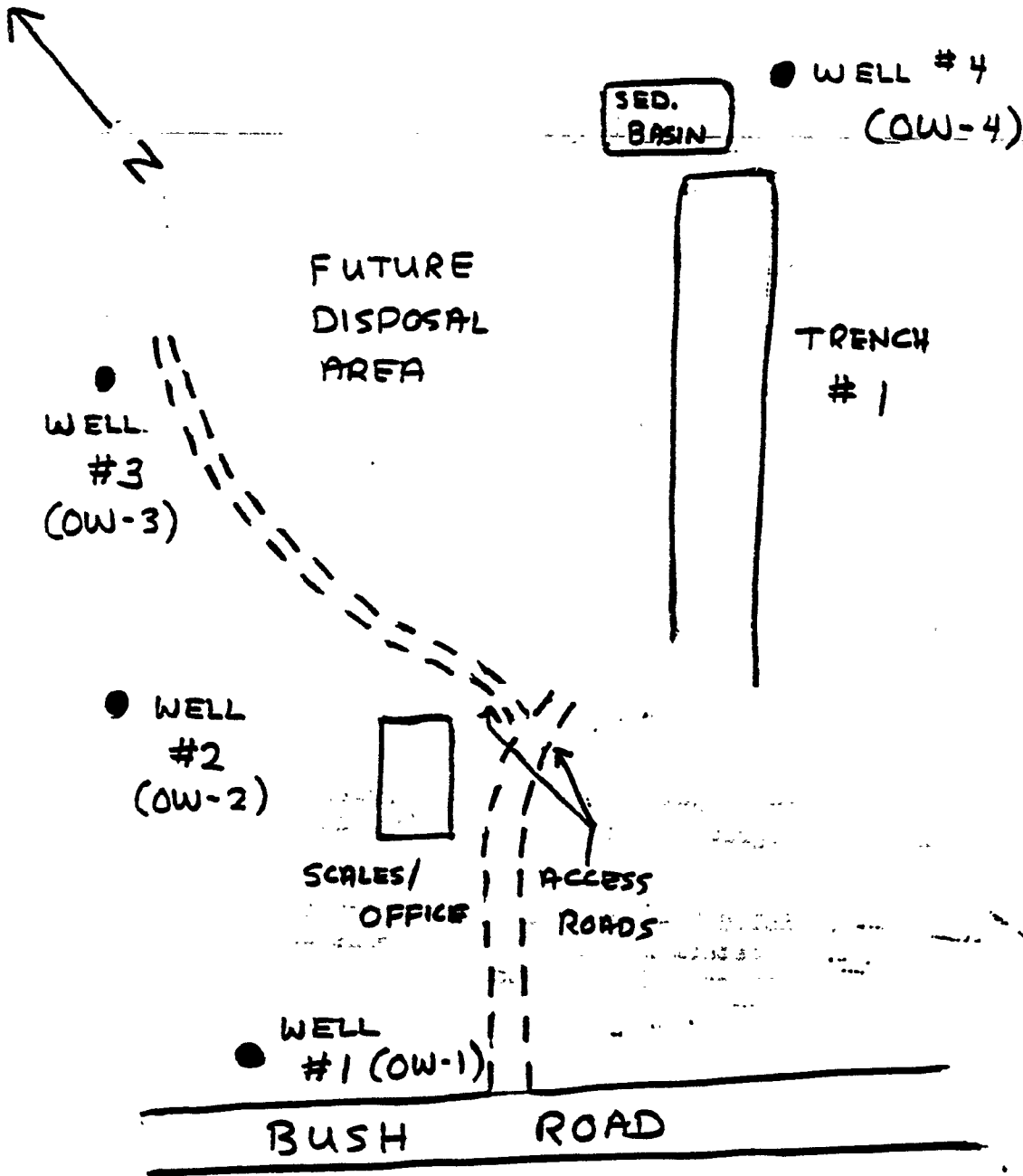
2/76

DHJ:mj

AR300230

BUSH VALLEY LANDFILL

LOCATION OF MONITORING WELLS



WELL NO.

PERMIT NO.

1
2
3
4

73-2517-AR30023M
-2526
-2527
-2528

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

NUMBER BOW-1

HARFORD
NAME OF COUNTY

SOURCE OF SAMPLE BUSH VALLEY COLLECTOR RICH ADAMS

SAMPLE TYPE: DISTRIBUTION SOURCE well OTHER _____
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____ (Specify)

REMARKS: u.s. white

1 TRANS CODE
2 3 COUNTY
4 5 6 7 PLANT NO.
8 9 10 11 OW-1 SAMPLING STATION
12 13 14 15 16 17 071778 DATE COLLECTED
18 19 CARD NO.
20 21 22 FIELD pH
23 24 FIELD RESID. CHLORINE: FREE
25 26 TOTAL

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	6.9		CALCIUM	231	
	COLOR *	020			MAGNESIUM	241	
	TURBIDITY *	031			ARSENIC	253	
✓	ALKALINITY	040	22		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	23		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
✓	HARDNESS	110	34		SILVER	323	
✓	IRON	122	4.2		ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	351	
	ALBUMINOID	153		✓	SODIUM	371	8
	NITRATE	162		✓	TOTAL SOLIDS	381	158
	NITRITE	173		✓			0.0
	MBAS	182		✓			0.3
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

AR300232

RESULTS REPORTED IN UNITS. ALL OTHERS IN MILLIGRAMS PER LITER (PPM)

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

TITLE NUMBER BOW 12

HEARD
NAME OF COUNTY

SOURCE OF SAMPLE BUSH VALLEY SLF COLLECTOR A. Adams

SAMPLE TYPE: DISTRIBUTION _____ SOURCE W OTHER _____
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____ (Specify)

REMARKS: ...

1 TRANS CODE
2 3 COUNTY
4 5 6 7 PLANT NO.
8 9 10 11 OW-2 SAMPLING STATION
12 13 14 15 16 17 071778 DATE COLLECTED
18 19 CARD NO.
20 21 22 FIELD pH
23 24 FIELD RESID. CHLORINE: FREE
25 26 TOTAL

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	8.4		CALCIUM	231	
	COLOR *	020			MAGNESIUM	241	
	TURBIDITY *	031			ARSENIC	253	
✓	ALKALINITY	040	115		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	20		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
✓	HARDNESS	110	25		SILVER	333	
✓	IRON	122	65		ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	361	
	ALBUMINOID	153		✓	SODIUM	371	21
	NITRATE	162		✓	TOTAL SOLIDS	381	270
	NITRITE	173		✓	COD		33
	MBAS	182					
	ALUMINUM	192					
	CYANIDE	202					
✓	SILICA	210					
	SULFATE	220					

AR300233

* RESULTS REPORTED IN UNITS, ALL OTHERS IN MILLIGRAMS PER LITER (PPM)

06255

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

TITLE NUMBER BW-3

HARFORD
NAME OF COUNTY

SOURCE OF SAMPLE BUSH VALLEY

COLLECTOR RICH ADAMS

SAMPLE TYPE: DISTRIBUTION _____ SOURCE WELL OTHER _____
 (Specify)
 COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____

REMARKS: in well

1 TRANS CODE
 2 3 COUNTY
 4 5 6 7 PLANT NO.
 8 9 10 11 OW-3 SAMPLING STATION
 12 13 14 15 16 17 071778 DATE COLLECTED
 18 19 CARD NO.
 20 21 22 FIELD pH
 23 24 FIELD RESID. CHLORINE: FREE
 25 26 TOTAL

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
	pH *	011	6.6		CALCIUM	231	100
	COLOR *	020			MAGNESIUM	241	100
	TURBIDITY *	031			ARSENIC	253	100
	ALKALINITY	040	449		BARIUM	262	100
	BICARBONATE ALK.	050			CADIUM	273	100
	CARBONATE ALK.	060			CHROMIUM +6	282	100
	CARBONATE STAB. pH *	071			COPPER	293	100
	ALKALINITY	080			LEAD	302	100
	CHLORIDE	091	8		MERCURY	314	100
	FLUORIDE	101			SELENIUM	323	100
✓	HARDNESS	110	38		SILVER	333	100
✓	IRON	122	1900		ZINC	342	100
	MANGANESE	133			OIL (GREASE)	351	100
	AMMONIA N. FREE	143			POTASSIUM	361	100
	ALBUMINOID	153		✓	SODIUM	371	112
	NITRATE	162		✓	TOTAL SOLIDS	381	117600
	NITRITE	173		✓	COD		INTERFERENCE
	MBAS	182					AR300234
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

TITLE NUMBER BCW-4

FAIRFAX
NAME OF COUNTY

SOURCE OF SAMPLE BUSH VALLEY

COLLECTOR RICH. ADAMS

SAMPLE TYPE: DISTRIBUTION _____ SOURCE W OTHER _____
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____ (Specify)

REMARKS: _____

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 CARD NO.
 20 21 22 23 24 25 26
 FIELD pH FIELD RESID. CHLORINE: FREE TOTAL

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	6.8		CALCIUM	231	
	COLOR **	020			MAGNESIUM	241	
	TURBIDITY ***	031			ARSENIC	253	
✓	ALKALINITY	040	49		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	9		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
✓	HARDNESS	110	35		SILVER	333	
✓	IRON	122	130		ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	361	
	ALBUMINOID	153			SODIUM	371	
	NITRATE	162			TOTAL SOLIDS	381	454
	NITRITE	173			COD		5
	MBAS	182					
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

AR300235

* RESULTS REPORTED IN UNITS, ALL OTHERS IN MILLIGRAMS PER LITER (PPM)

DATE RECEIVED _____ DATE REPORTED OCT 5 1978 CHEMIST _____ LAB NO. _____

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

SAMPLE NUMBER BOW-1

Hancock Co.
NAME OF COUNTY

SOURCE OF SAMPLE Brush Valley S&LF COLLECTOR Adams

SAMPLE TYPE: DISTRIBUTION _____ SOURCE Well OTHER _____

COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____ (Specify) _____

REMARKS: Division Solid Waste

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 CARD NO.
 20 21 22 23 24 25 26
 FIELD pH FIELD RESID. CHLORINE: FREE TOTAL

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	6.5		CALCIUM	231	
	COLOR *	020			MAGNESIUM	241	
	TURBIDITY *	031			ARSENIC	253	
✓	ALKALINITY	040	20		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	160		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
✓	HARDNESS	110	36		SILVER	333	
✓	IRON	122	120		ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	361	
	ALBUMINOID	153		✓	SODIUM	371	
	NITRATE	162		✓	TOTAL SOLIDS	381	302
	NITRITE	173		✓	COD		INTERFERED
	MBAS	182					
	ALUMINUM	192					AR300236
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

* RESULTS REPORTED IN UNITS. ALL OTHERS IN MILLIGRAMS PER LITER (PPM)

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER BOW-2

Harford Co.
NAME OF COUNTY

SOURCE OF SAMPLE Aush Valley SLF COLLECTOR Adams

SAMPLE TYPE: DISTRIBUTION _____ SOURCE Well OTHER _____
(Specify)
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____

REMARKS: Division Solid Waste

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"/>	<u>BOWR</u>	<u>1</u>	<u>0</u>	<u>1</u>	<u>8</u>	<u>7</u>	<u>8</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
TRANS CODE	COUNTY		PLANT NO.				SAMPLING STATION	DATE COLLECTED						CARD NO.				
FIELD * pH <input type="checkbox"/>			FIELD RESID. CHLORINE: FREE <input type="checkbox"/>			TOTAL <input type="checkbox"/>												

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	<u>6.5</u>		CALCIUM	231	
	COLOR *	020			MAGNESIUM	241	
	TURBIDITY *	031			ARSENIC	253	
✓	ALKALINITY	040	<u>122</u>		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	<u>117</u>		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
✓	HARDNESS	110	<u>34</u>		SILVER	333	
✓	IRON	122	<u>47</u>		ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	361	
	ALBUMINOID	153		✓	SODIUM	371	<u>22</u>
	NITRATE	162		✓	TOTAL SOLIDS	381	<u>274</u>
	NITRITE	173		✓	<u>CO2</u>		<u>42</u>
	MBAS	182					
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

AR300237

* RESULTS REPORTED IN UNITS, ALL OTHERS IN MILLIGRAMS PER LITER (PPM)

DATE RECEIVED OCT 10 1977 DATE REPORTED _____ CHEMIST _____ LAB NO. _____

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER BOW-3

Harford Co
NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley SLF COLLECTOR Adams

SAMPLE TYPE: DISTRIBUTION _____ SOURCE Well OTHER _____ (Specify) _____

COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____

REMARKS: Division Solid Waste

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

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

20 21 22 23 24 25 26

FIELD pH FIELD RESID: CHLORINE: FREE TOTAL

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	6.8		CALCIUM	231	---
	COLOR *	020	---		MAGNESIUM	241	---
	TURBIDITY *	031	---		ARSENIC	253	---
✓	ALKALINITY	040	1070		BARIUM	262	---
	BICARBONATE ALK.	050	---		CADIUM	273	---
	CARBONATE ALK.	060	---		CHROMIUM +6	282	---
	CARBONATE STAB. pH *	071	---		COPPER	293	---
	ALKALINITY	080	---		LEAD	302	---
✓	CHLORIDE	091	113		MERCURY	314	---
	FLUORIDE	101	---		SELENIUM	323	---
✓	HARDNESS	110	164		SILVER	333	---
✓	IRON	122	4500		ZINC	342	---
	MANGANESE	133	---		OIL (GREASE)	351	---
	AMMONIA N. FREE	143	---		POTASSIUM	361	---
	ALBUMINOID	153	---	✓	SODIUM	371	14
	NITRATE	162	---	✓	TOTAL SOLIDS	381	5400
	NITRITE	173	---	✓	CO ₂		INTERFERENCE
	MBAS	182	---				
	ALUMINUM	192	---				AR300238
	CYANIDE	202	---				
	SILICA	210	---				
	SULFATE	220	---				

* RESULTS REPORTED IN UNITS. ALL OTHERS IN MILLIGRAMS PER LITER (PPM)

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER BOW-4

Hartford Co.
NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley S.P. COLLECTOR Adams

SAMPLE TYPE: DISTRIBUTION _____ SOURCE Well OTHER _____
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____ (Specify) _____

REMARKS: Division Solid Waste

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 TRANS CODE COUNTY PLANT NO. SAMPLING STATION DATE COLLECTED CARRY NO.
 20 21 22 23 24 25 26
 FIELD pH FIELD RESID. CHLORINE: FREE TOTAL

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	7.6		CALCIUM	231	
	COLOR *	020			MAGNESIUM	241	
	TURBIDITY *	031			ARSENIC	253	
✓	ALKALINITY	040	35		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	19		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
✓	HARDNESS	110	36		SILVER	333	
✓	IRON	122	0.7		ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	361	
	ALBUMINOID	153		✓	SODIUM	371	
	NITRATE	162		✓	TOTAL SOLIDS	381	214
	NITRITE	173		✓	COD.		74
	MBAS	182					
	ALUMINUM	192					
	CYANIOE	202					
	SILICA	210					
	SULFATE	220					

RESULTS REPORTED IN UNITS. ALL OTHERS IN MILLIGRAMS PER LITER
 DATE RECEIVED OCT 19 1978 DATE REPORTED 10/19/78 CHEMIST AR 300239

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

LABORATORY NUMBER B-W-3

HARFORD
NAME OF COUNTY

SOURCE OF SAMPLE BUSH VALLEY S.L.P. COLLECTOR BELLUSCI ADAMS

SAMPLE TYPE: DISTRIBUTION SOURCE WELL OTHER _____

COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____ (Specify)

REMARKS: Div. SOLID WASTE

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

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

20 21 22 23 24 25 26

FIELD pH FIELD RESID. CHLORINE: FREE TOTAL

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
	pH *	011	6.6		CALCIUM	231	
	COLOR *	020			MAGNESIUM	241	
	TURBIDITY *	031			ARSENIC	253	
✓	ALKALINITY	040	93		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	8		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
✓	HARDNESS	110	64		SILVER	333	
✓	IRON	122	100		ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	361	
	ALBUMINOID	153		✓	SODIUM	371	117
	NITRATE	162		✓	TOTAL SOLIDS TDS	381	138
	NITRITE	173		✓	CO ₂		72
	MBAS	182					
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

AR300240

RESULTS REPORTED IN UNITS. ALL OTHERS IN MILLIGRAMS PER LITER (PPM)

STATE OF MARYLAND
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE
 LABORATORIES ADMINISTRATION
 REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER B-W-4

HARFORD
 NAME OF COUNTY

SOURCE OF SAMPLE BUSH VALLEY S.L.T. COLLECTOR BELLUSCI-ADAMS

SAMPLE TYPE: DISTRIBUTION _____ SOURCE _____ OTHER _____
 (Specify)
 COMMUNITY: _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____

REMARKS: Div. SOLID WASTE

1 <input type="checkbox"/> TRANS CODE	2 3 <input type="checkbox"/> <input type="checkbox"/> COUNTY	4 5 6 7 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> PLANT NO.	8 9 10 11 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <u>44</u> SAMPLING STATION	12 13 14 15 16 17 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <u>2 22 7</u> DATE COLLECTED	18 19 <input type="checkbox"/> <input type="checkbox"/> CART NO.
20 21 22 FIELD pH <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			23 24 FIELD RESID. CHLORINE: FREE <input type="checkbox"/> <input type="checkbox"/>		25 26 27 28 29 TOTAL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

RECEIVED

DIVISION OF SOLID WASTE							
✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	<u>6.4</u>		CALCIUM	231	
	COLOR *	020			MAGNESIUM	241	
	TURBIDITY *	031			ARSENIC	253	
✓	ALKALINITY	040	<u>57</u>		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	<u>111</u>		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
✓	HARDNESS	110	<u>79</u>		SILVER	333	
✓	IRON	122	<u>72</u>		ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	361	
	ALBUMINOID	153			SODIUM	371	<u>113</u>
	NITRATE	162			TOTAL SOLIDS <u>TDS</u>	381	<u>106</u>
	NITRITE	173			<u>C.O.D.</u>		<u>72</u>
	MBAS	182					
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER B-W-3

Harford
NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley (SUF) COLLECTOR Adams

SAMPLE TYPE: DISTRIBUTION SOURCE Well OTHER (Specify)

COMMUNITY OTHER PUBLIC PRIVATE SUPPLY

REMARKS: Div. Solid Waste #2015

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 TRANS COUNTY PLANT NO. SAMPLING DATE COLLECTED CARD NO.
 20 21 22 23 24 25 26
 FIELD pH FIELD RESID. CHLORINE: FREE TOTAL

TEST FOR	CODE	RESULTS	TEST FOR	CODE	RESULTS
✓ pH *	011	6.5	CALCIUM	231	
COLOR *	020		MAGNESIUM	241	
✓ TURBIDITY *	031		ARSENIC	253	
✓ ALKALINITY	040	119	BARIUM	262	
BICARBONATE ALK.	050		CADIUM	273	
CARBONATE ALK.	060		CHROMIUM +6	282	
CARBONATE STAB. pH *	071		COPPER	293	
ALKALINITY	080		LEAD	302	
✓ CHLORIDE	091	8	MERCURY	314	
FLUORIDE	101		SELENIUM	323	
✓ HARDNESS	110	49	SILVER	333	
IRON	122		ZINC	342	
MANGANESE	133		OIL (GREASE)	351	
AMMONIA N. FREE	143		POTASSIUM	361	
ALBUMINOID	153		✓ SODIUM	371	
NITRATE	162		TOTAL SOLIDS	381	
NITRITE	173		CO ₂		INTERFERE
MBAS	182		✓ SC ₂		AR 300242 1146
ALUMINUM	192				
CYANIDE	202				
SILICA	210				
SULFATE	220				

* RESULTS REPORTED IN UNITS, ALL OTHERS IN MILLIGRAMS PER LITER (PP)

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER B-101

Harford
NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley S.P. COLLECTOR Bellevue

SAMPLE TYPE: DISTRIBUTION _____ SOURCE well OTHER _____
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____ (Specify)

REMARKS: Res. blind water

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 TRANS. COUNTY PLANT NO. SAMPLING DATE COLLECTED CARD
 CODE. STATION. NO.
 20 21 22 23 24 25 26
 FIELD pH: FIELD RESID. CHLORINE: FREE TOTAL

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	6.7		CALCIUM	231	
✓	COLOR *	020	19		MAGNESIUM	241	
✓	TURBIDITY *	031			ARSENIC	253	
✓	ALKALINITY	040	17		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM *6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	23		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
	HARDNESS	110			SILVER	333	
	IRON	122			ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	361	
	ALBUMINOID	153		✓	SODIUM	371	
	NITRATE	162			TOTAL SOLIDS	381	
	NITRITE	173		✓	S.C. *		
	MBAS	182		✓	C.O.D.		
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

RESULTS REPORTED IN UNITS. ALL OTHERS IN MILLIGRAMS PER LITER

AR300243

STATE OF MARYLAND
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE
 LABORATORIES ADMINISTRATION
 REPORT OF DRINKING WATER ANALYSIS

NUMBER B-W-2

Harford
 NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley COLLECTOR Bedon Mills

SAMPLE TYPE: DISTRIBUTION _____ SOURCE Well OTHER _____ (Specify)
 COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____

REMARKS: Dw. Solid Waste

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

TRANS CODE COUNTY PLANT NO. SAMPLING STATION DATE COLLECTED CARETAKER NO.

20 21 22 23 24 25 26

FIELD pH FIELD RESID. CHLORINE: FREE TOTAL

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
	pH *	011	7.5		CALCIUM	231	
	COLOR *	020	88		MAGNESIUM	241	
	TURBIDITY *	031			ARSENIC	253	
✓	ALKALINITY	040	110		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	15		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
	HARDNESS	110			SILVER	333	
	IRON	122			ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	361	
	ALBUMINOID	153			SODIUM	371	19
	NITRATE	162			TOTAL SOLIDS	381	
	NITRITE	173					
	MBAS	182					
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

AR300246

RESULTS REPORTED IN UNITS. ALL OTHERS IN MILLIGRAMS PER LITER (PPM)

STATE OF MARYLAND
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE
 LABORATORIES ADMINISTRATION
 REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER B-103

Harford
 NAME OF COUNTY

SOURCE OF SAMPLE Bent Valley COLLECTOR Bellevue Miller

SAMPLE TYPE: DISTRIBUTION well OTHER _____ (Specify)
 COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____

REMARKS: Dr. Solid Waste

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 TRANS. COUNTY PLANT NO. SAMPLING. DATE COLLECTED CARD
 CODE NO. NO. NO.
 20 21 22 23 24 25 26
 FIELD pH FIELD RESID. CHLORINE: FREE TOTAL

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH	011	6.6		CALCIUM	231	
✓	COLOR	020	14		MAGNESIUM	241	
	TURBIDITY	031			ARSENIC	253	
✓	ALKALINITY	040	71		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB. pH	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	16		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
	HARDNESS	110			SILVER	333	
	IRON	122			ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	361	
	ALBUMINOID	153		✓	SODIUM	371	14
	NITRATE	162			TOTAL SOLIDS	381	
	NITRITE	173		✓	S.E.*		146
	MBAS	182		✓	C.O.P.		LAB ACCIDENT
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

FILE NUMBER B-W 4

Harford
NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley COLLECTOR Beckman Miles

SAMPLE TYPE: DISTRIBUTION _____ SOURCE Well OTHER _____
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____ (Specify)

REMARKS: Dev. Solid Waste

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

 TRANS CODE COUNTY PLANT NO. SAMPLING STATION DATE COLLECTED CARD NO.
 20 21 22 23 24 25 26
 FIELD pH FIELD RESID. CHLORINE: FREE TOTAL

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	6.3		CALCIUM	231	
	COLOR *	020	20		MAGNESIUM	241	
	TURBIDITY *	031			ARSENIC	253	
✓	ALKALINITY	040	40		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	111		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
	HARDNESS	110			SILVER	333	
	IRON	122			ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	361	
	ALBUMINOID	153		✓	SODIUM	371	112
	NITRATE	162			TOTAL SOLIDS	381	
	NITRITE	173		✓	S.C *		130
	MBAS	182		✓	C.O.D.		LAB ACCIDENT
	ALUMINUM	192					AR300246
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER B-W-1

Harpur
NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley

COLLECTOR Allen

SAMPLE TYPE: DISTRIBUTION _____ SOURCE well OTHER _____
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____ (Specify)

REMARKS: D.S.W.

EXTRA

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□	□
TRANS CODE	COUNTY		PLANT NO.			SAMPLING STATION		DATE COLLECTED				CARD NO.						
						WI		051580						S.C. 120				
FIELD pH			FIELD RESID. CHLORINE: FREE			TOTAL												
□			□			□												

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	6.7	✓	CALCIUM	231	50
✓	COLOR *	020	59		MAGNESIUM	241	
✓	TURBIDITY *	031	78		ARSENIC	253	
✓	ALKALINITY	040	16		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB: pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	24		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
✓	HARDNESS	110	32		SILVER	333	
✓	IRON	122	20		ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143	0.53		POTASSIUM	361	
✓	ALBUMINOID <u>AN</u>	153	97	✓	SODIUM	371	8
	NITRATE	162		✓	TOTAL SOLIDS <u>DISS</u>	381	90
	NITRITE	173		✓	<u>0.00</u>		42
	MBAS	182		✓	<u>2.0</u>		116
	ALUMINUM	192		✓	<u>Clay Tube AR300247</u>		
	CYANIDE	202					
	SILICA	210					
✓	SULFATE	220	41				

RESULTS REPORTED IN _____ ALL OTHERS IN MILLIGRAMS PER LITER (PPM)

N 2 1980

LAB NO.

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER B.W-2

Harpur
NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley COLLECTOR Bell

SAMPLE TYPE: DISTRIBUTION _____ SOURCE Well OTHER _____
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____ (Specify)

REMARKS: D.S.W

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18-19 S.C

TRANS CODE COUNTY PLANT NO. SAMPLING STATION DATE COLLECTED CARD NO. 210

20 21 22 23 24 25 26

FIELD pH FIELD RESID. CHLORINE: FREE TOTAL

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	83	✓	CALCIUM	231	74
✓	COLOR *	020	68		MAGNESIUM	241	
✓	TURBIDITY *	031	36		ARSENIC	253	
✓	ALKALINITY	040	90		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	14		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
✓	HARDNESS	110	20		SILVER	333	
✓	IRON	122	37		ZINC	342	
✓	MANGANESE	133			OIL (GREASE)	351	
✓	AMMONIA N FREE	143	20		POTASSIUM	361	
✓	ALBUMINOID <u>FN</u>	153	22	✓	SODIUM	371	119
	NITRATE	162		✓	TOTAL SOLIDS DISS	381	1104
	NITRITE	173		✓	COD		114
	MBAS	182		✓	SC*		190
	ALUMINUM	192		✓	<u>Org. Matter</u>	AR300248	116
	CYANIDE	202					
	SILICA	210					
✓	SULFATE	220	11				

* RESULTS REPORTED IN UNITS. ALL OTHERS IN MILLIGRAMS PER LITER (PPM)

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER BW-3

Harford
NAME OF COUNTY

SOURCE OF SAMPLE Home Valley COLLECTOR Beel

SAMPLE TYPE: DISTRIBUTION SOURCE Well OTHER _____
COMMUNITY _____ OTHER PUBLIC PRIVATE SUPPLY _____ (Specify)

REMARKS: D.S.W

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26

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

SEC
340

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	6.8	✓	CALCIUM	231	271
✓	COLOR *	020	23		MAGNESIUM	241	
✓	TURBIDITY *	031	200		ARSENIC	253	
✓	ALKALINITY	040	155		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	15		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
✓	HARDNESS	110	105		SILVER	333	
✓	IRON	122	240		ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
✓	AMMONIA N. FREE	143	046		POTASSIUM	361	
✓	ALBUMINOID <u>ITW</u>	153	29	✓	SODIUM	371	29
	NITRATE	162		✓	TOTAL SOLIDS <u>DSS</u>	381	172
	NITRITE	173		✓	SEC		295
	MBAS	182		✓	COCP		3
	ALUMINUM	192		✓	Org. M		24
	CYANIDE	202					
	SILICA	210					
✓	SULFATE	220	3				

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER BW-4

Harford
NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley COLLECTOR Bell

SAMPLE TYPE: DISTRIBUTION well SOURCE well OTHER _____
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____ (Specify)

REMARKS: DSW

1 <input type="checkbox"/>	2 3 <input type="checkbox"/>	4 5 6 7 <input type="checkbox"/>	8 9 10 11 <input type="checkbox"/>	12 13 14 15 16 17 <input type="checkbox"/>	18 19 <input type="checkbox"/>
TRANS CODE	COUNTY	PLANT NO.	SAMPLING STATION	DATE COLLECTED	CARD NO.
			<u>24</u>	<u>051584</u>	
20 21 22 <input type="checkbox"/>	FIELD pH		23 24 <input type="checkbox"/>	FIELD RESID. CHLORINE: FREE	
				TOTAL	

S-C
200

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	<u>6.4</u>	✓	CALCIUM	231	<u>82</u>
✓	COLOR *	020	<u>60</u>		MAGNESIUM	241	
✓	TURBIDITY	031	<u>19.9</u>		ARSENIC	253	
✓	ALKALINITY	040	<u>51</u>		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	<u>19</u>		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
✓	HARDNESS	110	<u>40</u>		SILVER	333	
✓	IRON	122	<u>61</u>		ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
✓	AMMONIA N. FREE	143	<u>1.0</u>		POTASSIUM	361	
✓	ALBUMINOID <u>TKN</u>	153	<u>0.2</u>	✓	SODIUM	371	<u>14</u>
	NITRATE	162		✓	TOTAL SOLIDS <u>Dist</u>	381	<u>9.6</u>
	NITRITE	173		✓	<u>SCX</u>		<u>1.4</u>
	MBAS	182		✓	<u>COD</u>		<u>1.0</u>
	ALUMINUM	192		✓	<u>Org Nit.</u>		<u>0.2</u>
	CYANIDE	202					
✓	SILICA	210					
	SULFATE	220	<u>6</u>				

11/2 AR300250

* RESULTS REPORTED IN UNITS, ALL OTHERS IN MILLIGRAMS PER LITER

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER BVW-1

Harpers
NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley COLLECTOR Beeler

SAMPLE TYPE: DISTRIBUTION WELL OTHER _____ (Specify)
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____

REMARKS: D.S.W.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

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

20 21 22 23 24 25 26

FIELD pH 7.2 FIELD RESID. CHLORINE: FREE TOTAL 7.16

S.C.
10-5

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	6.3		CALCIUM	231	11111
	COLOR *	020			MAGNESIUM	241	11111
✓	TURBIDITY **	031	6.4		ARSENIC	253	11111
✓	ALKALINITY	040	115		BARIUM	262	11111
	BICARBONATE ALK.	050		✓	CADIUM	273	20005
	CARBONATE ALK.	060		✓	CHROMIUM TOTAL	282	20001
	CARBONATE STAB. pH *	071		✓	COPPER	293	0003
	ALKALINITY	080		✓	LEAD	302	0002
✓	CHLORIDE	091	124	✓	MERCURY	314	00002
	FLUORIDE	101		✓	SELENIUM NICKEL	323	0002
✓	HARDNESS	110	25		SILVER	333	
✓	IRON	122	0.410	✓	ZINC	342	006
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143		✓	POTASSIUM	361	007
	ALBUMINOID	153		✓	SODIUM	371	008
	NITRATE	162		✓	TOTAL SOLIDS DISS	381	0086
	NITRITE	173		✓	S.C.		007
	MBAS	182		✓	C.O.D		0030
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

AR300251

STATE OF MARYLAND
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE
 LABORATORIES ADMINISTRATION
 REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER BW-2

Harpur
 NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley COLLECTOR Beeman

SAMPLE TYPE: DISTRIBUTION _____ SOURCE Well OTHER _____
 (Specify)
 COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____

REMARKS: D.S.W

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18-19

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

FIELD * pH 7.8 FIELD RESID. CHLORINE: FREE TOTAL

S.P
270
T-18

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
	pH *	011	7.2		CALCIUM	231	
	COLOR *	020			MAGNESIUM	241	
	TURBIDITY *	031	6.2		ARSENIC	253	
	ALKALINITY	040	116		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	261015
	CARBONATE ALK.	060			CHROMIUM TOTAL	282	101011
	CARBONATE STAB. pH *	071			COPPER	293	101016
	ALKALINITY	080			LEAD	302	101012
	CHLORIDE	091	115		MERCURY	314	101013
	FLUORIDE	101			SELENIUM NICKEL	323	101013
	HARDNESS	110	22		SILVER	333	
	IRON	122	211		ZINC	342	101016
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	361	1511
	ALBUMINOID	153			SODIUM	371	1111
	NITRATE	162			TOTAL SOLIDS DISS	381	1148
	NITRITE	173			S.C.F		1258
	MBAS	182			C.O.D		25
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

AR300252

* ALL OTHERS IN MILLIGRAMS PER LITER (PPM)

STATE OF MARYLAND
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE
 LABORATORIES ADMINISTRATION
 REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER BHW-3

Harford
 NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley COLLECTOR Beckler

SAMPLE TYPE: DISTRIBUTION _____ SOURCE well OTHER _____
 (Specify)
 COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____

REMARKS: D.S.W

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

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

20 21 22 23 24 25 26

FIELD pH 6.9 FIELD RESID. CHLORINE: FREE TOTAL 7.19

SC 400

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	6.9		CALCIUM	231	10111
	COLOR *	020			MAGNESIUM	241	10111
✓	TURBIDITY	031	3.00		ARSENIC	253	10111
✓	ALKALINITY	040	120.2		BARIUM	262	10111
	BICARBONATE ALK.	050		✓	CADIUM	273	10111
	CARBONATE ALK.	060		✓	CHROMIUM TOTAL	282	10115
	CARBONATE STAB. pH	071		✓	COPPER	293	10113
	ALKALINITY	080		✓	LEAD	302	10112
✓	CHLORIDE	091	112	✓	MERCURY	314	1010012
	FLUORIDE	101		✓	SELENIUM NICKEL	323	101211
✓	HARDNESS	110	177		SILVER	333	10111
✓	IRON	122	3.9	✓	ZINC	342	10116
	MANGANESE	133			OIL (GREASE)	351	10111
	AMMONIA N. FREE	143		✓	POTASSIUM	361	1570
	ALBUMINOID	153		✓	SODIUM	371	1241
	NITRATE	162		✓	TOTAL SOLIDS DISS	381	121141
	NITRITE	173		✓	S.C.X		13134
	MBAS	182		✓	C.O.D		11215
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

AR300253

RESULTS REPORTED IN UNITS, ALL OTHERS IN MILLIGRAMS PER LITER (PPM)

DATE RECEIVED SEP 15 1980 DATE REPORTED OCT 23 1980 CHEMIST VL LAB NO. _____

STATE OF MARYLAND
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE
 LABORATORIES ADMINISTRATION
 REPORT OF DRINKING WATER ANALYSIS

TITLE NUMBER BW. 4

Harford
 NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley COLLECTOR Beck

SAMPLE TYPE: DISTRIBUTION _____ SOURCE Well OTHER _____
 COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____ (Specify) _____

REMARKS: D.S.W

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

TRANS CODE COUNTY PLANT NO. SAMPLING STATION DATE COLLECTED CARDS NO. 5C

20 21 22 23 24 25 26

FIELD pH 7 FIELD RESID. CHLORINE: FREE TOTAL 140

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
	pH *	011	6.4		CALCIUM	231	111111
	COLOR *	020			MAGNESIUM	241	111111
✓	TURBIDITY *	031	1.75		ARSENIC	253	111111
✓	ALKALINITY	040	47		BARIUM	262	111111
	BICARBONATE ALK.	050		✓	CADIUM	273	1200105
	CARBONATE ALK.	060		✓	CHROMIUM TOTAL	282	10120101
	CARBONATE STAB. pH *	071		✓	COPPER	293	101014
	ALKALINITY	080		✓	LEAD	302	11110102
✓	CHLORIDE	091	110	✓	MERCURY	314	2010002
	FLUORIDE	101		✓	SELENIUM NICKEL	323	11110107
✓	HARDNESS	110	41		SILVER	333	111111
✓	IRON	122	38	✓	ZINC	342	11110106
	MANGANESE	133			OIL (GREASE)	351	111111
	AMMONIA N. FREE	143		✓	POTASSIUM	361	11111019
	ALBUMINOID	153		✓	SODIUM	371	11111121
	NITRATE	162		✓	TOTAL SOLIDS DISS	381	11131041
	NITRITE	173		✓	S.C.#		11111124
	MBAS	182		✓	C.O.D	AR300254	110
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

* RESULTS REPORTED IN UNITS ALL OTHERS IN MILLIGRAMS PER LITER (PPM)

STATE OF MARYLAND
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE
 LABORATORIES ADMINISTRATION
 REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER BVS-1

Stamped
 NAME OF COUNTY

SOURCE OF SAMPLE Bush COLLECTOR Bellevue

SAMPLE TYPE: DISTRIBUTION _____ SOURCE Stream OTHER _____
 (Specify)
 COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____

REMARKS: D.S.W

1 TRANS CODE	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 CARD NO.
			51	09 15 80	
FIELD pH			FIELD RESID. CHLORINE: FREE		
20 21 22			23 24		
			25 26		

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	69		CALCIUM	231	
	COLOR *	020			MAGNESIUM	241	
✓	TURBIDITY *	031	210		ARSENIC	253	
✓	ALKALINITY	040	42		BARIUM	262	
	BICARBONATE ALK.	050		✓	CADIUM	273	260015
	CARBONATE ALK.	060		✓	CHROMIUM TOTAL	282	260011
	CARBONATE STAB. pH *	071		✓	COPPER	293	1003
	ALKALINITY	080		✓	LEAD	302	2001
✓	CHLORIDE	091	12	✓	MERCUY	314	20002
	FLUORIDE	101		✓	SELENIUM NICKEL	323	2001
✓	HARDNESS	110	65		SILVER	333	
✓	IRON	122	032	✓	ZINC	342	1004
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143		✓	POTASSIUM	361	17
	ALBUMINOID	153		✓	SODIUM	371	81
	NITRATE	162		✓	TOTAL SOLIDS DISS	381	126
	NITRITE	173		✓	S.C.*		162
	MBAS	182		✓	C.O.D		310
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

AR300255

RESULTS REPORTED IN UNITS. ALL OTHERS IN MILLIGRAMS PER LITER (PPM)

DATE RECEIVED SEP 15 1980 DATE REPORTED OCT 22 1980 CHEMIST [Signature] LAB

STATE OF MARYLAND
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE
 LABORATORIES ADMINISTRATION
 REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER BUS 2

Harford
 NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley COLLECTOR Bellevue

SAMPLE TYPE: DISTRIBUTION SHEEN SOURCE SHEEN OTHER _____
 (Specify)
 COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____

REMARKS: 10-SW

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

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

20 21 22 23 24 25 26

FIELD pH FIELD RESID. CHLORINE: FREE TOTAL

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
	pH *	011	7.1		CALCIUM	231	
	COLOR *	020			MAGNESIUM	241	
	TURBIDITY *	031	1.9		ARSENIC	253	
	ALKALINITY	040	41		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM TOTAL	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	14		MERCURY	314	
	FLUORIDE	101			SELENIUM NICKEL	323	
✓	HARDNESS	110	60		SILVER	333	
✓	IRON	122	0.19		ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	361	
	ALBUMINOID	153			SODIUM	371	
	NITRATE	162			TOTAL SOLIDS DISS	381	
	NITRITE	173			S.C.F		
	MBAS	182			C.D.D		
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

* RESULTS REPORTED IN UNITS. ALL OTHERS IN MILLIGRAMS PER LITER (PPM)

STATE OF MISSISSIPPI
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE
 LABORATORIES ADMINISTRATION
 REPORT OF WATER ANALYSIS

Bottle Number: 11-101 Name: Frank Wilson County: Harrison

Source of Sample: _____ Street: _____ Town or City: _____ Collector: W. J. ...

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

Remarks: _____
20.00

Country: _____ Plant No.: _____ Sampling Station: _____ Date Collected: 10 20 51 Time: _____ Accuracy: _____
 Field Data: pH: 7.2 Chlorine Residual: _____ Free: 1.5 Total: _____ Specific Gravity: _____

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	101	7.2	Arsenic	253	
<input checked="" type="checkbox"/> Alkalinity (Total)	140	150	Barium	262	
Alkalinity (HCO ₃)	350		Caesium	273	
Alkalinity (CO ₃)	360		Chromium	283	
Hardness, Ca CO ₃ SAT	371		Lead	302	
Alkalinity, Ca CO ₃ SAT	380		Mercury	314	
<input checked="" type="checkbox"/> Hardness	110	150	Selenium	323	
Ammonia-N	143		Silver	333	
Nitrate-Nitrite N	162		Aluminum	192	
Nitrate N	173		Calcium	231	
Mn&S	182		Copper	241	
Chlorine	091		Iron	122	
Fluoride	101		Magnesium	241	
Color*	020		Manganese	133	
Turbidity*	031		Nickel	391	
<input checked="" type="checkbox"/> Conductance*, SPEC.	201	150	Potassium	361	
Silica	210		Sodium	371	
Sulfate	220		Zinc	342	
Total Residue	381	150			

END

AR300257

* Results reported in mg/l. All others in milligrams per liter (ppm)

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF WATER ANALYSIS

Bottle Number: 71001 Name: Blue Bell County: Lebanon

Source of Sample: _____ Street: _____ Town or City: _____ Collector: [Signature]

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

Remarks: 71001

Field Data: 7.0 pH 7.0 Temp. 70 Date Collected 10/20/83 Time 11:00 AM Acid 1

7.0 Free 7.0 Total 7.0 Specific Conductance 150

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
As* Arsenic	253		As* Arsenic	253	
Barium	262		Barium	262	
Cadmium	273		Cadmium	273	
Chromium	283		Chromium	283	
Lead	302		Lead	302	
Mercury	314		Mercury	314	
Selenium	323		Selenium	323	
Silver	333		Silver	333	
Aluminum	192		Aluminum	192	
Calcium	231		Calcium	231	
Copper	241		Copper	241	
Iron	131		Iron	131	
Magnesium	241		Magnesium	241	
Manganese	133		Manganese	133	
Nickel	291		Nickel	291	
Potassium	361		Potassium	361	
Sodium	371		Sodium	371	
Zinc	342		Zinc	342	
Total Residue	381		Total Residue	381	

VAR300258

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF WATER ANALYSIS

Bottle Number: 5-1 Name: Trinity County: Harford

Source of Sample: _____ Street: _____ Town or City: _____ Collector: _____

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

Remarks: _____

County: _____ Plant No.: _____ Sampling Station: _____ Date Collected: _____ Time: _____ Acid: _____
 Field Data: _____ pH: _____ Chlorine Residual: _____ Free: _____ Total: _____ Specific Gravity: _____

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE
pH*	011		Arsenic	253
Alkalinity (Total)	040		Barium	262
Alkalinity HCO ₃	050		Cadmium	273
Alkalinity CO ₃	060		Chromium	283
pH CaCO ₃ SAT	071		Lead	302
Alkalinity CaCO ₃ SAT	080		Mercury	314
Hardness	110		Selenium	323
Ammonia-N	143		Silver	333
Nitrate-Nitrite N	162		Aluminum	192
Nitrite N	173		Calcium	231
MBAS	182		Copper	241
Chloride	091		Iron	122
Fluoride	101		Magnesium	231
Color*	020		Manganese	133
Turbidity*	031		Nickel	391
Conductance* SPEC.	201		Potassium	361
Silica	210		Sodium	371
Sulfate	220		Zinc	342
Total Residue	381			

AR300259

* Results reported in mg/l. All others in milligrams per liter (ppm).

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION

Volatile Organics in water

BOTTLE NUMBER

BV-4-1

Harper
NAME OF COUNTY

SOURCE OF SAMPLE Besse Valley COLLECTOR Beeman

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) _____

REMARKS:

1 TRANS TYPE	2 COUNTY	3	4 PLANT NO.	5	6	7	8 SAMPLING STATION	9	10	11	12 DATE COLLECTED	13	14	15	16	17	18 FIELD NO.	19	
							W1				03	17	83						
20 FIELD PH	21	22	23 FIELD RESID. CHLORINE:FREE				24	25 TOTAL		26									

Trihalomethanes (ppb)

Chloroform _____
 Bromoachloromethane _____
 Chloroibromomethane _____
 Bromoform _____
 Total Trihalomethanes _____

Aromatics (ppb)

Benzene _____
 Toluene _____
 Ethylbenzene _____
 Total Xylenes _____

Other Volatile Hydrocarbons (ppb)

Vinyl Chloride _____
 Carbontetrachloride _____
 Chlorobenzene _____
 Methylene Chloride _____
 Tetrachloroethene _____

Trichloroethene _____

No volatile priority pollutants observed. (9/MS) W/300260

Results reported in micrograms per liter (parts per billion)

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION

Volatile Organics in water

BOTTLE NUMBER BV-10-2

Harford
NAME OF COUNTY

SOURCE OF SAMPLE Beach Valley COLLECTOR Becker

SAMPLE TYPE: _____ DISTRIBUTION _____ SOURCE _____ OTHER _____
Community _____ noncommunity _____ private _____

Lanfill 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: _____

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Trihalomethanes (ppb)

Aromatics (ppb)

Chloroform _____
Bromo-dichloromethane _____
Chloro-dibromomethane _____
Bromoform _____
Total Trihalomethanes _____

Benzene _____
Toluene _____
Ethylbenzene _____
Total Xylenes _____

Other Volatile Hydrocarbons (ppb)

Vinyl Chloride _____
Carbontetrachloride _____
Chlorobenzene _____
Methylene Chloride _____
Tetrachloroethene _____

No volatile priority pollutants
observed (90/m) verification

AR300261

Results reported in micrograms per liter (parts per billion)

MAR 14 1983

40 25/100

A C C

100-18

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION

Volatile Organics in water

BOTTLE NUMBER BV-104

Harford
NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley COLLECTOR Belton

SAMPLE TYPE: _____ DISTRIBUTION _____ SOURCE _____ OTHER (specify) _____
Community _____ noncommunity _____ private _____

Lanfill 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: _____

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"/>	FIELD RESID. CHLORINE:FREE				<input type="checkbox"/>	<input type="checkbox"/>	TOTAL		<input type="checkbox"/>	<input type="checkbox"/>						

Trihalomethanes (ppb)

Chloroform _____
Bromodichloromethane _____
Chloroacibromomethane _____
Bromoform _____

Total Trihalomethanes _____
1,1 Dichloroethane 8 ppb

Vinyl Chloride 7 ppb
Carbontetrachloride _____
Chlorobenzene _____
Methylene Chloride 120 ppb
Tetrachloroethene 15 ppb

Aromatics (ppb)

Benzene 7 ppb
Toluene _____
Ethylbenzene _____
Total Xylenes 2 ppb

1,1,1 trichloroethane 2 ppb
1,2-Dichloroethane 1 ppb

Other Volatile Hydrocarbons (ppb) Ethyl Ethn 11 ppb

Trichloroethene 2 ppb
Trichlorofluoromethane CCl₃F 8 ppb
Dichloro Di Fluoromethane CCl₂F₂ (Freon 12) 200 ppb
Chloroethane 9 ppb

No other volatile primary pollutants observed
(30/MS) were identified. Also obs'd CHClF₂, CHCl₂F
perhalo's, substituted alkanes, etc. observed.

CHEMICAL ANALYSIS OF STREAMS AND WASTE WATERS

Town County County Code
 Source of Sample STP Code
 Sewage Stream Industrial Waste Other
 Grab Composite Raw Final Chlorine Use
 Intermediate Unchlorinated
 Bottle No. BV-1 REMARKS
 Bottle No. Residual: Free Total Rain? Yes No
 Collected: Date 1/13/83 Hour 1000 Collector J.C.

Check-Test Required -	Test	Result (ppm)
✓	pH	<u>7.4</u>
	Dissolved oxygen	<u>3.0</u>
✓	Biochemical oxygen demand (5 days at 20° C)	<u>OUT > 3080</u>
	Chemical oxygen demand	
	Solids, suspended	
	Solids, total	
	Solids, volatile	
	Nitrogen, as free ammonia - N	
	Nitrogen, as organic ammonia - N	
	Nitrogen, total Kjeldahl - N	
	Nitrogen, as nitrate - N + nitrite - N	
	Phosphorous, ortho	
	Phosphorous, total	
	Chloride (as Cl)	
	Other:	
OFFICE USE ONLY		90

Received Reported Chemist
 Lab. No.
 DHMH-43 (4/81)

AR300263

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER B U - W - 1

Dorchester
Name of County

SOURCE OF SAMPLE Brush Valley COLLECTOR Bellrose

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) _____

REMARKS: _____

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.			
							W1				06.2.283							
20	21	22	FIELD RESID. CHLORINE: FREE				23	24	TOTAL		25	26						
FIELD pH																		

Purgeable Halocarbons (EPA 601)

Chloromethane	<u><1 ppb</u>
Bromomethane	
Dichlorodifluoromethane	
Vinyl chloride	
Chloroethane	
Methylene chloride	<u>1 ppb</u>
Trichlorofluoromethane	<u><1 ppb</u>
1,1-Dichloroethene	
1,1 Dichloroethane	
trans-1,2 Dichloroethene	
Chloroform	
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
Bromoform
1,1,2,2-Tetrachloroethane
Tetrachloroethene
Chlorobenzene
Total Trihalomethanes

Other Purgeable Organics:

Purgeable Aromatics (EPA 602)

Benzene	<u><1 ppb</u>
Toluene	<u><1</u>
Ethylbenzene	<u><1</u>
Total Xylenes	<u><2</u>
Total Purgeable Hydrocarbons	
Tetrahydrofuran	<u><1</u>
Methylethylketone	<u><1</u>
(2-Butanone) (MEK)	<u><1</u>
Methylisobutylketone (MIBK)	<u><1</u>

AR300264

STATE OF CALIFORNIA
DEPARTMENT OF HEALTH AND HUMAN SERVICES

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

FILE COPY ON

BOTTLE NUMBER BV-W-2

Alameda
Name of County

SOURCE OF SAMPLE Brush Valley COLLECTOR B. Bell

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: Trace Organic Survey

Suspected Industrial Chemical Contamination _____

Suspected Petroleum (gasoline, etc.) Contamination _____

Other (specify) _____

REMARKS: _____

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
										<u>412</u>			<u>06</u>	<u>22</u>	<u>53</u>			
TRANS TYPE	COUNTY		FIELD NO.				SAMPLING STATION				DATE COLLECTED				CARD NO.			
	20	21	22	FIELD RESID. CHLORINE: FREE				23	24	TOTAL		25	26					

Purgeable Halocarbons (EPA C 1)

Chloromethane	<u><1.0 ppb</u>	trans-1,3-Dichloropropene	<u><1.0 ppb</u>
Bromomethane		Trichloroethene	
Dichlorodifluoromethane		Dibromochloromethane	
Vinyl chloride		1,1,2-Trichloroethane	
Chloroethane		cis-1,3-Dichloropropene	
Methylene chloride	<u><1.0 ppb</u>	2-Chloroethylvinylether	
Trichlorofluoromethane	<u><1.0 ppb</u>	Bromoform	
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:	
1,1,1-Trichloroethane			
Carbon Tetrachloride			
Bromodichloromethane			
1,2-Dichloropropane			

Purgeable Aromatics (EPA C 2)

Benzene	<u><1.0 ppb</u>
Toluene	<u><1.0 ppb</u>
Ethylbenzene	<u><1.0 ppb</u>
Total Xylenes	<u><2.0 ppb</u>
Total Purgeable Hydrocarbons	<u><1.0 ppb</u>
Tetrahydrofuran	<u><1.0 ppb</u>
Methylethylketone	<u><1.0 ppb</u>
(2-Butanone) (MEK)	<u><1.0 ppb</u>
Methylisobutylketone (MIBK)	<u><1.0 ppb</u>

AR300265

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND ENVIRONMENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

FILE COPY ONLY

BOTTLE NUMBER

B.V. 44

Hancock
Name of County

SOURCE OF SAMPLE

Branch Valley

COLLECTOR

Reid

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)

REMARKS:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
TRANS TYPE			COUNTY				SAMPLING STATION					DATE COLLECTED					CARD NO.		
							<u>W4</u>					<u>062253</u>					<u>7</u>		
FIELD PH			FIELD RESID. CHLORINE: FREE				TOTAL												

Purgeable Halocarbons (EPA 601)

Chloromethane _____
 Bromomethane _____
 Dichlorodifluoromethane observed
 Vinyl chloride 15 ppb
 Chloroethane observed
 Methylene chloride 20 ppb
 Trichlorofluoromethane 13 ppb
 1,1-Dichloroethene _____
 1,1-Dichloroethane 49 ppb
 trans-1,2-Dichloroethene 4 ppb
 Chloroform _____
 1,2-Dichloroethane 3 ppb
 1,1,1-Trichloroethane 8 ppb
 Carbon Tetrachloride _____
 Bromodichloromethane _____
 1,2-Dichloropropane _____

trans-1,3-Dichloropropene _____
 Trichloroethene 9 ppb
 Dibromochloromethane _____
 1,1,2-Trichloroethane _____
 cis-1,3-Dichloropropene _____
 2-Chloroethylvinylether _____
 Bromoform _____
 1,1,2,2-Tetrachloroethane _____
 Tetrachloroethene 28 ppb
 Chlorobenzene _____
 Total Trihalomethanes _____

Other Purgeable Organics:

pentanes, aromatics, substituted cycloalkanes
(CFC/MS) verification

Purgeable Aromatics (EPA 602)

Benzene 10 ppb
 Toluene _____
 Ethylbenzene _____
 Total Xylenes 4 ppb
 Total Purgeable Hydrocarbons _____
 Tetrahydrofuran _____
 Methyl ethyl ketone _____
 (2-Butanone) (MEK) _____
 Methyl isobutyl ketone (MIBK) _____
Ethyl ether 30 ppb
Also observed CH₂ClF, CHCl₂F

Results reported in micrograms per liter (parts per billion)

STATE OF CALIFORNIA
 DEPARTMENT OF HEALTH AND HUMAN SERVICES
 LABORATORIES ADMINISTRATION
 TRACE ORGANICS LABORATORY
 VOLATILE ORGANIC ANALYSIS

FILE COPY ONLY

BOTTLE NUMBER

RV. W-1

Harper
 Mayor of County

SOURCE OF SAMPLE Bush Valley

COLLECTOR Beeman

SAMPLE TYPE: _____ DISTRIBUTION _____ SOURCE _____ OTHER _____
 Community _____ nonpoint activity _____ private _____
 Leachate _____ _____ tidal waters _____
 Industrial effluent _____ STP sampling station _____ STP effluent _____
 Chlorinated _____ prepared _____
 Reason for submitting sample: Environmental Survey _____
 Suspected Industrial Chemical Contamination _____
 Suspected Petroleum (gasoline, etc.) Contamination _____
 Other (specify) _____

REMARKS: _____

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
TRANS TYPE	COUNTY		PARCEL #				SAMPLING STATION					DATE COLLECTED					CAL. #	
							W1					09 28 83						

FIELD RESID. CHLORINE: FREE	TOTAL
20 21 22	23 24
[] [] []	[] []

For PCBs (Polychlorinated Biphenyls)		Organic Compounds (SP&P)	
Chloroethane	<1	1,1,1,2-Tetrachloroethane	<1
Bromochloroethane	↓	Trichloroethane	
Dibromochloroethane		Dibromochloromethane	
Vinyl chloride		1,1,2-Trichloroethane	
Chloroethane		1,1,2-Dichloroethane	
Methylene chloride		2-Chloroethylvinylether	
Trichloroethylene		Bromoform	
1,1-Dichloroethane		1,1,2,2-Tetrachloroethane	
1,1,1-Trichloroethane		Trichloroethylene	
trans-1,2-Dichloroethane		Chlorobenzene	
Chloroform		Total Trichloroethanes	
1,2-Dichloroethane		Other Organics (Specify):	
1,1,1-Trichloroethane			
Chloroacetylene			
Bromoacetylene			
1,1-Dichloroethane			

AR300267

STATE OF MICHIGAN
DEPARTMENT OF HEALTH AND HUMAN SERVICES

FILE COPY ONLY

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER BU W-2

Harper
Name of County

SOURCE OF SAMPLE Bush Valley L.P. COLLECTOR Ballou

SAMPLE TYPE: _____ DISTRIBUTION: _____ SOURCE: _____ OTHER (specify): _____

Community: _____ non-community: _____ private: _____

Landfill: _____ fresh waters: _____

Industrial effluent: _____ STP sampling station: _____ STP effluent: _____

Chlorinated: _____ ground water: _____

Reason for submitting sample: _____

Suspected Industrial Chemical Contamination: _____

Suspected Petroleum (gasoline, etc.) Contamination: _____

Other (specify): _____

REMARKS: _____

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
COUNTY			COUNTY			COUNTY			COUNTY			COUNTY			COUNTY			
COUNTY			COUNTY			COUNTY			COUNTY			COUNTY			COUNTY			

Purgeable Halocarbons (EPA 801)

Chloroethane	<1.
Bromoethane	
1,1-Dichloroethane	
1,1,1-Trichloroethane	
1,1,2-Dichloroethane	
1,1,2,2-Tetrachloroethane	
1,1,1,2-Tetrachloroethane	
1,1,2,2,2-Pentachloroethane	
1,1,1,2,2-Pentachloroethane	
1,1,1,2,2,2-Hexachloroethane	

trans-1,3-Dichloropropane	<1.
Trichloroethene	
Dibromochloromethane	
1,1,2-Trichloroethane	
cis-1,3-Dichloropropene	
2-Chloroethyl vinyl ether	
Bromobenzene	
1,1,2,3-Tetrachlorobutane	
Tetrachlorobutene	
Chlorobenzene	
Total Trihalomethanes	
Other Purgeable Organics	

Purgeable Aromatics (EPA 802)

Benzene	<1.
Toluene	<1.
Ethylbenzene	<1.
Total Xylenes	<2.
Total Purgeable Hydrocarbons	
Tetrahydrofuran	
Methylcyclohexane	
(2-Butanon) (MEK)	
Methylcyclohexanone (MCHK)	

AR300268

LIST OF COMMON VOLATILE ORGANIC COMPOUNDS
TRACE ORGANIC LABORATORY
VOLATILE ORGANIC ANALYSIS

BOTTLE NUMBER

BU-W-4

[Signature]
Name County

SOURCE OF SAMPLE

Bush Valley

COLLECTOR

Beaman

SAMPLE TYPE

DISTRIBUTION

SOURCE

OTHER

ISSUE

Community

Non-Community

Private

Industrial effluent

STP sampling station

STP effluent

Underground

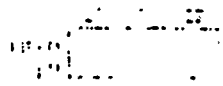
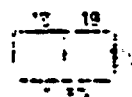
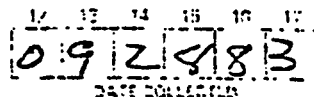
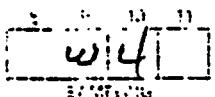
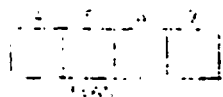
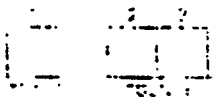
Other

Suspected Industrial Chemical Plant location

Suspected Petroleum (gasoline) distribution station

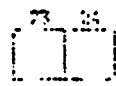
Other

REMARKS

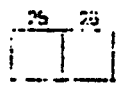


CHLORINE

CHLORINE



Total



Intermittent Concentrations

Chloroform

trans-1,3-Dichlorobenzene

Benzene

17 ppb

1,1-Dichloroethane

Trichloroethane

5 ppb

Toluene

1,1,1-Trichloroethane

oysd

Dibromochloroethane

Ethylbenzene

5 ppb

1,1,2-Trichloroethane

23 ppb

1,1,2-Trichloroethane

Total Polycyclic Hydrocarbons

15 ppb

1,1,1,2-Tetrachloroethane

16 ppb

2,2-Dimethylpropane

Tetrahydrofuran

1,1,2,2-Tetrachloroethane

260 ppb

Bromoform

Methylcyclohexane

1,1,1,2,2-Pentachloroethane

7 ppb

1,1,2,2-Tetrachloroethane

(2-Ethoxyethyl) Ether

1,1,1,2,2-Pentachloroethane

63 ppb

1,1,2,2-Tetrachloroethane

Methylcyclohexane

1,1,1,2,2-Pentachloroethane

5 ppb

1,1,2,2-Tetrachloroethane

(2-Ethoxyethyl) Ether

1,1,1,2,2-Pentachloroethane

5 ppb

1,1,2,2-Tetrachloroethane

Methylcyclohexane

1,1,1,2,2-Pentachloroethane

5 ppb

1,1,2,2-Tetrachloroethane

Methylcyclohexane

32 ppb

Also detected CHCl₃, CH₂F₂, AKA, AR30026, GCI, MEK
other volatile priority pollutants (42 ppb)
(3/mg) verification EPA 824

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF WATER ANALYSIS

Bottle Number BLW-1 Name Bush Valley L.F. County Harford

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

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

Remarks SR

County Plant No. Sampling Station M1 Date Collected 03/21/85 Time M Acid Load

Field Data: pH Chlorine Residual Free Total Specific Conductance

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	011	6.9	<input checked="" type="checkbox"/> Arsenic	253	<0.01
<input checked="" type="checkbox"/> Alkalinity (Total)	040	117	<input checked="" type="checkbox"/> Barium	262	<1.0
Alkalinity (HCO ₃)	050		<input checked="" type="checkbox"/> Cadmium	273	0.002
Alkalinity (CO ₃)	060		<input checked="" type="checkbox"/> Chromium - T	283	<0.01
pH*, Ca CO ₃ , SAT.	071		<input checked="" type="checkbox"/> Lead	302	<0.01
Alkalinity, Ca CO ₃ , SAT	080		<input checked="" type="checkbox"/> Mercury	314	<10.0005
<input checked="" type="checkbox"/> Hardness	110	115	<input checked="" type="checkbox"/> Selenium	323	<0.01
<input checked="" type="checkbox"/> Ammonia-N	143	10.8	Silver	333	
<input checked="" type="checkbox"/> Nitrate-Nitrite N	162	<0.2	Aluminum	192	
<input checked="" type="checkbox"/> Nitrite N	173	0.008	<input checked="" type="checkbox"/> Calcium	231	2
MBAS	182		<input checked="" type="checkbox"/> Copper	241	<0.01
<input checked="" type="checkbox"/> Chloride	091	116	<input checked="" type="checkbox"/> Iron	122	20.10
Fluoride	101		<input checked="" type="checkbox"/> Magnesium	241	2.1
Color*	020		<input checked="" type="checkbox"/> Manganese	133	0.21
<input checked="" type="checkbox"/> Turbidity*	031	9.6	Nickel	391	
<input checked="" type="checkbox"/> Conductance*, SPEC.	201	910	<input checked="" type="checkbox"/> Potassium	361	4.1
Silica	210		<input checked="" type="checkbox"/> Sodium	371	110.3
<input checked="" type="checkbox"/> Sulfate	220	111	<input checked="" type="checkbox"/> Zinc	342	10.02
<input checked="" type="checkbox"/> Total Residue <u>DISS</u>	381	44	<input checked="" type="checkbox"/> (C.D.)		910
			<input checked="" type="checkbox"/> TKAR300270		128

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER B-W-1

Huffman
Name of County

SOURCE OF SAMPLE Bush Valley COLLECTOR Beep

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) _____

REMARKS: _____

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
TRANS COUNTY PLANT NO. SAMPLING STATION DATE COLLECTED
FIELD pH FIELD RESID. CHLORINE: FREE TOTAL
6.24

Purgeable Halocarbons (EPA 804)		Purgeable Aromatics (EPA 808)			
Chloromethane	<1	trans-1,3-Dichloropropene	<1	Benzene	<1
Bromomethane		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-Chloroethylnvinylether		Tetrahydrofuran	
Trichlorofluoromethane		Bromoform		Methylethylketone	
1,1-Dichloroethane		1,1,2,2-Tetrachloroethane		(2-Butanone) (MEK)	3
1,1-Dichloroethane		Tetrachloroethene		Methylisobutylketone (MIBK)	
trans-1,2-Dichloroethane		Chlorobenzene			
Chloroform		Total Trihalomethanes			
1,2-Dichloroethane		Other Purgeable Organics:			
1,1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane					

AR300271

Results reported in micrograms per liter (parts per billion)
DATE RECEIVED MAR 21 1985 DATE REPORTED MAR 27 1985 CHEMIST Will LAB. N
DHMM-749 (7/84) 2M

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF WATER ANALYSIS

Bottle Number: 30. w 2 Name: Bush Valley County: Harper
1000 Collector: Bea

Source of Sample: _____ Street _____ Town or City _____

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

Remarks: ASD

County: Plant No.: Sampling Station: W2 Date Collected: 03/21/85 Time: M Acid: Lead:

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

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	011	6.7	<input checked="" type="checkbox"/> Arsenic	253	< 0.01
<input checked="" type="checkbox"/> Alkalinity (Total)	040	113	<input checked="" type="checkbox"/> Barium	282	< 0.01
<input type="checkbox"/> Alkalinity (HCO ₃)	050		<input type="checkbox"/> Cadmium	273	0.004
<input type="checkbox"/> Alkalinity (CO ₃)	060		<input checked="" type="checkbox"/> Chromium - T	283	< 0.01
<input type="checkbox"/> pH*, Ca CO ₃ SAT.	071		<input checked="" type="checkbox"/> Lead	302	< 0.01
<input type="checkbox"/> Alkalinity, Ca CO ₃ SAT	080		<input checked="" type="checkbox"/> Mercury	374	< 0.0005
<input checked="" type="checkbox"/> Hardness	110	113	<input checked="" type="checkbox"/> Selenium	323	< 0.01
<input checked="" type="checkbox"/> Ammonia-N	143	1.1	<input type="checkbox"/> Silver	333	
<input checked="" type="checkbox"/> Nitrate-Nitrite N	162	< 0.2	<input type="checkbox"/> Aluminum	192	
<input checked="" type="checkbox"/> Nitrite N	173	0.028	<input checked="" type="checkbox"/> Calcium	231	< 2
<input type="checkbox"/> MBAS	182		<input checked="" type="checkbox"/> Copper	241	0.02
<input checked="" type="checkbox"/> Chloride	091	116	<input checked="" type="checkbox"/> Iron	122	28.06
<input type="checkbox"/> Fluoride	101		<input checked="" type="checkbox"/> Magnesium	241	1.0
<input type="checkbox"/> Color*	020		<input checked="" type="checkbox"/> Manganese	133	0.3
<input checked="" type="checkbox"/> Turbidity*	031	3.10	<input type="checkbox"/> Nickel	391	
<input checked="" type="checkbox"/> Conductance*, SPEC.	201	74	<input checked="" type="checkbox"/> Potassium	361	4.1
<input type="checkbox"/> Silica	210		<input checked="" type="checkbox"/> Sodium	371	6.2
<input checked="" type="checkbox"/> Sulfate	220	2.7	<input checked="" type="checkbox"/> Zinc	342	0.04
<input checked="" type="checkbox"/> Total Residue <u>D.S.S</u>	381	9.0	<input checked="" type="checkbox"/> C.D.D		AR 300272
			<input checked="" type="checkbox"/> TKN		0.7

AR-300272

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER B-W-2

Handwritten Signature
 Name of Person

SOURCE OF SAMPLE Bush Valley COLLECTOR Boellum

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 _____

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Suspected Industrial Chemical Contamination _____
 Suspected Petroleum (gasoline, etc.) Contamination _____
 Other (specify) _____

REMARKS: _____

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.	
							WZ				032185									
20	21	22	FIELD RESID. CHLORINE: FREE				23	24	TOTAL				25	26						
FIELD PH																				

Purgeable Halocarbons (EPA 821) **624**

Purgeable Aromatics (EPA 822) **624**

Chloromethane	<1	trans-1,3-Dichloropropene	<1	Benzene	<1
Bromomethane		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	
Trichlorofluoromethane		Bromoform		Methylethylketone	
1,1-Dichloroethene		1,1,2,2-Tetrachloroethane		(2-Butanone) (MEK)	
1,1-Dichloroethane		Tetrachloroethane		Methylisobutylketone (MIBK)	
trans-1,2-Dichloroethene		Chlorobenzene			
Chloroform		Total Trihalomethanes			
1,2-Dichloroethane		Other Purgeable Organics:			
1,1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane					

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DATE RECEIVED MAR 21 1985 DATE REPORTED MAR 27 1985 CHEMIST Will LAB

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STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF WATER ANALYSIS

Bottle Number: B.V.W-4 Name: Bush Valley L12 County: Harford

Source of Sample: _____ Street: _____ Town or City: _____ Collector: Beckman

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

Remarks: ASD

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APR 9 1985

County: Plant No.: Sampling Station: W3 Date Collected: 032185 Time: ENFORCEMENT FILE FILE COPY ANALY ICD

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

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	011	6.8	<input checked="" type="checkbox"/> Arsenic	253	<0.01
<input checked="" type="checkbox"/> Alkalinity (Total)	040	249	<input checked="" type="checkbox"/> Barium	282	<0.1
<input type="checkbox"/> Alkalinity (HCO ₃)	050		<input checked="" type="checkbox"/> Cadmium	273	0.002
<input type="checkbox"/> Alkalinity (CO ₃)	060		<input checked="" type="checkbox"/> Chromium - I	283	<0.01
<input type="checkbox"/> pH*, Ca CO ₃ SAT.	071		<input checked="" type="checkbox"/> Lead	302	0.02
<input type="checkbox"/> Alkalinity, Ca CO ₃ SAT	080		<input checked="" type="checkbox"/> Mercury	314	<0.0005
<input checked="" type="checkbox"/> Hardness	110	131	<input checked="" type="checkbox"/> Selenium	323	<0.01
<input checked="" type="checkbox"/> Ammonia-N	143	12	<input type="checkbox"/> Silver	333	
<input checked="" type="checkbox"/> Nitrate-Nitrite N-	162	<0.2	<input type="checkbox"/> Aluminum	192	
<input checked="" type="checkbox"/> Nitrite N	173	0.022	<input checked="" type="checkbox"/> Calcium	231	24
<input type="checkbox"/> MBAS	182		<input checked="" type="checkbox"/> Copper	241	0.02
<input checked="" type="checkbox"/> Chloride	091	44	<input checked="" type="checkbox"/> Iron	122	173.6
<input type="checkbox"/> Fluoride	101		<input checked="" type="checkbox"/> Magnesium	241	16
<input type="checkbox"/> Color*	020		<input checked="" type="checkbox"/> Manganese	133	0.79
<input checked="" type="checkbox"/> Turbidity*	031	7.55	<input type="checkbox"/> Nickel	391	
<input checked="" type="checkbox"/> Conductance*, SPEC.	201	608	<input checked="" type="checkbox"/> Potassium	361	16
<input type="checkbox"/> Silica	210		<input checked="" type="checkbox"/> Sodium	371	327
<input checked="" type="checkbox"/> Sulfate	220	116	<input checked="" type="checkbox"/> Zinc	342	0.05
<input checked="" type="checkbox"/> Total Residue <u>DSS</u>	381	454	<input checked="" type="checkbox"/> C.O.D		28
			<input checked="" type="checkbox"/> TKN		<0.2

AR300274

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES: ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER

⁴
BW-3

Name of County

Harford

SOURCE OF SAMPLE

Bush Valley

COLLECTOR

Beal

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)

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REMARKS:

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				CARR. NO.	
											43				032185					
FIELD pH			FIELD RESID. CHLORINE: FREE				TOTAL													
20			21				22				23				24				25	

Purgeable Halocarbons (EPA 801)		Purgeable Aromatics (EPA 808)	
Chloromethane	<1	trans-1,3-Dichloropropene	<1
Bromomethane	<1	Trichloroethene	18
Dichlorodifluoromethane	55	Dibromochloromethane	<1
Vinyl chloride	22	1,1,2-Trichloroethane	
Chloroethane	23	cis-1,3-Dichloropropene	
Methylene chloride	96	2-Chloroethylvinylether	
Trichlorofluoromethane	5	Bromoform	
1,1-Dichloroethene	<1	1,1,2,2-Tetrachloroethane	
1,1-Dichloroethane	109	Tetrachloroethene	40
trans-1,2-Dichloroethene	62	Chlorobenzene	5
Chloroform	<1	Total Trihalomethanes	
1,2-Dichloroethane	80	Other Purgeable Organics:	
1,1,1-Trichloroethane	<1	1,2-Dibromoethane = 1	
Carbon Tetrachloride		observed: dichlorofluorone there	
Bromodichloromethane		methyl cyclopentane	
1,2-Dichloropropane			

DATE RECEIVED MAR 21 1985 DATE REPORTED MAR 27 1985 CHEMIST Will LAI

DHMH 749 (7/84)

Dec. 10, 1985

(wells sampled 7-84)

PROJECT FOR
PERFORMANCE OF
REMEDIAL RESPONSE ACTIVITIES AT
UNCONTROLLED HAZARDOUS
SUBSTANCE FACILITIES—ZONE 1

NUS CORPORATION
SUPERFUND DIVISION

AR300276

SAMPLE DATA SUMMARY
TARGET COMPOUNDS

DD Number F3-8405-44
 PA Number 2996 110-002

Site Name Burr's Valley
 Date of Sample 7/11/84

Organic Inorganic

Compounds Detected

Sample Number	Sample Description and Location	Phase	Units	Compounds Detected										Remarks				
				2-Butanone	2-Heptanone	4-Heptanone	4-Heptanol-2	Total Hydrocarbons	Acetone									
19101	BOL	AQ	mg/L															
19103	UPSTREAM BYNUM RUN	AQ	mg/L															
19105	DOWNSTREAM BYNUM RUN	AQ	mg/L															
19107	MW #1	AQ	mg/L															
19108	MW #2	AQ	mg/L															
17015	MW #4	AQ	mg/L															
17016	SEDIMENT BASIN NE	AQ	mg/L															
17018	BRANTON'S HOLE HOME WELL (ABANDONED)	AQ	mg/L															
17020	PIGGS HOME WELL	AQ	mg/L															
17022	LEACHES NAD	AQ	mg/L	1400	5K	110	7.2	100R										
18183	LEACHES NAD	AQ	mg/L															
18183	LEACHES NAD	AQ	mg/L															

**SAMPLE DATA SUMMARY
- TARGET COMPOUNDS**

Site Name Bush Valley
Date of Sample 7/11/84

TDD Number F3-8405-44
EPA Number 2996 NR-112

Organic Inorganic

Compounds Detected

Sample Number	Sample Description and Location	Phase	Units	6.5 (C-650)	Heptachlor Epoxide	Heptachlor Chloride	Heptachlor Epoxide	Heptachlor Chloride	Remarks
C7017	SEDIMENT BASIN NE	SOL	µg/kg	10K ⁰	620 ⁰	50	50		
C7019	LEACHATE SOUTH	SOL	µg/kg	10K ⁰	>11,000 ⁰	2.0	2.0		
C7021	LEACHATE NW	SOL	µg/kg	1200 ⁰	>11,000 ⁰	25	0.005 ⁰		
C8482	LEACHATE N	SOL	µg/kg	10K ⁰	>8000 ⁰	14 ⁰	0.005K ⁰		
C8702	BLANK	SOL	µg/kg	200K ⁰	32 ⁰				
C9104	UPSTREAM BRUNN RUN	SOL	µg/l		700 ⁰	60 ⁰			
C9706	DOWNSTREAM BRUNN RUN	SOL	µg/l		600 ⁰	35 ⁰			

AR300280

NOTE: For a review of this data and non-target, tentatively identified compounds, please see the Analytical Quality Assurance section of this report.

SAMPLE DATA SUMMARY
TARGET COMPOUNDS

Site Name BRUSH VALLEY CREEK

Date of Sample 2-18-97

IDD Number E3-5405-44

IQA Number LVP-002

Organic Inorganic

Compounds Detected

Sample Number	Sample Description and Location	Phase	Units	Compounds Detected										Remarks							
				ALUMINUM	BARIUM	BERYLLIUM	CHLORINE	COPPER	CHROMIUM	LEAD	MANGANESE	MERCURY	NICKEL								
MC3461	Bank	AQ	µg/L																		
MC3462	Bank	SOL	mg/kg																		
MC3463	UPSTREAM BYNUM RUN	AQ	µg/L																		
MC3464	UPSTREAM BYNUM RUN	SOL	mg/kg																		
MC3465	DOWNSTREAM BYNUM RUN	AQ	µg/L																		
MC3466	DOWNSTREAM BYNUM RUN	SOL	mg/kg																		
MC3467	MW #1	AQ	µg/L																		
MC3468	MW #2	AQ	µg/L																		
MC3470	MW #4	AQ	µg/L																		
MC3471	SEDIMENT BASIN #9E	AQ	µg/L																		
MC3472	SEDIMENT BASIN NE	SOL	mg/kg																		
MC3473	FRONT WALK (UNIDENTIFIED)	AQ	µg/L																		
MC3474	FENCE LINE SOUTH	SOL	mg/kg																		
MC3475	PICGS HOLE	AQ	µg/L																		

SAMPLE DATA SUMMARY
TARGET COMPOUNDS

Site Name Pine Valley, California
Date of Sample 2-12-54

ID Number F3-5405-44
TA Number 440-002

Organic Inorganic

Compounds Detected

Sample Number	Sample Description and Location	Phase	Units	Compounds Detected					Remarks
				SILVER	TIN	Vanadium	Zinc	Antimony	
103471	LEACHATE N.W.	SOL	mg/kg	8.5	45	28	15		
103477	LEACHATE N.W.	AQ	µg/L	21	309	1210			
103552	LEACHATE N	SOL	mg/kg	21	33	47	64		
103553	LEACHATE N	AQ	µg/L	23		276			

AR300282

NOTE: For a review of this data and non-target, tentatively identified compounds, please see the Analytical Quality Assurance section of this report.

AR30083

DD Number E3-8405-44
 PA Number LCR-022

SAMPLE DATA SUMMARY
 TARGET COMPOUNDS

Inorganic Organic

Site Name Basin Valley Lakes
 Date of Sample 7-18-88

Compounds Detected

Sample Number	Sample Description and Location	Phase	Units	SELENIUM	SILVER	TIN	YTHORIUM	ZINC	ARMONY	Remarks
11C3961	BLANK	AQ	µg/L							
11C3962	BLANK	SOL	mg/kg							
11C3963	UPSTREAM BYNUM RUN	AQ	µg/L							
11C3964	UPSTREAM BYNUM RUN	SOL	mg/kg	16	46	18	28			
11C3965	DOWNSTREAM BYNUM RUN	AQ	µg/L							
11C3966	DOWNSTREAM BYNUM RUN	SOL	mg/kg		4.2	18	24			
11C3967	MW #1	AQ	µg/L		6.3	7.4	6.68			
11C3968	MW #2	AQ	µg/L		8.2	4.05	358			
11C3969	MW #4	AQ	µg/L		98		307			
11C3970	SEPTANT BASIN NE	AQ	µg/L				13			
11C3971	SEPTANT BASIN NE	SOL	mg/kg					5.3	24	24
11C3972	PRAYERS WELL (ADDRESS)	AQ	µg/L						119	
11C3973	LEACHATE SOUTH	SOL	mg/kg							
11C3974	DIGTS HPR	AQ	µg/L							
11C3975	DIGTS HPR	AQ	µg/L							

NOTE: For a review of this data and non-target, tentatively identified compounds, please see the analytical Quality Assurance section of this report.

SAMPLE DATA SUMMARY
TARGET COMPOUNDS

Site Name: Basil Valley Green
Date of Sample: 7-11-59

ID Number: F2-5405-44
A Number: L40-202

Organic Inorganic

Compounds Detected

Sample Number	Sample Description and Location	Phase	Units	FLUORINE	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CHROMIUM	COPPER	LEAD	MANGANESE	MERCURY	NICKEL	Remarks
103476	LEACHATE NW	SOL	mg/l	17,900	17	49	0.34	0.070	111	13	12	5.1	243	33	
103477	LEACHATE NW	HQ	mg/l	113,000	138	200	0.13	359	45	146	174	4870	1.3	184	
103550	LEACHATE N	SOL	mg/l	13,100	10	49	0.56	0.12	17	16	15,000	193		9.9	
103553	LEACHATE N	AQ	mg/l	7,870	16	226		28			40,200	577		73	

AR300284

NOTE: For a review of this data and non-target, tentatively identified compounds, please see the Analytical Quality Assurance section of this report.

FILE: 0845 #051

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratory Administration

201 W. Preston Street

J. Mohsen-Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER BUW-2

HARFORD
Name of County

SOURCE OF SAMPLE BUSH COLLECTOR HOFFER

SAMPLE TYPE: _____ DISTRIBUTION _____ SOURCE _____ OTHER _____
Community _____ noncommunity _____ private _____
(specify)

Landfill observation well X 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) _____

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REMARKS:

CHAIN OF CUSTODY
NAME/ TIME/DATE

~~TO: _____
TO: _____~~

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
							B	U	W	2	0	7	3	1	8	6		
TRANS TYPE	COUNTY		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 821)

Purgeable Aromatics

Chloromethane	<1	trans-1,3-Dichloropropene	<1	Benzene	3
Bromomethane	<1	Trichloroethene	3	Toluene	<1
Dichlorodifluoromethane	3	Dibromochloromethane	<1	Ethylbenzene	<1
Vinyl chloride	<1	1,1,2-Trichloroethane		Total Xylenes	<2
Chloroethane	<1	cis-1,3-Dichloropropene		Total Purgeable Hydrocarbons	
Methylene chloride	7	2-Chloroethylvinylether		Tetrahydrofuran	7
Trichlorofluoromethane	<1	Bromoform		(2-Butanone) (MEK)	ND
1,1-Dichloroethene	<1	1,1,2,2-Tetrachloroethane	↓	Methylisobutyketone (MIBK)	↓
1,1-Dichloroethane	2	Tetrachloroethene	2	Acrolein	↓
trans-1,2-Dichloroethene	2	Chlorobenzene	<1	Acrylonitrile	↓
Chloroform	<1	Total Trihalomethanes			
1,2-Dichloroethane	8	Other Purgeable Organics:			
1,1,1-Trichloroethane	<1	ethyl ether = 3			
Carbon Tetrachloride	↓	observed: chlorodifluoromethane			
Bromodichloromethane	↓	dichlorofluoromethane			
1,2-Dichloropropane	↓				

AR300285

Results reported in micrograms per liter (parts per billion)

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND ENVIRONMENTAL HYGIENE

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

TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER

BUW4

HARTFORD

Name of County

SOURCE OF SAMPLE

BUSH

COLLECTOR

HOFFER

SAMPLE TYPE:

DISTRIBUTION

SOURCE

OTHER

Community

noncommunity

private

(specify)

Landfill observation well

X

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:

CHAIN OF CUSTODY

NAME/ TIME/DATE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
							B	U	W	4	0	7	3	1	9	6		
TRANS TYPE	COUNTY	PLANT NO.	SAMPLING STATION	DATE COLLECTED	CARE NO.	FIELD pH		FIELD RESID. CHLORINE: FREE		TOTAL								

Purgeable Halocarbons (EPA 601)

Chloromethane	<u>4</u>
Bromomethane	<u><1</u>
Dichlorodifluoromethane	<u>16</u>
Vinyl chloride	<u>10</u>
Chloroethane	<u>12</u>
Methylene chloride	<u>7</u>
Trichlorofluoromethane	<u>2</u>
1,1-Dichloroethene	<u><1</u>
1,1-Dichloroethane	<u>53</u>
trans-1,2-Dichloroethene	<u>27</u>
Chloroform	<u><1</u>
1,2-Dichloroethane	<u><1</u>
1,1,1-Trichloroethane	<u>54</u>
Carbon Tetrachloride	<u><1</u>
Bromodichloromethane	<u><1</u>
1,2-Dichloropropane	<u>7</u>

trans-1,3-Dichloropropene	<u><1</u>
Trichloroethene	<u>13</u>
Dibromochloromethane	<u><1</u>
1,1,2-Trichloroethane	<u> </u>
cis-1,3-Dichloropropene	<u> </u>
2-Chloroethylvinylether	<u> </u>
Bromoform	<u> </u>
1,1,1,2-Tetrachloroethane	<u>↓</u>
Tetrachloroethene	<u>7</u>
Chlorobenzene	<u>8</u>
Total Trihalomethanes	<u> </u>

Other Purgeable Organics:

ethyl ether = 95
Observed: chlorodifluoromethane
dichlorofluoromethane
n-butanol = 240

Purgeable Aromatics

Benzene	<u>18</u>
Toluene	<u><1</u>
Ethylbenzene	<u><1</u>
Total Xylenes	<u><2</u>
Total Purgeable Hydrocarbons	<u> </u>
Tetrahydrofuran	<u>8</u>
(2-Butanone) (MEK)	<u>ND</u>
Methylisobutylketone (MIBK)	<u> </u>
Acrolein	<u> </u>
Acrylonitrile	<u>↓</u>

AR300286

Results reported in micrograms per liter (parts per billion)

SEP 3 1986

V. J. WILSON

Bald

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF WATER ANALYSIS

Bottle Number: BVW1 Name: BUSH County: HARFORD

Source of Sample: Well Street: _____ Town or City: _____ Collector: HOFFER

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

Remarks: SSD

County	Plant No.	Sampling Station	Date Collected	Time	Acid load
		<u>BVW1</u>	<u>01/31/86</u>	<u>M</u>	<u>8</u>

Field Data:	pH*	Chlorine Residual	Free	Total	Specific Conductance

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	011	6.6	<input checked="" type="checkbox"/> Arsenic	253	ND
<input checked="" type="checkbox"/> Alkalinity (Total)	040	78	<input checked="" type="checkbox"/> Barium	262	ND
<input type="checkbox"/> Alkalinity (HCO ₃)	050		<input checked="" type="checkbox"/> Cadmium	273	ND
<input type="checkbox"/> Alkalinity (CO ₃)	060		<input checked="" type="checkbox"/> Chromium	283	ND
<input type="checkbox"/> pH*, Ca CO ₃ SAT.	071		<input checked="" type="checkbox"/> Lead	302	ND
<input type="checkbox"/> Alkalinity, Ca CO ₃ SAT	080		<input checked="" type="checkbox"/> Mercury	314	ND
<input checked="" type="checkbox"/> Hardness	110	27	<input checked="" type="checkbox"/> Selenium	323	ND
<input checked="" type="checkbox"/> Ammonia-N	143	1/15	<input type="checkbox"/> Silver	333	ND
<input checked="" type="checkbox"/> Nitrate-Nitrite N	162	ND	<input type="checkbox"/> Aluminum	192	ND
<input checked="" type="checkbox"/> Nitrite N	173	ND	<input checked="" type="checkbox"/> Calcium	231	59
<input type="checkbox"/> MBAS	182		<input checked="" type="checkbox"/> Copper	241	ND
<input checked="" type="checkbox"/> Chloride	091	5	<input checked="" type="checkbox"/> Iron	122	538
<input type="checkbox"/> Fluoride	101		<input checked="" type="checkbox"/> Magnesium	241	136
<input type="checkbox"/> Color*	020		<input checked="" type="checkbox"/> Manganese	133	0.46
<input checked="" type="checkbox"/> Turbidity*	031	2.30	<input type="checkbox"/> Nickel	391	ND
<input checked="" type="checkbox"/> Conductance*, SPEC.	201	183	<input checked="" type="checkbox"/> Potassium	361	2.3
<input type="checkbox"/> Silica	210		<input checked="" type="checkbox"/> Sodium	371	11.4
<input checked="" type="checkbox"/> Sulfate	220	4.0	<input checked="" type="checkbox"/> Zinc	342	ND
<input checked="" type="checkbox"/> Total Residue <u>D.S.S</u>	381	6.5 <u>(C.D)</u>			
					AIR 300287

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

Date Received _____ Date Reported _____ Chemist _____ Lab No. _____

STATE OF MARYLAND
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE
 Laboratory Administration
 201 W. Preston Street
 J. Mehan Joseph, Ph.D., Director
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER BVW1

HARFORD
 Name of County

SOURCE OF SAMPLE BUSH COLLECTOR HOFFER

SAMPLE TYPE: _____ DISTRIBUTION _____ SOURCE _____ OTHER _____
 Community _____ noncommunity _____ private _____
 Landfill observation well stream _____ tidal waters _____

RECEIVED

Industrial effluent _____ STP sampling station _____ STP effluent _____

SEP 4 1986

Chlorinated _____ preserved with thiosulfate _____

Reason for submitting sample: Trihalomethane Survey _____

Suspected Industrial Chemical Contamination _____

ENFORCEMENT FILE
 FILE COPY ONLY

Suspected Petroleum (gasoline, etc.) Contamination _____

Other (specify) _____

REMARKS:

CHAIN OF CUSTODY
 NAME/ TIME/DATE

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
							BVW1				073186								
TRANS TYPE	COUNTY		PLANT NO.				SAMPLING STATION				DATE COLLECTED				LAB NO.				

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

Purgeable Halocarbons (EPA 601)

Purgeable Aromatics

Chloromethane	<1	trans-1,3-Dichloropropene	<1	
Bromomethane		Trichloroethene		
Dichlorodifluoromethane		Dibromochloromethane		
Vinyl chloride		1,1,2-Trichloroethane		
Chloroethane		cis-1,3-Dichloropropene		
Methylene chloride		2-Chloroethylvinylether		
Trichlorofluoromethane		Bromoform		
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: N.D.		
1,1,1-Trichloroethane				
Carbon Tetrachloride				
Bromodichloromethane				
1,2-Dichloropropane				

Benzene	<1
Toluene	
Ethylbenzene	
Total Xylenes	<2
Total Purgeable Hydrocarbons	
Tetrahydrofuran	N.D.
(2-Butanone) (MEK)	
Methylisobutylketone (MIBK)	
Acrolein	
Acrylonitrile	

AR300288

Results reported in micrograms per liter (parts per billion)

STATE OF MARYLAND
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE
 LABORATORIES ADMINISTRATION
 REPORT OF WATER ANALYSIS

Bottle Number: BVW2 Name: BUSH County: HARFORD

Source of Sample: _____ Street: WELL Town or City: _____ Collector: HOFER

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

Remarks: SSD

County: BVW2 Plant No.: _____ Sampling Station: 671311916 Date Collected: _____ Time: _____ M: _____

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

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	011	6.5	<input checked="" type="checkbox"/> Arsenic	253	ND/1
<input checked="" type="checkbox"/> Alkalinity (Total)	040	120	<input checked="" type="checkbox"/> Barium	262	ND/1
Alkalinity (HCO ₃)	050		<input checked="" type="checkbox"/> Cadmium	273	ND/5
Alkalinity (CO ₃)	060		<input checked="" type="checkbox"/> Chromium	283	ND/1
pH*, Ca CO ₃ SAT.	071		<input checked="" type="checkbox"/> Lead	302	ND/1
Alkalinity, Ca CO ₃ SAT	080		<input checked="" type="checkbox"/> Mercury	314	ND/0.005
<input checked="" type="checkbox"/> Hardness	110	123	<input checked="" type="checkbox"/> Selenium	323	ND/1
<input checked="" type="checkbox"/> Ammonia-N	143	1.1	Silver	333	
<input checked="" type="checkbox"/> Nitrate-Nitrite N	162	ND/2	Aluminum	192	
<input checked="" type="checkbox"/> Nitrite N	173	ND/1	<input checked="" type="checkbox"/> Calcium	231	316
MBAS	182		<input checked="" type="checkbox"/> Copper	241	ND/10
<input checked="" type="checkbox"/> Chloride	091	106	<input checked="" type="checkbox"/> Iron	122	38/19
Fluoride	101		<input checked="" type="checkbox"/> Magnesium	241	2.4
Color*	020		<input checked="" type="checkbox"/> Manganese	133	0.5/6
<input checked="" type="checkbox"/> Turbidity*	031	1.1/3	Nickel	391	
<input checked="" type="checkbox"/> Conductance*, SPEC.	201	148	<input checked="" type="checkbox"/> Potassium	361	ND/10
Silica	210		<input checked="" type="checkbox"/> Sodium	371	9.2
<input checked="" type="checkbox"/> Sulfate	220	100	<input checked="" type="checkbox"/> Zinc	342	ND/10
<input checked="" type="checkbox"/> Total Residue <u>D.S.S.</u>	381	11.5	<input checked="" type="checkbox"/> Cd		ND/10

AR300289

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

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF WATER ANALYSIS

Bottle Number: B0014 Name: BUSH County: HARFORD

Source of Sample: _____ Street: WELL Town or City: _____ Collector: HOFFER

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

Remarks: SSD

Country: Plant No.: Sampling Station: B0014 Date Collected: 6/7/31/86 Time: M Acid: Iced:

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

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	011	6.4	<input checked="" type="checkbox"/> Arsenic	253	<0.01
<input checked="" type="checkbox"/> Alkalinity (Total)	040	236	<input checked="" type="checkbox"/> Barium	282	<0.1
<input type="checkbox"/> Alkalinity (HCO ₃)	050		<input checked="" type="checkbox"/> Cadmium	273	<0.005
<input type="checkbox"/> Alkalinity (CO ₃)	060		<input checked="" type="checkbox"/> Chromium	283	<0.01
<input type="checkbox"/> pH*, Ca CO ₃ SAT.	071		<input checked="" type="checkbox"/> Lead	302	<0.01
<input type="checkbox"/> Alkalinity, Ca CO ₃ SAT	080		<input checked="" type="checkbox"/> Mercury	314	<0.0005
<input checked="" type="checkbox"/> Hardness	110	172	<input checked="" type="checkbox"/> Selenium	323	<0.01
<input checked="" type="checkbox"/> Ammonia-N	143	1/2	<input type="checkbox"/> Silver	333	
<input checked="" type="checkbox"/> Nitrate-Nitrite N	162	202	<input type="checkbox"/> Aluminum	192	
<input checked="" type="checkbox"/> Nitrite N	173	0.018	<input checked="" type="checkbox"/> Calcium	231	31.2
<input type="checkbox"/> MBAS	182		<input checked="" type="checkbox"/> Copper	241	<0.10
<input checked="" type="checkbox"/> Chloride	091	92	<input checked="" type="checkbox"/> Iron	122	34.46
<input type="checkbox"/> Fluoride	101		<input checked="" type="checkbox"/> Magnesium	241	20.1
<input type="checkbox"/> Color*	020		<input checked="" type="checkbox"/> Manganese	133	3.59
<input checked="" type="checkbox"/> Turbidity*	031	410	<input type="checkbox"/> Nickel	391	
<input checked="" type="checkbox"/> Conductance*, SPEC.	201	591	<input checked="" type="checkbox"/> Potassium	381	1.9
<input type="checkbox"/> Silica	210		<input checked="" type="checkbox"/> Sodium	371	57.8
<input checked="" type="checkbox"/> Sulfate	220	11.2	<input checked="" type="checkbox"/> Zinc	342	<0.10
<input checked="" type="checkbox"/> Total Residue	381	400	<input checked="" type="checkbox"/> Cd		1/2

AR 300290

* Results reported in units, all others in milligrams per liter (comp.)

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF WATER ANALYSIS

Title Number: BVW-1 Name: Bush Valley County: HARFORD
 Source of Sample: Well Collector: LOFFER
 Street: _____ Town or City: _____
 Sample Type: Community Source Non-Community Distribution Private MCL Emergency Recheck
 Remarks: SSD RECEIVED JUL 80 1957

Country: Plant No.: Sampling Station: Date Collected: Time: M Acid: Lead:

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

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
<input checked="" type="checkbox"/> pH*	011	6.4	<input checked="" type="checkbox"/> Arsenic	253	1401011
<input checked="" type="checkbox"/> Alkalinity (Total)	040	135	<input checked="" type="checkbox"/> Barium	282	1401011
Alkalinity (HCO ₃)	050		<input checked="" type="checkbox"/> Cadmium	273	1401015
Alkalinity (CO ₃)	060		<input checked="" type="checkbox"/> Chromium	283	1401011
pH*, Ca CO ₃ SAT.	071	13.5	<input checked="" type="checkbox"/> Lead	302	1401015
Alkalinity, Ca CO ₃ SAT	080		<input checked="" type="checkbox"/> Mercury	314	1401015
<input checked="" type="checkbox"/> Hardness	110	138	<input checked="" type="checkbox"/> Selenium	323	1401011
<input checked="" type="checkbox"/> Ammonia-N	143	5.7	<input checked="" type="checkbox"/> Silver	333	1401011
<input checked="" type="checkbox"/> Nitrate-Nitrite N	162	110.2	<input checked="" type="checkbox"/> Aluminum	192	1401011
<input checked="" type="checkbox"/> Nitrite N	173	120.12	<input checked="" type="checkbox"/> Calcium	231	1401019
MBAS	182		<input checked="" type="checkbox"/> Copper	241	1401015
<input checked="" type="checkbox"/> Chloride	091	89	<input checked="" type="checkbox"/> Iron	122	1401012
Fluoride	101		<input checked="" type="checkbox"/> Magnesium	241	1401015
Color*	020		<input checked="" type="checkbox"/> Manganese	133	1401013
<input checked="" type="checkbox"/> Turbidity*	031	7.3	<input checked="" type="checkbox"/> Nickel	391	
<input checked="" type="checkbox"/> Conductance*, SPEC.	201	50.5	<input checked="" type="checkbox"/> Potassium	361	1401014
Silica	210		<input checked="" type="checkbox"/> Sodium	371	1401014
<input checked="" type="checkbox"/> Sulfate	220	112.1	<input checked="" type="checkbox"/> Zinc	342	1401014
<input checked="" type="checkbox"/> Total Residue <u>D.S.S.</u>	381	340	<input checked="" type="checkbox"/> <u>CO₂</u>		1401014
			<input checked="" type="checkbox"/> <u>TRN</u>		

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

201 W. Preston Street
J. Mohrman-Jacobs, Ph.D., Director

TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER BU W-1

HARFORD
Name of County

SOURCE OF SAMPLE BUSH VALLEY COLLECTOR HOFFER

SAMPLE TYPE: _____ DISTRIBUTION _____ SOURCE _____ OTHER _____
 Community _____ noncommunity _____ private _____ (specify)
 Landfill observation well X 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: _____

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
											0	7	1	6	8	7		
TRANS TYPE			COUNTY			PLANT NO			SAMPLING STATION			DATE COLLECTED					CASE NO.	
FIELD ID			FIELD RESID. CHLORINE: FREE					TOTAL		25		26		<u>071687</u>				

Purgeable Halocarbons (EPA 624)		Purgeable Aromatics (EPA 624)	
Chloromethane	<1	trans-1,3-Dichloropropene	<1
Bromomethane		Trichloroethene	
Dichlorodifluoromethane		Dibromochloromethane	
Vinyl chloride		1,1,2-Trichloroethane	
Chloroethane		cis-1,3-Dichloropropene	
Methylene chloride		2-Chloroethylvinylether	
Trichlorofluoromethane		Bromoform	
1,1-Dichloroethene		1,1,2,2-Tetrachloroethane	
1,1-Dichloroethane		Tetrachloroethene	
trans-1,2-Dichloroethene		Chlorobenzene	0
Chloroform		Total Trihalomethanes	
1,2-Dichloroethane		Other Purgeable Organics: <u>N.D.</u>	
1,1,1-Trichloroethane		<u>ACETONE</u>	<u>31</u>
Carbon Tetrachloride		<u>2-PROPANOL</u>	<u>146</u>
Bromodichloromethane		<u>OBSERVED: DIMETHYLDISULFIDE</u>	
1,2-Dichloropropane			

071687
AR300292

Results reported in micrograms per liter (parts per billion)
 DATE RECEIVED JUL 16 1987 DATE REPORTED III 30 1987 CHEMIST Will

STATE OF MARYLAND
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE
 LABORATORIES ADMINISTRATION
 REPORT OF WATER ANALYSIS

Title Number: BVW-2 Name: BUSH Valley County: HARFORD

Source of Sample: Well Street: _____ Town or City: _____ Collector: HOOPER

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

Remarks: SSD

RECEIVED

JUL 30 1987

County: Plant No.: Sampling Station: 2 Date Collected: 07/16/87 Time: M Acid: Lead:

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

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
pH*	011	6.5	Arsenic	253	1.00
Alkalinity (Total)	040	273	Barium	262	1.00
Alkalinity (HCO ₃)	050	1.0	Cadmium	273	1.00
Alkalinity (CO ₃)	060	1.0	Chromium	283	1.00
pH*, Ca CO ₃ SAT.	071	1.0	Lead	302	1.00
Alkalinity, Ca CO ₃ SAT	080	1.0	Mercury	314	1.00
Hardness	110	115	Selenium	323	1.00
Ammonia-N	143	1.7	Silver	333	1.00
Nitrate-Nitrite N	162	1.05	Aluminum	192	1.00
Nitrite N	173	1.02	Calcium	231	1.00
MBAS	182	1.0	Copper	241	1.00
Chloride	091	1.3	Iron	122	1.00
Fluoride	101	1.0	Magnesium	241	1.00
Color*	020	1.0	Manganese	133	1.00
Turbidity*	031	2.33	Nickel	391	1.00
Conductance*, SPEC.	201	1149	Potassium	361	1.00
Silica	210	1.0	Sodium	371	1.00
Sulfate	220	1.1	Zinc	342	1.00
Total Residue <u>D.S.S.</u>	381	1.58	<u>COD</u>		1.10
			<u>TUN</u>		1.19

AR300293

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

Date Received: _____ Date Reported: JUL 22 1987 Chemist: _____ Lab N: _____

STATE OF MASSACHUSETTS
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratory Administration

207 W. Franklin Street

J. Mahan Joseph, Ph.D., Director

TRACE ORGANICS LABORATORY
 VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER BV W-2

HARFORD
 Name of County

SOURCE OF SAMPLE BUSH VALLEY COLLECTOR HOFFER

SAMPLE TYPE: _____ DISTRIBUTION: _____ SOURCE: _____ OTHER: _____
 Community _____ noncommunity _____ private _____
 Landfill observation well X 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: _____

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
											0	7	1	6	8	7		
TRANS TYPE		COUNTY		PLANT NO.			SAMPLING STATION				DATE COLLECTED					LAB. NO.		
FIELD PH			FIELD RESID. CHLORINE: FREE							TOTAL				<u>071687</u>				

Purgeable Halocarbons (EPA 8160)

Purgeable Aromatics (EPA 821)

Chloromethane	<1	trans-1,3-Dichloropropene	<1	Benzene	<1
Bromomethane	↓	Trichloroethene	5	Toluene	<1
Dichlorodifluoromethane	↓	Dibromochloromethane	<1	Ethylbenzene	14
Vinyl chloride	↓	1,1,2-Trichloroethane	↓	Total Xylenes	67
Chloroethane	3	cis-1,3-Dichloropropene	↓	Total Purgeable Hydrocarbons	63
Methylene chloride	<1	2-Chloroethylvinylether	↓	Tetrahydrofuran	ND
Trichlorofluoromethane	↓	Bromoform	↓	(2-Butanone) (MEK)	ND
1,1-Dichloroethene	↓	1,1,2,2-Tetrachloroethane	↓	Methylisobutylketone (MIBK)	↓
1,1-Dichloroethane	↓	Tetrachloroethene	↓	Acrolein	↓
trans-1,2-Dichloroethene	↓	Chlorobenzene	↓	Acrylonitrile	↓
Chloroform	↓	Total Trihalomethanes	↓		
1,2-Dichloroethane	2	Other Purgeable Organics: ND			
1,1,1-Trichloroethane	<1				
Carbon Tetrachloride	↓				
Bromodichloromethane	↓				
1,2-Dichloropropane	↓				

AR300294

Results reported in micrograms per liter (parts per billion) V.A.A.C.D.

STATE OF MARYLAND
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE
 LABORATORIES ADMINISTRATION
 REPORT OF WATER ANALYSIS

Title Number: BU W-7 Name: BUSH VALLEY County: HARFORD

Source of Sample: _____ Street _____ Town or City _____ Collector: HOFFK

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

RECEIVED

Remarks: SD JUL 20 1985

County: Plant No.: Sampling Station: 4 Date Collected: 07/16/85 Time: M Acid: Load:

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

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
pH*	011	6.9	Arsenic	253	140.4
Alkalinity (Total)	040	161.6	Barium	262	140.1
Alkalinity (HCO ₃)	050	161.6	Cadmium	273	10.0106
Alkalinity (CO ₃)	060	161.6	Chromium	283	140.1
pH*, Ca CO ₃ SAT.	071	161.6	Lead	302	140.015
Alkalinity, Ca CO ₃ SAT	080	161.6	Mercury	314	140.27015
Hardness	110	161.6	Selenium	323	140.1
Ammonia-N	143	161.6	Silver	333	161.6
Nitrate-Nitrite N	162	161.6	Aluminum	192	161.6
Nitrite N	173	161.6	Calcium	231	161.6
MBAS	182	161.6	Copper	241	140.195
Chloride	091	161.6	Iron	122	140.1
Fluoride	101	161.6	Magnesium	241	140.1
Color*	020	161.6	Manganese	133	161.6
Turbidity*	031	161.6	Nickel	391	161.6
Conductance*, SPEC.	201	161.6	Potassium	361	161.6
Silica	210	161.6	Sodium	371	161.6
Sulfate	220	161.6	Zinc	342	161.6
Total Residue <u>DSS</u>	381	161.6	CO ₂		161.6
			TKA		

AR 300255 161.6

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

Date Received _____ Date Reported _____ Chemist _____ Lab No. _____

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratory Administration

201 W. Princes Street

J. Mahoney-Jacob, Ph.D., Director

TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER BVWA

HARFORD
Name of County

SOURCE OF SAMPLE BUSH VALLEY COLLECTOR HOFFER

SAMPLE TYPE: _____ DISTRIBUTION: _____ SOURCE: _____ OTHER: _____
(Specify)

Community _____ noncommunity _____ private _____

Landfill observation well X 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: _____

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				CAP. NO.	
											9				071687					
FIELD pH			FIELD RESID. CHLORINE: FREE				TOTAL													
20 21 22			23 24				25 26													

OTC 20212

Purgeable Halocarbons (EPA 816-H-674)

Purgeable Aromatics (EPA 816-A)

Chloromethane	3.	trans-1,3-Dichloropropene	<1.	Benzene	14.
Bromomethane	<1.	Trichloroethene	9.	Toluene	<1.
Dichlorodifluoromethane	28.	Dibromochloromethane	<1.	Ethylbenzene	<1.
Vinyl chloride	7.	1,1,2-Trichloroethane		Total Xylenes	22.
Chloroethane	12.	cis-1,3-Dichloropropene		Total Purgeable Hydrocarbons	8.
Methylene chloride	9.	2-Chloroethylvinylether		Tetrahydrofuran	N.D.
Trichlorofluoromethane	<1.	Bromoform		(2-Butanone) (MEK)	N.D.
1,1-Dichloroethene	<1.	1,1,2,2-Tetrachloroethane		Methylisobutylketone (MIBK)	
1,1-Dichloroethane	46.	Tetrachloroethene	12.	Acrolein	
trans-1,2-Dichloroethene	32.	Chlorobenzene	8.	Acrylonitrile	
Chloroform	<1.	Total Trihalomethanes			
1,2-Dichloroethane	49.	Other Purgeable Organics:			
1,1,1-Trichloroethane	<1.	ETHYL ETHER	101.		
Carbon Tetrachloride		OBSERVED: DICHLORODIFLUOROMETHANE, CHLORODIFLUOROMETHANE			
Bromodichloromethane	4.				
1,2-Dichloropropane	6.				

AR300296

Results reported in micrograms per liter (parts per billion)

JUL 30 1987

Will

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratory Administration
201 W. Preston Street
J. Mahan-Jones, Ph.D., Director

TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER BW-1 COLLECTOR Hotel Harford County

SOURCE OF SAMPLE Bush Valley Landfill
(Include Address)

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

IMPORTANT: First time sampled: _____ Last known sampling date: 7/16/87
Reason for submitting sample: Survey _____ Suspected Petroleum Contamination _____
Suspected Industrial Chemical Contamination _____ Other (Specify): _____

CHAIN OF CUSTODY: From: JUL 20 1988 To: _____
From: _____ To: _____

REMARKS: ENFORCEMENT FILE
FILE COPY ONLY

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
											0	7	0	7	8	8										
TRANS TYPE		COUNTY		PLANT NO.			SAMPLING STATION				DATE COLLECTED						CARD NO.									
20		21		22		23		24		25		26		070L0003												

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	2
Chloroethane		cis-1,3-Dichloropropene		Total Purgeable Hydrocarbons	N.D.
Methylene chloride		2-Chloroethylvinylether		Tetrahydrofuran	
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.D.		Vinyl Acetate	
1,1,1-Trichloroethane				Acetone	
Carbon Tetrachloride				2-Hexanone	
Bromodichloromethane				Styrene	
1,2-Dichloropropane					

AR300297

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratory Administration

201 West Preston St.

P.O. Box 2355, Baltimore, Maryland 21203

J. Meheser Joseph, Ph.D., Director

0000001900

Lab No. _____

WATER ANALYSIS

Bottle Number: BW-2 Name: Bush Valley Landfill County: HARTFORD

Source of Sample: _____ Street: _____ Town or City: _____ Collector: H. J. [unclear]

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

Remarks: Am & Ord (W-3 Cone)

County: Plant No.: Sampling Station: 2 Date Collected: 070788 Time: Acid: Iced:

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

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
pH*	00403	7.1	Arsenic	01002	<10
Alkalinity (Total)	00404	27	Barium	01007	40
pH*, Ca CO ₃ , SAT.	00311	1988	Cadmium	01027	40
Alkalinity, Ca CO ₃ , SAT.	74023V	27	Chromium	01034	40
Hardness	00900	27	Lead	01051	40
Ammonia-N	00608	27	Mercury	71900	4.45
Nitrate-Nitrate N	00836	10	Selenium	01147	10
Nitrite N	00815	4A	Silver	01077	
MBAS	38260				
Chloride	00940	11	Aluminum	01105	
Fluoride	00951		Calcium	00916	157
Color*	00081		Copper	01042	1018
Turbidity*	00076	105	Iron	01045	105
Conductance*, SPEC	00095	110	Magnesium	00927	25
Sulfate	00945	<11	Manganese	01055	1097
Total Solids	00500		Nickel	01067	
Dissolved Solids	70300	58	Potassium	00937	11
			Sodium	00929	79
			Zinc	01092	1033
					AR300298 1/2

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

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

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

TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER BW-2 COLLECTOR H. Fel Alford
COUNCILMAN

SOURCE OF SAMPLE Bush Valley Landfill
(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 7/16/87
Reason for submitting sample: Survey Suspected Petroleum Contamination
Suspected Industrial Chemical Contamination Other (Specify) _____

CHAIN OF CUSTODY: From: _____ To: _____
From: _____ To: _____

REMARKS: ENFORCEMENT FILE
FILE COPY ONLY

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

Purgeable Halocarbons (EPA 8240)				Other Purgeables	
Chloromethane	<1	trans-1,3-Dichloropropene	<1	Benzene	<1
Bromomethane	—	Trichloroethene	6	Toluene	1
Dichlorodifluoromethane	—	Dibromochloromethane	<1	Ethylbenzene	↓
Vinyl chloride	—	1,1,2-Trichloroethane	—	Total Xylenes	≈ 2
Chloroethane	—	cis-1,3-Dichloropropene	—	Total Purgeable Hydrocarbons	—
Methylene chloride	—	2-Chloroethylvinylether	—	Tetrahydrofuran	36
Trichlorofluoromethane	—	Bromoform	—	(2-Butanone MEK)	ND
1,1-Dichloroethene	↓	1,1,2,2-Tetrachloroethene	—	Methylisobutyketone (MIBK)	—
1,1-Dichloroethane	2	Tetrachloroethane	—	Acrolein	—
trans-1,2-Dichloroethane	<1	Chlorobenzene	↓	Acrylonitrile	—
Chloroform	—	Total Trihalomethanes	—	Carbon Disulfide	101
1,2-Dichloroethane	—	Other Purgeable Organics:	—	Vinyl Acetate	ND
1,1,1-Trichloroethane	—			Acetone	—
Carbon Tetrachloride	—			2-Hexanone	—
Bromodichloromethane	—			Styrene	2
1,2-Dichloropropane	↓			Ethyl ether	1

Results reported in micrograms per liter (parts per million/billion)
DATE RECEIVED JUL 0 1987 DATE REPORTED JUL 18 1987 CHEMIST W. M.

AR300299

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratory Administration
201 W. Preston Street
J. Mehan Jason, Ph.D., Director

TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER

BW-34

COLLECTOR

Hofel

Halford

SOURCE OF SAMPLE

Bush Valley Landfill

(Include Address)

SAMPLE TYPE:

Community Noncommunity Domestic STP Station

Observation Well Stream Tidal Waters Industrial Effluent

Other (Specify) _____

Preservative Used **RECEIVED**

IMPORTANT:

First time sampled _____ Last known sampling date 7/14/87

Reason for submitting sample: Survey JUL 30 1988 Suspected Petroleum Contamination

Suspected Industrial Chemical Contamination _____ Other (Specify) _____

CHAIN OF CUSTODY: From:

ENFORCEMENT FILE
FILE COPY ONLY

To:

From:

To:

REMARKS:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
										4	0	7	0	7	8	8		
TRANS. TYPE			COUNTY			PLANT NO.			SAMPLING STATION			DATE COLLECTED			CARD NO.			
20	21	22	FIELD RESID. CHLORINE: FREE						23	24	TOTAL		0710N0095					

Purgeable Halocarbons (EPA) 8240

Other Purgeables

Chloromethane	11	trans-1,3-Dichloropropene	<1	Benzene	7
Bromomethane	<1	Trichloroethene	3	Toluene	<1
Dichlorodifluoromethane	6	Dibromochloromethane	<1	Ethylbenzene	<1
Vinyl chloride	2	1,1,2-Trichloroethane	1	Total Xylenes	<2
Chloroethane	12	cis-1,3-Dichloropropene	1	Total Purgeable Hydrocarbons	N.D.
Methylene chloride	<1	2-Chloroethylvinylether	1	Tetrahydrofuran	N.D.
Trichlorofluoromethane	1	Bromoform	1	(2-Butanone MEK)	1
1,1-Dichloroethane	1	1,1,2,2-Tetrachloroethane	1	Methylisobutylketone (MIBK)	1
1,1-Dichloroethane	23	Tetrachloroethene	1	Acrolein	1
trans-1,2-Dichloroethane	4	Chlorobenzene	5	Acrylonitrile	1
Chloroform	<1	Total Trihalomethanes	5	Carbon Disulfide	10
1,2-Dichloroethane	1	Other Purgeable Organics: <u>N.D.</u>		Vinyl Acetate	N.D.
1,1,1-Trichloroethane	1			Acetone	1
Carbon Tetrachloride	1			2-Hexanone	1
Bromodichloromethane	1			Styrene	1
1,2-Dichloropropane	7			ethyl ether	99

AR300300

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. Date Received:

00000000000000000000

Do not write above this line.

WATER ANALYSIS

Bottle Number: B-W-1 Name: Buck Valley Landfill County: Harford
Source of Sample: Well Collector: Bowden
Street: _____ Town or City: _____ (include telephone number)

Data Category Codes:

Sample Types (Circle): Drinking Water Landfill Stream Other
Community (Public Treated) Non-Community (Pub. Untreated) Private Other
Source (Raw Water) Distribution (Treated) MCL Emergency Routine Recheck
Remarks: HSWMA MDE MISSD S-1 + S-2 well #3 out OCT 5 1989

County: Plant No.: Sampling Station: W1 Date & Time are Required for Valid Samples: 08/02/89 Time: _____ Iced: Acid: _____

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

GROUNDWATER AND SPECIAL INVESTIGATION DIVISION Type of Acid: _____

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
✓ pH*	00403	7.6	✓ Arsenic	01002	<0.01
✓ Alkalinity (Total)	00410	110	✓ Barium	01007	<0.01
pH*, Ca CO ₃ SAT.	70311		✓ Cadmium	01027	<0.01
Alkalinity, Ca CO ₃ SAT.	74023		✓ Chromium	01034	<0.01
✓ Hardness	00900	57	✓ Lead	01051	<0.05
✓ Ammonia-N	00608	16.0	✓ Mercury	71900	<0.0005
✓ Nitrate-Nitrate N	00630	<0.2	✓ Selenium	01147	<0.01
✓ Nitrite N	00615	0.001	Silver	01077	
MBAS	38260		Aluminum	01105	
✓ Chloride	00940	20	Calcium	00916	42
Fluoride	00951		Copper	01042	<0.05
Color*	00081		Iron	01045	45.22
✓ Turbidity*	00078	133	✓ Magnesium	00927	52
✓ Conductance*, SPEC	00095	292	✓ Manganese	01055	0.92
✓ Sulfate	00945	20	Nickel	01067	
✓ Total Solids	00500	108	✓ Potassium	00937	48
Dissoived Solids	70300		✓ Sodium	00929	1512
			✓ Zinc	01052	0.12
			✓ C.S.D.		

AR 30030

* Reported in units all others in milligrams per liter (ppm)

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

Lab. No. _____ Date Received _____

0002127-889

Do not write above this line.

WATER ANALYSIS

Bottle Number: A-W-2 Name: Bush Valley Landfill County: Harford
Source of Sample: Well Collector: Baunders
Street: _____ Town or City: _____ (include telephone number)

Data Category Code

Sample Types (Circle): Drinking Water Landfill
Stream Other
Community (Public Treated) Non-Community (Pub. Untreated) Private Other
Special Raw Water Distribution (Treated) MCL
Emergency Routine Recheck
Remarks: HSWMA MDE. **REC** W2 10/5/89 11:00 11:00 11:00
Type of Acid:

County: Plant No.: Sampling Station: W2 Date Collected: 10/5/89 Time: 11:00 Iced: Acid:
Field Data: pH: Chlorine Residual: Free: Total: Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
✓ pH*	00403	7.2	✓ Arsenic	01002	<0.01
✓ Alkalinity (Total)	00410	51	✓ Barium	01007	<0.01
pH*, Ca CO ₃ , SAT.	70311		✓ Cadmium	01027	<0.01
Alkalinity, Ca CO ₃ , SAT.	74023		✓ Chromium	01034	<0.01
✓ Hardness	00900	63	✓ Lead	01051	<0.05
✓ Ammonia-N	00608	3.7	✓ Mercury	71900	<0.0005
✓ Nitrate-Nitrate N	00630	<0.2	✓ Selenium	01147	<0.01
✓ Nitrite N	00615	0.000	Silver	01077	
MBAS	38280				
✓ Chloride	00940	34	Aluminum	01105	
Fluoride	00951		Calcium	00916	11.8
Color*	00081		Copper	01042	<0.05
✓ Turbidity*	00076	3.0	✓ Iron	01045	42.73
✓ Conductance*, SPEC	00095	217	✓ Magnesium	00927	0.84
✓ Sulfate	00945	28	✓ Manganese	01055	0.152
✓ Total Solids	00500	146	Nickel	01067	
Dissolved Solids	70300		✓ Potassium	00937	1.8
			✓ Sodium	00929	15.3
			✓ Zinc	01078	0.07
			✓ C.D.D		<1.0

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. Date Received:

0002493

Do not write above this line.

WATER ANALYSIS

Data Category Code:

Bottle Number: B-W-4

Name: Bush Valley Landfill

County: Harford

Source of Sample:

Well
Street Town or City

Collector: Bowden
(include telephone number)

Sample Types (Circle):
Drinking Water
Landfill
Stream
Other

Community (Public Treated)
Non-Community (Pub. Untreated)
Private
Other

Source (Raw Water)
Distribution (Treated)

Emergency Routine:
Recheck:

RECEIVED

Remarks: HSWMA MDE

OCT 5 1989

County:

Plant No.:

Sampling Station: M4

Date Collected: 10/29/89

Date & Time as Required for Water Samples

WATER AND SPECIAL INVESTIGATION DIVISION

Iced:

Type of Acid:

Field Data: pH:

Chlorine Residual: Free

Total:

Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
✓ pH*	00403	7.6	✓ Arsenic	01002	<0.01
✓ Alkalinity (Total)	00410	104	✓ Barium	01007	<0.01
pH*, Ca CO ₃ SAT.	70311		✓ Cadmium	01027	<0.01
Alkalinity, Ca CO ₃ SAT.	74023		✓ Chromium	01034	<0.01
✓ Hardness	00900	53	✓ Lead	01051	<0.05
✓ Ammonia-N	00608	16.0	✓ Mercury	71900	<0.0005
✓ Nitrate-Nitrate N	00630	<0.2	✓ Selenium	01147	<0.01
✓ Nitrite N	00615	0.005	Silver	01077	
MBAS	38280		Aluminum	01106	
✓ Chloride	00940	20	Calcium	00916	137
Fluoride	00951		✓ Copper	01042	<0.05
Color*	00081		Iron	01045	1052
✓ Turbidity*	00076	52	✓ Magnesium	00927	51
✓ Conductance*, SPEC	00095	287	✓ Manganese	01055	0.68
✓ Sulfate	00945	24	Nickel	01067	
✓ Total Solids	00500	94	✓ Potassium	00937	44
Dissolved Solids	70300		✓ Sodium	00922	AR308303
			✓ Zinc	01092	<0.05
			✓ C.O.D.		410

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratory Administration

201 W. Proctor Street

J. Mahan Joseph Ph.D., Director

TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

NUMBER BV-W-1 COLLECTOR Bowden Hamford Co County

SOURCE OF SAMPLE Buck Valley Landfill
(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 _____
Reason for submitting sample: Survey _____ Suspected Petroleum Contamination _____
Suspected Industrial Chemical Contamination _____ Other (Specify) MAR 5 1990

CHAIN OF CUSTODY: From: _____ To: GROUNDWATER AND SPECIAL INVESTIGATION DIVISION
From: _____ To: _____

REMARKS: NO DETECTION
WIDE

1 TRANS TYPE
2 3 COUNTY
4 5 6 7 PLANT NO.
8 9 10 11 SAMPLING STATION W1
12 13 14 15 16 17 DATE COLLECTED 02 22 90
18 19 CARD NO.
20 21 22 FIELD pH
23 24 FIELD RESID. CHLORINE: FREE
25 26 TOTAL Time

Gasible Hydrocarbons (EPA) (M) <5
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
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
Benzene <1
Toluene
Ethylbenzene
Total Xylenes <2
Total Purgeable Hydrocarbons
Tetrahydrofuran
(2-Butanone MEK)
Methylisobutylketone (MIBK)
Acrolein
Acrylonitrile
Carbon Disulfide
Vinyl Acetate
Acetone
2-Hexanone
Styrene
methyl-tert-butyl-ether 26
AR300304

STATE OF MARYLAND
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratory Administration
 201 W. Preston Street

J. Mahan-Joseph Ph.D., Director

TRACE ORGANICS LABORATORY
 VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER BV-W-2 COLLECTOR Bowden Harford Co. County

SOURCE OF SAMPLE Bush Valley Landfill
 (Include Address)

SAMPLE TYPE: Community _____ Noncommunity _____ Domestic _____ STP Station _____
 Observation Well Stream _____ Tidal Waters _____ Industrial Effluent _____
 Other (Specify) _____
 Preservative Used 1/4 HCL

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

CHAIN OF CUSTODY: From: _____ To: MAR 5 1990
 From: _____ To: _____

REMARKS: HSNMA
MDF
 GROUNDWATER AND SPECIAL INVESTIGATION DIVISION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
										<u>W2</u>			<u>02</u>	<u>22</u>	<u>90</u>			
TRANS TYPE		COUNTY		PLANT NO.			SAMPLING STATION				DATE COLLECTED				CARD NO.			
20	21	22	FIELD RESID. CHLORINE FREE				23	24	TOTAL		25	26	Time					
FIELD PH																		

Purgeable Halocarbons (EPA 621)

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

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

Other Purgeables

Benzene |
 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 ↓

AR300305

593 2 2 1990

Results reported in micrograms per liter (parts per billion)

LAB NO. 2487

RESIDENTIAL WELL SAMPLES

11-11-11

AR300307

PAULA FLEET

P. 1009

BUSK RD.

MISSISSIPPI

8-14-86	4									
6-11-87	3	1	1	1	60	6	L.T.	2		
7-1-87	3	7	1	L.T.	L.T.	34	1	2		
7-14-87	4	4	1	L.T.	L.T.		L.T.	2		
7-29-87	3	12	L.T.	L.T.	L.T.	17	L.T.	1	2	
8-18-87		14			1			2		
8-18-87									2	
8-18-87		16	18			17				
9-24-87										
12-17-87		3								
8-21-88									1	

VOA's

- DICHLOROFLUOROMETHANE estim.
- DICHLORODIFLUOROMETHANE
- METHYLENE CHLORIDE
- 1,1 DICHLOROETHANE
- CHLOROFORM
- 1,1,2,2-TETRACHLOROETHANE
- Tetrahydrofuran (THF)
- 1,2-BUTANONE (MEK)
- TRICHLOROFLUOROMETHANE
- VINYL CHLORIDE
- TETRACHLOROETHENE
- Toluene

(L.T. equals less than)

blank indicates non-detected

R300308

Harry Sodker 37041 Sewell Rd.
Abingdon, MD 21009

5-2-89

VOA's

- DICHLOROFLUOROMETHANE
- DICHLORODIFLUOROMETHANE
- METHYLENE CHLORIDE
- 1,1 DICHLOROETHANE
- CHLOROFORM
- 1,1,2,2-TETRA CHLOROETHANE
- Tetrahydrofuran (THF)
- 1,2-BUTANONE (MEK)
- TRICHLOROFLUOROMETHANE
- VINYL CHLORIDE

Blank indicates non-detected

AR300309

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

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

BOTTLE NUMBER HA-WW-97

HARFORD
Name of County

SOURCE OF SAMPLE 1312 BUSH RD COLLECTOR Whitlock

SAMPLE TYPE: Grab DISTRIBUTION _____ SOURCE well OTHER _____
(specify)

Community _____ noncommunity _____ private
Landfill observation well stream _____ tidal waters _____

Industrial effluent _____ STP sampling station _____ STP effluent _____

Chlorinated _____ preserved with thiosulfate 1+1 HCl

Reason for submitting sample: Trihalomethane Survey _____

Suspected Industrial Chemical Contamination _____

Suspected Petroleum (gasoline, etc.) Contamination _____

Other (specify) Bush Valley L.F. offsite

REMARKS: Paula Fleet h. of Vessels # 2 Outside fence
Abingdon 21009 Well # HA-81-3074

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

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

Purgeable Halocarbons (EPA 821) 8240

Purgeable Aromatics (EPA 821) 8240

Chloromethane	<1	trans-1,3-Dichloropropene	<1	Benzene	<1
Bromomethane		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.D.
Trichlorofluoromethane		Bromoform		Methylethylketone	
1,1-Dichloroethene		1,1,2,2-Tetrachloroethane	↓	(2-Butanone) (MEK)	
1,1-Dichloroethane		Tetrachloroethene		Methylisobutylketone (MIBK)	↓
trans-1,2-Dichloroethene		Chlorobenzene	<1		
Chloroform		Total Trihalomethanes			
2-Dichloroethane		Other Purgeable Organics: <u>N.D.</u>			
1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane	↓				

AR300310

SEP 22 1988 Results reported in micrograms per liter (parts per billion)

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

FILE NUMBER HA-WW-96

HARFORD
Name of County

SOURCE OF SAMPLE 1310 Bush Rd COLLECTOR Whittell

SAMPLE TYPE: Grab DISTRIBUTION _____ SOURCE well OTHER _____
(specify)

Community _____ noncommunity _____ private

Landfill observation well _____ stream _____ tidal waters _____

Industrial effluent _____ STP sampling station _____ STP effluent _____

Chlorinated _____ preserved with thiocarbamate 1+1 HCl

Reason for submitting sample: Trihalomethane Survey _____

Suspected Industrial Chemical Contamination _____

Suspected Petroleum (gasoline, etc.) Contamination _____

Other (specify) Bush Valley L.F. office

REMARKS: Linda Milton Abingdon 21009 L. of Vesuvius #1 (Well No. #) outside faucet

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

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

Purgeable Halocarbons (EPA 608)

Purgeable Aromatics (EPA 608)

Chloromethane	<1	trans 1,3-Dichloropropene	<1	Benzene	<1
Bromomethane		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.D.
Trichlorofluoromethane		Bromoform		Methylethylketone	
1,1-Dichloroethene		1,1,2,2-Tetrachloroethane		(2-Butanone) (MEK)	↓
1,1-Dichloroethane		Tetrachloroethene		Methylisobutylketone (MIBK)	↓
trans-1,2-Dichloroethene		Chlorobenzene	↓		
Chloroform		Total Trihalomethanes			
1,2-Dichloroethane		Other Purgeable Organics: N.D.			
1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane	↓				

AR300311

Results reported in micrograms per liter (parts per billion)

DATE RECEIVED SEP 22 1988 DATE REPORTED Oct 10 1988 CHEMIST P. Cormier LAB. NO. _____

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER HA-WW-98 HARFORD
Name of County

SOURCE OF SAMPLE 1230 Bush Rd COLLECTOR Whitlock

SAMPLE TYPE: GRAB DISTRIBUTION _____ SOURCE well OTHER _____
(specify)

Community _____ noncommunity _____ private
the Landfill observation well stream _____ tidal waters _____

Industrial effluent _____ STP sampling station _____ STP effluent _____

Chlorinated _____ preserved with thiosulfate 1-1 HCl

Reason for submitting sample: Trihalomethane Survey _____
 Suspected Industrial Chemical Contamination _____

Suspected Petroleum (gasoline, etc.) Contamination _____

Other (specify) Bush Valley L.F. offsite

REMARKS: Sam Washington
Abingdon 21009

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
	1	2										0	9	2	1	8	8		
TRANS TYPE	COUNTY	PLANNING	SAMPLING STATION			DATE COLLECTED					CARD NO								
20	21	22	FIELD RESID CHLORINE FREE				23	24	TOTAL	25	26								
FIELD pH																			

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	V

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

Other Purgeable Organics: N.D.

Purgeable Aromatics (EPA 802)

Benzene	<1
Toluene	
Ethylbenzene	V
Total Xylenes	<2
Total Purgeable Hydrocarbons	
Tetrahydrofuran	N.D.
Methylethylketone	
(2-Butanone) (MEK)	
Methylisobutylketone (MIBK)	V

AR3003 | 2

Results reported in micrograms per liter (parts per billion)

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

Handwritten notes:
 000-D
 Bush Valley
 1/2/88

BOTTLE NUMBER HA-PV-039

HATFIELD
 Name of County

SOURCE OF SAMPLE 1230 Bush Rd COLLECTOR M. H. [unclear]

SAMPLE TYPE: Grav DISTRIBUTION SOURCE well OTHER _____

Community _____ noncommunity _____ private

Off-site Landfill observation well stream _____ tidal waters _____

Industrial effluent _____ STP sampling station _____ STP effluent _____

Chlorinated _____ preserved with thiosulfate 1% HCl

Reason for submitting sample: Trihalomethane Survey _____

Suspected Industrial Chemical Contamination _____

Suspected Petroleum (gasoline, etc.) Contamination _____

Other (specify) Off-site landfill monitoring - Bush Valley L.F.

REMARKS: Sam Washington
Abington 2/20/88

RECEIVED
 JAN 4 1988

ENFORCEMENT FILE
 FILE COPY 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.	

FIELD pH FIELD RESID. CHLORINE: FREE TOTAL

Purgeable Halocarbons (EPA 601)

Purgeable Aromatics (EPA 602)

Chloromethane	<u>< 5</u>	trans-1,3-Dichloropropene	<u>< 1</u>	Benzene	<u>< 1</u>
Bromomethane	<u>< 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>< 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>< 10</u>	Tetrahydrofuran	<u>N.D.</u>
Trichlorofluoromethane	<u>↓</u>	Bromoform	<u>< 1</u>	Methylethylketone	<u>↓</u>
1,1-Dichloroethene	<u>↓</u>	1,1,2,2-Tetrachloroethane	<u>↓</u>	(2-Butanone) (MEK)	<u>↓</u>
1,1-Dichloroethane	<u>↓</u>	Tetrachloroethene	<u>↓</u>	Methylisobutylketone (MIBK)	<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: <u>N.D.</u>			
1,1,1-Trichloroethane	<u>↓</u>				
Carbon Tetrachloride	<u>↓</u>				
Bromodichloromethane	<u>↓</u>				
1,2-Dichloropropane	<u>↓</u>				

AR300013

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER HA-PA-034

Name of County _____

SOURCE OF SAMPLE 1310 Bush Rd COLLECTOR [Signature]

SAMPLE TYPE: GRAB DISTRIBUTION SOURCE well OTHER _____
 Community: _____ noncommunity _____ private: (specify) _____

Site Landfill observation well stream _____ tidal waters _____

Industrial effluent _____ STP sampling station _____ STP effluent _____

Chlorinated _____ preserved with thiosulfate 1-1 HCl

Reason for submitting sample: Trihalomethane Survey _____

Suspected Industrial Chemical Contamination _____

Suspected Petroleum (gasoline, etc.) Contamination _____

Other (specify) off-site landfill monitoring - Bush Valley

REMARKS: Linda Milton H. of Vessel #1
Abandon 2/16/89 12787920

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
<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 824)

Purgeable Aromatics (EPA 821)

Chloromethane	<u><1</u>	trans-1,3-Dichloropropene	<u><1</u>	Benzene	<u><1</u>
Bromomethane	<u><1</u>	Trichloroethene	<u>1</u>	Toluene	<u>↓</u>
Dichlorodifluoromethane	<u>2</u>	Dibromochloromethane	<u>↓</u>	Ethylbenzene	<u>↓</u>
Vinyl chloride	<u><1</u>	1,1,2-Trichloroethane	<u>↓</u>	Total Xylenes	<u><2</u>
Chloroethane	<u>↓</u>	cis-1,3-Dichloropropene	<u>↓</u>	Total Purgeable Hydrocarbons	<u>↓</u>
Methylene chloride	<u>↓</u>	2-Chloroethylvinylether	<u>↓</u>	Tetrahydrofuran	<u>N.D.</u>
Trichlorofluoromethane	<u>↓</u>	Bromoform	<u>↓</u>	Methylethylketone	<u>↓</u>
1,1-Dichloroethene	<u>↓</u>	1,1,2,2-Tetrachloroethane	<u>↓</u>	(2-Butanone) (MEK)	<u>↓</u>
1,1-Dichloroethane	<u>↓</u>	Tetrachloroethene	<u>↓</u>	Methylisobutyketone (MIBK)	<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: <u>N.D.</u>			
1,1,1-Trichloroethane	<u>↓</u>				
Carbon Tetrachloride	<u>↓</u>				
Bromodichloromethane	<u>↓</u>				
1,2-Dichloropropane	<u>↓</u>				

AR3003 | 4

Results reported in micrograms per liter (parts per billion)

DATE RECEIVED DEC 1 8 1988 DATE REPORTED JAN 1 8 1989 CHEMIST [Signature] LAB. NO. _____

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

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

BOTTLE NUMBER 112-TH-038

Hagerston
Name of County

SOURCE OF SAMPLE 1312 River Rd COLLECTOR [Signature]

SAMPLE TYPE: Grab DISTRIBUTION ✓ SOURCE Well OTHER _____

Community _____ noncommunity _____ private ✓

Landfill observation well ✓ stream _____ tidal waters _____

Industrial effluent _____ STP sampling station _____ STP effluent _____

Chlorinated _____ preserved with thiosulfate 1+ HCl

Reason for submitting sample: Trihalomethane Survey _____

Suspected Industrial Chemical Contamination _____

Suspected Petroleum (gasoline, etc.) Contamination _____

Other (specify) Off-site Landfill mentioned in Environmental L.F.

REMARKS: Paula Fleet 1 of 2 vessels = 2
All water 2/10/94 1278P-2869

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

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

624

Purgeable Halocarbons (EPA 821)

Purgeable Aromatics (EPA 822)

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

AR300315

Results reported in micrograms per liter (parts per billion)



HARFORD COUNTY HEALTH DEPARTMENT

119 South Hays Street

P.O. Box 191

Bel Air, Maryland 21014-0191

Telephone 879-8322/838-1500 ext. 246

Thomas M. Thomas
Health Officer
Beverly Stump, M.D., MPH
Deputy Health Officer

January 5, 1988

Mr. Sam Washington
1230 Bush Road
Abingdon, Maryland 21009

re: Sample collected 12/17/87

Dear Mr. Washington:

Analysis indicates that all compounds are less than our laboratory's levels of detection. If you have any questions, please don't hesitate to contact me.

Sincerely,

A handwritten signature in dark ink, appearing to read "Willis W. Whitlock, Jr.".

Willis W. Whitlock, Jr., M.P.H., R.S.
Supervising Sanitarian
Air Pollution/Solid Waste

WWW/br

AR300316



HARFORD COUNTY HEALTH DEPARTMENT

119 South Hays Street

P.O. Box 191

Bel Air, Maryland 21014-0191

Telephone 379-8322/838-1500 ext. 252

Thomas M. Thomas
Health Officer
Beverly Stump, M.D., MPH
County Health Officer

June 26, 1987

Ms. Paula Fleet
1312 Bush Road
Abingdon, Maryland 21009

re: Volatile Hydrocarbon
Water Samples
Land of Vessels, lot #2
Use and Occupancy Permit
B.P. #2064-37

Dear Ms. Fleet,

According to Mr. Wade Whitlock, Supervisor of the Solid Waste Division, the referenced water sample results indicate probable contamination by Bush Valley Landfill leachates. Although the levels are low as of June 11, 1987 this department feels that these levels only indicate the beginning of what can become a more serious problem with the groundwater. I have listed the contaminants, the levels found, and the recommended limits, if any are available: (note ppb - parts per billion)

Dichlorodifluoromethane - 3 ppb - cancer risk 10^{-5} at 1.9 ppb

Dichlorofluoromethane - observed - no limit set

Methylene chloride - 1 ppb - cancer risk 10^{-5} at 1.9 ppb

1,1 dichloroethane - 1 ppb - no limit set

Chloroform - 1 ppb - EPA level set at .10 ppb
Cancer risk 10^{-5} at 1.9 ppb

Tetrachloroethane - 2 ppb - limits unavailable

Additionally, tetrahydrofuran and methylethylketone (MEK or 2-butanone) were found in your water sample. These levels are as follows:

Tetrahydrofuran - 60 ppb - EPA suggested limit 3,100 ppb

(2-butanone) (MEK) - 6 ppb - limits unavailable

AR300317

Ms. Paula Fleet
1312 Bush Road
Abingdon, Maryland 21009

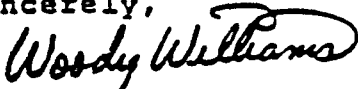
re: Volatile Hydrocarbon
Water Samples
B.P. 2064-87

Most likely these chemicals are evident because of the cement used in sealing your plastic well casing. Mr. Whitlock recommends that you flush the plumbing and run the well off thoroughly. Eventually the levels will drop as the cement cures.

In summary, Mr. Whitlock has recommended that your Use and Occupancy Permit not be released from this department because of the potential health hazard involving the groundwater and your water supply. Also it is recommended that you pursue the possibilities either treatment equipment, or of connecting to public water as soon as possible. You can contact the Department of Public Works (Ken Etchison) at 838-6000 for that information.

Should you wish to discuss this matter further please contact Mr. Whitlock or me at 838-1500.

Sincerely,



Woody Williams, R.S.
Supervising Sanitarian
Community Health Protection

WW/br

cc: T. Thomas
G. Miller
J. Lamb
✓ W. Whitlock
J. Handshoe
J. Palmer
D.I.L.P.
Solid Waste Mgmt.

AR300318

579-8322/833-1500 ext. 246

December 7, 1987

Mrs. Paula Fleet
1312 Bush Road
Abingdon, Maryland 21009

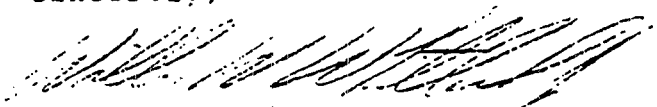
Dear Mrs. Fleet,

I would like to obtain a sample of your well water in the morning of Thursday, December 17th if it is possible. If this is not convenient, please contact me as soon as possible to arrange an alternate date.

If you cannot be home, I can take the sample from an outside faucet. Please let me know if one is to be used, and where it is located.

If you have any questions, please do not hesitate to contact me.

Sincerely,


Willis W. Whitlock, Jr. M.P.H., R.S.
Supervising Sanitarian
Air Pollution/Solid Waste

1987

WWH/Lr

AR300319

879-8322/838-1500

Ext. 246

July 22, 1987

Mrs. Paula Fleet
2007 McKean Avenue
Baltimore, Maryland 21217

Re: Land of Vessells, Lot #2
Water Monitoring

Dear Mrs. Fleet:

I am writing to provide you with the results of the analyses that have been done on the three samples this Department has taken from the referenced water supply. Since our previous letter provided the standards, I will limit this letter to the results, to date:

	<u>June 11, 1987</u>	<u>July 1, 1987</u>	<u>July 14, 1987</u>
Trichlorofluoromethane	Less Than 1.	1.	L.T. 1
Dichlorofluoromethane	Observed	3 (estimated)	4 est.
Dichlorodifluoromethane	3.	7	4
Methylene Chloride	1	1.	1
1,1-Dichloroethane	1	L.T. 1	L.T. 1
Chloroform	1	L.T. 1	L.T. 1
Tetrachloroethene	2	2	2
Tetrahydrofuran	60	34	Not Detected
Methylethylketone	6	N.D.	N.D.

All results are in micrograms per liter or parts per billion.

As you can see, each compound can vary or remain constant independently of others. I am scheduling re-sampling approximately the third of August.

If you have any questions, or if I can be of any assistance in solving this problem, do not hesitate to contact me.

Sincerely,

WILLIS W. WHITLOCK, JR., M.P.H., R.S.
Supervising Sanitarian
Air Pollution/Solid Waste

WW/mc

1987. Alan Gandy,
4060 Law Dept

AR300320

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER 1310-100

Name of County _____

SOURCE OF SAMPLE 1310 Bush Rd. COLLECTOR 1-11-78

SAMPLE TYPE: 6.1 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) _____

**BUSH VALLEY
 LANDFILL
 OFF-SITE**

REMARKS: Mitt. 1-11-78 1-11-78 1-11-78

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
											0	9	2	4	8	7		
TRANS TYPE		COUNTY		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	<u>< 5</u>
Bromomethane	<u>< 1</u>
Dichlorodifluoromethane	<u> </u>
Vinyl chloride	<u> </u>
Chloroethane	<u> </u>
Methylene chloride	<u> </u>
Trichlorofluoromethane	<u> </u>
1,1-Dichloroethene	<u> </u>
1,1-Dichloroethane	<u> </u>
trans-1,2-Dichloroethene	<u>✓</u>
Chloroform	<u> </u>
1,2-Dichloroethane	<u>< 1</u>
1,1,1-Trichloroethane	<u> </u>
Carbon Tetrachloride	<u> </u>
Bromodichloromethane	<u> </u>
1,2 Dichloropropane	<u>✓</u>

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

Purgeable Aromatics (EPA 602)

Benzene	<u>< 1</u>
Toluene	<u> </u>
Ethylbenzene	<u>↓</u>
Total Xylenes	<u>< 2</u>
Total Purgeable Hydrocarbons	<u> </u>
Tetrahydrofuran	<u>1148</u>
Methylethylketone	<u> </u>
(2-Butanone) (MEK)	<u>154</u>
Methylisobutylketone (MIBK)	<u>N.D.</u>

AR300321

Results reported in micrograms per liter (parts per billion)

1148

879-8322/838-1500 ext. 246

October 28, 1987

Mrs. Paula Fleet
2007 McKean Avenue
Baltimore, Maryland 21217

re: 1312 Bush Road

Dear Mrs. Fleet,

Analysis of the September 24, 1987 sample, (we just received the report), indicated the following.

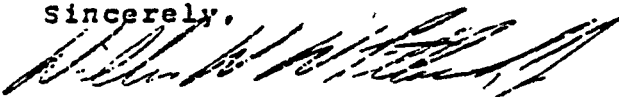
Dichlorodifluoromethane	-	16.	parts	per	billion
Methylene Chloride	-	18.	"	"	"
Tetrahydrofuran	-	17.	"	"	"

Earlier letters have provided the standards and nothing new has shown up. This sample was taken from the outside rear faucet.

I would like to re-sample in mid December, and check your interior treatment system as well. Please contact me to set up a mutually convenient date and time.

If you have any questions at all, please do not hesitate to contact me.

Sincerely,



Willis W. Whitlock, Jr., M.P.H., R.S.
Supervising Sanitarian
Air Pollution/Solid Waste

WWH/dr

encl.

bind copie: Alan Cason, Esq. Co. Law

AR300322

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER 1312

Name of County _____

SOURCE OF SAMPLE 1312 COLLECTOR _____

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) _____

**BUSH VALLEY
 LANDFILL
 OFF-LITE**

REMARKS: _____

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

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

1009 G-1438

Purgeable Halocarbons (EPA 821-G-74)

Chloromethane	<1
Bromomethane	<1
Dichlorodifluoromethane	16
Vinyl chloride	<1
Chloroethane	<1
Methylene chloride	18
Trichlorofluoromethane	<1
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	
Tetrachloroethene	
Chlorobenzene	
Total Trihalometnanes	

Other Purgeable Organics: ND

Purgeable Aromatics (EPA 821-G-74)

Benzene	<1
Toluene	
Ethylbenzene	
Total Xylenes	<2
Total Purgeable Hydrocarbons	
Tetrahydrofuran	17
Methylethylketone	ND
(2-Butanone) (MEK)	
Methylisobutyketone (MIBK)	

AR300323

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER 1230

Name of County _____

SOURCE OF SAMPLE 1230 Bush Rd COLLECTOR _____

SAMPLE TYPE: Community 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) _____

**BUSH VALLEY
 LANDFILL
 OFF-SITE**

REMARKS: 1230 Bush Rd

1 TRANS TYPE	2 COUNTY	3	4 PLANT NO	5	6	7	8 SAMPLING STATION	9	10	11	12 DATE COLLECTED	13	14	15	16	17	18-19 CARD NO
	15										09	24	87				
20 FIELD PH	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	

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	

Purgeable Aromatics (EPA 801)

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

Other Purgeable Organics: ND

AR300324

Results reported in micrograms per liter (parts per billion)

DATE RECEIVED _____ DATE REPORTED 06/15/87 CHEMIST W. S. Hill LAB NO _____

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER HP 100-36

HARRIS
Name of County

SOURCE OF SAMPLE 1312 Bush Rd. COLLECTOR WINTLOCK

SAMPLE TYPE: _____ DISTRIBUTION SOURCE _____ OTHER _____
(specify)

Community _____ noncommunity _____ private

af site 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: Paula Fleet 679-9620 L. J. Yessels #2
2007 McKenn Ave Balto 21247

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	12										08 18 87							
TRANS TYPE	COUNTY		PLANT NO				SAMPLING STATION				DATE COLLECTED				CARD NO			

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

0920K0752

Purgeable Halocarbons (EPA 821-G-2)

Chloromethane	<5
Bromomethane	<1
Dichlorodifluoromethane	14
Vinyl chloride	<1
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	N

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	2
Chlorobenzene	<1
Total Trihalomethanes	

Other Purgeable Organics: N.D.

Purgeable Aromatics (EPA 821-G-2)

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

AR300325

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIE ADMINISTRATION
TRACE ORGANIC LABORATORY
VOLATILE ORGANIC ANALYSIS

BOTTLE NUMBER HA-WW-29

HARFORD
 Name of County

SOURCE OF SAMPLE 1312 Bush Rd. COLLECTOR WHITLOCK

SAMPLE TYPE: DISTRIBUTION SOURCE OTHER
 Community noncommunity private (specify)

Site 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) _____

Bush Valley - off site monitoring

REMARKS Paula Fleet 679 9620 L. of Kessels #2
2007 McKenn Ave Balto 21217

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 CARD NO.
	12			08/18/87	
20 21 22 FIELD DM	23 24 FIELD RESID CHLORINE FREE		25 26 TOTAL		

Purgeable Halocarbons (EPA 601)		Purgeable Aromatics (EPA 602)	
Chloromethane	<1	trans 1,3 Dichloropropene	<1
Bromomethane		Trichloroethene	2
Dichlorodifluoromethane		Dibromochloromethane	<1
Vinyl chloride		1,1,2 Trichloroethane	<2
Chloroethane		cis 1,3-Dichloropropene	
Methylene chloride		2 Chloroethylvinylether	30
Trichlorofluoromethane		Bromoform	
1,1 Dichloroethene		1,1,2,2 Tetrachloroethane	7
1,1 Dichloroethane		Tetrachloroethene	ND
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			

AR300326

Results reported in micrograms per liter (parts per billion)

1 (1987) 10/2/87 CHEMIST Whitlock

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER HA-LW-823

Harford
Name of County

SOURCE OF SAMPLE 1310 Red Ln. COLLECTOR W. J. Baker

SAMPLE TYPE: Gr L DISTRIBUTION SOURCE _____ OTHER _____

Community _____ noncommunity _____ private

Landfill observation well _____ stream _____ tidal waters _____

Industrial effluent _____ STP sampling station _____ STP effluent _____

Chlorinated _____ preserved with H₂O₂

Reason for submitting sample: Trihalomethane Survey _____

Suspected Industrial Chemical Contamination _____

Suspected Petroleum (gasoline, etc.) Contamination _____

Other (specify) _____

REMARKS: Land of Vessalis #1 (Fruit) Miller

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

FIELD NO.

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

 FIELD RESID. CHLORINE: FREE

23	24
----	----

 TOTAL

25	26
----	----

0803 K0441

Purgeable Halocarbons (EPA 821-624)

Chloromethane <1.
 Bromomethane <1.
 Dichlorodifluoromethane 3.
 Vinyl chloride <1.
 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 N.D.

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

Other Purgeable Organics: N.D.

Purgeable Aromatics (EPA 821-624)

Benzene <1.
 Toluene _____
 Ethylbenzene _____
 Total Xylenes 0.2
 Total Purgeable Hydrocarbons _____
 Tetrahydrofuran 36
 Methyl ethyl ketone N.D.
 (2-Butanone) (MEK) _____
 Methyl isobutyl ketone (MIBK) _____

AR300327

*Letter
Sent 8/1/87*

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

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

BOTTLE NUMBER HP-661-801

Harford
Name of County

SOURCE OF SAMPLE 1230 Bush Ln COLLECTOR Webber

SAMPLE TYPE: Grab DISTRIBUTION SOURCE _____ OTHER _____

Community _____ noncommunity _____ private

Landfill observation well _____ stream _____ tidal waters _____

Industrial effluent _____ STP sampling station _____ STP effluent _____

Chlorinated _____ preserved with ^{1+ HCL} thiocyanate

Reason for submitting sample: Trihalomethane Survey _____

Suspected Industrial Chemical Contamination _____

Suspected Petroleum (gasoline, etc.) Contamination _____

Other (specify) _____

REMARKS: BUSH VALLEY LANDFILL RESIDENTIAL SAMPLE
- Washington

1 TRANS TYPE	2 3 COUNTY	4 5 6 7 PLAN NO	8 9 10 11 SAMPLING STATION	12 13 14 15 16 17 DATE COLLECTED	18-19 CARD NO
	12			07 2 4 8 7	
20 21 22 FIELD PH	23 24 FIELD RESID. CHLORINE: FREE		TOTAL	25 26	

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	<2.
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: N.D.	
1,1,1-Trichloroethane	↓		
Carbon Tetrachloride	↓		
Bromodichloromethane	↓		
1,2-Dichloropropane	↓		

AR300328

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER HA-461-822

Harford
 Name of County

SOURCE OF SAMPLE 1312 Bush Rd COLLECTOR W. L. Hill

SAMPLE TYPE: Grab DISTRIBUTION SOURCE _____ OTHER _____

Community _____ noncommunity _____ private

Landfill observation well _____ stream _____ tidal waters _____

Industrial effluent _____ STP sampling station _____ STP effluent _____

Chlorinated _____ preserved with 1+ HCL

Reason for submitting sample: Trihalomethane Survey _____

Suspected Industrial Chemical Contamination _____

Suspected Petroleum (gasoline, etc.) Contamination _____

Other (specify) _____

REMARKS: BUSH VALLEY LANDFILL RESIDENTIAL SAMPLE
- Fleet Lane of Harford #2 (rear)

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
<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	

0803 10462

Purgeable Halocarbons (EPA 821.6-74)		Purgeable Aromatics (EPA 821.6-74)	
Chloromethane	<1	trans-1,3-Dichloropropene	<1
Bromomethane	<1	Trichloroethene	
Dichlorodifluoromethane	12	Dibromochloromethane	
Vinyl chloride	1	1,1,2-Trichloroethane	
Chloroethane	<1	cis-1,3-Dichloropropene	
Methylene chloride		2-Chloroethylvinylether	
Trichlorofluoromethane		Bromoform	
1,1-Dichloroethene		1,1,2,2-Tetrachloroethane	
1,1-Dichloroethane		Tetrachloroethene	2
trans-1,2-Dichloroethene		Chlorobenzene	<1
Chloroform		Total Trihalomethanes	
1,2-Dichloroethane		Other Purgeable Organics:	
1,1,1-Trichloroethane		<u>DICHLOROFLUOROETHANE 3. (ESTIMATED)</u>	
Carbon Tetrachloride		AR300329	
Bromodichloromethane			
1,2-Dichloropropane			

parts per billion (ppb)

873-8322/838-1500 ext. 246

August 11, 1987

Mrs. Linda Milton
1310 Bush Road
Abingdon, Maryland 21009

re: Sample taken 7/29/87

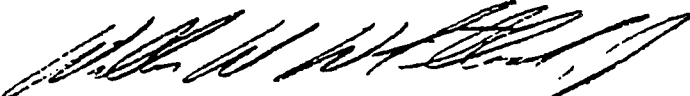
Dear Mrs. Milton:

Please find enclosed a copy of the lab report for the referenced sample. I have summarized the results below. Please note that all results are in parts per billion.

Dichlorodifluoromethane - 3.
Tetrahydrofuran - 36.

If you have any questions at all, please do not hesitate to contact me.

Sincerely,



Willis W. Whitlock, Jr., M.P.H., R.S.
Supervising Sanitarian
Air Pollution/Solid Waste

WWW/br

encl.

AR300330

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER HAV-71 / HAV-72 Harford
Name of County

SOURCE OF SAMPLE 1312 Bush Rd COLLECTOR Leary

SAMPLE TYPE: _____ DISTRIBUTION _____ SOURCE wei 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) Next to Land Fill / history of contamination
 REMARKS: Paula Fleet / 1312 Bush Rd / Abing
Ld of Vessell # 2 / 81-30 84 / 2064-87

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19												
	12										07	14	87																	
TRANS TYPE			COUNTY				PLANT NO				SAMPLING STATION				DATE COLLECTED				CARD NO											
FIELD OH			20				21				22				23				24				25				26			

Purgeable Halocarbons (EPA 601)		Purgeable Aromatics (EPA 602)	
Chloromethane	<5	trans-1,3-Dichloropropene	<1.
Bromomethane	<1.	Trichloroethene	↓
Dichlorodifluoromethane	4.	Dibromochloromethane	↓
Vinyl chloride	<1.	1,1,2-Trichloroethane	↓
Chloroethane	<1.	cis-1,3-Dichloropropene	↓
Methylene chloride	1.	2-Chloroethyvinylether	<10.
Trichlorofluoromethane	<1.	Bromoform	<1.
1,1-Dichloroethene	↓	1,1,2,2-Tetrachloroethane	<1.
1,1-Dichloroethane	↓	Tetrachloroethene	2
trans-1,2-Dichloroethene	↓	Chlorobenzene	<1.
Chloroform	↓	Total Trihalomethanes	_____
1,2-Dichloroethane	↓	Other Purgeable Organics:	
1,1,1-Trichloroethane	↓	<u>OBSERVED: DICHLORODIFLUOROMETHANE 4. (ESTIMATED)</u>	
Carbon Tetrachloride	↓	_____	_____
Bromodichloromethane	↓	_____	_____
1,2-Dichloropropane	↓	_____	_____

AR300331

879-8322/838-1500 ext. 246

August 11, 1987

Mrs. Paula Fleet
2007 McKean Avenue
Baltimore, Maryland 21217

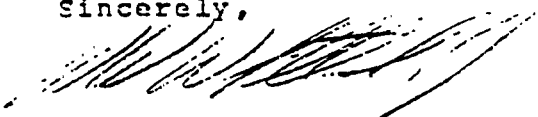
re: sample taken 7/29/87 at
1312 Bush Road

Dear Mrs. Fleet:

Please find a copy of the lab report for the referenced sample enclosed. Comparison with the previous sample reports will show that there is variation occurring in the Dichlorodifluoromethane and Tetrahydrofuran. The only "new" compound is Vinylchloride.

The 1985 E.P.A. Recommended Maximum Contaminant Level is 1 microgram per liter or parts per billion. This compound is listed as a human positive carcinogen. If you have any questions at all, please do not hesitate to contact me.

Sincerely,


W. W. Whitlock, Jr., M.P.H., R.S.
Supervising Sanitarian
Air Pollution/Solid Waste

WWW/br

encl.

AR300332

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER HA-111-101

Horton
 Name of County

SOURCE OF SAMPLE 1310 Bush rd. COLLECTOR Weldman

SAMPLE TYPE: Gro DISTRIBUTION SOURCE OTHER (specify) _____
 Community noncommunity private

Landfill observation well stream tidal waters

Industrial effluent STP sampling station STP effluent

Chlorinated preserved with 141-CC

Reason for submitting sample: Trihalomethane Survey

Suspected Industrial Chemical Contamination

Suspected Petroleum (gasoline, etc.) Contamination

Other (specify) _____

RECEIVED

JUL 13 1987

ENFORCEMENT FILE
 FILE COPY ONLY

REMARKS:

BUSH VALLEY LANDFILL RESIDENT SAMPLE
Landfill site. Land of approximately 1/2 acre. Abingdon rd.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	1	2									0	7	0	1	2	7		
TRANS TYPE	COUNTY		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	<1
Dichlorodifluoromethane	2
Vinyl chloride	<1
Chloroethane	1
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	<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	17
Methylethylketone	N.D.
(2-Butanone) (MEK)	
Methylisobutylketone (MIBK)	

AR300333

Bob De

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER HA-LW-002

Harford
Name of County

SOURCE OF SAMPLE 1312 Twp. Rd. COLLECTOR W. Miller

SAMPLE TYPE: Gravel DISTRIBUTION SOURCE OTHER (specify)
Community noncommunity private

Landfill observation well stream tidal waters

Industrial effluent STP sampling station STP effluent

Chlorinated preserved with

Reason for submitting sample: Trihalomethane Survey

Suspected Industrial Chemical Contamination

Suspected Petroleum (gasoline, etc.) Contamination

Other (specify)

REMARKS: BUSH VALLEY LANDFILL RESIDENT - SAMPLE
Level 8 of Vertical Lot #2 on Ms. Paula Frost

RECEIVED

JUL 13 1997

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	1	2									0	7	0	1	8	7		
TRANS TYPE	COUNTY		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)		Purgeable Aromatics (EPA 625)	
Chloromethane	<5	trans-1,3-Dichloropropene	<1
Bromomethane	<1	Trichloroethene	↓
Dichlorodifluoromethane	7	Dibromochloromethane	↓
Vinyl chloride	<1	1,1,2-Trichloroethane	↓
Chloroethane	<10	cis-1,3-Dichloropropene	↓
Methylene chloride	60	2-Chloroethylvinylether	<10
Trichlorofluoromethane	10	Bromoform	<1
1,1-Dichloroethene	<1	1,1,2,2-Tetrachloroethane	<1
1,1-Dichloroethane	↓	Tetrachloroethene	2
trans-1,2-Dichloroethene	↓	Chlorobenzene	<1
Chloroform	↓	Total Trihalomethanes	
1,2-Dichloroethane	↓	Other Purgeable Organics:	
1,1,1-Trichloroethane	↓	Dichlorofluoromethane = 3 (estimated)	
Carbon Tetrachloride	↓		
Bromodichloromethane	↓		
1,2-Dichloropropane	↓		

Results reported in micrograms per liter (parts per billion)
DATE RECEIVED III 2 10 DATE REPORTED JUL 8 1997 CHEMIST W. Miller LAB. NO. 8

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER HA-WW-27

Hartford
 Name of County

SOURCE OF SAMPLE 1230 Bush Rd; COLLECTOR Whitlock

SAMPLE TYPE: Grab DISTRIBUTION SOURCE _____ OTHER _____
 Community _____ noncommunity _____ private
 Landfill observation well _____ stream _____ tidal waters _____
 Industrial effluent _____ STP sampling station _____ STP effluent _____
 Chlorinated _____ preserved with 1+1 HCl
 Reason for submitting sample: Trihalomethane Survey _____

Suspected Industrial Chemical Contamination _____
 Suspected Petroleum (gasoline, etc.) Contamination _____
 Other (specify) _____

REMARKS: BUSH VALLEY LANDFILL RESIDENTIAL SAMPLE
SAM WASHINGTON Abingdon 21009

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	1	2									0	5	1	9	8	7		
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																		

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	N.D.
Trichlorofluoromethane	↓	Bromoform	<1.	Methylethylketone	↓
1,1-Dichloroethene	↓	1,1,2,2-Tetrachloroethane	↓	(2-Butanone) (MEK)	↓
1,1-Dichloroethane	↓	Tetrachloroethene	↓	Methylisobutylketone (MIBK)	↓
trans-1,2-Dichloroethene	↓	Chlorobenzene	↓		
Chloroform	↓	Total Trihalomethanes			
1,2-Dichloroethane	↓	Other Purgeable Organics:	N.D.		
1,1,1-Trichloroethane	↓				
Carbon Tetrachloride	↓				
Bromodichloromethane	↓				
1,2-Dichloropropane	↓				

AR300335

W01 BC V H

GINNY

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORY ADMINISTRATION
TRACE ORGANIC LABORATORY
VOLATILE ORGANIC ANALYSIS

OK 81-3074

BOTTLE NUMBER HAV-91/HAV-93

Harford
Name of County

SOURCE OF SAMPLE 1312 Bush Rd.

COLLECTOR Leary

SAMPLE TYPE: _____ DISTRIBUTION Out SOURCE Well 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 Contaminant: _____

Suspected Petroleum (gasoline, etc.) Contamination: _____

Other (specify) Near landfill

RECEIVED
probably plastic from well to hand -
Well-casing plastic
Internal plumbing - ?

REMARKS: Ld of Elvora B Vessell #2 / 2064-87
James Palmer / 3824 Grove Road / Millers, Md 21167

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	1	2									0	6	1	1	8	7		
TRANS TYPE		COUNTY		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 801)

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

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

Purgeable Aromatics (EPA 802)

Benzene	<1
Toluene	1
Ethylbenzene	1
Total Xylenes	<2
Total Purgeable Hydrocarbons	60
Tetrahydrofuran	60
Methyl ethyl ketone	6
(2-Butanone) (MEK)	6
Methyl isobutyl ketone (MIBK)	N.D.

Other Purgeable Organics:

observed: dichlorodifluoromethane

AR300336

Results reported in micrograms per liter (parts per billion)

DATE RECEIVED JUN 12 1987

DATE REPORTED JUN 22 1987

CHEMIST Will

LAB. NO. _____

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER HA-WV-22

HARFORD
Name of County

SOURCE OF SAMPLE 1230 Bush Rd COLLECTOR WHITLOCK

SAMPLE TYPE: GRAB DISTRIBUTION _____ SOURCE _____ OTHER _____
(specify)

Community _____ noncommunity _____ private

OFFSITE Landfill observation well stream _____ tidal waters _____

Industrial effluent _____ STP sampling station _____ STP effluent _____

Chlorinated _____ preserved with 1+HCl

Reason for submitting sample: Trihalomethane Survey _____

Suspected Industrial Chemical Contamination _____

Suspected Petroleum (gasoline, etc.) Contamination _____

Other (specify) Priority Pollutant Survey

REMARKS: San Washington Private well used as offsite monitor.
Abingdon 21009 well - ~~Abingdon~~ - Chloroform found recently

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	102										1	1	4	8	6			
TRANS TYPE	COUNTY	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	<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-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	N.D.
Methylethylketone	
(2-Butanone) (MEK)	
Methylisobutylketone (MIBK)	

AR300337

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER HA-WW-28

Hartford
 Name of County

SOURCE OF SAMPLE 1310 Bush Rd. COLLECTOR Whitlock

SAMPLE TYPE: Grub DISTRIBUTION SOURCE _____ OTHER _____
 Community _____ noncommunity _____ private
 Landfill observation well _____ stream _____ tidal waters _____
 Industrial effluent _____ STP sampling station _____ STP effluent _____
 Chlorinated _____ preserved with 1-1 HCl
 Reason for submitting sample: Trihalomethane Survey _____
 Suspected Industrial Chemical Contamination _____
 Suspected Petroleum (gasoline, etc.) Contamination _____
 Other (specify) _____

REMARKS: BUSH VALLEY LANDFILL RESIDENTIAL SAMPLE
Linda Milton Abingdon L. of Vessells #1
21009

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	1	2									0	5	1	9	8	7		
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																		

Purgeable Halocarbons (EPA 601)		Purgeable Aromatics (EPA 921)	
Chloromethane	<5.	trans-1,3-Dichloropropene	<1.
Bromomethane	<1.	Trichloroethene	↓
Dichlorodifluoromethane	↓	Dibromochloromethane	↓
Vinyl chloride	↓	1,1,2-Trichloroethane	↓
Chloroethane	↓	cis-1,3-Dichloropropene	<10.
Methylene chloride	↓	2-Chloroethylvinylether	<1.
Trichlorofluoromethane	↓	Bromoform	↓
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.D.</u>	
1,1,1-Trichloroethane	↓		
Carbon Tetrachloride	↓		
Bromodichloromethane	↓		
1,2-Dichloropropane	↓		

AR300338

Results reported in micrograms per liter (parts per billion)

Will

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER HF-WW-17

HARFORD
Name of County

SOURCE OF SAMPLE 1230 Bush Rd. COLLECTOR WHITLOCK

SAMPLE TYPE: Grab DISTRIBUTION _____ SOURCE _____ OTHER _____
 Community _____ noncommunity _____ private

Off-site Landfill observation well stream _____ tidal waters _____

Industrial effluent _____ STP sampling station _____ STP effluent _____

Chlorinated _____ preserved with thiosulfate 1+1 HCL

Reason for submitting sample: Trihalomethane Survey _____

Suspected Industrial Chemical Contamination _____

Suspected Petroleum (gasoline, etc.) Contamination _____

Other (specify) Off-site Landfill Monitoring Bush Valley L.F.

REMARKS: San Washington
Abingdon 21009

5993

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

FIELD CH

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

 FIELD RESID. CHLORINE: FREE

23	24
----	----

 TOTAL

25	26
----	----

Purgeable Halocarbons (EPA 601)

Purgeable Aromatics (EPA 602)

Chloromethane	<1	trans-1,3-Dichloropropene	<1	Benzene	<1
Bromomethane		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.D.
Trichlorofluoromethane		Bromoform		Methylethylketone	
1,1-Dichloroethene		1,1,2,2-Tetrachloroethane		(2-Butanone) (MEK)	
1,1-Dichloroethane		Tetrachloroethene		Methylisobutylketone (MIBK)	↓
trans-1,2-Dichloroethene	√	Chlorobenzene	↓		
Chloroform	2	Total Trihalomethanes			
1,2-Dichloroethane	<1	Other Purgeable Organics: N.D.			AR300339
1,1,1-Trichloroethane					
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane	↓				

None Detected in onsite mon. wells 7-31-86
(10/14-5-86)

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER HA-WW-18

HARFORD
Name of County

SOURCE OF SAMPLE 1310 BUSH RD. COLLECTOR WHITLOCK

SAMPLE TYPE: Grab DISTRIBUTION _____ SOURCE _____ OTHER _____
(specify)

Community _____ noncommunity _____ private

ff-side Landfill observation well stream _____ tidal waters _____

Industrial effluent _____ STP sampling station _____ STP effluent _____

Chlorinated _____ preserved with thiosulfate 1+1 HCl

Reason for submitting sample: Trihalomethane Survey _____

Suspected Industrial Chemical Contamination _____

Suspected Petroleum (gasoline, etc.) Contamination _____

Other (specify) Off-site Monitoring well Bush Valley L.F.

REMARKS: Linda Milton previous: Tetrahydrofuran 10ppb
Abundant Chloroform 1ppb

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
		12									0	8	1	4	8	6		
TRANS TYPE	COUNTY	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	<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-Tetrachloroethane	
Tetrachloroethene	
Chlorobenzene	↓
Total Trihalomethanes	

Other Purgeable Organics:

Purgeable Aromatics (EPA 602)

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

AR300340

Results reported in micrograms per liter (parts per billion)

DATE RECEIVED AUG 15 1986

DATE REPORTED 3/15/86

CHEMIST Leslie LAB

G. L. M. Jr. per A. G. G. H.

STATE OF MARYLAND

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER HA 6
HA 7

HARTFORD
Name of County

SOURCE OF SAMPLE 1310 BUSH RD. COLLECTOR P. NARANGO

SAMPLE TYPE: Grab 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) OFF SITE MONITORING of Bush Valley Landfill

REMARKS: _____

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

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

Purgeable Halocarbons (EPA 601)

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
1,1,1-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	
Tetrachloroethene	↓
Chlorobenzene	↓
Total Trihalomethanes	
Other Purgeable Organics:	N.D.

Purgeable Aromatics (EPA 802)

Benzene	<1
Toluene	↓
Ethylbenzene	↓
Total Xylenes	<2
Total Purgeable Hydrocarbons	
Tetrahydrofuran	10
Methylethylketone	N.D.
(2-Butanone) (MEK)	↓
Methylisobutylketone (MIBK)	↓
AR300341	

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENT.
LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

Name of County _____

NAME OF SAMPLE ry Sadler Abingdon
11 Jewell Rd 141.5187 COLLECTOR J. S.

SAMPLE TYPE: _____ DISTRIBUTION _____ SOURCE Drinking water OTHER (specify) _____
 Community _____ noncommunity _____ private ✓

Location: observation well _____ stream _____ tidal waters _____

Industrial effluent _____ STP sampling station _____ STP effluent _____

Chlorinated _____ reserved with thiosulfate _____

Reason for monitoring: Trihalomethane Survey _____

Chemical Contamination _____

(gasoline, etc.) Contamination _____

(7)

Well Monitoring - (Bush V...)

3 2 4 5 6 7 8 9 10 11 12 13 14 15
 CITY PLANT NO SAMPLING STATION DATE COLLECTED

23 24 25 26
 FIELD RESID. CHLORINE: FREE TOTAL

(EPA 601)

Purgeable

<u><5</u>	trans-1,3-Dichloropropene	<u><1</u>	Benzene
<u><1</u>	Trichloroethene		Toluene
	Dibromochloromethane		Ethylbenzene
	1,1,2-Trichloroethane		Total Xylenes
	cis-1,3-Dichloropropene	<u>✓</u>	Total Purgeable Organics
	2-Chloroethylvinylether	<u><10</u>	Tetrahydrofuran
	Bromoform	<u><1</u>	Methylethylketone
	1,1,2,2-Tetrachloroethane		(2-Butanone)
	Tetrachloroethene		Methylisobutylketone
	Chlorobenzene	<u>✓</u>	
	Total Trihalomethanes		

Other Purgeable Organics: N.D.

AR300342

Results reported in micrograms per liter (parts per billion)

6-8-90

12

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

Bush Valley Hill

BOTTLE NUMBER

HAV-21/HAV-22

Harford
Name of County

SOURCE OF SAMPLE

1230 Bush Rd

COLLECTOR

Leary

SAMPLE TYPE:

DISTRIBUTION

SOURCE

well

OTHER

(specify)

Community

noncommunity

private

Landfill observation well

stream

tidal waters

Industrial effluent

STP sampling station

STP effluent

Chlorinated

preserved with

sulfate

Reason for submitting sample:

Trihalomethane Survey

Suspected Industrial Chemical Contamination

Suspected Petroleum (gasoline, etc.) Contamination

Other (specify)

Landfill next door / there have been medical problems.

REMARKS:

Sam Washington 1230 Bush Rd / Abingdon
10+00 2M 5/8

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19							
		12									0	3	0	6	8	6									
TRANS TYPE			COUNTY				PLANT NO.					SAMPLING STATION						DATE COLLECTED						SAMP NO.	
FIELD ID			FIELD RESID. CHLORINE: FREE															TOTAL							

Purgeable Halocarbons (EPA 601)

Chloromethane	<1
Bromomethane	
Dichlorodifluoromethane	
Vinyl chloride	
Chloroethane	
Methylene chloride	
Trichlorofluoromethane	
1,1-Dichloroethane	
1,1-Dichloroethane	
trans-1,2-Dichloroethene	
Bromotorm	
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-Chloroethynylvinyl ether	
Bromotorm	
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	N.D.
Methylcyclohexanone	
2-Butanone (MEK)	
Methylisobutylketone (MIBK)	

AR300343

WMA Tubing

STATE OF MARYLAND

DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER

HA-PN-01
HA-PN-02

HARFORD
Name of County

SOURCE OF SAMPLE 1310 BUSH RD. COLLECTOR P. NARANJO

SAMPLE TYPE: _____ DISTRIBUTION _____ SOURCE OTHER _____
Community _____ noncommunity _____ private

offsite Landfill observation well stream _____ tidal waters _____

Industrial effluent _____ STP sampling station _____ STP effluent _____

Chlorinated _____ preserved with ~~thiosulfate~~ HCl

Reason for submitting sample: Trihalomethane Survey _____

Suspected Industrial Chemical Contamination _____

Suspected Petroleum (gasoline, etc.) Contamination _____

Other (specify) Testing of well adjacent to Bush Valley

REMARKS: Landfill sampling per request Paul Thompson WMA-Eu
Land of Vessells Lot 1 HA-31-2405

RECEIVED

MAY 27 1986

ENFORCEMENT FILE
FILE COPY ONLY

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	1	2									0	5	1	5	3	6		
TRANS TYPE	COUNTY		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)

Purgeable Aromatics (EPA 602)

Chloromethane	SEE NOTE	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	36.
Trichlorofluoromethane	↓	Bromoform	↓	Methylethylketone	<1.
1,1-Dichloroethene	↓	1,1,2,2-Tetrachloroethane	↓	(2-Butanone) (MEK)	↓
1,1-Dichloroethane	↓	Tetrachloroethene	↓	Methylisobutylketone (MIBK)	↓
trans-1,2-Dichloroethene	↓	Chlorobenzene	↓		
Chloroform	3.	Total Trihalomethanes	↓		
1,2-Dichloroethane	<1.				
1,1,1-Trichloroethane	↓				
Carbon Tetrachloride	↓				
Bromodichloromethane	↓				
1,2-Dichloropropane	↓				

NOTE: SUSPECT CHLOROMETHANE AND/OR CHLORODIFLUOROMETHANE PRESENT; RESAMPLE AND REFERENCE SAMPLE COLLECTED 5-15-86, LAB. NO. 4125

Results reported in micrograms per liter (parts per billion)

DATE RECEIVED MAY 1 1986 DATE REPORTED MAY 27 1986 CHEMIST W. Hill LAB NO.

AR300344

Beechwood Mobile Home - 3 wells, Q = 0.012 MGD
population = 65, = 1500 feet from landfill.

Belcamp Industrial Park - 1 well, Q = 0.012 MGD
population = 50 1.5 mi from landfill.

Lou Mar Estates - 1 well, Q = 0.005 MGD population = 50
2.5 mi from landfill.

Perryman Water Treatment Plant - Total of 8 wells, 3 wells are
within 3 mi. of landfill, Total Q for wells 1, 2, & 3 = MGD.

AR300345



HARFORD COUNTY HEALTH DEPARTMENT

119 South Hays Street

P.O. Box 191

Bel Air, Maryland 21014-0191

Telephone 879-2404/838-3047 ext 33

Thomas M. Thomas
Health Officer

Beverly Stump, M.D., MPH
Deputy Health Officer

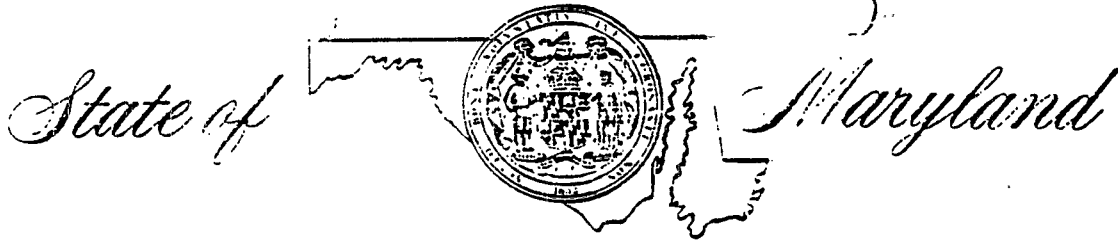
MEMO

TO: Tom DeReamer, HSWMA-CERCLA Response
FROM: Larry Webber, R.S.
RE: Bush Valley Sampling
DATE: September 7, 1989

Enclosed are the copies you requested for Bush Valley, samples taken since December 1987. Our last samples were taken August 14, 1989 and when those results are received, copies will be forwarded. Milton and Fleet are the houses next door, Washington is across the road.

LW/ab

AR300346



OFFICE OF ENVIRONMENTAL PROGRAMS
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

201 WEST PRESTON STREET • BALTIMORE, MARYLAND 21201 • AREA CODE 301 • 329c 225-6367

TTY FOR DEAF: Balto. Area 383-7555
D.C. Metro 565-0451

Adele Wilzack, R.N., M.S., Secretary

William M. Eichbaum, Assistant Secretary

October 28, 1985

Ms. Marsha Erwin
NUS Corporation
992 Old Eagle School Road
Suite 916
Wayne, Pennsylvania 19087

Re: Groundwater Supplies in the vicinity
of Bush Valley Landfill

Dear Ms. Erwin:

Please find enclosed a map showing locations, and a list providing flows of community wells within a 3 mile radius of the Bush Valley Landfill.

If you have any questions in this regard, please feel free to call me at (301) 225-6367.

Sincerely yours,

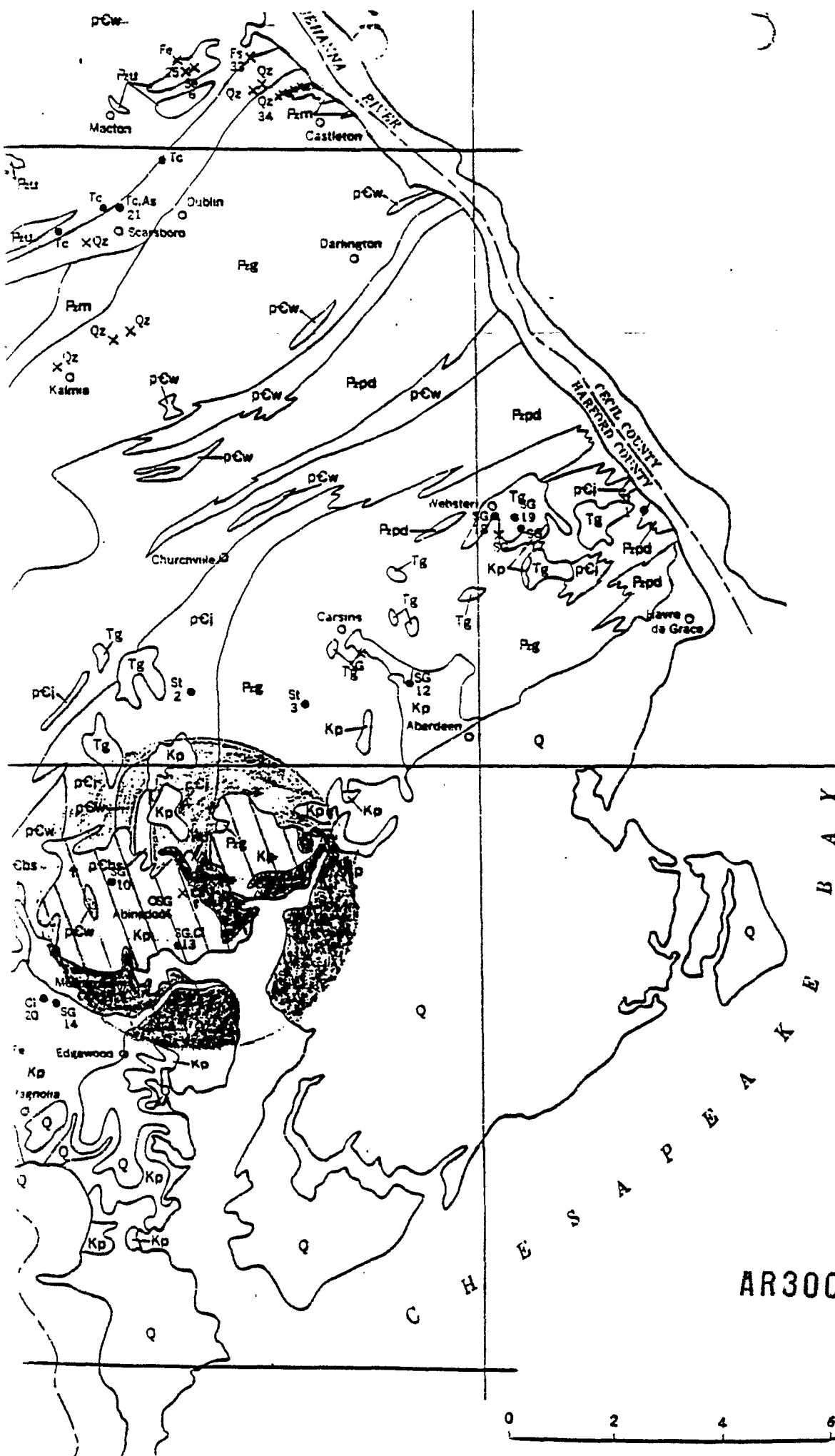
Barry K. O'Brien, P.E.
Public Health Engineer
Division of Water Supply

BKO:das

Enclosures (2)

cc: Mr. William F. Parrish, Jr.
Mr. Paul Thompson, _____

AR300347



	QUATERNARY
	TERTIARY
	CRETACEOUS
	ORDOVICIAN (?)
	PRECAMBRIAN (?)
	PRECAMBRIAN (?)
	PRECAMBRIAN (?)
	PRECAMBRIAN (?)
INTRUSIVE ROCKS	
	PALEOZOIC
	PRECAMBRIAN (?)

AR300348
Location of wells identified by MD-DHMH



DEPT. OF NAT. RESOURCES
1026 /13
58.00A.
R 55

STATE OF MD
1022/24
P. 483

P. 53
P. 539
P. 538
P. 537
P. 536
P. 535
P. 534
P. 533

BUSH

MARY C. GILLESE
1085/620
69.44A.
P. 598

*Bush Valley land
Vicinity*

C. E. HARRIS
494/451
104.70A
P. 642

*701 - Milton
702 - Fleet
507 - Washington*

ELEANORA
B. VESSELLS
854/3
13.58A.
P. 670

ROBT. DIGGS
1079/1069
10.12A.
P. 667

KENNETH
DEINLEIN
918/30
20.00A.
P. 552

GLOCK, INC
932/459
34.81A.
P. 687

SEWELL

A. M. SMITH
977/92

*972
Sellers*

CHARLOTTE E. HARRIS, ETAL
854/6
83.44A
P. 130

P. 135
P. 132
P. 468
P. 469
P. 131
P. 134

CHARLOTTE E. HARRIS
689.65
31.73A.
P. 123

EDWARD J. POUSKA
570/81
78.71A
P. 541

CATHERINE
DALL...
PARCEL 3
PARCEL 2
P. 697
P. 507
P. 508
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P. 597
P. 598
P. 599
P. 600

RUDY B.
JARUSEN
957/402
35.486A
P. 116

R300349

P. 108

Bellucci

FILE COPY ONLY

FEDERAL BUREAU OF INVESTIGATION
TOXIC CHEMICAL LABORATORY
VOLATILE ORGANIC ANALYSIS

ENTER NUMBER BU W-4

Harper
LABORATORY

SOURCE OF SAMPLE Rush Valley COLLECTOR Bealman

SAMPLE TYPE _____ DISPOSITION _____ SOURCE _____ OTHER _____
 Community _____ State _____ County _____
 Locality _____ ST _____ ST _____
 Street _____
 Street _____
 Street _____
 Street _____
 Street _____
 Street _____

RECEIVED

ENFORCEMENT FILE
FILE COPY ONLY

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19

W4

092583

CONCENTRATION	NAME	CONCENTRATION	NAME	CONCENTRATION
	trans-1,3-Dichloropropene		Benzene	<u>17 ppb</u>
	Trichloroethane	<u>5 ppb</u>	Toluene	
	Dibromodichloromethane		Ethylbenzene	<u>5 ppb</u>
	1,1,2-Trichloroethane		Total Styrene	<u>15 ppb</u>
	1,1,3,3-Tetrafluoroethane		Total Dihalogenated Hydrocarbons	
	2,2,4,4-Tetrafluorobutane		Tetrahydrofuran	
	Bromoform		Methylchloroform	
	1,1,2,2-Tetrachloroethane		(2-Ethoxyethyl) MEK	
	Tetrachloroethene	<u>20 ppb</u>	Methyl ethyl ketone (MEK)	
	Chlorobenzene		Ethyl ether	<u>32 ppb</u>
	Total Halogenated			

Handwritten notes:
 04 x d
 23 ppb
 16 ppb
 260 ppb
 7 ppb
 63 ppb
 5 ppb
 5 ppb

Also detected 308957 CC
CHCl₃F, Alkanes, MER
 other volatile priority pollutants (22 ppb)
 (2/mg) verification EPA 624
 AR300350

GERAGHTY & MILLER, INC.

STREAM SAMPLES

AR300351



SUBJECT: MD Dept. No. 244
 PROJECT: Merit Engineers Data for
 CLIENT/PROJECT NO: Bush Valley

BY: _____ DATE: _____
 CHKD: _____ DATE: _____
 REV: _____ DATE: _____

PAGE: _____
 SHEET: 1/3

Bush Valley: Summary of on-site Steam Sampling Analytical Results

	7/17/78	8/18/78	3/22/79	7/5/79	5/15/80	10/20/81
pH (units)	9.0	7.8	7.6	7.6	7.4	7.4
Alkalinity (units)	NI ²	NI	NI	25	6	NI
Chloride (mg/L)	1.0	3	8	5.4	2.0	NI
Conductivity (mg/L)	39	36	27	36	32	44
Iron (mg/L)	14		13	12	11	13
Lead (mg/L)	47	30	24	NI	54	59
Manganese (mg/L)	0.14	0.5	0.22	NI	0.25	NI
Nitrate (mg/L)	9	3	9	8	8	NI
Total Solids (mg/L)	110	12	124	NI	118 (Dist)	NI
CO ₂ (mg/L)	6	6	2	Lab Accident	42	0
SC ⁺ (not defined) (units)	NI	NI	NI	144	151	179
Ammonia Free (mg/L)	NI	NI	NI	NI	20.10	NI
Total Nitrogen (mg/L)	NI	NI	NI	NI	0.3	NI
Total Phosphate (mg/L)	NI	NI	NI	NI	17	NI

* NO Indication of location from which Soil sample was collected

NI: No Information

AR300352



SUBJECT: MD Dept. of Environment
 PROJECT: No. 3
 CLIENT/PROJECT NO: Data from Values =

BY: DATE:
 CHKD: DATE:
 REV: DATE:

PAGE:
 SHEET:
 2

Busch Valley Summary of on-site Stream Sampling Analytical Data

S-2 ^x	7/17/78	10/18/78	3/22/79	7/17/79	5/15/80	6/20/81
pH (units)	7.6	7.4		7.7	7.8	7.5
Color (units)	NI	NI		23	6	NI
Turbidity (units)	1.5	1.0		4.8	1.7	NI
Conductivity (µmho/cm)	39	32		36	32	41
Chloride (mg/L)	13	2		12	11	14
Fluoride (mg/L)	50	52		NI	52	59
Iron (mg/L)	0.13	0.24		NI	0.19	NI
Sodium (mg/L)	7	8		8	8	NI
Total Solids (mg/L)	126	118		NI	108 (DS)	NI
COD (mg/L)	5			Lab Accident	22	CRITICAL
DO (mg/L)	NI	NI		43	49	20 (# not clear)
Ammonia-N Free (mg/L)	NI	NI		NI	<0.10	NI
TKN (mg/L)	NI	NI		NI	0.4	NI
Sulfate (mg/L)	NI	NI		NI	14	NI
Calcium	NI	NI		NI	13	NI

NO DATA

S-2 Sampling location unknown

NI NO INFORMATION

AR300353

Administrative DATA From MD Dept of Environment 7/11/84

upstream pH = 6.43 spec cond = 160
 downstream pH = 6.41 spec cond = 180



SUBJECT: NUS DATA For
 PROJECT: BUS - ALLEN
 CLIENT/PROJECT NO: Landfill

BY: DATE:
 CHKD: DATE:
 REV: DATE:

SHEET: 3/3

STREAM SAMPLING Results

7/11/84

7/11/84

ORGANICS	upstream*	downstream*	upstream*	downstream*
	Bynum Pon C9104 (aqueous)	Bynum Pon C9105 (aqueous)	Bynum Pon C9104 (solid)	Bynum Pon C9106 (solid)
Chenosis (ug/l)	10k	10k		
di-n-butyl sulfate (ug/l)	10k	10k		
methylene chloride (ug/l)	5K	5K	700	600
Acetone (ug/l)	NI	NI	60	35

* Denotes results, question & qualitative significance based upon quality assurance review of data.

7/12/84

Inorganics	upstream*	downstream*
	Bynum Pon	Bynum Pon
Aluminum (ug/l)	NI	236
Iron (ug/l)	314	412
Manganese (ug/l)	18	40
Silver (ug/l)	NI	10
Tin (ug/l)	NI	36

* Indicate whether samples were all collected from same location.

AR300354

SUBJECT: N/US DATA
PROJECT: Bush Valley Landfill
CLIENT/PROJECT NO:

BY: _____ DATE: _____
CHKD: _____ DATE: _____
REV: _____ DATE: _____

Steam / Sediment Sample Results

7/12/84

	Upstream Bynum Run (Solid)	downstream Bynum Run (Solid)
Al mg/kg	5970	5130
As	5.8	4.8
Ba	20	27
Ce	0.22	0.28
Cd	0.10	0.060
Cr	11	11
Co	5.5	6.4
Cu	8.5	9.4
Fe	8870	9050
Pb	7.3	5.1
Mn	120	236
Hg	NI	NI
Ni	7.5	8.0
Sb	4.6	4.2
Vandium	13	13
Zn	28	24

AR300355

NI = NO information

Bush Valley Landfil

Site Sampling Background Information

July 11, 1984

David Healy *DA*

AR300356

Bush Valley Landfill

Outlined below is a synopsis of activities completed at the Bush Valley Landfill on July 11, 1984. NUS Corporation was assigned to complete a site investigation of this facility under EPA's Dump Site Program. Samples were sent to EPA's contract labs for analysis. After receiving the laboratory analysis, NUS will finalize a draft site investigation report, which will be sent to EPA and WMA in approximately 6-9 months. The following individuals were on-site:

Ric Callahan - NUS Corporation
Marsha Irwin - NUS Corporation
Jim Strickland - NUS Corporation
Randy Dickinson - NUS Corporation
Barry Schiesinger - NUS Corporation
Lloyd Harris - Owner
Frank Henderson - WMA, Support Services Division
David Healy - WMA, Support Services Division
Butch Henderson - WMA, Summer Student
David Berardelli - WMA, Summer Student

Three of the four monitoring wells were sampled. Monitoring well 3 contained one foot of water and did not have enough volume for sampling. The other three wells were bailed prior to sampling. Monitoring well information is as follows:

<u>Monitoring Well</u>	<u>Depth</u>	<u>Depth to Water</u>	<u>Column of Water</u>
1	45	12	33
2	43	9	34
3	19	18	1
4	20	9	11

The Braxton-Harris House was abandoned approximately one year ago, and has a field stone lined, 30 deep, dug well with a hand pump.

There was evidence of leachate seeps around the fill and three seeps were sampled. The sediment pond near monitoring well 3 had tadpoles and at least one frog.

Mr. Harris estimated he has 47 acres on this property, of which, approximately 29 acres has been landfilled.

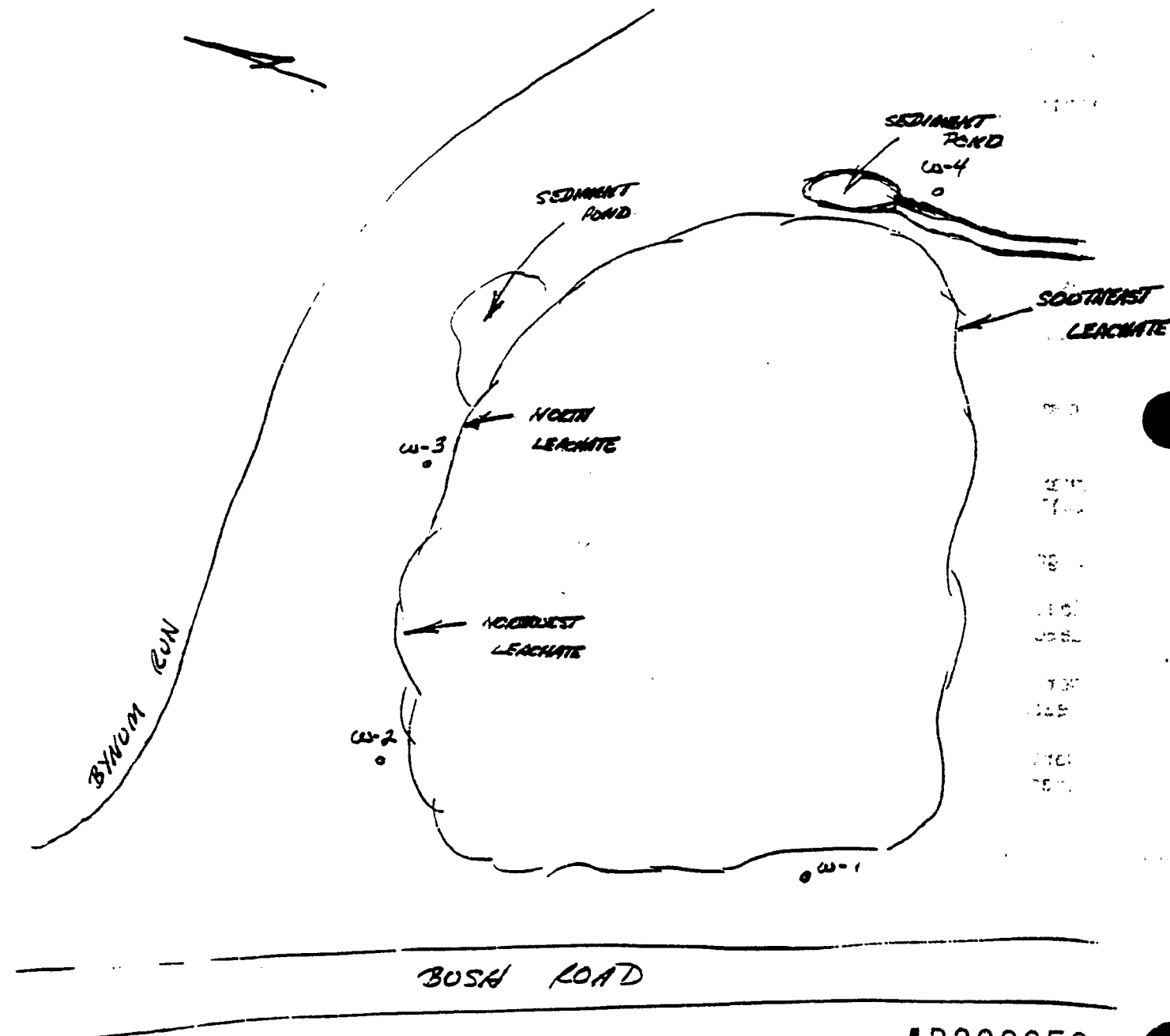
AR300357

Bush Valley Landfill

Sampling Information

<u>Sampling Location</u>	<u>Time</u>	<u>Type of Sample</u>	<u>pH</u>	<u>Specific Conductance</u>
Monitoring Well #1	9:20	Water	5.9	94
Monitoring Well #2	10:25	Water	6.34	66
Monitoring Well #4	11:50	Water	5.64	500
Sediment Pond (near MW-3)	9:50	Water	6.41	200
	9:55	Sediment		
Upstream	10:55	Water	6.43	160
	11:05	Sediment		
Downstream	12:06	Water	6.41	180
	12:10	Sediment		
Braxton-Harris Well	10:35	Water	6.38	60
Diggs Well	12:20	Water	6.69	180
Southeast Leachate	11:45	Sediment		
Northwest Leachate	12:45	Water	7.28	7000
	12:55	Sediment		
North Leachate	13:10	Water	7.33	5200
	13:15	Sediment		

AR300358



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AR300359


 BRAXTON-HARRIS
 HOUSE

NOT TO

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER 5-1

HARFORD
NAME OF COUNTY

SOURCE OF SAMPLE BUSH VALLEY SLF COLLECTOR RICH-ADAMS

SAMPLE TYPE: DISTRIBUTION _____ SOURCE SWIFT OTHER _____
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____
(Specify)

REMARKS: _____

1 <input type="checkbox"/>	2 3 <input type="checkbox"/>	4 5 6 7 <input type="checkbox"/>	8 9 10 11 <u>5-1</u>	12 13 14 15 16 17 <u>07/17/78</u>	18 19 <input type="checkbox"/>
TRANS CODE	COUNTY	PLANT NO.	SAMPLING STATION	DATE COLLECTED	CARD NO.
20 21 22 FIELD pH <input type="checkbox"/>		23 24 FIELD RESID. CHLORINE: FREE <input type="checkbox"/>		25 26 TOTAL <input type="checkbox"/>	

TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓ pH *	011	9.0		CALCIUM	231	
COLOR *	020			MAGNESIUM	241	
✓ TURBIDITY *	031	1.0		ARSENIC	253	
✓ ALKALINITY	040	39		BARIUM	252	
BICARBONATE ALK.	050			CADIUM	273	
CARBONATE ALK.	060			CHROMIUM +6	282	
CARBONATE STAB. pH **	071			COPPER	293	
ALKALINITY	080			LEAD	302	
✓ CHLORIDE	091	14		MERCURY	314	
FLUORIDE	101			SELENIUM	323	
✓ HARDNESS	110	47		SILVER	333	
✓ IRON	122	0.12		ZINC	342	
MANGANESE	133			OIL (GREASE)	351	
AMMONIA N. FREE	143			POTASSIUM	361	
ALBUMINOID	153			✓ SODIUM	371	91
NITRATE	162			✓ TOTAL SOLIDS	381	110
NITRITE	173			✓ COD		AR300360 6
MBAS	182					
ALUMINUM	192					
CYANIDE	202					
SILICA	210					

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER 5-2

HARFORD
NAME OF COUNTY

SOURCE OF SAMPLE BUSH VALLEY SLF COLLECTOR RICH-ADAMS

SAMPLE TYPE: DISTRIBUTION _____ SOURCE STREAM OTHER _____
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____ (Specify)

REMARKS: DIUISION SOLID WASTE

1 TRANS CODE
2 3 COUNTY
4 5 6 7 PLANT NO.
8 9 10 11 5-2 SAMPLING STATION
12 13 14 15 16 17 071878 DATE COLLECTED
18 19 CARD NO.
20 21 22 FIELD pH
23 24 FIELD RESID. CHLORINE: FREE
25 26 TOTAL

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	7.6		CALCIUM	231	
	COLOR *	020			MAGNESIUM	241	
✓	TURBIDITY *	031	15		ARSENIC	253	
✓	ALKALINITY	040	39		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	13		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
✓	HARDNESS	110	54		SILVER	333	
✓	IRON	122	0.13		ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	361	
	ALBUMINOID	153			✓ SODIUM	371	7
	NITRATE	162			✓ TOTAL SOLIDS	381	126
	NITRITE	173			✓ (0)		5
	MBAS	182					
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

AR300361

RESULTS REPORTED IN UNITS. ALL OTHERS IN MILLIGRAMS PER LITER (PPM)

DATE RECEIVED JUL 19 1978 DATE REPORTED _____ CHEMIST _____ LAB _____

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER 5-1

Harford Co.
NAME OF COUNTY

SOURCE OF SAMPLE Buck Valley SLF COLLECTOR Adams

SAMPLE TYPE: DISTRIBUTION _____ SOURCE Stream OTHER _____
(Specify)

COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____

REMARKS: Division Solid Waste

1 <input type="checkbox"/>	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
TRANS CODE	COUNTY		PLANT NO.				SAMPLING STATION				DATE COLLECTED				CARD NO.			
							5-1				10/18/78							
FIELD pH						FIELD RESID. CHLORINE: FREE						TOTAL						
20 21 22						23 24						25 26						

TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓ pH *	011	7.8		CALCIUM	231	
COLOR *	020			MAGNESIUM	241	
✓ TURBIDITY *	031	1.8		ARSENIC	253	
✓ ALKALINITY	040	36		BARIUM	262	
BICARBONATE ALK.	050			CADIUM	273	
CARBONATE ALK.	060			CHROMIUM +6	282	
CARBONATE STAB. pH *	071			COPPER	293	
ALKALINITY	080			LEAD	302	
✓ CHLORIDE	091	111		MERCURY	314	
FLUORIDE	101			SELENIUM	323	
✓ HARDNESS	110	50		SILVER	333	
✓ IRON	122	918		ZINC	342	
MANGANESE	133			OIL (GREASE)	351	
AMMONIA N. FREE	143			POTASSIUM	361	
ALBUMINOID	153			✓ SODIUM	371	18
NITRATE	162			✓ TOTAL SOLIDS	381	112
NITRITE	173			✓ CO ₂	AR3003621	6
MBAS	182					
ALUMINUM	192					
CYANIDE	202					
SILICA	210					

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER 5-2

Harford Co.
NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley S L F COLLECTOR A. Adams

SAMPLE TYPE: DISTRIBUTION _____ SOURCE Stream OTHER _____
(Specify)
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____

REMARKS: Division Solid Waste

1 TRANS CODE	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 CARD NO.
□	□ □	□ □ □ □	□ □ □ □	□ □ □ □ □ □	□ □
			5-2	10/19/78	
20 21 22 FIELD pH			23 24 FIELD RESID. CHLORINE: FREE		25 26 TOTAL
□ □ □			□ □		□ □

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	7.4		CALCIUM	231	
	COLOR *	020			MAGNESIUM	241	
✓	TURBIDITY *	031	116		ARSENIC	253	
✓	ALKALINITY	040	37		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	050			CHROMIUM +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	112		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
✓	HARDNESS	110	162		SILVER	333	
✓	IRON	122	0.24		ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	361	
	ALBUMINOID	153		✓	SODIUM	371	8
	NITRATE	162		✓	TOTAL SOLIDS	381	118
	NITRITE	173		✓	COD		71
	MBAS	182					
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

AR 300358

* RESULTS REPORTED IN UNITS. ALL OTHERS IN MILLIGRAMS PER LITER (PPM)

DATE RECEIVED NOV 10 1978 DATE REPORTED NOV 23 1978 CHEMIST [Signature] LAB

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER B-51

HARFORD
NAME OF COUNTY

SOURCE OF SAMPLE BUSH VALLEY S.L.F. COLLECTOR BELLUSC-ADAMS

SAMPLE TYPE: DISTRIBUTION _____ SOURCE Stream OTHER _____
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____ (Specify)

REMARKS: D.U. SOLID WASTE

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 CODE		COUNTY		PLANT NO.			SAMPLING STATION				DATE COLLECTED				CARD NO.			
							<u>S1</u>				<u>2 2 2 7 9</u>							
FIELD pH						FIELD RESID. CHLORINE: FREE						TOTAL						
<input type="checkbox"/>						<input type="checkbox"/>						<input type="checkbox"/>						

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
	pH *	011	7.6		CALCIUM	231	
	COLOR *	020			MAGNESIUM	241	
✓	TURBIDITY *	031	18		ARSENIC	253	
✓	ALKALINITY	040	27		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	13		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
✓	HARDNESS	110	44		SILVER	333	
✓	IRON	122	0.22		ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	361	
	ALBUMINOID	153		✓	SODIUM	371	9
	NITRATE	162		✓	TOTAL SOLIDS T.S.	381	124
	NITRITE	173		✓	C.O.D		2
	MBAS	182					
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

AR300384

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER B-51

Harford
NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley COLLECTOR Belleville

SAMPLE TYPE: DISTRIBUTION _____ SOURCE Stream OTHER _____ (Specify)
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____

REMARKS: Dr. Solid Waste

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

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	7.6		CALCIUM	231	
✓	COLOR *	020	25		MAGNESIUM	241	
✓	TURBIDITY *	031	54		ARSENIC	253	
	ALKALINITY	040	36		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM. +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	12		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
	HARDNESS	110			SILVER	333	
	IRON	122			ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	361	
	ALBUMINOID	153		✓	SODIUM	371	8
	NITRATE	162			TOTAL SOLIDS	381	
	NITRITE	173		✓	S.C. *		144
	MBAS	182		✓	C.O.D.		
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER B-52

Harford
NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley COLLECTOR Frederick I. Decker

SAMPLE TYPE: DISTRIBUTION ✓ SOURCE Sliver OTHER _____ (Specify)
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____

REMARKS: Dev. Solid Waste

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
□	□ □		□ □ □ □				□ □ □ □				□ □ □ □ □ □				□ □			
TRANS CODE	COUNTY		PLANT NO.				SAMPLING STATION				DATE COLLECTED				CARD NO.			
							82				7 5 79							
20 21 22			23 24						25 26									
FIELD pH			FIELD RESID. CHLORINE: FREE						TOTAL									

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	7.7		CALCIUM *	231	
✓	COLOR *	020	23		MAGNESIUM	241	
✓	TURBIDITY *	031	48		ARSENIC	253	
	ALKALINITY	040	36		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	12		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
	HARDNESS	110			SILVER	333	
	IRON	122			ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
	AMMONIA N. FREE	143			POTASSIUM	361	
	ALBUMINOID	153		✓	SODIUM	371	8
	NITRATE	162			TOTAL SOLIDS	381	
	NITRITE	173		✓	S.C. *		43
	MBAS	182		✓	C.O.D		AR 300366
	ALUMINUM	192					
	CYANIDE	202					
	SILICA	210					
	SULFATE	220					

STATE OF MARYLAND
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
 REPORT OF WATER ANALYSIS

Bottle Number: B-5 Name: Prince Georges County: Prince Georges

Source of Sample: _____ Street: _____ Town or City: _____ Collector: ...

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

Remarks: ...

County: _____ Plant No.: _____ Sampling Station: _____ Date Collected: _____ Time: _____ Acid: _____
 Field Data: pH: _____ Chlorine Residual: _____ Free: _____ Total: _____ Specific Gravity: _____

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
pH*	011	7.0	Arsenic	253	
Alkalinity (Total)	040	110	Barium	262	
Alkalinity (HCO ₃)	050		Cadmium	273	
Alkalinity (CO ₃)	060		Chromium	283	
pH* Ca CO ₃ SAT	071		Lead	302	
Alkalinity Ca CO ₃ SAT	080		Mercury	314	
Hardness	110	110	Selenium	323	
Ammonia-N	143		Silver	333	
Nitrate-Nitrite-N	162		Aluminum	192	
Nitrite-N	173		Calcium	231	
MBAS	182		Copper	241	
Chloride	091	120	Iron	122	
Fluoride	101		Magnesium	241	
Color*	020		Manganese	133	
Turbidity*	031		Nickel	391	
Conductance* SPEC.	201	170	Potassium	361	
Silica	210		Sodium	371	
Sulfate	220		Zinc	342	
Total Residue	381	310			

AR300367

* Results reported in units of milligrams per liter (ppm)

Date Received: _____ Date Reported: _____ Chemist: _____ Lab No.: _____

STATE OF MARYLAND
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE
 LABORATORIES ADMINISTRATION
 REPORT OF WATER ANALYSIS

Bottle Number: 532 Name: Green Valley County: Adams

Source of Sample: _____ Street: _____ Town or City: _____ Collector: Beard

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

Remarks: _____

Country: _____ Plant No.: _____ Sampling Station: _____ Date Collected: _____ Time: _____ Acid: _____

Field Data: pH: _____ Specific Gravity: _____ Free: _____ Total: _____ Specific Conductance: _____

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
pH*	011	7.5	Arsenic	253	
Alkalinity (Total)	040	110	Barium	262	
Alkalinity (HCO ₃)	050		Cadmium	273	
Alkalinity (CO ₃)	060		Chromium	283	
pH* Ca CO ₃ SAT.	071		Lead	302	
Alkalinity Ca CO ₃ SAT.	080		Mercury	314	
Hardness	110	110	Selenium	323	
Ammonia-N	143		Silver	333	
Nitrate-Nitrite N	162		Aluminum	192	
Nitrite N	173		Calcium	231	
MBAS	182		Copper	241	
Chloride	091	110	Iron	122	
Fluoride	101		Magnesium	241	
Color*	020		Manganese	133	
Turbidity*	031		Nickel	391	
Conductance*, SPEC.	201	110	Potassium	361	
Silica	210		Sodium	371	
Sulfate	220		Zinc	342	
Total Residue	381				

AR300368

END

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER B-51

Harper
NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley COLLECTOR Bell

SAMPLE TYPE: DISTRIBUTION _____ SOURCE Stream OTHER _____
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____ (Specify)

REMARKS: D-S-W

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

✓	TEST FOR	CODE	RESULTS	✓	TEST FOR	CODE	RESULTS
✓	pH *	011	7.4	✓	CALCIUM	231	12
✓	COLOR *	020	6		MAGNESIUM	241	
✓	TURBIDITY *	031	2.0		ARSENIC	253	
✓	ALKALINITY	040	32		BARIUM	262	
	BICARBONATE ALK.	050			CADIUM	273	
	CARBONATE ALK.	060			CHROMIUM +6	282	
	CARBONATE STAB. pH *	071			COPPER	293	
	ALKALINITY	080			LEAD	302	
✓	CHLORIDE	091	11		MERCURY	314	
	FLUORIDE	101			SELENIUM	323	
✓	HARDNESS	110	54		SILVER	333	
✓	IRON	122	0.25		ZINC	342	
	MANGANESE	133			OIL (GREASE)	351	
✓	AMMONIA N. FREE	143	0.10		POTASSIUM	361	
	ALBUMINOID <u>TDN</u>	153	0.3	✓	SODIUM	371	
	NITRATE	162		✓	TOTAL SOLIDS <u>DISS</u>	381	1150
	NITRITE	173		✓	<u>S&C</u>		15
	MBAS	182		✓	<u>C/D</u>		12
	ALUMINUM	192		✓	<u>Org. Mat.</u>		
	CYANIDE	202					
	SILICA	210					
✓	SULFATE	220	1.1				

RESULTS REPORTED IN UNITS. ALL OTHERS IN MILLIGRAMS PER LITER (PPM)

AP 300369

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF DRINKING WATER ANALYSIS

BOTTLE NUMBER B-5-2

Harford
NAME OF COUNTY

SOURCE OF SAMPLE Bush Valley

COLLECTOR Beck

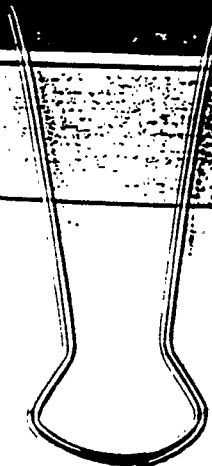
SAMPLE TYPE: DISTRIBUTION _____ SOURCE Shore OTHER _____
COMMUNITY _____ OTHER PUBLIC _____ PRIVATE SUPPLY _____ (Specify)

REMARKS: D.S.W

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

TEST FOR	CODE	RESULTS	TEST FOR	CODE	RESULTS
✓ pH *	011	7.8	✓ CALCIUM	231	13
✓ COLOR *	020	6	MAGNESIUM	241	
✓ TURBIDITY *	031	1.7	ARSENIC	253	
✓ ALKALINITY	040	32	BARIUM	262	
BICARBONATE ALK.	050		CADIUM	273	
CARBONATE ALK.	060		CHROMIUM ⁺⁶⁻	282	
CARBONATE STAB. pH *	071		COPPER	293	
ALKALINITY	080		LEAD	302	
✓ CHLORIDE	091	111	MERCURY	314	
FLUORIDE	101		SELENIUM	323	
✓ HARDNESS	110	52	SILVER	333	
✓ IRON	122	9.9	ZINC	342	
MANGANESE	133		OIL (GREASE)	351	
✓ AMMONIA N. FREE	143	0.10	POTASSIUM	361	
✓ ALUMINUM <u>TEN</u>	153	0.4	✓ SODIUM	371	8
NITRATE	162		✓ TOTAL SOLIDS <u>DISS</u>	381	108
NITRITE	173		✓ <u>SCA</u>		149
MBAS	182		✓ <u>COO</u>		22
ALUMINUM	192		✓ <u>Org-Mat</u>		04
CYANIDE	202				
✓ SILICA	210				
✓ SULFATE	220	14			

AR300370



Dec. 10, 1985
(Sampled 7-84)

PROJECT FOR
PERFORMANCE OF
REMEDIAL RESPONSE ACTIVITIES AT
UNCONTROLLED HAZARDOUS
SUBSTANCE FACILITIES—ZONE 1

NUS CORPORATION
SUPERFUND DIVISION

AR30037

SAMPLE DATA SUMMARY
TARGET COMPOUNDS

Site Name Bay View

Date of Sample 2-22-87

Number F3-5405-44
Number 440-002

Organic Inorganic

Compounds Detected

Sample Number	Sample Description and Location	Phase	Units	SELENIUM				SILVER				TIN				VANADIUM				ZINC				Remarks				
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20					
3476	LEACHATE NW	SOL	mg/kg					85	8	8	85	85	8	8	85													
3477	LEACHATE NW	AQ	mg/l				7.8	21	767	1310																		
3552	LEACHATE N	SOL	mg/kg					71	33	47	64																	
3553	LEACHATE N	AQ	mg/l				3.7	23		276																		

AR300377

Site Name Basin Valley Campsite
 Date of Sample 7-11-88

SAMPLE DATA SUMMARY
 TARGET COMPOUNDS

Organic Inorganic

F3-8405-44
LSR-002

Sample Description and Location	Phase	Units	Compounds Detected					Remarks
			Selenium	Silver	Tin	Vanadium	Zinc	
BLANK	AQ	µ/L						
BLANK	SOL	µg/kg						
UPSTREAM	AQ	µ/L						
BYNUM RUN	SOL	µg/kg		46	18	28		
UPSTREAM	AQ	µ/L						
BYNUM RUN	SOL	µg/kg		10				
DOWNSTREAM	AQ	µ/L						
BYNUM RUN	SOL	µg/kg		4.2	18	24		
DOWNSTREAM	AQ	µ/L						
BYNUM RUN	SOL	µg/kg		6.3	749	668		
MW #1	AQ	µ/L						
MW #2	AQ	µ/L		8.2	405	358		
MW #4	AQ	µ/L		98		307		
SEDIMENT BASIN NE	AQ	µ/L				13		
SEDIMENT BASIN NE	SOL	µg/kg		5.3	24	24		
PRACTON TIRKIS (HOME WELL (HARDWARE))	AQ	µ/L				119		
LEACHATE SOUTH	SOL	µg/kg		5.8	19	27		
DIGGS HOME WELL	AQ	µ/L				21		

For a review of this data and non-target, tentatively identified compounds, please see the Analytical Quality Assurance section of this report.

Site Name: Boyl Factory Johnson
 Date of Sample: 7 11 87

SAMPLE DATA SUMMARY
 TARGET COMPOUNDS

Sample Number: 33-5405-44
 Analyte Number: 140-202

Sample Number	Sample Description and Location	Phase	Units	Compound Detected										Remarks	
				Fluoranthene	Benzo(a)anthracene	Benzo(b)fluoranthene	Chrysene	Fluorene	Indeno(1,2,3-cd)perylene	Benzo(e)pyrene	Benzo(k)fluoranthene	Benzo(a)pyrene	Benzo(a)anthracene		Benzo(b)fluoranthene
3476	LEACHATE N.W.	SOL	mg/kg	17	47	0.34	0.070	111	13	17	46,000	3.1	285	33	WICKEL
3477	LEACHATE N.W.	HQ	mg/kg	138	2100		0.13	359	45	146	40,000	174	4870	131	WICKEL
3552	LEACHATE N.	SOL	mg/kg	10	47	0.52	0.12	17	8.7	16	15,000	14	19.3	4.9	WICKEL
3553	LEACHATE N.	AQ	mg/kg	16	226			28			40,000	7.1	577	73	WICKEL

AR300379

NOTE: For a review of this data and non-target, tentatively identified compounds, please see the Analytical Quality Assurance section of this report.

LEACHATE SAMPLES

AR300380

SUBJECT: Cook Hill Land
 PROJECT: ADHMI - DATA
 CLIENT/PROJECT NO: Leachite

BY: _____ DATE: _____
 CHKD: _____ DATE: _____
 REV: _____ DATE: _____

PAGE: _____
 SHEET: 1/3

Concentration	Location	Depth	Notes
Lead (mg/L)	North Slope	11/13/83	Leachite
Chromium (mg/L)		0/16/85	NI
Iron (mg/L)			
Copper (mg/L)			
Manganese (mg/L)			
Nickel (mg/L)			
Potassium (mg/L)			
Zinc (mg/L)			
pH			
Dissolved O ₂			
BOD			

NI = No information

AR300381

SUBJECT: MDHMH Bush Valley

PROJECT: Leachate Samples

CLIENT/PROJECT NO:

BY: DATE:

CHKD: DATE:

REV: DATE:

Yonkette Dragoon		10/16/85	2/5/86	2/5/86	2/5/86	11/6/86	12/10/86	2/10/87	3/7/88
Location	all	NE	NW(?)	N(?)	SE(?)	NE(?)	FRONT	REAR	NE
Chloroform	ng/L	<1	<10	<10	<1	<1	<50	<50	<1
Bromoform		<1	<10	<10	<1	<1	<50	<50	<1
Dichlorodifluoromethane		<1	<10	<10	<1	<1	<50	<50	<1
Vinyl Chloride		2	<10	<10	<1	<1	<50	<50	<1
Dibromomethane		36	17	<10	<1	<1	<50	<50	<1
Polychlorinated biphenyls		5	35	36	2	<1	6000	150	4
Trichloroethylene		<1	<10	<10	<1	<1	<50	<50	<1
1,1-Dichloroethane		<1	<10	<10	<1	<1	<50	<50	<1
trans-1,2-Dichloroethane		<1	<10	<10	<1	<1	<50	<50	<1
Chloroform		<1	<10	<10	<1	<1	<50	<50	<1
1,2-Dichloroethane		<1	<10	<10	<1	<1	<50	<50	<1
1,1-Trichloroethane		<1	<10	<10	<1	<1	<50	<50	<1
Carbon Tetrachloride		<1	<10	<10	<1	<1	<50	<50	<1
1,1,1-Trichloroethane		<1	<10	<10	<1	<1	<50	<50	<1
1,2-Dichloropropane		<1	<10	<10	<1	<1	200	<50	<1
trans-1,3-Dichloropropene		<1	<10	<10	<1	<1	<50	<50	<1
Trichloroethene		<1	<10	<10	<1	<1	<50	<50	<1
Dibromochloromethane		<1	<10	<10	<1	<1	<50	<50	<1
1,1,2-Trichloroethane		<1	<10	<10	<1	<1	<50	<50	<1
cis-1,3-Dichloropropane		<1	<10	<10	<1	<1	<50	<50	<1
2-Chloroethylvinylether		<1	<10	<10	<1	<1	<50	<50	<1
Bromoform		<1	<10	<10	<1	<1	<50	<50	<1
1,1,2,2-Tetrachloroethane		<1	<10	<10	<1	<1	<50	<50	<1
Tetrachloroethene		<1	<10	<10	<1	<1	<50	<50	<1
Chlorobenzene		8	<10	<10	<1	<1	<50	<50	<1
Benzene		18	<10	<10	<1	6	<50	<50	5
Toluene		390	2060	<10	11	87	200	500	44

AR300382



SUBJECT: Bush Valley Landfill
 PROJECT: MIDHMT DATA
 CLIENT/PROJECT NO:

BY: _____ DATE: _____
 CHKD: _____ DATE: _____
 REV: _____ DATE: _____

PAGE: _____
 SHEET: 3/3

Location	10/16/85	2/5/86	2/5/86	2/5/86	11/6/86	12/10/86	2/11/87	3/7/87
	NI	NW side	NSide	SE side	NI	Front	rear	NE
Volatiles Organic								
Ethyl Benzene (ug/L)	14	110	210	21	45	250	450	15
Total xylenes	3.7	310	220	1	101	250	450	47
Total Purgentile Hydrocarbons	NI	NI	NI	NI	NI	NI	NI	NI
Tetrahydrofuran	2180	ND	NI	NI	43	1900	250	250
2-pentanone (MEK)	5050	29	565	390	183	5400	6400	133
Methyl isobutyl ketone (MIBK)	280	100	NI	20	9	300	50	9
Acroline	NI	ND	NI	NI	ND	ND	ND	ND
Acrylonitrile	NI	NI	NI	NI	ND	ND	ND	ND
Acetone	NI	4660	1060	770	133	2600	3800	469
Isopropyl alcohol	NI	1290	NI	635	131	7200	5900	380
ethyl ether	NI	170	NI	NI	67	650	100	69
Also observed	-	-	* C-5 to C-7 hydrocarbons	C5-C7 hydroc.	-	C4-C6 aliphatic	C4-C6 aliphatic	-
NI Butanol	NI	NI	NI	NI	NI	4200	3900	NI
2-hexanone	NI	NI	NI	NI	NI	NI	NI	94
Methyl tert-butyl ether	NI	NI	NI	NI	NI	NI	NI	3

Summary of BNA Compounds Detected

Compound	2/5/86	2/5/86	AR300383
Phenol (ug/L)	NI	40	
Isophosone (ug/L)	2	45	
Diethyl phthalate (ug/L)	2	45	
Di-N-butyl-phthalate (ug/L)	2	45	

All other BNA compounds are less than detection limits



SUBJECT: NUS Data
 PROJECT: Bush Valley Landfill
 CLIENT/PROJECT NO: 7-87

BY: DATE:
 CHKD: DATE:
 REV: DATE:

	Aqueous Leachate NW	Aqueous Leachate N	Solid Leachate S	Solid Leachate NW	Solid Leachate N
Dioxin	64	10K	NI	NI	NI
Benzene	2500	NI	↓	↓	↓
4-Methyl Phenol	1000	NI	↓	↓	↓
1,4 Dichlorobenzene	NI	10K	↓	↓	↓
Di-(2-ethylhexyl) phthalate	20	10K	10K	1200	10K
di-n-butyl phthalate	NI	10K	NI	NI	NI
diethyl phthalate	68	NI	↓	↓	↓
Ethyl benzene	6.2	6.2	↓	↓	↓
Aniline	NI	SK	↓	↓	↓
Benzene	6.2	SK	↓	↓	↓
Chlorobenzene	SK	NI	↓	↓	↓
Chloroethane	NI	17	↓	↓	↓
Methylene chloride	SK	SK	>1000	>1000	>800
Toluene	63	56	NI	NI	NI
Acetone	740	60	20	25	14
2-Butanone	1400	NI	NI	NI	NI
2-Hexanone	SK	NI	↓	↓	↓
4-methyl 2-pentanone	110	60	↓	↓	↓
Total xylenes	7.2	170	↓	↓	↓
Aniline	100K	NI	↓	↓	↓
Heptachlor	NI	NI	0.001	0.001	NI
B-BTC	NI	NI	NI	NI	0.005K
Al	113000	7890	7100	17900	12100
As	138	16	8.7	17	10
Ba	2100	226	38	49	49
Be	NI	NI	0.38	0.34	0.5
Cd	1.3	NI	0.085	0.090	0.22
Cr	339	28	13	11	19
Co	145	NI	5.8	13	8.3

AR300384

SUBJECT: Green Valley Landfill
PROJECT: NUS DATA
CLIENT/PROJECT NO: 7-11-84

BY: _____ DATE: _____
CHKD: _____ DATE: _____
REV: _____ DATE: _____

PAGE: 11
SHEET: 2b

	Aqueous Leachate NW	Aqueous Leachate N	Solid Leachate South	Solid Leachate NW	Solid Leachate N
Cu	146	NI	6.7	19	16
Fe	208000	40,000	17500	26200	15500
Pb	174	9.1	7.8	5.1	14
Mn	4870	599	191	243	193
Hg	1.3	NI	NI	NI	NI
Ni	184	23	6.5	33	9.9
Se	7.8	3.1	NI	NI	NI
Sr	71	23	5.8	8.8	7.1
Vanadium	269	NI	19	45	31
Zn	1210	276	27	28	47
Antimony	NI	NI	NI	1.5	1.4

Dec. 10, 1985
(Sampled 7-84)

PROJECT FOR
PERFORMANCE OF
REMEDIAL RESPONSE ACTIVITIES AT
UNCONTROLLED HAZARDOUS
SUBSTANCE FACILITIES—ZONE 1

NUS CORPORATION
SUPERFUND DIVISION

AR 3003-85

SAMPLE DATA SUMMARY
TARGET COMPOUNDS

Site Name Basin Street (45-20-112)
Date of Sample 7-11-77

Number F3-S405-44
Number L112-002

Inorganic
 Organic

No	Sample Description and Location	Phase	Units	Components Detected										Remarks							
				FLUORIDE	ARSENIC	BARIUM	CADMIUM	COPPER	CHROMIUM	LEAD	COBALT	ZINC	IRON		MANGANESE	MERCURY	NICKEL				
41	Blank	AQ	µg/L			0.0															
42	Blank	SOL	mg/kg																		
43	UPSTREAM BRUM RUN	AQ	µg/L																		
44	UPSTREAM BRUM RUN	SOL	mg/kg		58	0.27	0.12	11	55	85	5470	28	120	75							
45	DOWNSTREAM BRUM RUN	AQ	µg/L																		
46	DOWNSTREAM BRUM RUN	SOL	mg/kg		48	0.28	0.26	11	64	84	4050	51	236	510							
47	MW #1	AQ	µg/L		44	11	0.24	807	104	55.5	16000	126	1130	0.63							
48	MW #2	AQ	µg/L		34	60	0.13	328	96	337	27000	164	1020								
49	MW #4	AQ	µg/L		75		0.30	322	96	819	27000	53	1620	0.46							
50	SEDIMENT BASIN NE	AQ	µg/L																		
51	SEDIMENT BASIN NE	SOL	mg/kg		99	33	0.16	18	5.1	8.7	10000	46	160								
52	HEAD SOUTH WELLS	AQ	µg/L		8			16		232	8660	13	57								
53	HEAD SOUTH WELLS	SOL	mg/kg		8.7	38	0.33	13	5.8	6.7	12000	78	100								
54	HEAD SOUTH WELLS	AQ	µg/L																		
55	HEAD SOUTH WELLS	SOL	mg/kg		7100																
56	HEAD SOUTH WELLS	AQ	µg/L																		

1. All components listed are the Analytical Quality Assurance maximum of this report.

SAMPLE DATA SUMMARY
TARGET COMPOUNDS

Site Name Basin Valley Complex

Date of Sample 7-18-54

Organic Inorganic

Number E3-8405-44
Number LS10-002

IC	Sample Description and Location	Phase	Units	Components Detected					Remarks		
				SELENIUM	SILVER	TIN	WYNDIUM	ZINC		THYMIUM	
61	BLANK	AQ	µ/L								
62	BLANK	SOL	mg/kg								
63	UPSTREAM	AQ	µ/L								
64	BYNUM RUN	SOL	mg/kg		4.6	18	28				
65	DOWNSTREAM	AQ	µ/L	10	36						
66	BYNUM RUN	SOL	mg/kg		4.2	18	24				
67	MW #1	AQ	µ/L		6.3	742	668				
68	MW #2	AQ	µ/L		8.2	405	358				
69	MW #4	AQ	µ/L		98		307				
70	SEDIMENT	NEAQ	µ/L								
71	BASIN NE	AQ	µ/L								
72	SEDIMENT	SOL	mg/kg		5.3	24	24				
73	BASIN NE	AQ	µ/L								
74	BRAXTON HOME WELL (ABANDONED)	AQ	µ/L								
75	LEACHATE SOUTH	SOL	mg/kg		5.8	19	27				
76	DIGGS HOME WELL	AQ	µ/L		21						

SAMPLE DATA SUMMARY
TARGET COMPOUNDS

Site Name: Basal Velocity Station
Date of Sample: 7-11-97

Inorganic Organic

Sample Number: EA-5405-44
Sample ID: 140-002

Compounds Detected

Sample Number	Sample Description and Location	Phase	Units	Fluoride	Argenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Nickel	Remarks
3476	LEACHATE NW	SOL	mg/L	17,900	17	49	0.34	0.070	111	13	17	2,100	5.1	243		33	
3477	LEACHATE NW	AQ	mg/L	113,000	138	2100	0.13	0.13	359	45	146	2,100	174	4870	1.3	181	
3550	LEACHATE N	SOL	mg/L	12,100	10	49	0.56	0.12	17	8.7	16	15,000	14	193		4.9	
3553	LEACHATE N	AQ	mg/L	7,570	16	226			28			20,500	7.1	577		7.3	

AR300394

Bush Valley Landfil

Site Sampling Background Information

July 11, 1984

David Healy *DA*

AR300395

Bush Valley Landfill

Outlined below is a synopsis of activities completed at the Bush Valley Landfill on July 11, 1984. NUS Corporation was assigned to complete a site investigation of this facility under EPA's Dump Site Program. Samples were sent to EPA's contract labs for analysis. After receiving the laboratory analysis, NUS will finalize a draft site investigation report, which will be sent to EPA and WMA in approximately 6-9 months. The following individuals were on-site:

Ric Callahan - NUS Corporation
Marsha Irwin - NUS Corporation
Jim Strickland - NUS Corporation
Randy Dickinson - NUS Corporation
Barry Schliesinger - NUS Corporation
Lloyd Harris - Owner
Frank Henderson - WMA, Support Services Division
David Healy - WMA, Support Services Division
Butch Henderson - WMA, Summer Student
David Berardelli - WMA, Summer Student

Three of the four monitoring wells were sampled. Monitoring well 3 contained one foot of water and did not have enough volume for sampling. The other three wells were bailed prior to sampling. Monitoring well information is as follows:

<u>Monitoring Well</u>	<u>Depth</u>	<u>Depth to Water</u>	<u>Column of Water</u>
1	45	12	33
2	43	9	34
3	19	18	1
4	20	9	11

The Braxton-Harris House was abandoned approximately one year ago, and has a field stone lined, 30 deep, dug well with a hand pump.

There was evidence of leachate seeps around the fill and three seeps were sampled. The sediment pond near monitoring well 3 had tadpoles and at least one frog.

Mr. Harris estimated he has 47 acres on this property, of which, approximately 29 acres has been landfilled.

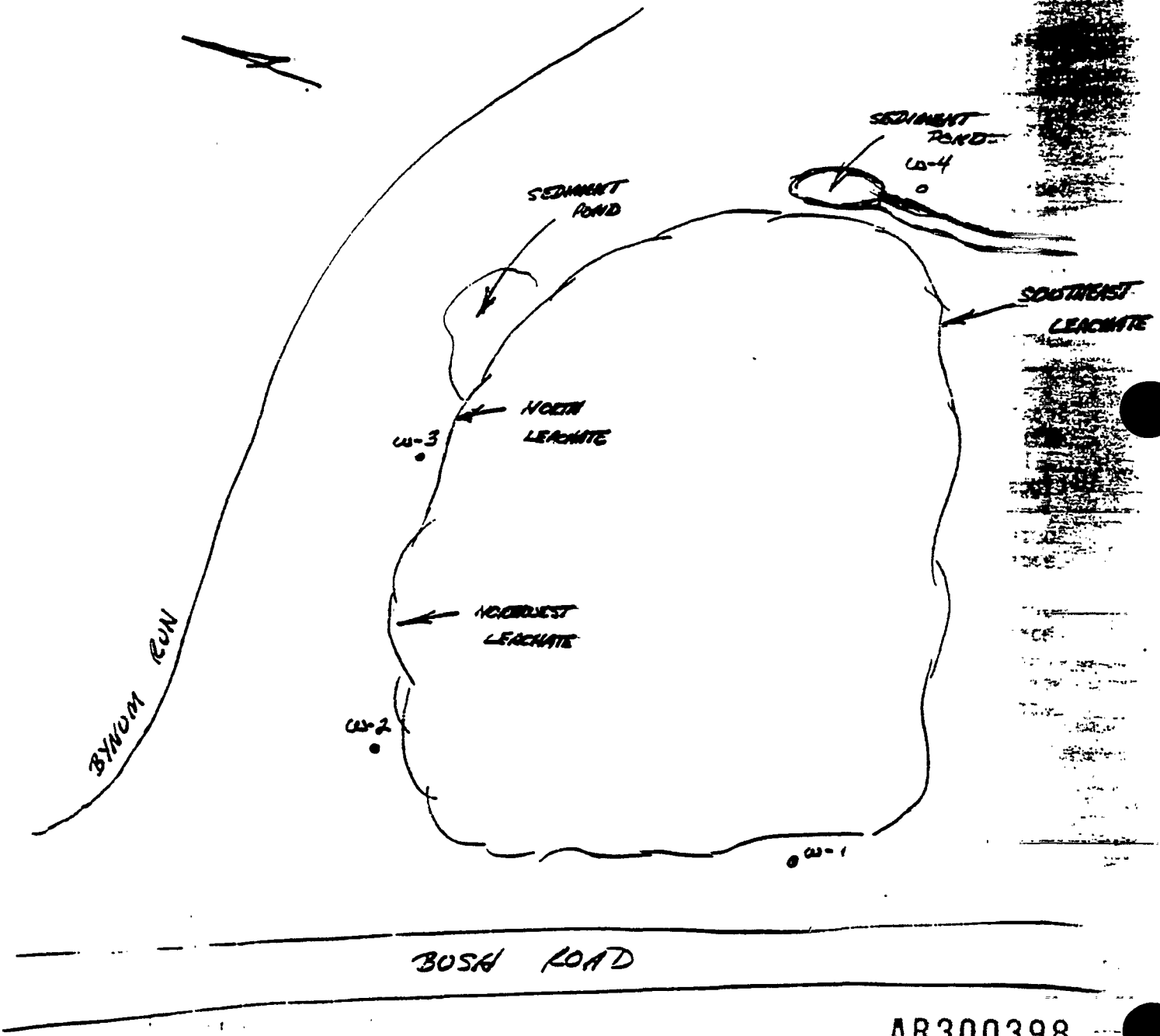
AR300396

Bush Valley Landfill

Sampling Information

<u>Sampling Location</u>	<u>Time</u>	<u>Type of Sample</u>	<u>pH</u>	<u>Specific Conductance</u>
Monitoring Well #1	9:20	Water	5.9	94
Monitoring Well #2	10:25	Water	6.34	66
Monitoring Well #4	11:50	Water	5.64	500
Sediment Pond (near MW-3)	9:50	Water	6.41	200
	9:55	Sediment		
Upstream	10:55	Water	6.43	160
	11:05	Sediment		
Downstream	12:06	Water	6.41	180
	12:10	Sediment		
Braxton-Harris Well	10:35	Water	6.38	60
Diggs Well	12:20	Water	6.69	180
Southeast Leachate	11:45	Sediment		
Northwest Leachate	12:45	Water	7.28	7000
	12:55	Sediment		
North Leachate	13:10	Water	7.33	5200
	13:15	Sediment		

AR300397



AR300398

BRAXTON-HARRIS HOUSE

NOT TO SCALE

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE
LABORATORIES ADMINISTRATION
REPORT OF WATER ANALYSIS

JUL 15 1983

Bottle Number: 5V-2 Name: Brush Valley, land fill County: Howard
 Source of Sample: Brush Rd Street Abandon Town or City Collector: J. Curtis

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

Remarks: leachate from north slope
- total metals -

County: Plant No.: Sampling Station: Date Collected: 01/13/83 Time: 10 AM Acid: Iced:
 Field Data: pH*: Chlorine Residual: Free: Total: Specific Conductance:

ANALYSIS	CODE	RESULTS	ANALYSIS	CODE	RESULTS
pH*	011		Arsenic	253	
Alkalinity (Total)	040		Barium	262	
Alkalinity (HCO ₃)	050		✓ Cadmium	273	105
Alkalinity (CO ₃)	060		✓ Chromium	283	116
pH*, Ca CO ₃ SAT.	071		✓ Lead	302	15
Alkalinity, Ca CO ₃ SAT	080		✓ Mercury	314	1013
Hardness	110		Selenium	323	
Ammonia-N	143		Silver	333	
Nitrate-Nitrite N	162		Aluminum	192	
Nitrite N	173		Calcium	23	
MBAS	182		✓ Copper	241	017
Chloride	091		Iron	122	
Fluoride	101		Magnesium	241	
Color*	020		✓ Manganese	133	100
Turbidity*	031		✓ Nickel	391	1015
Conductance*, SPEC.	201		✓ Potassium	361	1110
Silica	210		Sodium	371	
Sulfate	220		✓ Zinc	342	5135
Total Residue	381		CH ₂		

AR300399

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

SPECIMEN

Chain of Custody Record

Instructions: Execute two (2) copies, both copies to accompany collected sample(s) until delivery to the Custodial Clerk at the Central Laboratory or other appropriate authorized agency. The Custodial Clerk or other authorized person accepting delivery will sign both copies, one copy to stay with the collected sample(s) and one copy to be returned to the sample(s) collector.

Location of Sampling <i>Bush Valley Landfill</i>	Description of waste sampled (color, odor, liquid, solid, etc.) <i>Dark liquid, odor</i>
---	---

Field Information (sampling method, container, preservation, etc.)
grab, cub. container

No. of Pkgs. <i>1</i>	Identifying marks placed on collected samples. <i>BV-2</i>	Name, title, telephone no., address of collector. <i>James D. Curtis x6656</i>
--------------------------	---	---

Date of Sampling & Time <i>1/13/83 1000 hrs.</i>	If the collector did not deliver the collected sample(s) list intermediate shipper, name, title, signature, inclusion dates & time of possession.
---	---

Laboratory to which sample(s) was delivered <i>DHMH 261 W. Ruston</i>	Remarks: <i>see above</i>
--	------------------------------

By whom delivered (Name & Title)	Date & Time Delivered	Delivered to (Name & Title)	Receipt Acknowledged by (signature)
<i>James Curtis Inspector</i>	<i>1/13/83</i>	<i>LINDA AMES CHEMIST I</i>	<i>Linda Ames</i>
			AR300400

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

LABORATORIES ADMINISTRATION
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER BVL-04

Harford
Name of County

SOURCE OF SAMPLE Bush Valley Landfill COLLECTOR James Curtis

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 _____ sulfate _____

Reason for submitting sample: Trihalomethane Survey _____
 Suspected Industrial Chemical Contamination _____
 Suspected Petroleum (gasoline etc.) Contamination _____
 Other (specify) _____

NOV 10 1985

REMARKS: leachate

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				LABORATORY			
												10/16/85							
20	21	22	FIELD RESID. CHLORINE: FREE				23	24	TOTAL				25	26					
FIELD CH				6.24										6.24					

Purgeable Halocarbons (EPA 600)			Purgeable Aromatics (EPA 600)		
Chloromethane	<1	trans-1,3-Dichloroethene	<1	Benzene	18
Bromomethane	1	Trichloroethene		Toluene	3.10
Dichlorodifluoromethane		Dibromochloromethane		Ethylbenzene	1.4
Vinyl chloride	2	1,1,2-Trichloroethane		Total Xylenes	3.7
Chloroethane	2.6	cis-1,3-Dichloroethene		Total Purgeable Hydrocarbons	
Methylene chloride	5	2-Chloroethoxyvinylether		Tetrahydrofuran	2.10
Trichlorofluoromethane	<1	Bromoform		Methylethylketone	
1,1-Dichloroethene		1,1,2,2-Tetrachloroethane		(2-Butanone) (MEK)	5.50
1,1-Dichloroethane		Tetrachloroethene	↓	Methylisobutylketone (MIBK)	2.80
trans-1,2-Dichloroethene		Chlorobenzene	8		
Chloroform		Total Trihalomethanes			
1,2-Dichloroethane		Other Purgeable Organics:			
1,1,1-Trichloroethane		ICIDIX = 1.20			
Carbon Tetrachloride					
Bromodichloromethane					
1,2-Dichloropropane	↓				

AR300402

Results reported in micrograms per liter (parts per billion)

DATE RECEIVED OCT 17 1985 DATE REPORTED NOV 2 1985 CHEMIST Will

DHMH 749 3/85 2M

RECEIVED

M. KURT
1310
1311

Chain of Custody Form 885

Instructions:

Discute two (2) copies, both copies to accompany collected sample(s) until delivery to the Custodial Clerk at the Central Laboratory or other appropriate authorized agency. The Custodial Clerk or other authorized person accepting delivery will sign both copies, one copy to stay with the collected sample(s) and one copy to be returned to the sample(s) collector.

Location of Sampling: Bush Valley landfill
Description of waste sampled (color, odor, liquid, solid): dark liquid

Field Information (sampling method, containers, preservation, etc.): 2 vials
cyrac samples

No. of Pkgs.: 2
Identifying marks placed on collected samples: BVL-03
BVL-04
Name, title, telephone no., address of collector: James Curtis
X 5732

Date of Sampling & Time: 10/10/85
1420 hrs
If the collector did not deliver the collected sample(s) list intermediate shipper, name, title, signature, include dates & time of possession.

Laboratory to which sample(s) was delivered: DHHH
Remarks:

By whom delivered (Name & Title): J. Curtis
Date & Time Delivered: 10/17/85
1426 HRS
Delivered to (Name & Title): K. L. GILL, JR.
LS. IV
Receipt Acknowledge by (signature): K. L. Gill

RECEIVED

NOV 19 1985

AR300403

ENFORCEMENT FILE
FILE COPY ONLY



State of Maryland
Department of Health and Mental Hygiene
Office of Environmental Programs
 201 West Preston Street, Baltimore, Maryland 21201

Handbook
 OES
 JFV

Report of Observations

Type of Inspection/Observations: Landfill / Sampling Date 7-15-1986

Facility Name: Bush Valley

Remarks:

On the above date Jeff Smith & Ed Glass (ADHM) inspected the Bush Valley Landfill for the purpose of sampling and photo documentation. The following was noted:

- Leachate outbreaks were observed throughout the landfill, some of which were frozen, while others were flowing. Note: The weather at the time of inspection was cloudy / raining as was the day before. This contributed to the increased runoff / flow of leachate. The following samples were taken:

- 1120 HRS JSBV2586A (3 VOA's) leachate / soil from front of the fill (northwest)
- 1140 HRS JSBV2586B (3 VOA's) leachate from left of fill (North?)
- 12¹⁰ HRS JSBV2586C (3 VOA's) leachate (mostly ^{above} runoff) from rear of fill (southeast?)
- 12²⁰ HRS JSBV2586D (amber) water sample from storm pond at rear of fill
- 12³⁰ HRS JSBV2586E (amber) water sample from storm pond at left side of fill (near MW-3)

- There was evidence of hospital wastes (plastic pen bottles) observed as well as waste from Cello Corp (quart containers which were empty of brush cleaner & brevity blue)

- Also observed was a burned Toyota on the top of the fill.

- We spoke to Bill Harris on-site and he stated no dumping is taking place on the property, but he did express an interest in "going up another 20' with rubble."

- Photographs attached. AR300404

- Mr Harris' niece is currently building a new house next to the landfill.

Observer: Jeff Smith Person Interviewed: Wm Harris

STATE OF MARYLAND
DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration
201 W. Preston Street
J. Mahan Johnson, Ph.D., Director

TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER 15B02550 2

Harford
Name of County:

SOURCE OF SAMPLE Brick wall COLLECTOR Jeff Smith / OEP

SAMPLE TYPE: _____ DISTRIBUTION _____ SOURCE _____ OTHER _____
Community _____ noncommunity _____ private _____
Landfill observation well _____ stream _____ tidal waters _____

Industrial effluent _____ STP sampling station _____ STP effluent _____ **RECEIVED**

Chlorinated _____ preserved with thiosulfate _____
Reason for submitting sample: Trihalomethane Survey _____

AUG 8 1986

Suspected Industrial Chemical Contamination _____

Suspected Petroleum (gasoline, etc.) Contamination _____

Other (specify) _____

ENFORCEMENT FILE
FILE COPY ONLY

REMARKS: leachate sample from ~~_____~~

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
											0	2	5	8	6			
TRANS. TYPE			COUNTY				PLANT NO.				DATE COLLECTED				CARD NO.			
											1120 HES							
FIELD OR			FIELD RESID. CHLORINE: FREE				TOTAL											

Purgeable Halocarbons (EPA 624)		Purgeable Aromatics (EPA 624)	
Chloromethane	<10	trans-1,3-Dichloropropene	<10
Bromomethane	1	Trichloroethene	
Dichlorodifluoromethane		Dibromochloromethane	
Vinyl chloride	17	1,1,2-Trichloroethane	
Chloroethane	35	cis-1,3-Dichloropropene	
Methylene chloride	<10	2-Chloroethylvinylether	
Trichlorofluoromethane		Bromoform	
1,1-Dichloroethene		1,1,2,2-Tetrachloroethane	
1,1-Dichloroethane		Tetrachloroethene	
trans-1,2-Dichloroethene		Chlorobenzene	170
Chloroform		Total Trihalomethanes	
1,2-Dichloroethane		Other Purgeable Organics:	
1,1,1-Trichloroethane		acetone = 4.460	
Carbon Tetrachloride		isopropyl alcohol = 1,290	
Bromodichloromethane		ethyl ether = 170	

AR300405

STATE OF MARYLAND
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE
 Laboratory Administration
 207 W. Preston Street
 J. Mahan Joseph, Ph.D., Director
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

BOTTLE NUMBER 25BN7596 F

Harford
Name of County

SOURCE OF SAMPLE Brush Valley COLLECTOR J. Smith / OEF

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) _____

REMARKS: Leakage from ~~gasoline tank~~

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 11 10 1985	18 19 CARB. NO.
20 21 22 FIELD pH	23 24 FIELD RESID. CHLORINE: FREE			25 26 TOTAL	

Purgeable Halocarbons (EPA 624)		Purgeable Aromatics (EPA 624)	
Chloromethane	<u><10</u>	trans-1,3-Dichloropropene	<u><10</u>
Bromomethane	<u>1</u>	Trichloroethene	<u>↓</u>
Dichlorodifluoromethane	<u>↓</u>	Dibromochloromethane	<u>↓</u>
Vinyl chloride	<u>↓</u>	1,1,2-Trichloroethane	<u><20</u>
Chloroethane	<u>↓</u>	cis-1,3-Dichloropropene	<u>↓</u>
Methylene chloride	<u>36</u>	2-Chloroethyvinylether	<u>↓</u>
Trichlorofluoromethane	<u><10</u>	Bromoform	<u>↓</u>
1,1-Dichloroethene	<u>↓</u>	1,1,2,2-Tetrachloroethane	<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>	<u>acetone = 1,060</u>	
Carbon Tetrachloride	<u>↓</u>	<u>observed: C5-C7 hydrocarbons</u>	
Bromodichloromethane	<u>↓</u>	<u>NT = 15 = 12/1/85</u>	

AR300406

STATE OF MARYLAND
 DEPARTMENT OF HEALTH AND MENTAL HYGIENE
 Laboratories Administration
 201 W. Preston Street
 J. Mahan Jenson, Ph.D., Director
TRACE ORGANICS LABORATORY
VOLATILE ORGANICS ANALYSIS

(625)
 0306H-2608C

BOTTLE NUMBER 15BV2586C

Hanford
 Name of County

SOURCE OF SAMPLE Buck Waller COLLECTOR Jeff Smith/ALP

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) _____

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AUG 8 1985

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 FILE ONLY

REMARKS: leachate sample from ~~_____~~

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
											0	2	0	5	9	6				
TRANS TYPE			COUNTY				PLANT NO.				SAMPLING STATION				DATE COLLECTED				CARD NO.	
															1210 HCS					
FIELD pH			FIELD RESID. CHLORINE: FREE				TOTAL													

Purgeable Halocarbons (EPA 601)

Chloromethane	<1
Bromomethane	
Dichlorodifluoromethane	
Vinyl chloride	
Chloroethane	↓
Methylene chloride	2
Trichlorofluoromethane	<1
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	
Bromoform	
1,1,2,2-Tetrachloroethane	
Tetrachloroethene	
Chlorobenzene	↓
Total Trihalomethanes	
Other Purgeable Organics:	
acetone	= 770
isopropyl alcohol	= 635
observed	: C5-C7 hydrocarbons

Purgeable Aromatics:

Benzene	<1
Toluene	11
Ethylbenzene	<1
Total Xylenes	1
Total Purgeable Hydrocarbons	
Tetrahydrofuran	
(2-Butanone) (MEK)	390
Methylisobutylketone (MIBK)	20
Acrolein	
Acrylonitrile	
AR300407	

1053

Priority _____

TRACE ORGANICS
~~HAZARDOUS WASTE LABORATORY~~
Organic Analysis Report Form

Lab No. 002600

Collector J. Smith / 12th / 2-5-86
Name/Time/Date

Sample Source Bush Valley

Sample ID No. SSBVZ596 R

Preservative Used _____

Sample Alert See report in year 1986

Specify Program:

RCRA: _____ NPDES: OTHER: Leadfall

Chain of Custody Sample Possession:

From: J. Smith / 1455 / 2-5-86
Name/Time/Date

To: William Z. / 1455 / 2-5-86
Name/Time/Date

From: _____
Name/Time/Date

To: _____
Name/Time/Date

From: _____
Name/Time/Date

To: _____
Name/Time/Date

Circle and Specify Parameters Requested:

- | | |
|-----------------------------------|----------------------------|
| 1. <u>EF Toxicity</u> | 2. <u>PCB/Pesticides</u> |
| 3. <u>Priority Pollutant Scan</u> | 4. <u>Identify/Compare</u> |

GC/MS Analysis indicates the presence of the following compounds:

GC Analysis indicates the presence of the following PCB/Pesticides:

AR300408

Analyst Chief: V. Levin

Verified By: V. Levin

Authorized By: _____

DEPARTMENT OF HEALTH AND MENTAL HYGIENE
 LABORATORIES ADMINISTRATION
 ENVIRONMENTAL CHEMISTRY DIVISION
 TRACE ORGANICS LABORATORY

EXTRACTABLE ORGANICS ANALYSIS (EPA 625)

CONTAINER NO. JSBU2586R COLLECTOR J. SMITH COUNTY HARFORD

SAMPLE SOURCE BUSH VALLEY LE STORMWATER POND IN REAR OF FILL

SAMPLE TYPE (SPECIFY) LANDFILL LEACHATE

REMARKS: _____

0720E 2609C

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				CARD NO.			
20 21 22							23 24				25 26							

FIELD pH: _____ FIELD RESID. CHLORINE: I REE: _____ TOTAL _____ TIME _____

METHOD: FUSED SILICA CAPILLARY GC/MS (EPA 625)

<u>ACIDS</u>		<u>AMINES</u>	
Phenol	<1.	N-Nitrosodimethylamine	<1.
2-Chlorophenol	_____	N-Nitrosodipropylamine	_____
2-Nitrophenol	_____	N-Nitrosodiphenylamine	_____
2,4-Dimethylphenol	_____	1,2-Diphenylhydrazine	_____
2,4-Dichlorophenol	_____	Benzidine	<50.
4-Chloro-3-methylphenol	_____	3,3'-Dichlorobenzidine	<20
2,4,6-Trichlorophenol	<2.		
2,4-Dinitrophenol	<10.	<u>POLYNUCLEAR AROMATICS</u>	
4-Nitrophenol	<10.	Naphthalene	<1.
2-Methyl-4,6-dinitrophenol	<5.	Acenaphthylene	_____
Pentachlorophenol	<5.	Acenaphthene	_____
		Fluorene	_____
<u>BASE-NEUTRALS</u>		Phenanthrene	_____
<u>CHLORINATED HYDROCARBONS</u>		Anthracene	_____
1,3-Dichlorobenzene	<1.	Fluoranthene	_____
1,4-Dichlorobenzene	_____	Pyrene	_____
1,2-Dichlorobenzene	_____	Benzo(a)anthracene	_____
hexachloroethane	_____	Chrysene	_____
1,2,4-Trichlorobenzene	_____	Benzo(b)fluoranthene	<2.
hexachlorobutadiene	<5.	benzo(k)fluoranthene	_____
hexachlorocyclopentadiene	<5.	benzo(a)pyrene	_____
2-Chloronaphthalene	<1.	Indeno(1,2,3-cd)pyrene	_____
hexachlorobenzene	<1.	Dibenzo(a,h)anthracene	_____
		Benzo(g,h,i)perylene	_____
<u>HALOETHERS</u>		<u>PHTHALATE ESTERS</u>	
bis(2-chloroethyl) ether	<1.	Dimethyl phthalate	<1.
Bis(2-chloroisopropyl) ether	_____	Diethyl phthalate	<2.
bis(2-chloroethoxy)methane	_____	Di-n-butyl phthalate	<2.
4-Chlorophenylphenylether	_____	Butylbenzyl phthalate	AR3004109
4-bromophenylphenylether	_____	Bis(2-ethylhexyl) phthalate	<4.
		di-n-octyl phthalate	<11
<u>NITROAROMATICS AND ISOPHTHONONE</u>			
Nitrobenzene	<1.		
Isophthone	<2.		
2,6-Dinitrotoluene	<1.		
2,4-Dinitrotoluene	<1.		

Results reported in micrograms/Liter gram (pp)

DEPARTMENT OF HEALTH AND MENTAL HYGIENE
 LABORATORIES ADMINISTRATION
 ENVIRONMENTAL CHEMISTRY DIVISION
 TRACE ORGANICS LABORATORY
 EXTRACTABLE ORGANICS ANALYSIS (EPA 625)

CONTAINER NO. JS BV2586ES COLLECTOR J. SMITH COUNTY _____
 SAMPLE SOURCE BUSH VALLEY - STORMWATER POND ON SIDE OF HILL
 SAMPLE TYPE (SPECIFY) LANDFILL LEACHATE
 REMARKS: 0220F2610C

AUG 8 1982

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				CARD NO.			
20	21	22	FIELD RESID. CHLORINE: FREE				23	24	TOTAL		25	26	TIME					

METHOD: FUSED SILICA CAPILLARY GC/MS (EPA 625)

ACIDS

Phenol ND.
 2-Chlorophenol 25.
 2-Nitrophenol ↓
 2,4-Dimethylphenol ↓
 2,4-Dichlorophenol ↓
 4-Chloro-3-methylphenol ↓
 2,4,6-Trichlorophenol <10.
 2,4-Dinitrophenol <25.
 4-Nitrophenol <25.
 2-Methyl-4,6-dinitrophenol <10.
 Pentachlorophenol <10.

AMINES

N-Nitrosodimethylamine <5.
 N-Nitrosodipropylamine ↓
 N-Nitrosodiphenylamine ↓
 1,2-Diphenylhydrazine ↓
 Benzidine <10.
 3,3'-Dichlorobenzidine <5.

POLYNUCLEAR AROMATICS

Naphthalene <5.
 Acenaphthylene ↓
 Acenaphthene ↓
 Fluorene ↓
 Phenanthrene ↓
 Anthracene ↓
 Fluoranthene ↓
 Pyrene ↓
 benzo(a)anthracene ↓
 Chrysene ↓
 Benzo(b)fluoranthene <10.
 benzo(k)fluoranthene ↓
 Benzo(a)pyrene ↓
 Indeno(1,2,3-cd)pyrene ↓
 Dibenzo(a,h)anthracene ↓
 Benzo(g,h,i)perylene ↓

BASE-NEUTRALS

CHLORINATED HYDROCARBONS

1,3-Dichlorobenzene <5.
 1,4-Dichlorobenzene ↓
 1,2-Dichlorobenzene ↓
 hexachloroethane ↓
 1,2,4-Trichlorobenzene ↓
 hexachlorobutadiene <25.
 hexachlorocyclopentadiene <25.
 2-Chloronaphthalene <5.
 hexachlorobenzene <5.

HALOETHERS

bis(2-chloroethyl) ether <5.
 bis(2-chloroisopropyl) ether ↓
 bis(2-chloroethoxy) methane ↓
 --Chlorophenylphenylether ↓
 4-bromophenylphenylether ↓

NITROAROMATICS AND ISOPHORONE

Nitrobenzene <5.

PHTHALATE ESTERS

Dimethyl phthalate ↓
 Diethyl phthalate ↓
 Di-N-butyl phthalate ↓
 Butylbenzyl phthalate ↓
 Bis(2-ethylhexyl) phthalate ↓
 Di-N-octyl phthalate ↓

AR300411

MEMORANDUM

Copies { Frank Henderson

TO John Koontz **From** Alex Cox^{Ac} **Date** 3/18/86
Subject Harford County Landfills Organic Contamination

As per our conversation of 3/17/86, please find attached a list of organic contaminants found in groundwater samples from landfills located in Harford County, Maryland.

If I can be of assistance, please call,

AC:amj

Attachment

AR300412

The data from the Landfill Monitoring Section indicates that the following facilities within Harford County exhibit signs of organic contamination of the groundwater. The values given are ranges of organic contamination in parts per billion (ppb).

Michalesville:

OW#2 -

Methylene Chloride - 10 ppb

1,1-dichloroethane - 2-26 ppb

Tetrahydrofuran (THF) - 16 ppb

OW#3 -

Tetrahydrofuran (THF) - 13-43 ppb (decreasing)

Ethyl Ether - 33-42 ppb

OW#4 -

Chloroethane - 3-15 ppb

Benzene - 7-13 ppb

Tetrahydrofuran - 15-75 ppb (decreasing)

Ethyl Ether - 116-340 ppb (decreasing)

Bush

OW#4 -

Vinyl Chloride - 7-23 ppb

Methylene Chloride - 96-260 ppb

Trichlorofluoromethane - 5-13 ppb

1,1-dichloroethane - 8-109 ppb

1,1,1-trichloroethane - 2-8 ppb

1,2-dichloroethane - 3-80 ppb

Trichloroethene - 2-18 ppb

Tetrachloroethene - 15-40 ppb

Benzene - 7-41 ppb

T. Xylenes - 2-15 ppb

Ethyl Ether - 11-32 ppb

AR300413

Page 2

Harford County Landfills

Abington:

OW#1 -

Methylene Chloride - 2-7 ppb

Trans-1,2-dichloroethene - 1-8 ppb

OW#2 -

Trans-1,2-dichloroethene - 5-7 ppb (decreasing)

Tetrahydrofuran (THF) - 20-23 ppb (decreasing)

OW#3 -

Trans-1,2-dichloroethene - 8-17 ppb

1,2-dichloroethane - 7-26 ppb

Trichloroethene - 2-4 ppb

Benzene - 2-5 ppb

MEK - 5-19 ppb (successive to the MIBK)

MIBK - 22 ppb (one event)

Madonna:

OW#1A -

Trichlorofluoromethane - 5 ppb

1,1,1-trichloroethane - 6 ppb

AR300414

Scarboro:

OW#1 -

Dichlorofluoromethane - 3-5 ppb (decreasing)

Trichlorofluoromethane - 31-90 ppb (decreasing)

Tetrahydrofuran (THF) - 2-14 ppb (decreasing)

OW#2 -

Chloroform - 2 ppb

Toluene - 1 ppb

OW#3 -

Dichlorodifluoromethane - 12 ppb

Trichlorofluoromethane - 20-30 ppb

Tetrachloroethene - 21-22 ppb

Tetrahydrofuran (THF) - 4-79 ppb

OW#4 -

Dichlorodifluoromethane - 36-66 ppb (decreasing)

Methylenechloride - 40-63 ppb

Trichlorofluoromethane - 23-53 ppb

1,1-dichloroethane - 5-11 ppb

1,1,1-trichloroethane - 9-16 ppb

Tetrahydrofuran (THF) - 58 ppb

Methylethylketone - 14 ppb

Tetrachloroethene - 2-4 ppb

OW#5 - one sample showed traces of organic contaminants in 7/85 - more recent samples indicate no contamination)

Methylene Chloride - 43 ppb

Toluene - 7 ppb

Ethylbenzene - 4 ppb

T. Xylenes - 18 ppb

Tetrahydrofuran (THF) - 72 ppb

MEK - 173 ppb

MIBK - 82 ppb

Acetone - 88 ppb

AR300415

Harford County Landfills

Tollgate:

Parks Bld Well -

1,1-dichloroethane - 5-11 ppb (decreasing)

Trans-1,2-dichloroethene - 10-27 ppb (decreasing)

Trichloroethene - 7-16 ppb

Tetrachloroethene - 4-10 ppb

PW#1 -

Trichloroethene - 2-7 ppb

Tetrachloroethene - 7-41 ppb

Well #A -

Methylene Chloride - 8-80 ppb

Trichlorofluoromethane - 2-22 ppb

1,1-dichloroethane - 1-30 ppb

Trans-1,2-dichloroethene - 1-120 ppb

1,1,1-trichloroethane - 13-36 ppb

Trichloroethene - 1-20 ppb

Tetrachloroethene - 90-480 ppb

Benzene - 1-14 ppb

Well #D -

Dichlorodifluoromethane - 26-100 ppb

Vinyl Chloride - 9-35 ppb

Methylene Chloride - 2-6 ppb

1,1-dichloroethane - 4-46 ppb

1,1-dichloroethane - 1-54 ppb

Trichloroethene - 2-6 ppb

Tetrahydrofuran (THF) - 20-32 ppb

AR300416

Tollgate (continued)

Well #H -

1,1-dichloroethene - 4-20 ppb
1,1-dichloroethane - 2-10 ppb
trans-1,2-dichloroethene - 10-110 ppb
Trichloroethene - 81-700 ppb
1,1,1-trichloroethane - 12-45 ppb
Tetrachloroethene - 9-52 ppb

Well #L -

Tetrahydrofuran (THF) - 4-34 ppb

Well #M -

Dichlorofluoromethane - 89-220 ppb
Trichlorofluoromethane - < 1-53 ppb
1,1-dichloroethene - 10-55 ppb
1,1-dichloroethane - 17-54 ppb
Trans-1,2-dichloroethene - 6-17 ppb
1,1,1-trichloroethane - 100-360 ppb
Trichloroethene - 540-1300 ppb
Tetrachloroethene - 11-87 ppb

Well #N -

Tetrahydrofuran (THF) - 2-100 ppb (decreasing rapidly)

AR300417