ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK PHASE I INVESTIGATIONS

GAF DUMP BINGHAMTON, BROOME COUNTY, NEW YORK Site Code:704011



Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 50 WOLF ROAD, ALBANY, NEW YORK 12233 HENRY G. WILLIAMS, COMMISSIONER

> Division of Solid and Hazardous Waste NORMAN H. NOSENCHUCK, P.E. DIRECTOR



WEHRAN ENGINEERING, P.C. Middletown & Grand Island, New York ENGINEERING INVESTIGATION AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK PHASE I INVESTIGATIONS

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Prepared by

WEHRAN ENGINEERING, P. C. 666 EAST MAIN STREET MIDDLETOWN, NEW YORK 10940

WE Project No. 01424339 B-30

April 1986

GAF DUMP

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A Statement

1.0 EXECUTIVE SUMMARY

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1.0 EXECUTIVE SUMMARY

The GAF Dump site is an inactive disposal area located in the City of Binghamton, Broome County. The two-acre site, situated behind the Anitec Corporation facility on Charles Street, was allegedly used (during the time GAF owned and operated the plant facility) for the disposal of industrial photochemical byproducts including silver, cadmium, volatile organics, phenols and intermediate dyestuffs. It is estimated that disposal activities at the site ceased by 1975. Although no information is available regarding when use of the site began, it is known that the plant facility has been in existence since World War II. Alleged disposal practices consisted of spilling 55-gallon drums of waste liquids out onto the ground surface. At the time Anitec purchased the plant facility, GAF retained ownership of the alleged dump site, anticipating further investigation into past use of the site.

The site is located in a mixed commercial and residential neighborhood in the north central region of the City of Binghamton. Immediately to the east of the site is Spring Forest Cemetery, and to the south is the Anitec Corporation plant facility. To the immediate west and downhill is Veterans Memorial Park. Approximately 200 feet downslope from the property boundary, Trout Brook, now flowing through a 66-inch storm sewer, flows in an easterly direction to the Chenango River. A residential neighborhood located to the north on Prospect Street is uphill and upgradient of the site.

On September 24, 1985 a site investigation of the GAF Dump site was undertaken by Wehran Engineering, accompanied by Mr.C.F. Bien of GAF Corporation, Wayne, New Jersey. The eastern portion of the site is covered by an abandoned asphalt parking lot. The remaining, western, portion is ungraded and covered with thick weeds. This portion of the site is filled with approximately 10 feet of demolition debris and cinders, most likely placed on site eight to twelve years ago. No signs of other waste disposal were apparent and no leachate was observed.

Although past sampling programs have detected elevated levels of various volatile organics and heavy metals in the ground and surface waters, the data is difficult to assess due to the lack of background data and lack of data concerning the quality of the wells and the sampling protocols. Given the nature of the industrial activity (photochemical products), the length of time the site may have been in use (World War II until the mid-1970's) and the manner in which the waste was allegedly disposed (liquid), it is likely that monitoring of the site could reveal the presence of silver, cadmium, t-1,2 dichloroethylene, trichloroethylene and phenols in the groundwater and possibly Trout Brook. There is a potential for the Johnson City well field to be affected by any site contamination that may be present at the GAF Dump. The Hazard Ranking System (HRS) score for this site, based on a review of available data and site inspection, is $S_M = 27.11$.



SCALE: 1"= 2000"	\sim	FIGURE 1
TOPOGRAPHY TAKEN FROM 1968	NEW YORK	SITE LOCATION MAP
U.S.G.S. QUADRANGLE	V	GAF DUMP SITE
7.5 MIN SERIES	MAP LOCATION	LAT.42°06'29'N LONG.75°55'45'W



2.0 PURPOSE

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2.0 PURPOSE

This Phase I investigation was conducted under contract to the New York State Department of Environmental Conservation Superfund Program to evaluate the potential environmental or public health hazard associated with past disposal activities at the GAF Dump. Divided into two parts, this initial investigation consisted of a detailed file review of available information and an initial site investigation. The culmination of this phase is the development of a preliminary Hazard Ranking System (HRS) score.

Where information is lacking and a final score cannot be computed, recommendations will be made for a Phase II investigation designed to verify the assumptions made in the preliminary scoring, and to collect the additional data needed to complete the site assessment. 3.0 SCOPE OF WORK

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To complete the preliminary HRS score for the GAF Dump, the following scope of work was completed:

- A review of the following:
 - Available information from federal, state, and municipal agencies
 - Published documents from the U.S. Geological Survey, Soil Conservation Service and state agencies for geological, hydrological and topographical data
 - Available files, reports and court cases
 - Interviews with individuals having knowledge of the site

Information gathered included well logs, land use data, water usage patterns, critical habitats and endangered species data, meteorological data, hydrological, geological and topographical data, waste characteristics and demographic information.

Following an initial file review a site inspection was conducted. The intent of the inspection was to verify existing file information and to conduct an organic vapor detector survey to screen for potential air releases. Items of specific interest in the site investigation were:

- Overall site environmental conditions
- . The presence of disturbed areas
- . Visual signs of waste materials (drums, sludges, etc.)
- . The occurrence of leachate
- . Site topography

A detailed analysis was performed on all data collected in preparation of a preliminary HRS score. Where information was lacking and a final HRS score could not be computed, recommendations were made for a Phase II investigation. This investigation was designed to verify the assumptions made in the preliminary scoring and to collect the additional data needed to complete the site assessment. A summary of agencies contacted, contact person, address and information obtained follows.

SOURCES -- GAF DUMP (Page 1)

Name/Address/Phone	Type of <u>Contact</u>	Date	Information Provided
Mr. Robert Abrams, Attorney General New York State Attorney General Department of Law State Capitol, Room 221 Albany, New York 12224 (581) 474-7330	Letter	8-24-84	None available
Mr. Robert Augenstern, Director Southern Tier East Regional Planning Board O'Neill Building, 4th Floor State at Court Street Binghamton, New York 13901	Letter	7-24-84	Referral to other agencies
Dr. David Axelrod, Commissioner New York State Department of Health Tower Building, Empire State Plaza Albany, New York 12237 (518) 474-8427	Letter	8-24-84	None available
Broome County Health Department 1 Wall Street Binghamton, New York 13901	Letter	7-24-84	Sampling data and maps
Mr. James K. Connors, Regional Director NYSDOT, Region 9 33 Mitchell Avenue Binghamton, New York 13903	Letter	7-24-84	None available
Ms. Juanita Crabb, Mayor City Hall 38 Howley Street Binghamton, New York 13901	Letter	7-24-84	None available
Mr. John Czapor, Environmental Engineer USEPA, Region II 26 Federal Plaza New York, New York 10278 (212) 264-1573	Letter	8-24-84	None available
Mr. Paul Dodd, State Conservationist U.S. Department of Agriculture Soil Conservation Service James M. Hanley Federal Building 100 South Clinton Street Syracuse, New York 13260 (315) 423-5521	Letter	8-24-84	Name and address of local representative

SOURCES -- GAF DUMP (Page 2)

Name/Address/Phone	Type of <u>Contact</u>	Date	Information Provided
Dr. Robert H. Fakundiny, State Geologist Geological Survey of New York State State Education Department Division of Museum Services Albany, New York 12230 (518) 474-5816	Letter	8-24-84	None available
Mr. John Kowalchyk Broome County Environmental Management Council Broome County Office Building P.O. Box 1766 Binghamton, NY 13902	Letter	7-24-84	Preliminary Register of Hazardous Waste Sites, 1981
Mr. James L. Larocca, Commissioner NYSDOT 1220 Washington Avenue Albany, New York 12232 (518) 457-4422	Letter	8-24-84	None available
Mr. Lawrence A. Martens, District Chief U.S. Department of the Interior U.S. Geological Survey Albany District Office P.O. Box 1350 U.S. Post Office and Court House Albany, New York 12201 (513) 472-3107	Letter	8-24-84	None available
Mr. Carl B. Sciple, Division Engineer Army Corps of Engineers New England Division 424 Trapelo Road Waltham, Massachusetts 02154 (617) 894-2400	Letter	8-24-84	None available
Mr. Frederick J. Scullin, Jr. U.S. Department of Justice U.S. Attorney Northern District of New York 369 Federal Building 100 South Clinton Street Syracuse, New York 13260 (315) 423-5165	Letter	8-24-84	None available
Mr. Richard D. Spear, Chief Surveillance & Monitoring Branch USEPA, Region II Woodbridge Avenue Edison, New Jersey 08817 (201) 321-6685	Letter	8-24-84	None available

4.0 SITE ASSESSMENT

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4.1 SITE HISTORY

The GAF Dump site is an inactive disposal area located in the City of Binghamton, Broome County. The two-acre site, situated behind the Anitec Corporation facility on Charles Street, was allegedly used (during the time GAF owned and operated the plant facility) for the disposal of industrial photochemical byproducts including silver, cadmium, volatile organics, phenols and intermediate dyestuffs. It is estimated that disposal activities at the site ceased by 1975 and, although no information is available regarding when use of the site began, it is known that the plant facility has been in existence since the Second World War. Alleged disposal practices consisted of spilling 55-gallon drums of waste liquids out onto the ground surface. At the time Anitec purchased the plant facility, GAF retained ownership of the alleged dump site, anticipating further investigation into past use of the site.

4.2 SITE TOPOGRAPHY

The site is located in a mixed commercial and residential neighborhood in the north central region of the City of Binghamton. Immediately to the east of the site is Spring Forest Cemetery, and to the south is the Anitec Corporation plant facility. To the immediate west and downhill is Veterans Memorial Park. A residential neighborhood located to the north on Prospect Street is uphill and upgradient of the site. An abandoned parking lot makes up the eastern one-half of the site, while the remainder is ungraded and weed covered. Although the entire perimeter is fenced, the fencing is not secure and it appears the site is used for recreational activities utilizing dirt bikes and three-wheeled vehicles.

The surface of the dump site slopes four percent toward the southern property boundary with Anitec. At the boundary the slope levels off to a maximum of two percent throughout the industrial facility. Approximately 200 feet downslope from the property boundary, Trout Brook, now flowing through a 66-inch storm sewer, flows in an easterly direction to the Chenango River. The entire area within a three-mile radius of the site is served with community water supplies. The City of Binghamton wells are located east of the site and on the eastern side of the Chenango River. The Binghamton surface water intake is located upstream on the Susquehanna River above the confluence with the Chenango River. The Johnson City well field is located 1.5 miles west of the GAF dump in an area that appears to be upgradient based on regional hydrogeology. There are wells within 500 feet of the site utilized by Anitec Corporation for industrial purposes (cooling water).

4.3 <u>SITE HYDROGEOLOGY</u>

The Binghamton area is underlain by sedimentary rocks of Upper Devonian Age. The blue shale and siltstone rocks are fractured and slightly folded with axes that trend east. Soils are deep, well drained gravelly or silty sand on outwash terraces. Slopes in the area of the site generally range from five to 15 percent. Well data from the vicinity of the site show that regional groundwater is moderately close to the surface, within 50 feet, and flows in an easterly direction toward the Chenango River. There may be some southerly and westerly movement of groundwater in the immediate vicinity of the site. The aquifer of concern in the area of the GAF Dump consists of medium gravel and fine sand with occasional quicksand layers.

4.4 SITE CONTAMINATION

On September 24, 1985 a site investigation of the GAF Dump site was undertaken by Wehran Engineering, accompanied by Mr. C. F. Bien of GAF Corporation, Wayne, New Jersey. During the investigation ambient air monitoring was conducted utilizing an HNU PID 101 organic vapor detector. No readings above background levels were detected. The eastern portion of the site is covered by an abandoned asphalt parking lot. The remaining, western, portion is ungraded and covered with thick weeds. There are a few trees along the western boundary of the site. Based on visual inspection, the USGS Binghamton West Quadrangle map and the height of vegetation, the western portion of the site is filled with approximately 10 feet of demolition debris and cinders, most likely placed on site eight to twelve years ago. No signs of other waste disposal were apparent and no leachate was observed.

4-2

Although past sampling programs have detected elevated levels of various volatile organics and heavy metals in the ground and surface waters, the data is difficult to assess due to the lack of background data and lack of data concerning the quality of the wells and the sampling protocols. Given the nature of the industrial activity (photochemical products), the length of time the site may have been in use (World War II until the mid-1970's) and the state in which the waste was allegedly disposed (liquid), it is likely that monitoring of the site could reveal the presence of silver, cadmium, t-1,2 dichloroethylene, trichloroethylene and phenols in the groundwater and possibly the surface water. There is a potential for the Johnson City well field to be affected by any site contamination that may be present at the GAF Dump. Further study and analysis is necessary to determine what amounts, and to determine the dynamics of the site-specific and regional groundwater flow.

5.0 PRELIMINARY APPLICATION OF THE HAZARD RANKING SYSTEM

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5.1 NARRATIVE SUMMARY

The GAF Dump site is an inactive disposal area located in the City of Binghamton, Broome County. The two-acre site, situated behind the Anitec Corporation facility on Charles Street, was allegedly used during the time GAF owned and operated the plant facility for the disposal of industrial photochemical byproducts including silver, cadmium, volatile organics, phenols and intermediate dyestuffs. It is estimated that disposal activities at the site ceased by 1975 and, although no information is available regarding when use of the site began, it is known that the plant facility has been in existence since the Second World War. Alleged disposal practices consisted of spilling 55-gallon drums of waste liquids out onto the ground surface. At the time Anitec purchased the plant facility, GAF retained ownership of the alleged dump site, anticipating further investigation into past use of the site.

The site is located in a mixed commercial and residential neighborhood in the north central region of the City of Binghamton. An abandoned parking lot makes up the eastern one-half of the site, while the remainder is ungraded and weed covered. Approximately 200 feet downslope from the property boundary, Trout Brook, now flowing through a 66-inch storm sewer, flows in an easterly direction to the Chenango River.

The entire area within a three-mile radius of the site is served with community water supplies. The City of Binghamton wells are located east of the site and on the eastern side of the Chenango River. The Binghamton surface water intake is located upstream on the Susquehanna River above the confluence with the Chenango River. The Johnson City well field is located 1.5 miles west of the GAF dump in an area that appears to be upgradient based on regional hydrogeology. There are wells within 500 feet of the site utilized by Anitec Corporation for industrial purposes.

Well data from the vicinity of the site show that regional groundwater is moderately close to the surface, within 50 feet, and flows in an easterly direction toward the Chenango River. There may be some localized southerly and westerly movement of groundwater in the immediate vicinity of the site. The aquifer of concern in the area of the GAF Dump consists of medium gravel and fine sand with occasional quicksand layers.

On September 24, 1985 a site investigation of the GAF Dump site was undertaken by Wehran Engineering, accompanied by Mr.C.F.Bien of GAF Corporation, Wayne, New Jersey. No signs of waste disposal other than 10 feet of demolition debris and cinders were apparent and no leachate was observed. An HNU Systems PID showed no appreciable organic vapors.

Past sampling programs efforts at the site have provided inadequate data. Given the nature of the industrial activity, the length of time the site may have been in use, and the state in which the waste was allegedly disposed, it is likely that monitoring of the site could reveal the presence of silver, cadmium, t-1,2 dichloroethylene, trichloroethylene and phenols in the groundwater and possibly the surface water. There is a potential for the Johnson City well field to be affected by any site contamination that may be present at the GAF Dump. Further study and analysis is necessary to determine how much if any environmental threat is posed by this site. LOCATION

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7.5 MIN SERIES

MAP LOCATION

LAT.42°06'29'N LONG.75°55'45'W

HRS WORKSHEETS

Facility Name: GAF Dump

Location: Charles Street, City of Binghamton, Broome County

EPA Region: II

Person(s) in Charge of the Facility:

GAF Corporation Wayne, NJ

Name of Reviewer: Frances C. Geissler

Date: September 17, 1985

General Description of the Facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

Inactive facility was allegedly used as a disposal area for industrial photochemical waste. 55-gallon drums of waste material were spilled out on the ground surface. No containment practices are in evidence and site is fenced, partially paved and currently not in use.

Scores: $S_{M} = 33.96$ (S_{gw} = 46.53 S_{sw} = 5.85 S_a = 0) S_{FE} = 0 S_{DC} = 33.33

	Rating Factor	Assigne (Circle	d Value 9 One)	Multi plier	Score	Max. Score	Ref. (Sectio
1	Observed Release	0	45	1	0	45	3.1
	If observed release is If observed release is	given a score of 45, p given a score of 0, p	proceed to line	4. 2.			
2	Route Characteristics Depth to Aquifer of Concern	0 1 (2)	3	2	4	6	3.2
	Net Precipitation Permeability of the Unsaturated Zone	0 1 2	3	1	2 3	3	
	Physical State	0 1 2 (3	1	3	3	
_		Total Route Char	acteristics Sco	re	12	15	
31	Containment	0 1 2 (3	1	3	3	3.3
1	Waste Characteristics Toxicity/Persistence Hazardous Waste Quantity	0 3 6 0 1 2	9 12 15 (8) 3 4 5 6 7	1 8 1	18 1	18 8	3.4
		Total Waste Char	acteristics Scor	•	19	26	
]	Targets Ground Water Use Distance to Nearest Well/Population Served	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	3) . 3 10 5 40	3	9 30	9 40	3.5
1		Total Targe	ts Score		39	49	
1	f line 1 is 45, multiply	17 1 × 4 × 5 2 × 3 × 4	x [5]		26,676	57 330	

_	Rating Factor	Assigned (Circle)	Value One)	Mul	ti- Sco	re Max. Score	Ref. (Section
1	Observed Release	0	45	1	0	45	4.1
	If observed release is given If observed release is given	n a value of 45, pro n a value of 0, proc	caed to line [<u>고</u> .].	1		1
2	Route Characteristics						
	Facility Slope and Interveni Terrain	ng 0123		1	0	3	4.4
	1-yr. 24-hr. Rainfall Distance to Newton Surface	0 1 2 3		1	2	3	
	Water	0 1 2 (3)	2	6	6	
	Physical State	0 1 2 3)	1	3	3	
		Total Route Charac	steristics Score		111	15	
3	Containment	0 1 2 3)	1	3	3	13
	Quantity		/	0 1	1	8	
_	1	otal Waste Charac	teristics Score		19	26	
	argets						4.5
	Distance to a Sensitive			3	6	9	
-	Environment	0123		2	0	6	
,	to Water Intake Downstream	$ \begin{pmatrix} 0 & 4 & 6 & 8 \\ 12 & 16 & 18 & 20 \\ 24 & 30 & 32 & 35 \\ \end{pmatrix} $	0	1	0	40	
		Total Targets	Score		6	55	
	1						

		۵	IR RO	DUTI	ΕW	/ORI	< SI	HEE	T			
	Rating Factor		As	signe Circi	e Or	alue Ie)			Multi- plier	Score	Max. Score	Ref. (Section)
	Observed Release)	0			45			1	0	45	5.1
	Date and Location	:										
	Sampling Protocol	•										
	If line 1 is 0, it If line 1 is 45.	he S = 0. Er then procee	nter on Id to line	line e 2	5.							
2	Waste Characteris Reactivity and	tics	0	1 2	3				1		3	5.2
	Toxicity Hazardous Waste Quantity		0	1 2 1 2	3 3	4 5	6	78	3 1		9 8	
		То	ital Was	te Chi	arac	teristic	s Sc	ore			20	
3	Targets Population Within 4-Mile Radius Distance to Sensit	ive	} 0 21 : 0	9 12 24 27 1 2	15 30 3	18			1 2		30 5	5.3
	Environment Land Use		0	12	3				1		3	
			Tot	ai Tar	gets	Scor	e				39	
4	Multiply 1 × [2 × 3									35,100	
3	Divide line 4 b	y 35,100 and	i multipi	у Бу	100	s a	-	0				

	S	s²
Groundwater Route Score (S _{gw})	46.53	2,165.04
Surface Water Route Score (S _{SW})	5.85	34.22
Air Route Score (Sa)	0	0
$s_{gw}^2 + s_{sw}^2 + s_a^2$		2,199.26
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		46.90
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73$		s _M = _{27.11}

WORKSHEET FOR COMPUTING SM

1	Rating Factor	1		As	sigr	ned	i Va	lue				Multi	-	Max	1
	7			()	Circ	le	One)				plier	Score	Score	(Se
	Containment			1				3				1		3	
2	Waste Characteristic	:5													
	Direct Evidence			0			3					4		-	
	Ignitability			0 1		2 :	3					1		3	
	Reactivity		1	0 1	2	2 :	3					1		3	
			(0 1	2	: :	3					1		3	
	Quantity		(5 1	2		3 4	5	6	7	8	1	•	8	
		Tot	ai Wa	iste	Ch	ara	cter	ristic	:3 5	icore	•			20	
3	Targets														
	Distance to Nearest		0	1	2	3	4	5				1			7
	Distance to Nesses											•		3	
	Building		0	1	2	3						1		3	
	Distance to Sensitive Environment		0	1	2	3						T		3	
	Land Use		٥	1	2	7									
	Population Within		ō	1	2	3	4	5				1		3	
	2-Mile Radius				-	·	•	•				•		5	
	2-Mile Padius		0	1	2	3	4	5				1		5	
														J	
							_								
			101		argi	ets	Sci	ore						24	
-	Multiply 1 x 2 x	3												1.440	

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_	Rating Factor	Assigned Value (Circte One)	Multi- plier	Score	Max. Score	R (Sec
1	Observed Incident	(a) 45	1	0	45	8
	If line 1 is 45, proceed If line 1 is 0, proceed	to line 4 to line 2	•			** <u>********</u>
2	Accessibility	0 1 ② 3	1	2	3	8.
3	Containment	0 (15)	1	15	15	8.
4	Waste Characteristics Toxicity	0 1 2 3	5	15	15	8.
3	Targets Population Within a 1-Mile Radius	0 1 2 3 @ 5	4	16	20	8.
	Distance to a	(a) 1 2 3	4	0	12	
		Total Targets Score		16	32	

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HRS DOCUMENTATION RECORDS

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

<u>INSTRUCTIONS</u>: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: GAF Dump

LOCATION:

Charles Street, City of Binghamton, Broome County

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

None. Past sampling has revealed elevated levels of volatile organics and heavy metals. Background data is not available; therefore, an observed release cannot be documented.

Source: New York Testing Laboratories, Inc., sample analyses, March 31, 1983

Rationale for attributing the contaminants to the facility:

Not applicable

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

Unconsolidated deposits, medium gravel and fine sand, of the Pleistocene age.

Source: A. D. Randall, USGS, Records of Wells and Test Borings in the Susquehanna River Basin, NY, NYSDEC Bulletin 69, 1972

Depth(s) from the ground surface to the highest seasonal level of the saturated zone (water table(s)) of the aquifer of concern:

Depths from ground surface to the highest seasonal level of the water table range from 30 to 50 feet for wells in the immediate vicinity of the site.

Source: A. D. Randall, USGS, Records of Wells and Test Borings in the Susquehanna River Basin, NY, NYSDEC Bulletin 69, 1972

Depth from the ground surface to the lowest point of waste disposal/storage:

Wastes poured out on ground surface; unknown as to whether or not wastes were poured onto original surface or onto fill. For purposes of scoring assumed a minimum of six feet.

Source: Personal Communication, Melanie Sviatyla, Engineer, Broome County Health Department, May 20, 1985

Score = 2 (based on depth of 24-50 feet between lowest point of waste disposal and aquifer of concern)

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

39 inches of mean annual precipitation

Source: National Oceanic and Atmospheric Administration, <u>Climates of the</u> <u>States</u>, Vol. 2, p. 719, 1978

Mean annual lake or seasonal evaporation (list months for seasonal):

27.5 inches of mean annual lake evaporation

Source: HRS Users Manual (HW-10), USEPA, 1984

Net Precipitation (subtract the above figures):

11.5 inches mean annual net precipitation

Score = 2

Permeability of Unsaturated Zone

Soil Type in unsaturated zone:

Fine sands, coarse and medium gravels

Source: Ansco Corp., Plan of Well Field and Boring Logs, Wells #3 (Bm 42) and #5 (Bm 44)

Permeability associated with soil type:

 $>10^{-3}$ cm/sec

Score = 3

Source: HRS Users Manual (HW-10), USEPA, 1984

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Liquids, poured out from drums onto dump site

Score = 3

Source: Personal Communication, Melanie Sviatyla, Engineer, Broome County Health Department, May 20, 1985
3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

None present

Method with highest score:

None present

Score = 3

Source: Site inspection, September 24, 1985, Wehran Engineering

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Specific wastes disposed of are unknown, assume photochemical process wastes, including volatile organics and heavy metals.

Source: K. Goldstein, SUNY Binghamton, Preliminary Register of Hazardous Waste Dump Sites, Broome County, 1981

Compound with highest score:

Heavy Metals

Score = 18

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Total quantity of waste disposed of unknown; for scoring purposes assume minimum quantity.

Liquid wastes allegedly poured on ground surface.

Score = 1

Bases of estimating and/or computing waste quantity:

Source: Letter, J. H. Teitel, Associate Counsel, GAF Corporation, to M. Chen, November 27, 1984 Personal Communication, Charles Bien, September 24, 1985 during site investigation

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Drinking water Binghamton City Water Supply (east of site on eastern side of Chenango River) Johnson City Water Works (west of site)

Score = 3

Source: NYSDOH, NYS Atlas of Community Water System Sources, 1982

Distance to Nearest Well

Location of nearest well drawing from <u>aquifer of concern</u> or occupied building not served by a public water supply:

Johnson City Water Works (west of site)

Distance to above well or building:

Estimated at 1.5 miles

Value = 2

Source: NYSDOH, NYS Atlas of Community Water System Sources, 1982 USGS Quadrangle, Binghamton West, NY

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from <u>aquifer(s) of concern</u> within a 3-mile radius and populations served by each:

Johnson City Water Works, population = 18,102

Source: NYSDOH, Inventory - Community Water Systems, Vol. 1 - Municipal, 1984

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

No irrigation being done within a 3-mile radius from aquifer of concern.

Source: Personal Communication, Lee Nelson, County Cooperative Extension, May 21, 1986

Total Population served by ground water within a 3-mile radius:

At least 18,102

Value = 5

Score = 30

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

Contaminants detected, but not directly attributable to site.

Score = 0

Source: Broome County Health Department, Report on Trout Brook Sampling Survey, 1971

Rationale for attributing the contaminants to the facility:

Not applicable

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

4%

Source: Site investigation, September 24, 1985, Wehran Engineering

Name/description of nearest downslope surface water:

Trout Brook (Tributary SR-44), a 66" storm sewer line discharging to the Chenango River

Source: Site investigation, September 24, 1985, Wehran Engineering

Average slope of terrain between facility and above-cited surface water body in percent:

2%

Source: Site investigation, September 24, 1985, Wehran Engineering

Is the facility located either totally or partially in surface water?

No

Score = 0

Source: Site inspection, September 24, 1985, Wehran Engineering

Is the facility completely surrounded by areas of higher elevation?

No

Source: Site inspection, September 24, 1985, Wehran Engineering

1-Year 24-Hour Rainfall in Inches

2.25 inches

Score = 2

Source: HRS Users Manual (HW-10), USEPA, 1984

Distance to Nearest Downslope Surface Water

200 feet

Score = 3

Source: Site inspection, September 24, 1985, Wehran Engineering

Physical State of Waste

Liquid

Score = 3

Source: Personal Communication, Melanie Sviatyla, Engineer, Broome County Health Department, May 20, 1985

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

None present

Method with highest score:

None

Score = 3

Source: Site inspection, September 24, 1985, Wehran Engineering NYSDEC file data

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Specific wastes disposed of are unknown; assume photochemical process wastes, including volatile organics and heavy metals.

Source: K. Goldstein, SUNY Binghamton, Preliminary Register of Hazardous Waste Dump Sites, Broome County, 1981

Compound with highest score:

Heavy Metals

Score = 18

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum);

Total quantity of waste disposed of unknown; liquid wastes allegedly poured on ground surface; for scoring purposes assume minimum quantity.

Score = 1

Basis of estimating and/or computing waste quantity:

Letter, J. H. Teitel, Associate Counsel, GAF Corporation, to M. Chen, November 27, 1984 Personal Communication, Charles Bien, September 24, 1985 during site investigation.

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

- . Trout Brook: Class D, Standards D
- . Susquehanna River: Class C, Standards C, from Tioga-Broome County boundary to Rock Bottom Dam
- . Chenango River: Class B, Standards B, from confluence with Susquehanna River to Tributary 41
- Best Usage of Waters Class B: Primary contact recreation and any other uses except as a source of water supply for drinking, culinary or food processing purposes

Score = 2

Source: NYCRR6, Part 930, Article 17

Is there tidal influence?

No

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

None present

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

None present

Source: USGS Quadrangle, Binghamton West, NY

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

None

Score = 0

Source: NYSDEC Endangered Species Unit, Significant Wildlife Habitat Maps, Delmar, NY

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

None: Water supply intake for Binghamton City Water is located upstream on the Susquehanna River above the confluence with the Chenango River.

Source: Personal Communication, Claudia Stollman, Broome County Environmental Management Council, May 17, 1985 Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

No irrigation practiced within 3 miles downstream of the site.

Source: Personal Communication, Lee Nelson, County Cooperative Extension, May 21, 1986

Total population served:

None known

Name/description of nearest of above water bodies:

Not applicable

Distance to above-cited intakes, measured in stream miles.

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

None

Date and location of detection of contaminants

Source: Organic Vapor Analyzer survey, Wehran Engineering, September 24, 1985

Methods used to detect the contaminants:

Not applicable

Rationale for attributing the contaminants to the site:

Not applicable

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most Reactive compound:

Not applicable

Most incompatible pair of compounds:

Toxicity

Most toxic compound:

Not applicable

Hazardous Waste Quantity

Total quantity of hazardous waste:

Not applicable

Basis of estimating and/or computing waste quantity:

Not applicable

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi 0 to 1 mi 0 to 1/2 mi 0 to 1/4 mi

Not applicable

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less: Not applicable

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less: Not applicable

Distance to critical habitat of an endangered species, if 1 mile or less:

Not applicable

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Not applicable

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Not applicable

Distance to residential area, if 2 miles or less:

Not applicable

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Not applicable

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Not applicable

Is a historic or landmark site (National Register of Historic Places and National Natural Landmarks) within the view of the site?

FIRE AND EXPLOSION

1 CONTAINMENT

Hazardous substances present:

To score the fire and explosion hazard mode either a state or local fire marshall must have certified that the facility presents a significant fire or explosion threat to the public or to a sensitive environment, or there must be a demonstrated threat based on field observations (e.g. combustible gas indicator readings). The available records give no indication that either one of these tasks has been done. Further, the available data do not suggest any imminent threat of fire and explosion at this site. Therefore the route score cannot be completed.

Type of containment, if applicable:

Not applicable

2 WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

Not applicable

Ignitability

Compound used:

Not applicable

Reactivity

Most reactive compound:

Not applicable

Incompatibility

Most incompatible pair of compounds:

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility: Not applicable

Basis of estimating and/or computing waste quantity:

Not applicable

3 TARGETS

Distance to Nearest Population

Not applicable

Distance to Nearest Building

Not applicable

Distance to Sensitive Environment

Distance to wetlands:

Not applicable

Distance to critical habitat

Not applicable

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Not applicable

Distance to residential area, if 2 miles or less:

Not applicable

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Not applicable

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Not applicable

Is a historic or landmark site (National Register of Historic Places and National Natural Landmarks) within the view of the site?

Not applicable

Population Within 2-Mile Radius

Not applicable

Buildings Within 2-Mile Radius

DIRECT CONTACT

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

No documentation of direct contact causing injury to humans or animals.

Score = 0

Source: NYSDEC Files

2 ACCESSIBILITY

Describe type of barrier(s):

Fencing is present, but there is no separate means to control entry.

Score = 2

Source: Site inspection, September 24, 1985, Wehran Engineering

3 CONTAINMENT

Type of containment, if applicable:

No containment present.

Score = 15

Source: Site inspection, September 24, 1985, Wehran Engineering

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Specific wastes disposed of are unknown; assume photochemical process wastes, including volatile organics and heavy metals.

Source: K. Goldstein, SUNY Binghamton, Preliminary Register of Hazardous Waste Dump Sites, Broome County, 1981

Compound with highest score:

Heavy Metals

Score = 3

5 TARGETS

Population within one-mile radius

At least 5,000

Score = 4

Source: USGS Quadrangle, Binghamton West, NY

Distance to critical habitat (of endangered species)

No endangered species within one mile of site.

Score = 0

Source: NYSDEC Endangered Species Unit, Significant Wildlife Habitat Maps, Delmar, NY

3/31/83

Well #5

NEW YORK TESTING LABORATORIES, INC.

Page 7

SAMPLE IDENTIFICATION NO R17CO-174

Lab No. 82-64452(D-3)

VOLATILE COMPOUNDS Parameter	Method No.	CAS No.	Method Detection Limit* (ppb)	Found (ppb)
Acrolein	603, 624	107-02-8	100	ND
Acrylonitrile	603, 624	107-13-1	100	ND
Benzene	624	71-43-2	10	ND
Bromodichloromethane	624	75-27-4	10	ND
Bromoforma	624	75-25-2	10	ND
Bromomethane	624	74-83-9	10	ND
Carbon Tetrachloride	624	56-23-5	10	2 🗲
Chlorobenzene	624	108-90-7	10	ND
Chlorodibromomethane	624	124-48-1	10	ND
Chloroethane	624	75-00-3	10	ND
2-Chloroethyl vinyl ether	. 624	110-75-8	10	ND
Chloroform	624	67-66-3	10	3 🗮
Chloromethane	624	74-87-3	10	·ND
Dichlorodifluoromethane	- 624	75-71-8	10	ND
1,1-Dichloroethane	624	75-34-3	10	ND
1,2-Dichloroethane	624	107-06-2	10	ND
1,1-Dichloroethylene	624	75-35-4	10	ND
Trans - 1,2-Dichloroethylene	624	156-60-5	10	ND
1,2-Dichloropropane	624	78-87-5	10	ND
1,3-Dichloropropene	624	10061-02-6	10	ND
Ethylbenzene	624	100-41-4	10	ND
Methylene Chloride	624	75-09-2	10	47 🗲
1,1,2,2-Tetrachloroethane	624	79-34-5	10	ND ·
Tetrachloroethylene	624	127-18-4	10	< 1.0 ←
Toluene	624	108-88-3	10	2 🗲
1,1,1-Trichloroethane	624	71-55-6	10	< 1.0 -
1,1,2-Trichloroethane	624	79-00-5	10	1.0 -
Trichloroethylene	624	79-01-6	10	< 2 🗲
Trichlorofluoromethane	624	75-69-4	10	ND
Vinyl chloride	624	75-01-4	10	ND

ND = None Detected < = Less than

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SAMPLE IDENTIFICATION NO.R1700-174

Lab No. 82-64452(D-3)

		Method Detection Limit *	Found
Method No.	<u>CAS</u>	<u>(ppb)</u>	<u>(ppb)</u>
625	83-32-9	10	ND
625	208-96-8	10	ND
625	120-12-7	10	ND
625	56-55-3	10	ND
625	205-99-2	10	ND
625	207-08-9	10	ND
625	50-32-8	10	ND
625	191-24-2	25	ND
625	92-87-5	10	ND
625	111-44-4	25	ND .
625	111-91-1	10	ND
625	117-81-7	10	< 10 🗲
625	39638-32-9	10	ND
625	101-55-3	10	ND
625	85-68-7	10	ND
625	91-58-7	10	ND
625	7005-72-3	10	ND
625	218-01-9	10	ND
625	53-70-3	25	ND
625	84-74-2	10	< 10 🛹
625	95-50-1	10	ND
625	541-73-1	10	ND
625	106-46-7 ·	10	ND
625	91-94-1	10	ND
625	84-66-2	10	ND
625	131-11-3	10	ND
	Method No. 625 625 625 625 625 625 625 625 625 625	Method No.CAS #62583-32-9625208-96-8625120-12-762556-55-3625205-99-2625207-08-962550-32-8625191-24-262592-87-5625111-91-1625117-81-762539638-32-9625101-55-3625101-55-3625101-55-362591-58-762591-58-762591-58-762591-58-762553-70-362553-70-362553-70-3625541-73-162591-94-162591-94-162584-66-2625131-11-3	Method Detection Limit* Method No. CAS # (ppb) 625 83-32-9 10 625 208-96-8 10 625 120-12-7 10 625 56-55-3 10 625 205-99-2 10 625 207-08-9 10 625 50-32-8 10 625 191-24-2 25 625 191-24-2 25 625 111-91-1 10 625 111-91-1 10 625 101-55-3 10 625 101-55-3 10 625 91-58-7 10 625 91-58-7 10 625 91-58-7 10 625 53-70-3 25 625 91-58-7 10 625 53-70-3 25 625 53-70-3 25 625 95-50-1 10 625 95-50-1 10

ND = None Detected < = Less than *EPA published method detection limit

Page 9

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SAMPLE IDENTIFICATION NOB1700-174

Lab No.82-64452(D-3)

.. .. .

BASE/NEUTRAL COMPOUNDS - con	tinued		Detection	Faurid
Parameter	Method No.	CAS #	(ppb)	(ppb)
2,4-Dinitrotoluene	625	121-14-2	10	ND
2,6-Dinitrotoluene	625	606-20-2	10	ND
Di-octyl-phthalate	625	117-84-0	10	ND
1,2-Diphenylhydrazine	625	112-66-7	10	ND
Fluoroanthene	625	206-44-0	10	ND
Fluorene	625	86-73-7	10	ND
Hexachlorobenzene	625	118-74-1	10	ND
Hexachlorobutadiene	625	87-68-3	10	ND
Hexachloroethane	625	67-72-1	10	ND
Hexachlorocyclopentadiene	625	77-47-4	10	ND
Indeno (1,2,3-cd) pyrene	625	193-39-5	25	ND .
Isophorone	625	78-59-1	10	ND
Naphthalene	625	91-20-3	10	ND
Nitrobenzene	625	98-95-3	10	ND
N-Nitrosodimethylamine	625	62-75-9	25	ND
N-Nitrosodi-N-propylamine	625	621-64-7	10	ND
N-Nitrosodiphenylamine	625	86-30-6	10	ND
Phenanthrene	625	85-01-8	10	ND
Pyrene	625	129-00-0	10	ND
1,2,4-Trichlorobenzene	625	120-82-1	10	ND
2,3,7,8-Tetrachlorodibenzo -p-dioxin	625	1746-01-6	-	-

ND = None Detected < = Less than *EPA published method detection limit

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SAMPLE IDENTIFICATION NO. R1700-174

Lab No. 82-64452(0-3)

ACID COMPOUNDS

Parameter	Method No.	CAS #	Method Detection Limit * (ppb)	Found (ppb)
4-Chloro-3-methylphenol	625	59-50-7	25 \	
2-Chlorophenol	625	95-57-8	25	ND
2,4-Dichlorophenol	625	120-83-2	25	ND
2,4-Dimethylphenol	625	105-67-9	25	· ND
2,4-Dinitrophenol	625	51-28-5	250	ND
2-Methyl-4,6-dinitrophenol	625	534-52-1	250	ND
2-Nitrophenol	625	88-75-5	25	ND
4-Nitrophenol	625	100-02-7	25	ND
Pentachlorophenol	625	87-86-5	25	NU
Phenol	625	108-95-2	25	ND
2,4,6-Trichlorophenol	625	88-06-02	25	ND . ND

ND = None Detected < = Less than

*EPA published method detection limit

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Page 11 SAMPLE IDENTIFICATIONR 1-700-174

Lab No. 82-64452 (D-3)

METALS AND PHYSICAL CHEMISTRY

Parameters (۲۹/۱)	Method No	CAS #	Method Detection Limit*	Found
Cyanide, Total	335.2	57-12-5	· 20	ND
Phenols, Total	420.1		5	ND
Antimony	204.1	7440-36-0	200	ND
Arsenic	206.2	7440-38-2	1 .	. 9 🗲
Beryllium	210.1	7440-41-7	5	ND
Cadmium	213.1	7440-43-9	5	ND
Chromium	218.1	7440-47-3	50	ND
Copper	, 220.1	7550-50-8	20	28 🛹
Lead	239.1	7439-92-1	100	ND
Mercury	245.1	7439-97-6	0.2	0.6 🗲
Nickel	249.1	7440-02-0	40	ND
Selenium	270.2	7782-49-2	2	< 2 🛶
Silver	272.1	7440-22-4	10	ND
Thallium	279.1	7440-28-0	100	ND
Zinc	289.1	7440-66-6	5	23 🛹

ND = None Detected < = Less than

* EPA published method detection limit

SUMMARY OF WELLS USED FOR DETERMINATION OF REGIONAL GROUNDWATER FLOWS

Location	Owner	Aquifer	Altitude	Water Level(ft.)	Date
4206-21-7556-25	USGS	Unconsolidated gravel	869	25	10-66
4206-45-7556-13	Anitec	Unconsolidated gravel	840	33	10-68
4206-36-7555-42 ¹	Anitec	Unconsolidated gravel	848	-	-
4206-12-7555-47	USGS	Bedrock, late devonian	867	17	10-66
4206-38-7555-46 ²	Anitec	Unconsolidated gravel	845	50	10-66
4206-41-7555-57	R. Kocik	None given	840	32	4-66
4206-17-7555-20	USGS	Unconsolidated gravel	856	56	10-66
4206-39-7555-20	USGS	Unconsolidated gravel	852	48	10-66
4206-32-7554-55	USGS	Unconsolidated gravel	840	31	4-66
4206-36-7555-38	Anitec	Unconsolidated gravel	845	49	10-66
4206-34-7556-44	USGS	Unconsolidated gravel	876	53	10-66
4206-38-7556-30	Anitec	Unconsolidated gravel	859	45	4-66

¹Monitoring Well #3

²Monitoring Well #2

Source: A.D. Randall, USGS, Records of Wells and Test Borings in the Sisquehanna River Basin, New York, NYSDEC Bulletin 69, 1972

CITY OF BINGHAMTON

WATER SUPPLY WELLS

Location	Aquifer	Depth	Yield
4206-58-7554-16	QG	51	708
4206-12-7553-41	ବ୍ୟତ	23	1,400

JOHNSON CITY

WATER SUPPLY WELLS

4206-46-7558-40	QG	100	2,100
4206-46-7558-42	ନ୍G	101	2,180
4206-46-7558-42	QG	89	2,200
4207-11-7557-24	QG	80	2,400
4207-2-7557-32	ନ୍ଦୁ	98	900
4207-3-7557-46	ବ୍ୟୁତ	117	1,900
4207-3-7558-17	ନ୍ଦୁ	109	840

QG: Unconsolidated deposits (sand and gravel) Pleistocene Age.

Source: A.D. Randall, USGS, Records of Wells and Test Borings in the Susquehanna River Basin, New York, NYSDEC Bulletin 69, 1972



TELEPHONE CONVERSATION MEMORANDUM

CLIENT NYSDEC P	hase I Round 3	PROJ. No.	04339 EX
PROJECT GAF Du	mp	DATE	May 20, 1985
		TIME	11:50 a.m.
CALL TO/FROM	Melanie Sviatyla	REPRESENT	TING Engineer, Broome Co.
PHONE No.	607-772-2887		Health Department

SUMMARY OF CONVERSATION:

Previous employee of GAF. Reported that 55 gallon drums of waste materials were just dumped out on the site.

GAF probably stopped using site 10 years ago.

Site currently fenced and some areas are tarred over and are now used as a parking lot.

Trout Brook was sampled in 1971; will send final report on results.

COPIES TO:

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au C. A.C. BY:

Fran Geissler



MEAN ANNUAL PRECIPITATION, INCHES



Data are based on the period 1931-55. Isolines are drawn through points of approximately equal value. Caution should be used in interpolating on these maps, particularly in mountainous areas.

National Oceanic and Atmospheric Administration, Climates of the States, Vol. 2, p. 719, 1978.

Uncontrolled Hazardous Waste Site Ranking System

A Users Manual (HW-10)

Originally Published in the July 16, 1982, Federal Register

United States Environmental Protection Agency



Source: Climatic Atlas of the United States, U.S. Department of Commerce, National Climatic Center, Ashville, N.C., 1979.



TABLE 2

PERMEABILITY OF GEOLOGIC MATERIALS*

Type of Material	Approximate Range of Hydraulic Conductivity	Assigned Value
Clay, compact till, shale; unfractured metamorphic and igneous rocks	<10 ⁻⁷ ca/sec	0
Silt, loess, silty clays, silty loans, clay loans; less permeable limestone, dolomites, and sandstone; moderately permeable till	10 ⁻⁵ - 10 ⁻⁷ c z/sec	1
Fine sand and silty sand; sandy loams; loamy sands; moderately permeable limestone, dolomites, and sandstone (no karst); moderately fractured igneous and metamorphic rocks, some coarse till	10 ⁻³ - 10 ⁻⁵ cm/sec	2
Gravel, sand; highly fractured igneous and metamorphic rocks; permeable basalt and lavas; karst limestone and dolomite	>10 ⁻³ cm/sec	3

*Derived from:

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The state of the s

Davis, S. N., Porosity and Permeability of Natural Materials in Flow-Through Porous Media, R.J.M. DeWest ed., Academic Press, New York, 1969

Freeze, R.A. and J.A. Cherry, Groundwater, Prentice-Hall, Inc., New York, 1979



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ant of Manual CL - Dutated a the state	
est of Furray St. Drilled by H. H. Granston and Son in June 1938.	
	人間ないたいたと何に調
Lolude 850 leet above mean sea level. Driller's log.	
Thickness Depth	
(feet) (feet)	
Gravel, coarse, & sand, some clay, yellow	
Sand, gravel & clay, yellow	
Sand, coarse with some gravel (small vol. of water) 5	
Sand & gravel, some clay, thin laver of gravel	1.加工 1.11111
with water.	
Sand, gravel & clay, some cobbles, thin lawers of	
gravel with water	
Sand. very fine, dirty	
Send. fine some gravel	
Dand, hard nacked some gravel	
troval & fine and i new water	
Send fine	
Sand & manal 1	
Sand & gravel	
Sand & gravel, some clay	
Dand & gravel, line	
oray, light bluish gray, blue pebbles 2.5 111	
esimal shale gravel 2 113	
rale,	
Casing: 8-inch.	
Depth: 135 feet.	
Screen: 10 feet by 5-inch Johnson No. 80 slot set	
at 105.8 feet.	
Static water level: 24.5 feet.	
Drawdown: 15.5 feet.	
Yield: 50 gallons a minute	
Installed pump capacity: 50 gallons a minute	
Aquifer: Sand and gravel from 96 to 106 foot	
Care and Erayor from to the feet.	
Bu 38.* Ansce Corp. Binghanton Northwest comer of Sumas and	
and the state of t	
Streets Drilled in 1942 . Altitude 828 fact charge many real lower	
ALUTUUE OJO TEEU AUOVE EEAN SEA TEVEL,	
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4206 21 7555 18	
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	· · · · ·	
	Thickness (feet)	Depth (feet)
Ashes and clay. No record Silt, sand very fine with clay. No record. Gravel, coarse and medium, large stones. Sand, fine. Silt and sand, fine. Sand, coarse, and gravel, fine. No record. Bock, blue shale.	(Ieet) . 9 . 3 . 53 . 5 . 5 . 40 . 5 . 5 . 5 . 5 . 3 . 7	9 12 65 70 110 115 120 125 128 135
Casing: Depth: Screen: Static water level: Yield: Installed pump capacity: (Note: For additional data see table 1.)	 .e.	
Bm. 39. Ansco Corp., Binghamton. About 180 fe	et north of I	51m St.
d about 160 feet east of West St. extended. Drill	ed 111 1741.	Altitude
d about 160 feet east of West St. extended. Drill 3.9 feet above mean sea level. Driller's log. 4/206 27 7555 36	Thickness (feet)	Altitude Depth (feet)
d about 160 feet east of West St. extended. Drill 3.9 feet above mean sea level. Driller's log. 4/206 29 7555 36 Sand, fine, gravel, medium, and some clay Rock at.	Thickness (feet) . 116	Altitude Depth (feet) 116 116
d about 160 feet east of West St. extended. Drill 3.9 feet above mean sea level. Driller's log. 4/206 29 7555 36 Sand, fine, gravel, medium, and some clay Rock at Quicksand layers at 40, 50, 75 and 80 feet Medium gravel layers at 90, 95, 105 and 11 Clay layers at 100 and 110 feet.	Thickness (feet) . 116	Altitude Depth (feet) 116 116
ad about 160 feet east of West St. extended. Drill 3.9 feet above mean sea level. Driller's log. 4/206 29 7555 36 Sand, fine, gravel, medium, and some clay Rock at Quicksand layers at 40, 50, 75 and 80 feet Medium gravel layers at 90, 95, 105 and 11 Clay layers at 100 and 110 feet. Casing: Depth; Static water level: 43 feet.	Thickness (feet) . 116	Altitude Depth (feet) 116 116

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e . .

4206 34 Bm. 40. Ansco Corp., Binghamton. East side of Altitude 8	7555 Charles St. a 48.5 feet abo	42 11259 about 360	
a level. , Driller's log.	Thickness (feet)	Depth (feet)	
No record. Gravel, medium. Gravel, medium and sand, fine. Gravel, medium and hardpan. Gravel, coarse. Gravel, medium and sand. Bock at.	25.5 15 40 5 15 12	25.5 40.5 80.5 85.5 100.5 112.5 112.5	
Casing: Depth: Screen: Drawdown: Yield: Installed pump capacity: Aquifer: (Note: For additional data see table 1.)	nch by 3/32-in 5 feet. e sand.	nch slots	
Bm. 41. Ansco Corp., Binghamton. About 380 fee	et east of Ch	arles St.	
d about 120 feet north of Field St. extended. Dril de 848.5 feet above mean sea level. Driller's log.	lled in 1935.	Alti-	
LINKNOWN	Thickness (feet)	Depth (feet)	
No record. Sand, fine. Sand and silt. Gravel, medium and sand. Gravel, coarse. Gravel, medium. Gravel, coarse. Sand and clay, at. (Continued on next page)	34 25 5 5 5 5 5 5.5	34 59 64 69 74 79 84.5 84.5	

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1221 3.

	and a second
	and a weather and the second sec
11209	Restricted
- 41. (Cont'd.)	
Casing: 12-inch.	
Depth: 100 feet.	
Cook, 10 leet by 12-inch by 3/32-inch	
Drawdown: 15 feet.	¥111 - 114
Yield: 200 gallons a minute.	
Installed pump capacity: 500 gallons a minute.	
Aquifer: Gravel, coarse and medium.	
(Note: For additional data see table 1)	
Laute Lor additional data see table 1.,	
Bm. 42.* Ansco Corp., Binghamton. East side of Charles St. at Field	
Altitude 848.) leet above mean sea level. Driller's	
Well #3	
4206 36 7555 12	
Thickness Depth	
(feet) (feet)	
No record 20.5 20.5	
Gravel, medium, and sand	
Gravel, medium, and stones	
Gravel, medium 10 60.5	
Gravel, coarse	
Gravel, reduum and line	
Gravel, medium, and clay	
Gravel, fine, and clay	
Sand and clay 10 120.5	
Gravel, fine, and sand	
Graver, Time, and Cray	
승규가 가장 그 가슴에 걸 것이 있는 것이 같이 가지 않는 것이 같이 가지 않는 것이 같이 많이 많이 많이 했다.	
Casing: 16-inch.	
Depth: 100 feet.	
slots from 64 5 to 92 5 feet.	
Drawdown: 4 feet.	
Yield: 1,200 gallons a minute.	
Installed pump capacity: 2,000 gallons a minute.	
Aquifer: Gravel, coarse, medium, and line.	
(Note: For additional data see table 1.)	能 编
10	

Bm. 43. Ansco Corp., Binghamton. About 185 feet north of well	
m. 41. Drilled in 1935. Altitude 848.5 feet above rear and lowel	
riller's log.	
Image: Second system Depth (feet) No record. 79 79 Gravel, coarse. 15 94 Gravel, medium, and clay. 15 94 Gravel, medium, and clay. 5 99 Casing: 12-inch. 100 feet. Screen: Cook, 10 feet by 12-inch by 3/32-inch slots from 79.5 to 89.5 feet. Installed pump capacity: 300 gallons a minute. Aquifer: Gravel, coarse. (Note: For additional data see table 1.)	
Bm. 44. Ansco Corp., Binghanton. About 260 feet north of Field St.	
d about 140 feet west of Charles St. extended. Drilled in 1937. Alti-	
de 848.5 feet above mean sea level. Driller's log. Well #5	
4206 38 7555 46 Thickness Depth (feet) (feet)	
No record 18.5 18.5 Gravel, medium. 10 28.5 Gravel, medium. 5 33.5 Gravel, coarse. 9 47.5 Stones, coarse. 9 47.5 Scravel, medium, and sand. 25 75.5 Gravel, medium, and sand. 25 75.5 Stones, coarse. 9 447.5 Stones, coarse. 9 447.5 Stand, fine. 25 75.5 Gravel, medium, and sand. 5 80.5 Gravel, medium, and sand. 5 90.5 Gravel, medium, and sand. 5 95.5 Gravel, medium, and sand. 9 104.5 Gravel, fine, and sand. 17 121.5 Rock at. 121.5 121.5 (Continued on next page) 11	

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11.259	
Bm. 44] (Contid.)	
Casing: 18-inch	
Depth: 100 feet.	
Screen: Cook. 25 feet by 18-inch by 3/32-inch	
slots from 92.6 to 117.6 feet	
Drawdown: 7 feet.	
l,800 gallons a minute.	
installed pump capacity: 2,000 gallons a minute.	5 .
Gravel, coarse, medium and fine, and sand.	¢.
Natos The states of a	÷.
(note: for additional data see table 1.)	12451
	(
Ba. 45. Ansco Corp Bingharton Western side of Colfer And the	r F
is the corp., Singlation. Western side of collax ave. at Fay	A .
St. Drilled in 1941. Altitude 840 feet above mean sea level Dwillowle	
and the real real react. PLITTEL. 2	ľ
og. Ladikalandal	i.
	4
Thickness Depth	<u>a</u>
(feet) (feet)	
	Ś.
No record	ALL .
Send very fine and also	é
No record	
Fock, blue shale, at	
90	
	A
Casing: 8-inch.	
Depth: 90 feet.	*
Well is not in use and is available for observation purposes.	
Br. 46 Ansco Com Binchanten Southeast and a to	1
but heast corner of intersection of	
ma St. and DL & W R. R. Drilled in 1941 Altitude 856 2 feet shows man	
and the second sec	
ea level. Driller's log.	
1206 38 7336 30 Thickness Depth	
(feet) (feet)	
Send fine and encycl modium	
Sand, fire, gravel and some alar. 45 45	
No record	1
Gravel, coarse (1-inch), and sand fine	
No record.	
Clay and sand, fine.	
No record	
Fock, blue shale, at	
(Continued on next page)	

Pirtration

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Sec. 9. 19. 10

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11259 46. (Cont'd.) Casing: 6-inch. 92 feet. Depth: 40 feet. Static water level: - • . Well is not in use and is available for observation purposes. 1 4 1 4 1 1 4 1 4 1 Bm: 47. Water Dep't., Village of Johnson City. Near southwest corner of pool in C. F. Johnson Fark. Drilled by Kelly Well Drilling Co. n 1928. Altitude 850 feet above mean sea level. Driller's log. 4206 58 7556 53 Depth Thickness (feet) (feet) Clay and stones.... 12 12 Clay and sand 20 8 Clay and sandy. 28 8 Sand and clay..... 7 35 Sand, hard, and gravel. 45 10 . Sand, fine. 13 58 Clay..... 60.7 2.7 Boulders at. 60.7 Casing: 25-inch. Depth: 61 feet. Depth: Screen: 26 feet set from 35 to 61 feet. Static water level: 18 feet. Drazdovn: 4 feet. 500 gallons a minute. Installed pump capacity: 1,000 gallons a minute. . Well is for emergency and pool filling use only. 1, 1. ··· ··· ··· · Bm. 48. Water Dep't., Village of Johnson City. Northwest corner of Ball Park at North and North Broad Sts. Drilled by Kelly Well Drilling to. in 1928. Altitude 840 fect above mean sea level. Driller's log. (Continued on next page)
Sept. 24, 1985 Winter + trans . +. ULISIEr Delentit Scientist K. Malloz T. Haelen . Geologist sile # 704011 SITE INSPECTION FORM GAF Damp baby + SITE NAME: LOCATION: Prospect St. Binghamton, Brone Co. OWNER/REPRESENTATIVE: Mr. C.F. Bien, GAF Corp Wayne NJ plant produced Photo film now owned by Anitec Corp. DISPOSAL METHODS: DOPEN DUMP D PIT/LAGOON OTHER [] LANDFILL Plantesed since WWII DESCRIBE: Wate liquide spilled out of draws outs ENVIRONMENTAL CONTROLS: NONE LINER _ COVER LEACHATE COLLECTION _ FENCING Yes but no secure CUT-OFF WALL OTHER _ WASTE TYPES: SOLID INDUSTRIAL DELLQUID D MUNICIPAL C SLUDGES DESCRIBE: . DESCRIPTION OF SITE VICINITY: miked residential + commercial, see tops map SOIL TYPE: fill: demodelingite SLOPE: 420 FLORA STRESS: Ane intervening slope 222 potront Br. FAUNA STRESS: hove SINDUSTRIAL NEAREST WELL: **D** MUNICIPAL **UPRIVATE** DOTHER DESCRIBE: W/i 500 ' NEAREST SURFACE WATER: QONSITE DLAKE STREAM DESCRIBE: Trout Brook 66" storm senser disbarges to Chevarge R. OTHER INFORMATION:

BROOME COUNTY ENVIRONMENTAL MANAGEMENT COUNCIL

Ms. Constance Gasparovic Wehran Engineering Consulting Engineers 666 East Main Street Middletown, New York 10940



Dear Ms. Gasparovic:

Enclosed please find the only information assembled by the Broome County Environmental Management Council regarding hazardous waste dump sites. A potential contact person for further information is Robert Denz, Broome County Health Department. There is no charge for these materials.

Sincerely, 10cm

John Kowalchyk Chief Planner

JK/nt

Enclosure



Register of Hazardous Waste Dump Sites, Broome County, New York 1981

By

Principle Author Kenneth Goldstein

Contributing Authors

Karen Berk Elizabeth Hagg

State University of New York, Binghamton Department of Geography Internship Program for the Broome County Environmental Management Council

Introduction

In 1979, Broome County's Environmental Management Council published the Broome County Toxic Waste Inventory, its first effort to identify hazardous waste dump sites in the County. This report, representing the Council's second effort, goes beyond the 1979 report by including environmental variables related to the dump sites' potential effect on human health. These variables include soil types at the site, a measure of permeability of those soils, average population density in adjacent areas, and land use. The Register also contains data (where available) on the location of wells and test borings drilled near the dump sites.

Each entry lists information sources used to identify the sites, their users, and materials dumped there. These include published sources and/ or information provided by local citizens as a result of an informationgathering campaign initiated by the Council. Other sources include the <u>Soil Survey. Broome County</u>, <u>New York</u> (U.S. Dept. of Agriculture, March 1971) for soil data, and the <u>Broome County Land Use Plan</u> (Broome County Planning Department, June 1977) for population and land use data. Wells and test borings information was obtained from <u>Records of Wells and Test</u> <u>Borings in the Susquehanna River Basin, New York (N.Y.S. Dept. of</u>

Maps showing dump sites, wells, and test borings locations appear to the left of each entry in the Register. Base maps are portions of the Council's Natural Resource Inventory map series.

This effort is not considered a definitive register of all hazardous waste dump sites in Broome County. The Council will update the Register whenever information on any site (whether active or closed) becomes available. Local citizens and government officials are encouraged to call the Environmental Management Council at 772-2116 if they have any further information on hazardous waste dump sites documented in this report or information on suspected sites not included here.

LEGEND



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DUMPSITES

SUPPLY WELLS

WELL'BORINGS

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-SITE LOCATION:

GAF dump, Charles Street and Grace Street, Binghamton, New York. STATUS:

Closed

WASTE MATERIAL:

Industrial, photo chemical by-products.

SOIL SERIES:

Cut and fill lands, used to be marshland.

POPULATION DENSITY AND LAND USE:

34-54 people/acre, Residential/Commercial

PRIORITY:

4 (moderately high)

COMMENTS:

INFORMATION SOURCES:

USERS:

GAF

WELLS AND TEST BORINGS:

24-52b, 17-20, 16-19, 18-13, 15-03b, 14-00b, 31-32b, 28-34, 29-36, 32-35b, 31-35b, 30-36b.

SURFACE WATER:

GROUND WATER:

GAF CORPORATION

1361 Alps Road Wayne NJ 07470

201 628 3000



Mr. Manden Chen Bureau of Hazardous Site Control Division of Solid and Hazardous Waste N.Y. Department of Environmental Conservation Albany, N.Y. 12233-0001

November 27, 1984

RECEIVED

DEC 03 1984

Re: GAF-Dump ID# 704011 Binghamton/Broome County

BUREAU OF HAZAGOONS SITS HONTRO DIVISION OF STOLE HAZARDONE MARCH

Dear Sirs:

GAF has searched its records in response to DEC's September 28 request for information concerning the Binghamton site. GAF has attempted to compile all currently available information consistent with the Environmental Conservation Law (ECL), Section 27-1307.

As provided by Section 27-1307(2), GAF cannot fully comply with DEC's request for information because no records remain. GAF has no knowledge of records or of anyone who can provide information concerning the types or quantities of wastes deposited at Binghamton.

Consequently, GAF is also without information about the period of operation, description of practices, including testing, monitoring or remedial action. There has not been, to GAF's knowledge, any health or environmental problem resulting from disposal of waste at this site.

This response follows a significant effort to locate records which may have provided additional information. Please contact me at (201) 628-4021 if you have any additional questions concerning this matter.

Sincerely yours,

Jeffrey H. Teitel Associate Counsel Leoner Pasculli 201-628

JHT:er

cc: C.F. Bien

1/2 Water User W/i 3mi D Johnsen City Waterwarks 13 wells => located between 2-3 mily serves Union, Tornof 18000 pop. Tom site item #B on map D Bingbaufor, Cityd item#3 ar mep 2 welly + Surguebour River => cartche from river is upstream, well /acted on other side of hydraulic discriticulie Lie otherside of Surguehaume R.) 55460 pop. Binghamton WD#1-7 parchase from a server Tonned Bingbenten total 1,256 70p. purchase from Bing hanton City Dickinson WD #5 serves T. of Dichinson purchase from Johnsen City 102 pop. purchase from Binghenter Cife total pop. 2,292 Dichiusan WD #6,2,7,1,3 Serva T. of Dichiusan E Kirkwood #4 serverT. d Kirkwood purchased from Bing harton City 256 pop. D Kirkwood #1,3, 4ext#1,3 Langdon Park, purchased from # (Bingharhar Lit. 3 ext#1 total pop. 1402 server T. of Firkwood

use cuit purchased from Binghantonli 8 Port Dickinson Uilleye Servis T. of Dichinson 34 1734 pop. 1) Vestal WD#6 Server T. of Vestal purchasel from Bingbacken Ci 1x 6000 pop. NL SUMMARY Pop. served 68,800 Binghauten Lity 18,102 Jobusen City Waterworks tatel pop & 6,902 served 64 NYS Atta of Community Water System Services 19t. NYS DOH Joventon - Community Water Systems, Voll-Mani 1984, PYSDOH.



TELEPHONE CONVERSATION MEMORANDUM

CLIENT NYSDEC Phase I Round 3	PROJ. No	339 EX
PROJECT GAF Dump	DATEM	ay 21, 1986
	TIME2:	35 p.m.
CALL TO/FROM Lee Nelson	REPRESENTIN	GCooperative Extension
PHONE No. (607) 772-8953		Horticulture Division

SUMMARY OF CONVERSATION:

Lee Nelson is aware of no such irrigation practices being done within a three mile radius from aquifer of concern of the GAF site. Outside of the City, she is aware of strawberry fields being irrigated, but is over a three mile radius.

COPIES TO:

BY:	stephen R.	Petrisko In
	-	

Stephen R. Petrisko



BROOME COUNTY HEALTH DEPARTMENT TO: Mrs. F. Geissler, Wchran FROM: Metonie M. Sviatula, BCHD DATE: 5/20/85 RE: <u>SAF</u> dump Site 7746071 Eng Anotech Jon Wright 3322 have is the final copy of the report On Trout Brook. If you have any additional questions please feel free to call me @ (607) 772-2827 FOR YOUR INFORMATION CAPIES YAM FOR YOUR COMMENTS INFORMATION AS REQUESTED -V/1161110 :mbf 6/81

Do not know methods used in

date cualitis. Some analysis dave @ State Lat in Allowy

This sampling survey is of question. He Value since dump site is junedictely adjacent to industrial discharge pt. Chine denig, (647) had primitive treatment faciliting of connet assign contaminents to demp site - metale may well have been from procen.

CAF

REPORT ON TROUT BROOK SAMPLING SURVEY

Tributary SR - 44

October 18 - 22 1971

Broome County Health Department - Division of Environmental Health Services

An intensive sampling survey was carried out by personnel of the Division of Environmental Health Services, beginning at 9:00 AM October 18, and extending through 5:00 PM October 22. Hourly samples were taken and visual observations and physical measurements and chemical analyses performed on most samples collected. A total of 104 samples were collected from the 66 " storm sewer line known as Trout Brook. At least five determinations were made for every sample collected. These being color, odor, temperature and PH, while three other determinations, namely DO, COD, and conductivity were run for approximately 60 samples. Finally, MBAS determinations and metals were measured on about 30 samples. Therefore a total of 760 determinations were made.

The permanent sampling station was established in the back of a van truck owned by the Department for storage of equipment, chemicals, glassware, and providing space necessary for running the dissolved oxygen determinations in the field. The location was at manhole #2 (see accompanying map) in Spring Forest Cemetery, near the corner of Elm and Mygatt Streets. This manhole is about 600 feet downstream from the GAF Sampling manhole, and the sampling was therefore essentially the total storm water discharge of GAF. Observations were made throughout the period of the flow of manhole #1, located just upstream from the GAF Plant, and also at the manhole located at Colfax Avenue. The observations showed that no storm water flow was found at these points, and therefore the total flow at manhole #2 was due to a combination of industrial wastes, cooling water wastes, and any storm water waste coming from GAF property, plus whatever storm water may have been coming from the 18 inch line which drains a portion of Prospect Street. However, since there was no measurable flow at the Colfax Avenue point which drains a much larger area, there is good reason to assume there was little or no flow coming from the Prospect Street line. It should also be mentioned that the sampling program was preceded by a long stretch of rather dry weather.

Flows

Estimates of flow were made at manhole #2 by measuring the conduit at a cross -section of the stream within the manhole structure, and taking measurements of the flow velocity. Estimates of flow based on hourly measurements ranged from 3.5 to 5.1 MGD. This corresponds to flow rates of 2,000 gallons per minute to 3,900 gallons per minute.

Violations of Water Pollution Laws

Violations were found of Parts 701.3 of Chapter 10, Title 6 - Official Rules, and Regulations. According to these standards, and reports on the Susquehanna River drainage basin which was assigned the standard of D to Trout Brook (see page 38, Table 1) violations exist in the following respects:

Colored Wastes

The standards require "none alone or in a combination with other substances in sufficient amounts to impair the waters for any class." Since the waters of Trout Brook discharge as a tributary into the Chenango River, and since the Chenango River is classified B from its mouth to tributary 61, colored wastes make the waters unsuitable for fishing, boating or any other recreational use.

Highly colored wastes were observed in nineteen samples. These colors ranged from milky white to blues, pinks, yellow and brown. By color is meant apparent color which includes not only the color due to substances in solution, but also that due to suspended matter, and was determined on the original sample without filtration or centribugation. The following color scale was used:

> 0 - none 1 - trace 2 - faint 3 - pronounced 4 - intense

PH

Values for class B water range from 6.5 and 8.5 and for class D waters, from 6.0 and 9.5 Samples exceeded PH range both on low part and high part of the scale on a number of cases.

Settleable Solids

Under the requirements of Part 701.4, Title 6, Chapter 10 of the Official Rules, and Regulations, no settleable solids are allowed. Considerable settleable matter was measured in at least three samples during the sampling period.

Suspended Solids

There is no mention of suspended solids in the Quality Standards for Class D waters, however, we regard the presence of suspended solids in amounts greater than 25 PPM as having a deleterious effect upon the waters of the Chenango River into which Trout Brook discharges downstream. Irrespective of any possible toxic effects contained in these solids due to substances leached out by water, <u>suspended solids are considered injurious to fish by causing</u> <u>abrasive injuries, clogging gills and resuiratory passages of fish and other</u> <u>aquatic organisms</u>. Such solids also have been observed blanketing the stream bottom. This is destructive to food organisms as well as the eggs and young, end destroys spawning beds. Suspended solids in these amounts also screen out light, (a condition known as turbidity) and therefore create conditions inimical to aquatic life and thus reducing the quality of water.

Dissolved Oxygen

D.O.'s of less than 3.0 PPM (for Class D waters) were measured in 63 cases. Every 24 hour period showed numerous violations of the dissolved oxygen standard. It must be remembered that these DO levels were measured in great volumes, since up to 5 MGD of wastes are discharged daily from the GAF plant. These low DO's in the volumes found impose a serious deleterious impact upon the receiving stream.

Toxic Wastes

The principle toxic waste found during the sampling period was silver. Ten samples taken during the test period showed values of greater than 1.0 PPM. We are not fully acquainted with the toxic effect of silver in this amount, but note that the toxic threshold for silver nitrate for stickleback fish is as low as 0.0048 PPM. Since the plant above our sampling point is engaged in the production and processing of photographic film, it is believed that the silver detected is the result of amounts of silver nitrate being discharged from the plant. If necessary, supplementary data can be obtained, more precisely defining this substance.

Zinc was also found, and since concentrations of 0.1 to 1.0 PPM have been reported to be lethal to fish, we feel that the amount of zinc pollution is unacceptable. Thirteen samples were found to contain zinc in excess of 0.1 PPM. One sample was as high as 1.66 PPM.

Conclusion

The data collected during the sampling period of October 18 through October 22 demonstrates without question that despite efforts made by GAF to control waste water discharges, serious violations of State pollution control laws occur on a daily basis.

It is recommended that consultation be arranged with officials of GAF and that initial remedial steps be taken immediately by the company to provide necessary industrial waste water treatment required to bring these discharges into compliance with State and County laws.

R. M. Austin December 17, 1971



STATE OF NEW YORK

OFFICIAL COMPILATION

OF

CODES, RULES AND REGULATIONS

MARIO M. CUOMO Governor

GAIL S. SHAFFER Secretary of State

Published by DEPARTMENT OF STATE 162 Washington Avenue Albany, New York 12231

1/83



No.	Number	Name	Description	Ref. No.	Сінвя	Standards
342	, SR-44-14-49-3	Trib. of trib. of Tioughnioga River	Enters trib. 49 of Tioughnioga River from northwest 1.3 miles upstream from trib. 1 and 2.7 miles east of Blodgett Mills.	K-15d	D	D
343	SR-44-14-50,51 52,53 and trib., 56 and trib., 57	Tribs. of Tioughnioga River	Enter Tioughnioga River in section beginning 0.4 mile upstream from trib. 49 and 1.6 miles southeast of Blodgett Mills and extending upstream to a point 0.5 mile north of Blodgett Mills and 1.5 miles southeast of southeast corner of City of Cortland.	K-15d K-15c	D	D
343.1	SR-44-14-55 portion as described and trib.	Trib of Tioughnioga River	Mouth to Kellogg Rd. which crosses stream approx. 0.2 mile upstream of mouth.	K-15d K-15c	D	D
343.2	SR-44-14-55 portion as described	Trib. of Tioughnioga River	From Kellogg Road to source.	K-15c	С	C(TS)
344	SR-44-14-58 portion as described	Trout Brook	Enters Tioughn.oga River from north- east 0.6 mile upstream from trib. 57 and 1.0 mile southeast of southeast corner of City of Cortland. Mouth to 0.5 mile upstream of trib. 8.	K-15c K-15d	D	D
1.1	SR-44-14-58 portion as described	Trout Brook	From 0.5 mile upstream of trib. 8 to source.	K-15d K-16c	C	C(TS)

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7-31-77



TABLE I CLASSIFICATIONS AND STANDARDS OF OUAL PTV AND DUDINU UNITED AND AND STANDARDS OF OUAL PTV AND DUDINU UNITED AND
SUSQUEHANNA RIVER BORDERING OR FLOWING THROUGH THE COUNTIES OF TIOCA PROCESSIONED TO THE WATERS OF THE
DELAWARE AND OTSEGO

Item No.	Waters Index Number	Name	Description	Map Ref. No.	Class	Standards
1		Susquehanna River	From New York-Pennsylvania State line near Waverly, New York, to 3.0 miles downstream	M-14	В	в
		7.5	from western boundary of Owego Village.			
2		Susquehanná River	From 3.0 miles downstream from western boundary of Owego Village to eastern boundary of Owego Village.	M-14 M-15	С	с
3		Susquehanna River	From eastern boundary of Owego Village to Tioga-Broome County boundary line southwest of Endicott Village.	M-15	B	В
4		Susquehanna River	From Tioga-Broome County boundary line southwest of Endicott Village to Rock Bottom Dam in Binghamton, New York.	M-15 M-16c	с	с
5		Susquehanna River	From Rock Bottom Dam In Binghamton, New York, to one mile southeast of bridge that crosses the Susquehanna River at Conklin, New York.	M-16c M-16d	A	A

4111 CN 7-31-77

School. F 22 is on trib. 2 of Little Choconut Creek and 0.2 mile northeast of Main Street and Lester Avenue in Johnson City.





TABLE I (contd.)

Item No.	Waters Index Number	Name	Description	Map Ref. No.	Class	Standards
142	SR-40 and tribs., 41 and tribs., 42, 43 and tribs.	Tribs. of Susque- hanna River	Enter Susquehanna River along southerly bank in section beginning 1.0 mile upstream from Little Choconut Creek and 0.5 mile southeast of Willow Point and extending up- stream to a point 0.6 mile downstream from mouth of Chenango River in City of Binghamton.	M-16c	D	D
1 43	SR-44 portion as described	Chenango River	Enters Susquehanna River from north at City of Binghamton. Mouth to trib. 41 which enters from north- west 2.0 miles southwest of Village of Oxford.	M-16c M-16a M-16b L-16 L-17	В	В
144	SR-44 portion as described	Chenango River	From trib. 41 to trib. 47 which enters from west 1.0 mile north of south line of Town of Norwich.	L-17	С	С
144a	SR-44 portion as described	Chenango River	From trib. 47 to Norwich- North Norwich town line 0.5 mile north of Woods Corners.	L-17 K-17d	D	D







TELEPHONE CONVERSATION MEMORANDUM

CLIENT NYSDEC PROJ. No. (04339) 06281 H# PROJECT GAF DUMP DATE __ 10/30/86 TIME _____ 9:50 AM CALL TOFROM Mr. Griffin, Mar. Utilities REPRESENTING ANitec PHONE NO. (607) 774 - 3333 SUMMARY OF CONVERSATION: Mr. Giffin stated that I wells are located at the slont, these wells abtein water which is used for cooling purpose only Domentic Water Comer from municipal septem -------4 . Dar COPIES TO: WEHRAN ENGINEERING CONSULTING ENGINEERS

TELEPHONE CONVERSATION MEMORANDUM

CLIENT NYSDEC Phase I Round 3	PROJ. No	4339 EX
PROJECT GAF Dump	DATE	May 17, 1985
	TIME3	:40 p.m.
CALL TO/FROMClaudia Stollman	REPRESENTIN	G Broome County
PHONE No. (607) 772-2116	_	Environmental Mgt. Counci
SUMMARY OF CONVERSATION:		

Re: Location of City of Binghamton Water Supply Intake City uses Susquehana River water above confluence with Chenango River. John Kowalchyk no longer there.

COPIES TO:

	4	A		0
BY:	tra	nDer	salis	(lm)

Fran Geissler



EPA FORMS 2070-12 AND 2070-13

I

&EPA	POTENTIAL HAZ PRELIMINAF PART 1 - SITE INFORM	ARDOUS	WASTE SI SSMENT ND ASSESSI	TE	L IDENTI	FICATION D2 SITE NUMBER 704011	
L SITE NAME AND LOCATION							
1 SITE NAME (Logal common, or obscinone nome of beer		02 STRE	ET. ROUTE NO., C	A SPECIFIC LOCATION	DENTIFIER		
GAF Dump		Seyn	nour Stree	et			
		04 STATE	OS ZIP CODE	OB COUNTY		107COUNT	108 CC
Binghamton		NY	13902	Broome		COOE	
42° 06' 29" N	7 5° 55' 45" W						1
Take Clinton Street west, n	nake right onto Ch	arles St	reet, follo	ow to Seymou	r Street,	, site is or	rig
L RESPONSIBLE PARTIES						•	
I OWNER (I mann		02 STREE	T (Busines, many,	(Testiment)			
GAF Corporation		136	31 Alps Ro	ad			
3 CITY		04 STATE	OS ZIP CODE	OG TELEPHONE	NUMBER	1	
Wayne	•	NJ	07470	(201) 628	-3500		
OPERATOR (I known and allerent lives gamer)		OB STREE	T (demand, mang,	/244327124		1	
		10 STATE	11 ZP CODE	12 TELEPHONE	NUMBER	1	
A. PRIVATE B. FEDERAL: OWNER/OPERATOR NOTIFICATION ON FILE (Choice of a context)	(Agoney name) (Seecry) of See agony)			TE CD.COUNTY		NICIPAL	
Image: Start Provide and Start Prov	Agency and (Secon) 	LED WAST	C. STA G. UNK SITE/CRICLA // CTOR D F. OTHER:	TE CD.COUNTY NOWN DATE RECEIVE	E. MU		NON
CHARACTERIZATION OF POTENTIAL H. CHARACTERIZATION OF POTENTIAL H. CONSTEINSPECTION CHARACTERIZATION OF POTENTIAL H. CONSTEINSPECTION STEINSPECTION DATE 9, 24, 85 CONSTEINSPECTION STEINSPECTION CONSTEIN	(Approxy Americ (Souchy) AT YEAR AZARD SY (Cross of Discount) CALEPA CALEPA CONTRACTOR NAME(S):	LED WAST	CTOR C an Engine	TE CD.COUNTY NOWN DATE RECEIVE C. STATE 5 ering f	D. OTHER	NICIPAL	NON
A PRIVATE B. FEDERAL: B. FEDERAL: G. F. OTHER: G. F. OTHER: G. A. RCRA 3001 DATE RECEIVED: G. CHARACTERIZATION OF POTENTIAL H ON SITE INSPECTION STE INSPECTION STE INSPECTION STE INSPECTION STE INSPECTION STE STATUS (Channel and SITE STATUS (Chande) and SITE STATUS (Channel and SITE STATUS (Chande) and	AV TEAM AZARD SY (Chest of Statement) AX TEAM AZARD SY (Chest of Statement) CAL EPA CAL HEALTH OFI CONTRACTOR NAME(S): CONTRACTOR NAME(S): CONTRAC	LED WAST	CTOR CTOR	TE CD.COUNTY NOWN DATE RECEIVE D.C. STATE 5 ering f 1970's 5	E. MU		NON
A PRIVATE B. FEDERAL: B. FEDERAL: F OTHER: GOWNER/OPERATOR NOTIFICATION ON FILE (COMMER/OPERATOR NOTIFICATION ON FILE (COMMER/OPERATOR NOTIFICATION ON FILE (COMMER/OPERATOR NOTIFICATION OF POTENTIAL H ON SITE INSPECTION A. RCRA 3001 DATE RECEIVED: // MONTH DAY CHARACTERIZATION OF POTENTIAL H ON SITE INSPECTION SITE STATUS (COMMENSION A. ACTIVE \$28. MACTIVE C. UNIC OESCRIPTION OF SUBSTANCES POSSIBLY PRESEN Industrial, photchemical by- trichloroethylene, phenols a DESCRIPTION OF POTENTIAL MAZARD TO ENVIRON	AT FRANCISCO POPULATION	LED WAST PA CONTRA FICIAL C Wehr Manon Iid-1940 Homeove silver, eystaffs	CTOR CTOR	TE CD.COUNTY NOWN DATE RECEIVE D.C. STATE 5 ering f 1970's 5 2 YEAR	DE MU	NICIPAL	NON
A PRIVATE B. FEDERAL: B. FEDERAL: F. OTHER: GOWNER/OPERATOR NOTFICATION ON FLE (COMMAND A RCRA 3001 DATE RECEIVED: MONTH	AZARD ST (Dress of PERCENT) AX YEAN AZARD ST (Dress of PERCENT) CALLEGED CONTRACTOR NAME(S): CONTRACTOR NAM	A CONTRAC FICIAL C Wehr Anton Iid-1940 Starson ve silver, eystaffs	CTOR C TR E STTE (CRRCLA 14 CTOR C D F. OTHER: an Engine D's Mid- AM CROM	TE CD.COUNTY NOWN DATE RECEIVE D.C. STATE 5 ering f 1970's C 1970's C 1970's C	DE MU	NICIPAL	
Image: Start of the start	(Approxy across) (App	LED WAST	CTOR CTOR	TE CD.COUNTY NOWN DATE RECEIVE C.STATE 5 ering f 1970's 5 vem 5 , t-1,2 dichlor	E MU	NICIPAL	
A PRIVATE B. FEDERAL: C F. OTHER: CONNERVOPERATOR NOTIFICATION ON FILE (COMMERVOPERATOR NOTIFICATION ON FILE (COMMERVOPERATOR NOTIFICATION ON FILE (COMMERVOPERATOR NOTIFICATION ON FILE (COMMERVOPERATOR NOTIFICATION OF POTENTIAL H ON SITE INSPECTION A RCRA 3001 DATE RECEIVED: ON SITE INSPECTION A ACTIVE DATE 9, 24, 85 NO SITE STATUS (COMMENSUM ORIGINAL STATUS (COMM	(Secord)	LED WAST A CONTRA FICIAL C Wehr Manon Iid-1940 silver, eystaffs e waters	CTOR CTOR D.F. OTHER: an Engine D's Mid- Mid- Cadmium, Cadmium, Cadmium, Cadmium, Cadmium, Cadmium, Cadmium,	TE CD.COUNTY	DE MU	NICIPAL	
A PRIVATE B. FEDERAL: A PRIVATE B. FEDERAL: F OTHER: A RCRA 3001 DATE RECEIVED: A ACTIVE \$ A RCRA 3001 DATE RECEIVED: A ACTIVE \$ A RCRA 3001 DATE RECEIVED: A RCRA 3001 DATE RECEIVED: A ACTIVE \$ A RCRA 3001 DATE RECEIVED: A ACTIVE \$ A ACTIVE \$ A RCRA 3001 DATE RECEIVED: A ACTIVE \$ A ACTIVE \$ A RCRA 3001 DATE RECEIVED: A ACTIVE \$ A ACTIVE \$ A ACTIVE \$ A ACTIVE \$ A RCRA 3001 DATE RECEIVED: A ACTIVE \$	(Secon) (LED WAST	CTOR CTOR CTOR CTOR CTOR CTOR CTOR CTOR CAMBER: COMMER: CAMBINE CAMMIUM, C	TE CD.COUNTY NOWN DATE RECEIVE C.STATE 5 ering 6 1970's 7 1970's 7	DE MU		
SITE STATUS (Constrained A ACTIVE STATUS (Constrained Constrained of potential and the constrained Constrained of potential H Constrained of potential H Constrained of the constrained Constrained of the constrained Constrained of the constrained of the constrained Constrained of the constrained of the constrained of the constrained Constrained of the constrained	(Approxy America (Seecory) (Seecory) (Seecory) (A EPA B. UNCONTROM A EPA B. UNCONTROM CONTRACTOR NAME(S): O3 YEARS OF OPE O1 YEARS O1 YEARS O1 YEARS	LED WAST	CTOR C. STA'	TE CD.COUNTY NOWN DATE RECEIVE D.C. STATE 5 ering f 1970's C 1970's C 1970's C 1970's C 1970's C	E MU	NECIPAL NY YEAA CONTRACTOR ne, 0 0 0 0 0 0 1 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	

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0 55	 >A	PO	TENTIAL HAZAF	RDOUS WASTI	ESITE	L IDENTIFICAT	ION
~Er	<i>Ά</i>		PRELIMINANT PART 2 · WAST	ASSESSMEN EINFORMATIOI	T N	NY 704	011
WASTE ST	ATES, QUANTITIES, AN	ND CHARACTER	IISTICS				
1 PHYSICAL ST	ATES (Check at that abory)	C2 WASTE QUANT	TTY AT SITE	03 WASTE CHARAC			
	T.E. SLURRY				DSIVE C.F. INFE	UBLE CIMGHLY	VOLATILE SIVE
I 8. POWDER. FINES INF LICUID I C. SLUDGE I G. GAS		TONS .	IInknown	C. C. RADIO	ACTIVE X G. FLAN	MMABLE C K. REACT	NE PATIRI E
C D. OTHER	(Souchy)	CUBIC YARDS ,		AU. PERSISTENT _ H. IGALI			PUCABLE
	YPE			1			
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASUR	IE 03 COMMENTS		
SLU	SLUDGE						
OLW	OILY WASTE	<u></u>	1				
SOL	SOLVENTS	······································	1				<u></u>
PSD	PESTICIDES		1	1			
	OTHER ORGANIC CI	HEMICALS	unknown				
IOC	INORGANIC CHEMIC	CALS					
ACD	ACIDS		+				
BAS	BASES		+	1			
MES	HEAVY METALS		unknown				
V. HAZARDC	OUS SUBSTANCES (See A	Appandes for most frequer	nev case CAS Numbers)	1	<u></u>		
1 CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE/DI	SPOSAL METHOD	05 CONCENTRATION	06 MEASURE O
OCC	t-1,2 dichloroe	ethylene	156-60-5	spilled on s	surface	unknown	
occ	trichloroethyle	ene	79-01-6	spilled on	surface	unknown	
MES	silver		1	spilled on	surface	unknown	
MES	cadmium		+	spilled on	surface	Lunknown	1
SOL	phenol		108-95-2	spilled on	surface	unknown	† ·
				China	June		1
		, 				1	
		,					
+			+				
			+				1
+			+	<u> </u>	<u> </u>	+	+
+							+
+				<u> </u>			+
				<u> </u>			
						+	+
			4	<u> </u>			
l				L		<u></u>	
V. FEEDSTOC	JKS (See Adjence to CAS Menter	arti	1			1	
CATEGORY	01 FEEDSTOC	X NAME	02 CAS NUMBER	CATEGORY	OT FEEDST		02 CAS NUMBE
FDS				FDS			
FDS			!	FDS	<u> </u>		
FDS			!	FDS	<u> </u>		
FDS				FDS	<u> </u>		
VL SOURCES	OF INFORMATION (Concernment)	LBOCHE /DIOYONESS, 0.8.	, State Mail, partain energing, r	496778 j	<u></u>		

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DOTENTIAL	HAZARDOUS WASTE SITE	L IDENTIF	ICATION
SEPA PREL	IMINARY ASSESSMENT	OT STATE OF	704011
PART 3- DESCRIPTION CF	MAZAADOUS CONDITIONS AND STOL		
AZARDOUS CONDITIONS AND INCIDENTS			3 ALLEGED
Under certain environmental condition flow gradient such that flow is from si	ns potential exists for cone of d te towards Johnson City well fi	epressions to chan ield.	nge groundwa
C.B. SURFACE WATER CONTAMINATION UNKNOWN	02 COBSERVED (DATE:		X ALLEGED
Site is 200' uphill from Trout Brook st	corm sewer (66") which discharg	ges to Chenango R	liver
) C POTENTIAL	C ALLEGED
No detection of contamination of air u investigation, September 24, 1985.	sing Organic Vapor Analyzer du	ıring Wehran Engi	neering site
1 C D. PRE/EXPLOSIVE CONDITIONS 3 POPULATION POTENTIALLY AFFECTED:	C2 C OBSERVED (DATE:		C ALLEGED
None			
		_) C POTENTIAL	
None 1 C E ORECT CONTACT 3 POPULATION POTENTIALLY AFFECTED: No direct contact has been documented	02 COSSERVED (DATE: 04 NARRATIVE DESCRIPTION d, causing injury to humans or a) C POTENTAL	C ALLEGED
None $1 \subseteq E$ ORECT CONTACT 3 POPULATION POTENTIALLY AFFECTED: No direct contact has been documented 01Σ F. CONTAMINATION OF SCL unknown	02 C CBSERVED (DATE: 04 NARRATIVE DESCRIPTION d, causing injury to humans or a 02 C CBSERVED (DATE: 04 NARRATIVE DESCRIPTION	nimals.	C ALLEGED
None 1 \Box E DRECT CONTACT 3 POPULATION POTENTIALLY AFFECTED: No direct contact has been documented D1 Σ F. CONTAMINATION OF SOL 3 AREA POTENTIALLY AFFECTED: <u>unknown</u> Waste liquids were spilled out of 55-ga	02 C CBSERVED (DATE: 04 NARRATIVE DESCRIPTION d, causing injury to humans or a 02 C CBSERVED (DATE: 04 NARRATIVE DESCRIPTION llon drums onto soil surface.	_) C POTENTIAL	C ALLEGED
None 1 \Box E DRECT CONTACT 3 POPULATION POTENTIALLY AFFECTED: No direct contact has been documented by Σ F. CONTAMINATION OF SOL 3 AREA POTENTIALLY AFFECTED: <u>unknown</u> Waste liquids were spilled out of 55-ga Waste liquids were spilled out of 55-ga 12 G. OFINKING WATER CONTAMINATION 18,102	02 C CBSERVED (DATE: 04 NARRATIVE DESCRIPTION d, causing injury to humans or a 02 C CBSERVED (DATE: 04 NARRATIVE DESCRIPTION llon drums onto soil surface.	_) C POTENTIAL animals) C POTENTIAL _) C POTENTIAL	C ALLEGED
None $1 \subseteq \text{E}$ ORECT CONTACT 3 POPULATION POTENTIALLY AFFECTED: No direct contact has been documented $1 \subseteq F$. CONTAMINATION OF SOL 3 AREA POTENTIALLY AFFECTED: Waste liquids were spilled out of 55-ga $1 \le 3$. CRINKING WATER CONTAMINATION 18,102 13 POPULATION POTENTIALLY AFFECTED: 18,102 Under certain environmental condition flow gradient such that flow is from site	O2 C CBSERVED (DATE: O4 NAARATIVE DESCRIPTION d, causing injury to humans or a O2 C CBSERVED (DATE: O4 NARRATIVE DESCRIPTION llon drums onto soil surface.	nimals.	C ALLEGED
None I C E ORECT CONTACT 3 POPULATION POTENTIALLY AFFECTED: No direct contact has been documented DI X F. CONTAMINATION OF SCL unknown Jack Waste liquids were spilled out of 55-ga Waste liquids were spilled out of 55-ga DI X G. DRINKING WATER CONTAMINATION 18,102 Under certain environmental condition flow gradient such that flow is from site DI C H. WORKER EXPOSURE TALLY AFFECTED:	02 C CBSERVED (DATE: 04 NARRATIVE DESCRIPTION d, causing injury to humans or a 02 C CBSERVED (DATE: 04 NARRATIVE DESCRIPTION llon drums onto soil surface. 02 C CBSERVED (DATE: 04 NARRATIVE DESCRIPTION s, potential exists for cone depi te towards Johnson City. 02 C CBSERVED (CATE:		C ALLEGED C ALLEGED e groundwate C ALLEGED
None 1 C E ORECT CONTACT 3 POPULATION POTENTIALLY AFFECTED: No direct contact has been documented 1 E F. CONTAMINATION OF SOL 3 AREA POTENTIALLY AFFECTED: Unknown Waste liquids were spilled out of 55-ga 11 E G. DRINKING WATER CONTAMINATION 18,102 13 POPULATION POTENTIALLY AFFECTED: Under certain environmental condition flow gradient such that flow is from sit 21 C H. WORKER EXPOSURE/PLURY 23 WORKERS POTENTIALLY AFFECTED: Unknown	O2 C CBSERVED (DATE: O4 NARRATIVE DESCRIPTION d, causing injury to humans or a O2 C CBSERVED (DATE: O4 NARRATIVE DESCRIPTION llon drums onto soil surface. 02 C CBSERVED (DATE: 04 NARRATIVE DESCRIPTION s, potential exists for cone depr te towards Johnson City. 02 C CBSERVED (DATE: 02 C CBSERVED (DATE:)	L) C POTENTIAL animals. L) C POTENTIAL ression to change L) C POTENTIAL	C ALLEGED C ALLEGED c ALLEGED e groundwater c ALLEGED
None I C I. POPULATION POTENTIALLY AFFECTED: Unknown Unknown I C I. POPULATION EXPOSURE/INJURY C POPULATION POTENTIALLY AFFECTED: Unknown I C I. POPULATION EXPOSURE/INJURY C POPULATION POTENTIALLY AFFECTED:	O2 C CBSERVED (DATE: O4 NARRATIVE DESCRIPTION d, causing injury to humans or a O2 C CBSERVED (DATE: O4 NARRATIVE DESCRIPTION llon drums onto soil surface. 02 C CBSERVED (DATE: 04 NARRATIVE DESCRIPTION s, potential exists for cone depute te towards Johnson City. 02 C CBSERVED (CATE: 02 C CBSERVED (CATE: 02 C CBSERVED (CATE: 04 NARRATIVE DESCRIPTION	_) C POTENTIAL	C ALLEGED C ALLEGED C ALLEGED C ALLEGED C ALLEGED
None I C E ORECT CONTACT 3 POPULATION POTENTIALLY AFFECTED: No direct contact has been documented DI E F. CONTAMINATION OF SOL 3 AREA POTENTIALLY AFFECTED: Unknown Access Waste liquids were spilled out of 55-ga DI E G. DEINKUNG WATER CONTAMINATION 18,102 Under certain environmental condition flow gradient such that flow is from sit 10 C H. WORKER EXPOSURE/INJURY 23 WORKERS POTENTIALLY AFFECTED: Unknown 1 C I. POPULATION EXPOSURE/INJURY 23 POPULATION POTENTIALLY AFFECTED: Unknown	02 C CBSERVED (DATE: 04 NARRATIVE DESCRIPTION d, causing injury to humans or a 02 C CBSERVED (DATE: 04 NARRATIVE DESCRIPTION llon drums onto soil surface. 02 C CBSERVED (DATE: 04 NARRATIVE DESCRIPTION s, potential exists for cone depi te towards Johnson City. 02 C CBSERVED (DATE: 02 C CBSERVED (DATE: 04 NARRATIVE DESCRIPTION 02 C CBSERVED (DATE: 04 NARRATIVE DESCRIPTION	L) C POTENTIAL	C ALLEGED C ALLEGED C ALLEGED C ALLEGED

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2) EPA	POTENTIAL H PRELIM PART 3 - DESCRIPTION OF HA	AZARDOUS WASTE SITE AINARY ASSESSMENT AZARDOUS CONDITIONS AND INCIDENT	L IDENTIFI 01 STATE 02 NY	CATION STE NUMBER 704011
AZARDOUS CONDIT	IONS AND INCIDENTS (Comment			
C J. DAMAGE TO FLOF NARRATIVE DESCRIPTX	ra ON	02 🖸 OBSERVED (DATE:)	- POTENTIAL	
Unknown				
C K. DAMAGE TO FAU NARRATIVE DESCRIPTK	NA DN (Incluse nemote) of sectors)	02	C POTENTIAL	C ALLEGED
Unknown				
C L CONTAMINATION (NARRATIVE DESCRIPTIC	OF FOOD CHAIN ON	02 [] OBSERVED (DATE:)	C POTENTIAL	C ALLEGED
Unknown				
M. UNSTABLE CONT	AINMENT OF WASTES	02 C OBSERVED (DATE:)		ALLEGED
Under cer groundwa	tain environmental condition ter flow gradient such that	tions, potential exists for cone of t flow is from site towards Johns	depression to on City well f	change 'ield.
C N. DAMAGE TO OFF	SITE PROPERTY ON	02	C POTENTIAL	C ALLEGED
Unknown		<u> </u>		
& O. CONTAMINATION NARRATIVE DESCRIPTIC	OF SEWERS, STORM DRAINS, WWTPS	02 C OBSERVED (DATE:)	X POTENTIAL	I ALLEGED
Trout Bro	ook storm sewer (66") 200'	from site with laterals adjacent t	to site.	
T P. ILLEGAL/UNAUTH	KORIZED DUMPING	02 2 OBSERVED (DATE:)	C POTENTIAL	C ALLEGED
Unknown				
DESCRIPTION OF ANY	OTHER KNOWN, POTENTIAL, OR ALLE	GED HAZAROS		
Unknown				
	POTENTIALLY AFFECTED: 18	, 102		
TOTAL POPULATION COMMENTS				
TOTAL POPULATION COMMENTS				
TOTAL POPULATION COMMENTS	MATION (Che sosche revenues, s. g., state fact		· · · · · · · · · · · · · · · · · · ·	

SEPA	POT PART 1 - SITE	ENTIAL HAZAR SITE INSPECT LOCATION AND	DOUS	WASTE SITI		I. IDENTI OI STATE NY	FICATION 02 SITE NUMBER 704011
IL SITE NAME AND LOC	ATION						
CAE Dure a	r descriptive name of sales		02 STREE	T. HOUTE NO., OF	SPECIFIC LOCATION I	DENTIFIER	******
GAF Dump			Sey	Hour Stree			
Binghamton			NY	13902	Broome		07 COUNTY OS CON CODE DIST
4 3° 4 06 29"N	75° 10,557,1045" W	S A PRIVATE		XERAL). County 2. Unknow	C E MUNICIPAL
01 DATE OF INSPECTION 9,24,85 MONTH DAY YEAR	02 STE STATUS C ACTIVE S INACTIVE	OJ YEARS OF OPERAT Mid	i-1940'	s Mid-19	70's0	INKNOWN	
AGENCY PERFORMING INS ALEPA D.B. EPA C D.E. STATE D.F. STATE	PECTION (Creat of Perform) ONTRACTOR CONTRACTOR Wehran (E	ngineering	□ с. ми □ с. от	NICEPAL CD.	MUNICIPAL CONTR.		(Name of trans
Enonces C. C.		De TITLE		iolict	07 OFIGANIZAT	XON	08 TELEPHONE NO.
Frances C. Geis	sier	Regulator	y spec	ialist	Wehran	Eng.	914)3443-0660
Karen Maloy		Staff Scie	ntist		Wehran	Eng.	12 TELEPHONE NO. (914) 343-0660
Terrance R. Hae	elen	Staff Geole	ogist		Wehran	Eng.	(914)343-0660
							()
							()
3 SITE REDRESENTATIVE & MO							()
C.F. Bien		Director Env Engineering	vir. 1	361 Alps R	d., Wayne, N.	J 07470	18 TELEPHONE NO (201) 628-3500
							()
							()
							()
			-				()
	/						()
ACCESS GAINED BY		19 WEATHER CONCE					
Check cand 2 PERMISSION C WARRANT	2:15 p.m.	rainy, 5	5° F				
INFORMATION AVAIL	ABLE FROM	·····					
Dennis G. Fenn		Wehran Engi	ineerin	g			а те <u>l</u> ерноме мо. 914) 343-0660
A PERSON RESPONSIBLE FOR	SITE INSPECTION FORM	05 AGENCY	08 ORGA	AZATION	07 TELEPHONE NO	. 04	B CATE
~ ~ .	al					i	

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\$E₽	PA	PO	TENTIAL HAZA	RDOUS WASTE	SITE	I. IDENTIFICAT	number 011
			PARI 2. WASI	EINFORMATION			
I. WASTE ST	TATES, QUANTITIES, AN	DCHARACTER	IISTICS	Leavester	5045700 ···		·····
I PHYSICAL S	TATES (Check at that appry)	C2 WASTE QUANT	al weste duernikee	03 WASTE CHARACT	EPISTICS (Check of that sopy)		
C & SOLIO	C.E. SLURRY R. FINES DUE LIQUED) /////////////////////////////////////		SIVE D.F. INFECTIO	us DJ. Explo	SIVE
			· · · · · · · · · · · · · · · · · · ·	C. C. RADIOA	ICTIVE 🖄 G. FLAMMAR TENT 🗆 H. KONITABLI	E CIK. REACT	ITVE APATIBLE
0. OTHER	(Specity)	NO. OF DRUMS				I M. NOT A	PPLICABLE
IL WASTE T	YPE						
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS	·	
SLU	SLUDGE			T			
OLW	OILY WASTE						
SOL	SOLVENTS		unknown				
PSD	PESTICIDES						
220	OTHER ORGANIC CH	EMICALS	unknown				
00	INORGANIC CHEMIC	ALS					
ACD	ACIDS						
240	BASES						
DAG	BAGES		lunknown				
MES				1	L		
A HAZARD	OUS SUBSTANCES (See As		By cled CAS Manbork	1			A MEASURE (
	t 1 2 dichlone of	AME	03 CAS NUMBER	04 STCRAGE/DIS	POSAL METHOD 0	5 CONCENTRATION	CONCENTRATI
000	t-1,2 dicinoroe	.nytene	100-00-0	spilled onto g	ground surface	unknown	
OCC	trichloroethylen	e	79-01-6	spilled onto g	ground surface	unknown	
MES	silver			spilled onto	ground surface	<u>unknown</u>	
MES	Cadmium			spilled onto	ground surface	unknown	
SOL	phenol		108-95-2	spilled onto	ground surface	unknown	
			1	1			
•		•••					
		e '	1				
			1				
			+				+
			+				
. FEEDSTO	CXS (See Appendix for CAS Munici	-					
CATEGORY	01 FEEDSTOC	KNAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK	NAME	02 CAS NUMBE
FOS				FDS			
FDS			1	FDS			
FOS				FDS			
FDS				FDS			
	S OF INFORMATION			11			
	NYSDEC Wehran Si	File data, A te Inspectic	lbany, Region 9/24/85	1 4			

EPA FORM 2070-13(7-81)

	SOTEN7141	HAZABOOIS WASTE SITE		LIDENTIFI	CATION
SEPA PARTS-DES	SITE INSP	ECTION REPORT HAZARDOUS CONDITIONS AND IN	CIDENT	S	04011
L HAZARCOUS CONDITIONS AND INCID	ENTS				
01 S & GROUNDWATER CONTAMINATION C3 POPULATION POTENTIALLY AFFECTED:	18,102	02 C CBSERVED (DATE:)	C POTENTIAL	3 ALLEGED
Under certain environment flow gradient such that flo	al conditior w is from si	ns potential exists for cone of te towards Johnson City well	depre: field.	ssions to chan	ge groundwate
01 229. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	unknown	02 C OBSERVED (DATE:)	C POTENTIAL	ALLEGED
Site is 200' uphill from Tro	out Brook st	corm sew er (66") which discha	rges to	o Chenango Ri	iver
01 S C. CONTAMINATION OF AR			}	I POTENTIAL	C ALLEGED
No detection of contaminat investigation, September 2	ion of air u 4, 1985.	sing Organic Vapor Analyzer	during	Wehran Engir	neering site
01 I D. FREEDLOSVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:		02 C OBSERVED (DATE:)	C POTENTIAL	C ALLEGED
None					
01 C E DRECT CONTACT 33 POPULATION POTENTIALLY AFFECTED:		02 C OBSERVED (DATE:	,	C POTENTIAL	C ALLEGED
No direct contact has been	documented	d, causing injury to humans or	• anima	als.	•
31 X F. CONTAMINATION OF SOL 33 AREA POTENTIALLY AFFECTED: Unkn Waste liquids were spilled o	uown ut of 55-gal	02 CBSERVED (DATE: C4 NARRATIVE DESCRIPTION llon drums onto soil surface.)	C POTEMIAL	g aleged
01 X G. OFINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	18,102	02 C OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	}	& POTENTIAL	
Under certain environmenta flow gradient such that flow	l conditions is from sit	s, potential exists for cone de le towards Johnson City.	pressio	on to change	groundwater
31 C H. WORKER EXPOSURE/MULIRY 33 WORKERS POTENTIALLY AFFECTED:		02 COBSERVED (DATE:		C POTENTIAL	C ALLEGED
Unknown					
01 CI. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:		02 C OBSERVED (DATE:)	C POTENTIAL	CALLEGED
Unknown	[• • • • «بني يو . • • . • -			

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	POTENTIAL H	AZARDOUS WASTE SITE	L IDENTIF	ICATION
2,EDA	SITE INSI	PECTION REPORT	01 STATE 102	STE NUMBER
	PART 3 - DESCRIPTION OF HA	ZARDOUS CONDITIONS AND INCIDENT	S NI	704011
AZARDOUS CONDI	TIONS AND INCIDENTS Comment			
I J. DAMAGE TO FLO	RA	02 C OBSERVED (DATE:)	Z POTENTIAL	C ALLEGED
NARPAINE DESCRIPT	XCN .			
Unknown				
C K. DAMAGE TO FAL	ANA	C2 C C8SERVED (DATE:)	C POTENTIAL	
HARRATIVE DESCRIPT	CH (Include Administ) of Education			
Unknown				
•				
	OF FOOD CHAIN	02 C 085ERVED (DATE:)	C POTENTIAL	T ALLEGED
VARRATIVE DESCRIPT	1CN			
Unknown				
X M. UNSTABLE CON	TANMENT OF WASTES		POTENTIAL	Xuises
CONVARIANT SURVEY	ALLY AFFECTED: 18.102	OA NABRATIVE DESCRIPTION		
Under ce	rtain environmental condit	ions, potential exists for cone of	depression to	change
groundwa	ater flow gradient such that	t flow is from site towards Johns	on City well f	field.
L N. DAMAGE TO OFF	ICN	02 🖸 OBSERVED (DATE:)	C POTENTIAL	C ALLEGED
Unknown				
CHRIIOWI		~ .		
-				
I O. CONTAMINATION NARRATIVE DESCRIPTI	OF SEWERS, STORM DRAINS, WWTPS CN	02 C OBSERVED (DATE:)	X POTENTIAL	- ALLEGED
I O. CONTAMINATION NARRATIVE DESCRIPTI	NOF SEWERS, STORM DRAINS, WWTP& CH	02 C OBSERVED (DATE:)	X. POTENTIAL	
C O. CONTAMINATION IARRATIVE DESCRIPTI Trout Bro	CF SEWERS, STORM DRAINS, WWTP CN Dok storm sewer (66") 200'	oz ⊂ OBSERVED (DATE:) from site with laterals adjacent t	CO site.	
C O. CONTAMINATION HARRATIVE DESCRIPTI Trout Bro	of sewers, storm drains, wwith cn book storm sewer (66") 200'	02 C OBSERVED (DATE:) from site with laterals adjacent t	x potential	_ ALLEGED
C O. CONTAMINATION MARRATIVE DESCRIPTI Trout Bro	CF SEWERS, STORM DRAINS, WWTP CN Dok storm sewer (66") 200' 	02 C OBSERVED (DATE:) from site with laterals adjacent t 02 C OBSERVED (DATE:)	C POTENTIAL	C ALLEGED
C O. CONTAMINATION HARRATIVE DESCRIPTI Trout Bro C P :LLEGAL UNAUTI HARRATIVE DESCRIPTI LINKNOWN	CRIZED CUMPING	02 C OBSERVED (DATE:) from site with laterals adjacent t 	C POTENTIAL	
CO. CONTAMINATION ARRATIVE DESCRIPTI Trout Bro Integrative description Unknown	CF SEWERS, STORM DRAINS, WWTP CN Dok storm sewer (66") 200' 	02 C OBSERVED (DATE:) from site with laterals adjacent t 02 C OBSERVED (DATE:)	C POTENTIAL	C ALLEGED
C O. CONTAMINATION HARRATIVE DESCRIPTI Trout Bro C P :LLEGAL UNAUT HARRATIVE DESCRIPTI Unknown	CRIZED DUMPING	02 C OBSERVED (DATE:) from site with laterals adjacent t 	C POTENTIAL	C ALLEGED
CONTAMINATION NARRATIVE DESCRIPTI Trout Bro Description of any	OF SEWERS, STORM DRAINS, WWTP CN DOOK STORM SEWER (66") 200' HORIZED CUMPING CN OTHER KNOWN, POTENTIAL OR ALLEC	02 C OBSERVED (DATE:) from site with laterals adjacent t 02 C OBSERVED (DATE:) SED HAZAROS	C POTENTIAL	C ALLEGED
CO. CONTAMINATION NARRATIVE DESCRIPTION Trout Bro C P ILLEGAL UNAUTION VARPATIVE DESCRIPTION Unknown	OF SEWERS, STORM DRAINS, WWTPA CN Dok storm sewer (66") 200' 	02 C OBSERVED (DATE:) from site with laterals adjacent t 02 C OBSERVED (DATE:) C2 C OBSERVED (DATE:)	C POTENTIAL	C ALLEGED
C O. CONTAMINATION NARRATIVE DESCRIPTI Trout Bro C P LLEGAL UNAUTI VARRATIVE DESCRIPTI Unknown DESCRIPTION OF ANY Unknown	OF SEWERS, STORM DRAINS, WWTPA ON DOOK STORM SEWER (66") 200" 	02 C OBSERVED (DATE:) from site with laterals adjacent t 02 C OBSERVED (DATE:) C2 C OBSERVED (DATE:)	C POTENTIAL	
CO. CONTAMINATION NARRATIVE DESCRIPTI Trout Bro C P ILLEGAL UNAUTI MARATIVE DESCRIPTI Unknown	OF SEWERS, STORM DRAINS, WWTPA ON Dook storm sewer (66") 200' 	02 C OBSERVED (DATE:) from site with laterals adjacent t 02 C OBSERVED (DATE:) -	C POTENTIAL	C ALLEGED
CTAL POPULATION	OF SEWERS, STORM DRAINS, WWTPA CN Dok storm sewer (66") 200' HORIZED DUMPING CN OTHER KNOWN, POTENTIAL OR ALLEC 1 POTENTIALLY AFFECTED: 18,	02 C OBSERVED (DATE:) from site with laterals adjacent t 02 C OBSERVED (DATE:) C2 C OBSERVED (DATE:)	C POTENTIAL	C ALLEGED
CTAL POPULATION	OF SEWERS, STORM DRAINS, WWTPA CN DOOK STORM SEWER (66") 200' HORIZED CUMPING CN OTHER KNOWN, POTENTIAL OR ALLEC N POTENTIALLY AFFECTED: 18,	02 C OBSERVED (DATE:) from site with laterals adjacent t 02 C OBSERVED (DATE:) SED HAZAROS	C POTENTIAL	C ALLEGED
CTAL POPULATION	OF SEWERS, STORM DRAINS, WWTPA CN Dook storm sewer (66") 200' -CRIZED CUMPING CN OTHER KNOWN, POTENTIAL OR ALLEC 1 POTENTIALLY AFFECTED: 18,	02 C OBSERVED (DATE:) from site with laterals adjacent t 02 C OBSERVED (DATE:) 	C POTENTIAL	
CTAL POPULATION	OF SEWERS, STORM DRAINS, WWTPA ON Dook storm sewer (66") 200" HORIZED CUMPING ON OTHER KNOWN, POTENTIAL OR ALLEC N POTENTIALLY AFFECTED: 18,	02 C OBSERVED (DATE:) from site with laterals adjacent t 02 C OBSERVED (DATE:) SED HAZAROS	C POTENTIAL	C ALLEGED
COLORIANIATION	OF SEWERS, STORM DRAINS, WWTPA CN Dook storm sewer (66") 200' -CRIZED CUMPING CN OTHER KNOWN, POTENTIAL OR ALLEC 1 POTENTIALLY AFFECTED: 18,	02 C OBSERVED (DATE:) from site with laterals adjacent t 02 C OBSERVED (DATE:) COBSERVED (DATE:)	C POTENTIAL	C ALLEGED
CONTAMINATION VARRATIVE DESCRIPTI Trout Bro Description Unknown Description of any Unknown Description of any Unknown Description of any Unknown	ACF SEWERS, STORM DRAINS, WWTPA CN Dok storm sewer (66") 200' HORIZED DUMPING CN OTHER KNOWN, POTENTIAL, OR ALLEC N POTENTIALLY AFFECTED: 18, MATION (Consecute references, 6, 6, 500 (Ref. 4	02 C OBSERVED (DATE:) from site with laterals adjacent t 02 C OBSERVED (DATE:) C D DATE:) SED HAZARCS	C POTENTIAL	C ALLEGED
CONTAMINATION ARRATIVE DESCRIPTI Trout Bro C P ILEGALUNAUTI ARRATIVE DESCRIPTI Unknown DESCRIPTION OF ANY Unknown CTAL POPULATION COMMENTS OURCES OF INFORM	ACF SEWERS, STORM DRAINS, WWTPA CN DOOK STORM SEWER (66") 200' HORIZED DUMPING CN OTHER KNOWN, POTENTIAL OR ALLEC N POTENTIALLY AFFECTED: 18, MATION (CHEMORE AND AFFECTED: 18, STORM CHEMORE AND	02 C OBSERVED (DATE:) from site with laterals adjacent t 02 C OBSERVED (DATE:) SED HAZAROS	C POTENTIAL	CALLEGED
COURCES OF INFORM	CRIZED CUMPING CN OOK STORM SEWER (66") 200' -CRIZED CUMPING CN OTHER KNOWN, POTENTIAL OR ALLEC 1 POTENTIALLY AFFECTED: 18, MATION (CH MORE PROVIDED IN 19, 200 (CH MORE) File data ection - Webran Engineerin	or 9/21/85	C POTENTIAL	

- J

	POTENTI	AL HAZA	RDOU	S WASTE SITE		LIDENTIFICATION
- SEPA		SITE INS	SPECT	ION		01 STATE 02 SITE NUMBER
	PART 4 - PERM	T AND DE	SCRIP	TIVE INFORMAT	ION	
IL PERMIT INFORMATION						
01 TYPE OF PERMIT ISSUED (Check at that appry)	02 PERMIT NUMBER	03 DATE	ISSUED	04 EXPIRATION DATE	05 COMMENTS	
D. RCRA						
G. STATE (Socort)		-				
H. LOCAL						
I. OTHER (Secondry)						
ØJ. NONE						<u> </u>
IL SITE DESCRIPTION					L	
1 STORAGE/DISPOSAL (Croce of the appry)	02 AMOUNT 03 UNIT (MEASURE	04 TR	EATMENT (Choose of these	** *71	05 OTHER
C 8. PILES _			08.0	JNDERGROUND INJ	ECTION	A. BUILDINGS ON SITE
			□ c. c	CHEMICAL/PHYSIC	L.	
L D. TANK, ABOVE GROUND _			0 D. E	BIOLOGICAL		
				NASTE OIL PROCES	Sing	OG AREA OF SITE
C F. LANOFILL	· · · · · · · · · · · · · · · · · · ·					,
Image: F. LANDFILL			□F.S □G.C	OLVENT RECOVER	Y RECOVERY	2
Image: F. LANDFILL		·	□ F.S □ G.C С(н.C	OLVENT RECOVER DTHER RECYCLING/ DTHER	RECOVERY	
F. LANOFIL G. LANDFARM G. LANDFARM H. OPEN DUMP A. OTHER Waste poured On surface (Security) 7 COMMENTS	unknown	·····	□ F.S □ G.C C(H.C	OLVENT RECOVER OTHER RECYCLING/ OTHERDODE (300	Y RECOVERY	2 (*****)
G. LANDFIL G. LANDFARM H. OPEN DUMP AL OTHER Waste poured On surface (Source) 7 COMMENTS Waste liquids spilled out	unknown of drums onto gro	ound sur:	face.	OLVENT RECOVER DTHER RECYCLING DTHER <u>none</u> (390		(Acres)
G. LANDFRL G. LANDFARM H. OPEN DUMP CAL OTHER Waste poured On surface (300000) 7 COMMENTS Waste liquids spilled out	unknown of drums onto gro	ound sur:	face.	OLVENT RECOVER OTHER RECYCLING OTHER <u>none</u> (See		2 (Aerrs)
G. LANDFRL G. LANDFARM H. OPEN DUMP CAL OTHER Waste poured on surface (Second) 7 COMMENTS Waste liquids spilled out	unknown of drums onto gro	bund sur	face.	OLVENT RECOVER OTHER RECYCLING OTHER <u>none</u> (39)		(Acres)
G. LANDFRL G. LANDFARM H. OPEN DUMP On surface (Second) 7 COMMENTS Waste liquids spilled out	unknown of drums onto gro	ound sur	face.	OLVENT RECOVER DTHER RECYCLING DTHER <u>none</u> (390	Y RECOVERY	(Acres)
G. LANDFRL G. LANDFARM H. OPEN DUMP CAL OTHER Waste poured On surface (300007) 7 COMMENTS Waste liquids spilled out	unknown of drums onto gro	bund sur	face.	OLVENT RECOVER DTHER RECYCLING DTHER <u>none</u> (300	Y RECOVERY	2(Aerrs)
C F. LANDFRL G. LANDFARM H. OPEN DUMP L. OTHER Waste poured on surface (Second) COMMENTS Waste liquids spilled out . CONTAINMENT	unknown of drums onto gro	bund sur	face.	OLVENT RECOVER DTHER RECYCLING DTHER <u>none</u> (39		2 (*****)
CONTAINMENT	unknown of drums onto gro	ound sur	face.	OLVENT RECOVER DTHER RECYCLING DTHER <u>none</u> (39		2(Acres)
	unknown of drums onto gro	ound sur:	face.	OLVENT RECOVER DTHER RECYCLING THER <u>none</u> (30)	Y RECOVERY	2 (Arrs)
	Unknown of drums onto gro D B. MOCERATE	ound sur:	face.	OLVENT RECOVER DTHER RECYCLING DTHER <u>none</u> (39)	Y RECOVERY	2 (Acres)
	unknown of drums onto gro D B. MODERATE MARKERS. ETC. a soil surface	ound sur	face.	OLVENT RECOVER DTHER RECYCLING THER <u>none</u> (300 (300 ATE, POOR	Y RECOVERY	RE, UNSOUND, DANGERCUS
CONTAINMENT CONTA	Unknown of drums onto gro D B. MOCERATE MARIERS. ETC. a soil surface	ound sur	face.	OLVENT RECOVER DTHER RECYCLING THER <u>none</u> (300 (300 ATE, POOR	Y RECOVERY	2 (Agres)
	of drums onto gro	ound sur:	face.	OLVENT RECOVER DTHER RECYCLING	Y RECOVERY	2 (Asres)
	of drums onto gro	ound sur:	face.	OLVENT RECOVER DTHER RECYCLING THER <u>none</u> (300 ATE, POOR	Y RECOVERY	2 (AGTES)
	of drums onto gro	ound sur:	face.	OLVENT RECOVER DTHER RECYCLING THER <u>none</u> (300 (300 ATE, POOR	Y RECOVERY	2 (Aerra)
	Unknown of drums onto gro D B. MODERATE NAMMERS. ETC. I soil surface	ound sur:	face.	OLVENT RECOVER DTHER RECYCLING	Y RECOVERY	2 (Aerra)
	UNKNOWN of drums onto gro D B. MOCERATE MARIERS. ETC. a soil surface b Č NO l cinders cover dis	posal ar	ea.	OLVENT RECOVER DTHER RECYCLING DTHER	Y RECOVERY	2 (Agres)
	Unknown of drums onto gro B. MODERATE MARKERS. ETC. I soil surface	posal ar	ea.	OLVENT RECOVER DTHER RECYCLING DTHER <u>none</u> (300 ATE, POOR	Y RECOVERY	RE. UNSOUNO, DANGEROUS
	Unknown of drums onto gro B. MOOERATE MARIERS. ETC. a soil surface	posal ar	ea.	OLVENT RECOVER DTHER RECYCLING DTHER	Y RECOVERY	2 (Aerrs)
	Unknown of drums onto gro D B. MOCERATE DAMEAS. ETC. a soil surface d cinders cover dis Engineeirng, 9/24/	posal ar	ea.	OLVENT RECOVER DTHER RECYCLING DTHER <u>none</u> (390 ATE, POOR	Y RECOVERY	2 (Asres)
	Unknown of drums onto gro B. MOCERATE MARIERS. ETC. a soil surface	posal ar	ea.	OLVENT RECOVER DTHER RECYCLING DTHER <u>none</u> (390 ATE, POOR	Y RECOVERY	2 Marts
	Unknown of drums onto gro B. MODERATE MARKERS. ETC. a soil surface cinders cover dis cinders cover dis Engineeirng, 9/24/	posal ar	ea.	OLVENT RECOVER DTHER RECYCLING	Y RECOVERY	IRE, UNSOUNO, DANGEROUS

Z
0 5 5 4		POTE	NTIAL HAZAI	RDOUS W	ASTE S	TE	L IDENT	FICATION	
<i>⇒</i> EPA		DART S. WATER	SITE INSPEC	TION REP	ORT		01 STATE NY	02 SITE NUMBER 704011	•
L DRINKING WATER		PART 3- WATER		IC, AND EN		IENTAL DATA			
01 TYPE OF DRINKING SUPP	LY		02 5747148		<u> </u>				
(Check as approach)	SI DEACE		ShiD ANOSD		~~~~		0308	IANCE TO SITE	
COMMUNITY	AX	B. CX	A DA	50 AFF61 8.		C. C	A		
NON-COMMUNITY	C. 🗆	0. 🗆	D. 🗆	٤.	٥	F. 🛛	B	(mi)	
IL GROUNDWATER									<u> </u>
A ONLY SOURCE FOR	R DRINKING	COMMERCIAL IN (CHIEF COMMERCIAL, IN (The other water source)	INI OUSTRIAL, IRRIGATIO es eventery	0 G. G. M	DAMAERCIAL Infod animy cour	, MOUSTRIAL, PRICAT	non 🗆 d.	NCT USED, UNUSI	EABLE
02 POPULATION SERVED BY	GROUND WATE	18, 102	-	03 DISTANC		ST DRINKING WATER V	VELL 2	(mi)	
04 DEPTH TO GROUNDWATE	R	os direction of gro	UNDWATER FLOW		AQUIFER	OF POTENTIAL YIEL	D 08:	SOLE SOURCE AC	UFER
30-50	_(17)	easterly		30-50	(ft)	2.5	MGD (cod)	Q YES	NO
O RECHARGE AREA	runoff di basin	rains to low e	enclosed	11 DISCHARG	ie Area Comment	13			
V. SURFACE WATER					· · · · · · · · · · · · · · · · · · ·				
SURFACE WATER USE (On SURFACE WATER USE (On CONTROL OF CONTROL O	REATION SOURCE	E 8. IRRIGATION IMPORTANT	I. ECONOMICALLY TRESOURCES	□ c. c	OMMERCU	AL, INDUSTRIAL	đão. Ng)T CURRENTLY	USED
NAME:	AFFECTED BODI	es of water				AFEROTED			
Trout B	rook Storr	n Sewer (66"))			AFFECTED		Adiacent	
Chenang	go River			· · · · · · · · · · · · · · · · · · ·		a			_ (mi)
									(mi)
. DEMOGRAPHIC AND	PROPERTY	NFORMATION							
	N Turo				02	DISTANCE TO NEARES	ST POPULATIC	N	
A NO. OF PERSONS	8	NO. OF PERSONS	C	86,902		1()0'	(mi)	
IS NUMBER OF BUILDINGS W	THIN TWO (2) MI	ES OF SITE		04 DISTANCE	TO NEARES	T OFF-SITE BUILDING			
-						100'			
s population within vice Site is r	ny of she (main	dential and co	ommercial n	eighborh	ood.	thesiy populated when are	V		
							.*		
			•						

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		POTENTIAL HAZ	ZARDOUS WAST	E SITE	I. IDENTIFICATION
s efa	PART	SITE INSPE	ECTION REPORT	• =	NY 704011
A ENVIRONMENTAL INFOR		J. WALEN, DEMOGRA	PHIC, ANU ENVIR	ONMENTAL DATA	
1 PERMEABILITY OF UNSATURATED	ATION				
□ A 10-4 - 10	0-1 cm/aec [7 2 10-4 - 10-4 cm/sec			
				T/Sec LID. GREATE	R THAN 10-3 cm/sec
	14 (1996)				
	AMEABLE L	3 B. RELATIVELY IMPERME	ABLE C. RELATIVE		D. VERY PERMEABLE (Grant that 19 ⁻² onvect)
3 DEPTH TO BEDROCK	04 DEPTH OF	CONTAMINATED SOIL ZONE	05 SOL ;		
>50 (m)		unknown(m		unknown	
6 NET PRECIPITATION	07 ONE YEAR	24 HOUR RAINFALL	LOB SLOPE		
11.5 (m)		2.25	SITE SLOPE	DIRECTION OF SITE	SLOPE TERRAIN AVERAGE SLOP
		(in)	4*	southerly	filled land 2
nono	["				
SITE IS IN TIONE YEAR FLI	OCOPLAIN		IRIER ISLAND, GUAS 17	AL HIGH HAZARD ARE	A. RIVERINE FLOODWAY
DISTANCE TO WETLANDS (& agre man			12 DISTANCE TO CRIT	TICAL HABITAT (of andarge	
ESTUARINE		OTHER	1		/
▲ N/A	R N	Jone -		Non	(ms ;
·····	<u>در الم الم الم الم الم الم الم الم الم الم</u>		END ANT ANT ANT	ED SPECIES:	J
LAND LISE IN VICINITY			CICARGENI		
3 LAND USE IN VICINITY					
3 LAND USE IN VICINITY DISTANCE TO:					
3 LAND USE IN VICINITY DISTANCE TO: COMMERCIAL/INDUSTR	PIAL _	RESIDENTIAL AREAS: NATH FORESTS, OR WILDL	ONAL/STATE PARKS.	AGR PRIME AG LAI	ICULTURAL LANOS
3 LAND USE IN VICINITY DISTANCE TO: COMMERCIAL/INDUSTR	RIAL	RESIDENTIAL AREAS: NATH FORESTS, OR WILDL	ONAL/STATE PARKS,	AGF PRIME AG LA	ICULTURAL LANOS NO AG LAND
3 LAND USE IN VICINITY DISTANCE TO: COMMERCIAL/INDUSTI A(mi)	RIAL	RESIDENTIAL AREAS: NATH FORESTS, OR WILDL B	ONAL/STATE PARKS. JFE RESERVES	AGF PRIME AG LA none	NO AG LAND NO NO AG LAND
3 LAND USE IN VICINITY DISTANCE TO: COMMERCIAL/INDUSTF A(mi)		RESIDENTIAL AREAS: NATI FORESTS, OR WILDL B	ONAL/STATE PARKS. JFE RESERVES	AGF PRIME AG LA c	ICULTURAL LANDS NO AG LAND (mm) D(mmi)
A	TO SURROUNDING	RESIDENTIAL AREAS: NATI FORESTS, OR WILDL B B B	ONAL/STATE PARKS. JFE RESERVES	AGF PRIME AG LA c none	ICULTURAL LANDS ND AG LAND (mi) D(mi)
DISTANCE TO: COMMERCIAL/INDUSTR A	RIAL) TO SURROUNDING mixed cor shamton.	RESIDENTIAL AREAS: NATI FORESTS, OR WILDL 8 atopography nmercial and resid	ONAL/STATE PARKS. JFE RESERVES	AGF PRIME AGLA cnone orhood in the n	icul TURAL LANDS AG LAND (mi) D(mi) orth central region
DISTANCE TO: COMMERCIAL/INDUSTR A(mi) CESCRIPTION OF SITE IN RELATION Site is located in a of the City of Bing is the Anitec Corp.	FIAL TO SURROUNDING mixed cor ghamton.	RESIDENTIAL AREAS: NATI FORESTS, OR WILDL B GTOPOGRAPHY nmercial and resid Immediately to the ility and to the im	ONAL/STATE PARKS. JFE RESERVES	AGF PRIME AG LA c orhood in the n g Forest Ceme	ICULTURAL LANCS NO AG LAND (m) D(mi) orth central region tary, to the south
DISTANCE TO: COMMERCIAL/INDUST A	FIAL TO SUPROUNOM mixed cor ghamton. . plant fac residentia	RESIDENTIAL AREAS: NATI FORESTS, OR WILDL B GTOPOGRAPHY mmercial and resid Immediately to th ility and to the im I neighborhood to	ONAL/STATE PARKS. JFE RESERVES dential neighbor ne east is Spring mediate west the north on P	AGF PRIME AG LA c orhood in the n g Forest Ceme and downhill i	none
DISTANCE TO: COMMERCIAL/INDUSTR A	RIAL TO SURROUNON mixed cor ghamton. . plant fac residentia ;ite.	RESIDENTIAL AREAS: NATT FORESTS, OR WILDL 8 GTOPOGRAPHY mmercial and resid Immediately to th ility and to the im l neighborhood to	CNAL/STATE PARKS. JFE RESERVES dential neighbor ne east is Sprin mediate west the north on P	AGF PRIME AG LA c orhood in the n g Forest Ceme and downhill i rospect Street	(mi) D(mi) orth central region tary, to the south s Veterans is up hill and
DISTANCE TO: COMMERCIAL/INDUSTR A	FIAL TO SURROUNDIN mixed cor ghamton. . plant fac. residentia site.	RESIDENTIAL AREAS: NATI FORESTS, OR WILDL adj B GTOPOGRAPHY mmercial and resid Immediately to th ility and to the im l neighborhood to	ONAL/STATE PARKS. JFE RESERVES dential neighborne east is Spring mediate west the north on P	AGF PRIME AGLA c orhood in the n g Forest Ceme and downhill i rospect Street	ICULTURAL LANDS <u>AG LAND</u> <u>(mi)</u> orth central region tary, to the south s Veterans is up hill and
DISTANCE TO: COMMERCIAL/INDUST A	FIAL TO SUPROUNOM mixed con ghamton. . plant fac residentia site.	RESIDENTIAL AREAS: NATI FORESTS, OR WILDL B GTOPOGRAPHY mmercial and resid Immediately to th ility and to the im l neighborhood to	ONAL/STATE PARKS. JFE RESERVES dential neighbone east is Spring umediate west the north on P	AGF PRIME AG LA c orhood in the n g Forest Ceme and downhill i rospect Street	ICULTURAL LANOS NO AGLAND (mi) 0(mi) orth central region tary, to the south s Veterans is up hill and
DISTANCE TO: COMMERCIAL/INDUSTR Aadj(ml) CESCRIPTION OF SITE IN RELATION Site is located in a of the City of Bing is the Anitec Corp. Memorial Park. A upgradient of the s	FIAL TO SURROUNOIN mixed cor ghamton. . plant fac residentia ;ite.	RESIDENTIAL AREAS: NATI FORESTS, OR WILDL 8 adj 8 atopography mmercial and resid Immediately to th ility and to the im l neighborhood to	ONAL/STATE PARKS. JFE RESERVES (mi) dential neighbor ne east is Spring mediate west the north on P	AGF PRIME AG LA c orhood in the n g Forest Ceme and downhill i rospect Street	ICULTURAL LANOS AG LAND (mm) D(mmi) orth central region tary, to the south s Veterans is up hill and
DISTANCE TO: COMMERCIAL/INDUST A	RIAL TO SURROUNOIN mixed con ghamton. . plant fac residentia site.	RESDENTIAL AREAS: NATT FORESTS, OR WILDL 8 GTOPOGRAPHY mmercial and resid Immediately to th ility and to the im .1 neighborhood to	CNAL/STATE PARKS. JFE RESERVES dential neighbor ne east is Sprin imediate west the north on P	AGF PRIME AGLA c orhood in the n g Forest Ceme and downhill i rospect Street	none (mm) orth central region tary, to the south s Veterans is up hill and
DISTANCE TO: COMMERCIAL/INDUST A	FIAL TO SUPPOUNON mixed con ghamton. . plant fac residentia site.	RESIDENTIAL AREAS: NATI FORESTS, OR WILDL B GTOPOGRAPHY mmercial and resid Immediately to th ility and to the im l neighborhood to	ONAL/STATE PARKS. JFE RESERVES dential neighbo ne east is Sprin nediate west the north on P	AGF PRIME AG LA c orhood in the n g Forest Ceme and downhill i rospect Street	ICULTURAL LANDS AG LAND (mm) D(mmi) orth central region stary, to the south s Veterans is up hill and
DISTANCE TO: COMMERCIAL/INDUST A	FIAL TO SUPROUNON mixed con ghamton. plant fac residentia site.	RESIDENTIAL AREAS: NAT FORESTS, OR WILDL B G TOPOGRAPHY mmercial and resid Immediately to th ility and to the im l neighborhood to	ONAL/STATE PARKS. JFE RESERVES dential neighborne east is Sprin Imediate west the north on P	AGF PRIME AG LA c orhood in the n g Forest Ceme and downhill i rospect Street	none (mmi) orth central region tary, to the south s Veterans is up hill and
DISTANCE TO: COMMERCIAL/INDUST A	RIAL TO SUBROUNON mixed con ghamton. . plant fac residentia site.	RESIDENTIAL AREAS: NATT FORESTS, OR WILDL 8 G TOPOGRAPHY mmercial and resid Immediately to th ility and to the im il neighborhood to	CNAL/STATE PARKS. JFE RESERVES (mi) dential neighbor ne east is Sprin mediate west the north on P	AGF PRIME AG LA c orhood in the n g Forest Ceme and downhill i 'rospect Street	ICULTURAL LANOS AG LAND (mm) D(mmi) orth central region stary, to the south s Veterans is up hill and
DISTANCE TO: COMMERCIAL/INDUST A	RIAL TO SURROUNON mixed con ghamton. . plant fac residentia site.	RESDENTIAL AREAS: NATT FORESTS, OR WILDL 8 GTOPOGRAPHY mmercial and resid Immediately to th ility and to the im il neighborhood to	CNAL/STATE PARKS. JFE RESERVES dential neighborne east is Sprin umediate west the north on P	AGF PRIME AGLA c orhood in the n g Forest Ceme and downhill i rospect Street	ICULTURAL LANDS AG LAND (mm) D(mmi) orth central region stary, to the south s Veterans is up hill and
DISTANCE TO: COMMERCIAL/INDUSTI A	FIAL TO SUPROUNON mixed con ghamton. plant fac residentia site.	RESIDENTIAL AREAS: NATI FORESTS, OR WILDL B G TOPOGRAPHY mmercial and resid Immediately to th ility and to the im il neighborhood to	dential neighbo mediate west the north on P	AGF PRIME AGLA c orhood in the n g Forest Ceme and downhill i rospect Street	CULTURAL LANOS AG LAND (mm) D(mmi) orth central region stary, to the south s Veterans is up hill and
DISTANCE TO: COMMERCIAL/INDUST A	FIAL TO SUPROUNON mixed con ghamton. . plant fac residentia site.	RESIDENTIAL AREAS: NAT FORESTS, OR WILOL B a topography mmercial and resid Immediately to the ility and to the im al neighborhood to	dential neighbone east is Sprin imediate west the north on P	AGE PRIME AG LA c orhood in the n g Forest Ceme and downhill i rospect Street	none none (mi)
DISTANCE TO: COMMERCIAL/INDUST Aadj(ml) CESCRIPTION OF SITE IN RELATION Site is located in a of the City of Bing is the Anitec Corp. Memorial Park. A upgradient of the s	FIAL TO SUPROUNON mixed con ghamton. . plant fac residentia site.	RESIDENTIAL AREAS: NATT FORESTS, OR WILOL B G TOPOGRAPHY mmercial and resid Immediately to the ility and to the im al neighborhood to	CNAL/STATE PARKS. JFE RESERVES (mi) dential neighbor ne east is Sprin nediate west the north on P	AGF PRIME AG LA c orhood in the n g Forest Ceme and downhill i 'rospect Street	none none (mi) D (mi) orth central region etary, to the south s Veterans is up hill and
COMMERCIAL/INDUST A	RIAL TO SURROUNON mixed con ghamton. . plant fac residentia site.	RESIDENTIAL AREAS: NATT FORESTS, OR WILOL 8 GTOPOGRAPHY mmercial and resid Immediately to the ility and to the im al neighborhood to	CNAL/STATE PARKS. JFE RESERVES dential neighborne east is Sprin nmediate west the north on P	C none c orhood in the n g Forest Ceme and downhill i rospect Street	icul TURAL LANDS AG LAND (mm) D(mmi) orth central region etary, to the south s Veterans is up hill and

Site inspection 9/24/85 Wehran Engineering NYSDEC File data

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 6- SAMPLE AND FIELD INFORMATION

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L IDENTIFICATION 01 STATE 02 SITE NUMBER NY 704011

IL SAMPLES TA	EN			
SAMPLE TYPE		01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVALABLE
GROUNDWATE	1			
SURFACE WAT	37			
WASTE				
AIR				
RUNOFF	<u></u>	1		
SPILL				
SOL		1	-	
VEGETATION		· · · · · · · · · · · · · · · · · · ·		
OTHER		1		
IL FIELD MEASL	REMENTS TA	KEN		1
V. PHOTOGRAP	HS AND MAP	5		
			(Name of organization or individual	······
E YES	Weh	ran Engineerin	g, 666 East Main Street, Middletown, NY 10940	
V. OTHER FIELD	DATA COLLE	CTED (Proved remains de		
		,		
VI. SOURCES OF	INFORMATIC	N (Cre specific references, (.g., state files, sance ensives, recortes	
NYSDEC F USGS Bing	'ile data hamton W	est Quadrangle	9	

EPA FORM 2070-13 (7-81)

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 7 - OWNER INFORMATION

I. IDENTI	FICATION
01 STATE	02 SITE NUMBER
NY	704011

IL CURRENT OWNER(S)						
IL CURRENT OWNER(S)						
GAF Corp.		02 D+8 NUMBER	08 NAME	09	0+8 NUMBER	
03 STREET ADORESS (P.O. Bac. MO P. ML) 1361 Alps Road		04 SIC CODE	TO STREET ADORESS (P.O. Box, AFO	TO STREET ADORESS (P.O. Box. AFO #, etc.)		
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D1 NAME 02 D+8 NUMBER		02 D+8 NUMBER	OS NAME	C9	0+6 NUMBER	
3 STREET ADDRESS (P.O. Box, RFO #, em.)		04 SIC CODE	10 STREET ADORESS (P.O. Bar, APD	ð, ang.j	11 SIC CODE	
sarr	OG STATE	07 ZIP CODE	12 GTY	13 STATE 14	ZIP CODE	
1 NAME		02 D+8 NUMBER	CB NAME	. 09	0+8 NUMBER	
3 STREET ADORESS (P.O. Box, NFD #, and.)		04 SIC CODE	10 STREET ADDRESS (P.O. Sen, APD	J. eff.)	11SIC CODE	
S CITY	OS STATE	07 ZIP CODE	12 GTY	13 STATE 14	ZIP CODE	
1 NAME		02 D+8 NUMBER	CO NAME	09	D+8 NUMBER	
3 STREET ADDRESS (P.O. Jos. AFD #, em.)	-	04 SIC CODE	10 STREET ADORESS (P. O. Boc. AFD	9. eec.j	11 SIC CODE	
35 CTY	OS STATE	07 ZP CODE	12 CTY	13 STATE 14	ZIP CODE	
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IL PREVIOUS OWNER(S) (Lat most re 1 NAME	eer Ann .	02 D+6 NUMBER	IV. REALTY OWNER(S) (7 access 01 NAME	andres det mont recent freit	0+8 NUMBER	
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EPA FORM 2070-13 (7-81)

		POTENTIAL HAZ	ARDOUS WASTE SITE	I. IDENTIF	ATION
vera		SITE INSP	ECTION REPORT	01 STATE O NY	2 SITE NUMBER 704011
IL CURPENT OREDATOR					
IL CURRENT OPERATOR	(Provide II afferent from cemer)	1	OPERATOR'S PARENT COMPAN		
Site is closed		02 D+6 NUMBER	10 NAME		11 D+B NUMBER
3 STREET ADORESS (P.O. Box, A	FC 0, mi.)	04 SIC CODE	12 STREET ADDRESS (P.O. BOX, AFD P. 000.)		13 SIC CODE
6 GTY	106 57	ATE OT THE CODE	hactr	14 4 CT 1 TT	1
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BYEARS OF OPERATION 09	NAME OF OWNER			l	1
IL PREVIOUS OPERATOR	(S) (List meet recent first; press	de any il diferent fram quinar)	PREVIOUS OPERATORS' PAREN		
1 NAME		02 D+8 NUMBER	10 NAME		11 D+8 NUMBER
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,	06 37/	ATE OT ZIP CODE	14 GTY	15 STATE	16 ZIP CODE
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NAME		02 0 + 8 M 14958			
_					11 D+8 NUMBER
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				10 GIAIZ	
YEARS OF OPERATION OS N	IAME OF OWNER DURING	THIS PERIOD		1	
SOURCES OF INFORMA	TION (Cre specific reference				

		POTENTIAL HAZ	L IDENTIFICATION		
SEPA .	SITE INSPECTION REPORT		01 STATE 02 NY	SITE NUMBER	
	PART	9-GENERATOR	TRANSPORTER INFORMATION		
IL ON-SITE GENERATOR		·			
OI NAME		02 D+8 NUMBER			
GAF Corp.					
03 STREET ADDRESS (P.O. Box, AFD #. ME.)		04 SIC CODE			
1361 Alps Road			· ·		
05 CTY	08 STATE	OT ZIP CODE			
wayne	NJ	07470			
IIL OFF-SITE GENERATOR(S)	<u>_</u>				
01 NAME		02 0+8 NUMBER	01 NAME	Io	2 D+8 NUMBER
	•			[⁻	
DE STREET AODRESS (P.O. Box, AFD #, ML)		04 SIC CODE	03 STREET ADORESS (P.O. BOX, RFD 4, ME.)	l	04.50 000
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IT THANSFULTER(S)		02 D+8 NUMBER	01 NAME 03 STREET ADDRESS (P.O. Box, AFD P. ML.)	٥	2 D+8 NUMBER
IT MANSFUR LER(S)	· · · · · · · · · · · · · · · · · · ·	02 D+8 NUMBER	01 NAME 03 STREET ADORESS (P.O. Box, NFO #. and.)	0	2 D+8 NUMBER
IT MANSPORTER(S)	06 STATE	02 D+8 NUMBER 04 SIC CODE 07 ZIP CODE	03 STREET ADORESS (P. O. BOR, AFD P. ONL) 05 CITY	06 STATE 0	2 D+ 8 NUMBER 04 SIC CODE 7 ZIP CODE
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17. THANSPORTER(S)	00 STATE	02 D+6 NUMBER 04-SIC CODE 07 ZIP CODE 02 D+6 NUMBER 04 SIC CODE 07 ZIP CODE	01 NAME 03 STREET ADORESS (P. 0. 800, AFO F. 600.) 05 CITY 01 NAME 03 STREET ADORESS (P. 0. 800, AFO F. 600.) 08 CITY	06 STATE 0	2 D+ 6 NUMBER 04 SIC CODE 7 ZIP CODE 2 D+ 6 NUMBER 04 SIC CODE 7 ZIP CODE
17. THANSPORTER(S) 17. THANSPORTER(S) 13. STREET ADDRESS (P.O. Sec. AFD #, sec.) 5. CITY 11. NAME 3. STREET ADDRESS (P.O. Sec. AFD #, sec.) 5. CITY	00 STATE	02 D+8 NUMBER 04 SIC CODE 07 ZIP CODE 02 D+8 NUMBER 04 SIC CODE 07 ZIP CODE	01 NAME 03 STREET ADORESS (P. O. Box, AFO P. SEL) 05 CITY 01 NAME 03 STREET ADORESS (P. O. Box, AFO P. SEL) 08 CITY	06 STATE 0 08 STATE 0	2 D+6 NUMBER 04 SIC CODE 7 ZIP CODE 2 D+6 NUMBER 04 SIC CODE 7 ZIP CODE

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10-PAST RESPONSE ACTIVITIES

L IDENTIFICATION 01 STATE C2 SITE NUMBER NY 704011 .

I PAST RESPONSE ACTIVITIES		
01 A WATER SUPPLY CLOSED		03 AGENCY
04 DESCRIPTION		
Unknown		
01 I B. TEMPORARY WATER SUPPLY PROVIDED	02 DATE	03 AGENCY
Unknown		
		00.000
04 DESCRIPTION		
Unknown		
01 C D. SPILLED MATERIAL REMOVED	02 DATE	03 AGENCY
04 DESCRIPTION	UZ UATE	
Unknown		
01 C F. WASTE REPACKAGED	02 DATE	03 AGENCY
04 DESCRIPTION		
Unknown		
01 C. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	03 AGENCY
Unknown		
01 C H. ON SITE BURIAL	02 DATE	03 AGENCY
04 DESCRIPTION		
Unknown		
01 CL IN SITU CHEMICAL TREATMENT	02 DATE	03 AGENCY
Unknown /		
01 C J. IN SITU BIOLOGICAL TREATMENT	02 DATE	03 AGENCY
04 DESCRIPTION		
Unknown		
01 C K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	
Unknown		
	02 DATE	03 AGENCY
04 DESCRIPTION		
Unknown		
01 U M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
Unknown		
01 I N. CUTOFF WALLS	02 DATE	03 AGENCY
04 DESCRIPTION		
Unknown		
01 □ 0. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION	02 DATE	03 AGENCY
Unknown		
	02 DATE	03 AGENCY
04 DESCRIPTION		
Unknown		
01 C Q. SUBSURFACE CUTOFF WALL	02 DATE	03 AGENCY
Unknown		
CDA 50004 2070.12 (7.41)		

\$epa	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES		LIDENTIFICATION 01. STATEL 02 SITE NUMBER NY 704011
II PAST RESPONSE ACTIVITIES (Community)			
01 C R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY	
Unknown			
01 🗆 S. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY	
Unknown		•	
01 T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY	
Unknown			
01 🔲 U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY	
Unknown			
01 V. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY	· · · · · · · · · · · · · · · · · · ·
Unknown			
01 U. W. GAS CONTROL 04 DESCRIPTION	02 DATE	Q3 AGENCY.	
Unknown			
01 I X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY	
Unknown			
01 I Y. LEACHATE TREATMENT • 04 DESCRIPTION	02 DATE	03 AGENCY	
Unknown			
01 Z AREA EVACUATED 04 DESCRIPTION	02 DATE	03 AGENCY_	
Unknown	/		
01 2 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION I enced, but not secure	02 DATEUNKNOWN	03 AGENCY	
	02 DATE	03 AGENCY	
04 DESCRIPTION Unknown			
01 C 3. OTHER REMEDIAL ACTIVITIES	02 DATE	03 AGENCY_	
none			
			·
IL SOURCES OF INFORMATION (Created and	Inces. s.g., state fles, semple analysis, reports)		
NYSDEC File Data			
Site Inspection 9/24/85 Weh	ıran Engineering		

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

L IDENTIFICATION

IL ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION C YES C NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

None

IL SOURCES OF INFORMATION (Cre specific revenues, 4.4., state fee, same every reports)

NYSDEC FIle Data

6.0 ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

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6.0 ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

6.1 GROUNDWATER ROUTE

Past groundwater sampling activities at the GAF Dump site did not include upgradient monitoring to determine possible migration of contaminants from the site into the water table. The HRS score was then computed based on the alleged properties of the waste, methods of disposal, and the potential for subsurface leaching to cause possible contamination in the water supply.

In evaluating Route Characteristics, conclusions were drawn based on analysis of well data and boring logs for the Anitec industrial well field and the Johnson City municipal well field. Waste disposal was assumed to be at the original ground elevations as shown on the USGS Binghamton West Quadrangle, prior to disposal of the demolition debris.

Characteristics of the waste need to be further investigated to determine the toxicity, persistence, and potential reactivity of the materials involved. Photochemical byproducts, containing heavy metals and phenols, resulted in the maximum score for waste characteristics.

The Johnson City well field is known to serve a population of 18,102, pumping from thirteen wells located within two to three miles of the site. More information is needed on the pumping rates of these wells, the actual distances from the site, and the population served by each.

A groundwater route score of $S_{gw} = 58.46$ was computed based on known and assumed information. The unknown data was estimated conservatively in computing the HRS score. A final score will be determined following a Phase II hydrogeologic investigation designed to achieve the following objectives:

- . Determine depths to groundwater(s) at and around the site.
- . Identify the soils in the unsaturated zone, and determine permeability characteristics.
- . Verify the potential groundwater migration routes.

6-1

- Evaluate possible fluctuations in the water table due to pumping or other influential factors.
- Acquire additional information on the Johnson City municipal well field, and determine populations served by individual wells.

6.2 SURFACE WATER ROUTE

The adjacent Trout Brook storm sewer and its receiving water, the Chenango River, would be the primary target for surface water contamination in computing the HRS score. These waters do not directly serve as a drinking water supply, although they may be in hydraulic contact with the aquifer that does. The population served was assigned a value of zero, which resulted in a relatively low score for targets.

The surface of the site has been filled in or is covered with asphalt, both of which are likely to prevent runoff from coming in contact with the wastes and subsequently discharging to the storm sewer. The adequacy of the cover soils needs to be determined during the Phase II hydrogeologic investigation to finalize the surface water score. Under current conditions, a score of $S_{sw} = 5.85$ was computed based on known information from the files or the site inspection.

6.3 AIR ROUTE

No measurable readings of organic vapors were detected with the HNU Photoionizer during the site inspection, so the air route score was 0. Additional monitoring should be performed during the Phase II investigation to check for possible contamination resulting from disturbance of the ground surface by subsurface drilling and also as a standard safety measure for personnel involved in the investigation.

6.4 FIRE AND EXPLOSION

To score the fire and explosion hazard mode either a state or local fire marshall must have certified that the facility presents a significant fire or explosion threat to the public or to a sensitive environment, or there must be a demonstrated threat based on field observations (e.g. combustible gas indicator readings). The available records give no indication that either one of these tasks has been done. Further, the available data do not suggest any imminent threat of fire and explosion at this site. Therefore the route score cannot be completed.

6.5 DIRECT CONTACT

There was no evidence of exposed waste during the site inspection and there are no records of any direct contact causing injury to humans or animals. The site is covered, the cover appears adequate, and the score for direct contact, $S_{\rm DC} = 33.33$. The Phase II work plan should include analysis of the thickness and quality of the cover soil at the site to determine the actual potential threat by direct contact with the wastes.

7.0 PHASE II WORK PLAN

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7.0 PHASE II WORK PLAN AND OBJECTIVES

INTRODUCTION AND OBJECTIVES

During the Phase I investigation, it was determined that the GAF Dump site poses a potential threat to the aquifer supplying the Johnson City municipal water system. This Phase II work plan is designed to further characterize the site as follows:

- . Identify the types and concentrations of allegedly disposed materials.
- . Further identify subsurface hydrogeologic conditions at the site.
- Determine the presence or absence of contamination in the groundwater, surface water, and Johnson City water supply wells in the vicinity of the site.
- Evaluate whether or not contamination from the site poses any environmental or health concerns.
- . Provide a final Hazard Ranking Score (HRS).
- Provide NYSDEC with a preliminary remedial cost estimate.

Procedures to be utilized for sampling and analysis, as well as health and safety, will be conducted in conformance with the consultant's generic procedures previously submitted to NYSDEC.

WORK PLAN

To accomplish the above mentioned objectives, the following tasks and subtasks are recommended:

Task 1 - Preparation of Site-Specific Work Plans

Wehran will prepare and submit for NYSDEC approval revised work plans for those sites NYSDEC recommends for Phase II investigation. These plans will include site-specific:

- Scope of work
- Health and safety plan
- . Sampling and analytical plan
- Detailed cost estimate

All plans will conform with the contractor's previously submitted established procedures.

Task 2 - Identify, Obtain and Evaluate Additional Data

To consider the possible cost for future remedial investigations, it will be necessary to collect and evaluate additional information relating to the area surrounding the GAF Dump site including but not limited to:

- . Uses of local groundwater and the nearby Chenango River
- . Available regional water supply sources
- . Boring logs, if available, for all wells in the immediate area

Task 3 - Hydrogeologic Investigation

Data Evaluation

The information obtained in Task 2 will be used to aid in the location of test borings and monitoring wells.

Test Borings

In order to define the geology beneath the subject site, three shallow borings to a maximum depth of 60 feet will be drilled under the continuous supervision of Wehran Engineering. Split-spoon samples will be collected at standard five-foot intervals in accordance with the procedures of the Standard Penetration Test. Soils will be visually classified in the field for grain size (according to the Unified Classification System) and lithology. Representative portions of each sample will be stored in moisture-tight jars at the office of Wehran Engineering in Middletown, New York, for future reference. In addition, it is anticipated that three samples will be analyzed in the laboratory for grain size, Atterberg limits, and hydrometer. If a confining layer or other strata determined to be of particular significance to the migration of contamination is encountered, additional investigations will be conducted. These additional investigations will be performed as an extra, subject to NYSDEC approval.

Monitoring Well Installation

Monitoring wells will be installed in each of the three borings. All wells will be constructed using two-inch diameter, Schedule 40, threaded flushjoint PVC pipe and fifteen-foot long factory slotted PVC screens. The screened interval will be determined in the field according to the hydrologic conditions encountered. A sand pack will be placed around each screen to prohibit clogging of the screen openings. A bentonite pellet seal will be placed at the top of the sand to isolate it from upper soil zones. The annular space will be filled to the surface with a bentonite-cement grout using the "Tremie" method. A steel casing with a protective lock will then be cemented in place to prevent vandalism.

Survey Well Locations and Elevation

A survey will be conducted to determine the relative elevations of both ground surface and "top of casing" at each boring location. The location of each well will also be determined with sufficient accuracy for plotting on a site map.

In Situ Permeability Determinations

A variable head borehole test will be conducted in order to measure the in situ permeability of the soils at each monitoring well location. This test will involve recording the recovery of water level after bailing. Prior to the procedure, the static water level will be measured and recorded to facilitate a determination of groundwater flow direction.

Groundwater Sample Collection

Groundwater samples will be collected for analysis from each of the three wells using the following procedure.

- . The static water level in each well will be measured and recorded.
- Each well will be purged of at least three well volumes of water using a separate teflon bailer for each well. Each bailer will be cleaned in the laboratory prior to use.
- Samples will be collected from each well by the use of the abovementioned bailer. Each sample will then be placed in the appropriate container, stored on ice, and transported to the lab in accordance with standard chain-of-custody protocol.

The samples will be analyzed for the Hazardous Substances List (HSL), Priority Pollutant Heavy Metals and water quality indicator parameters including: COD, pH, conductivity, chlorides, TSS, TDS, and iron. Samples will also be collected from the Johnson City municipal wells closest to the site by NYSDOH to be analyzed for the same parameters indicated above.

The following assumptions have been made in the development of this scope of services and the associated costs:

- All drilling locations are accessible to a truck-mounted drilling rig as determined by the drilling subcontractor.
- . The soils do not contain excessive amounts of cobbles or boulders.
- . It is anticipated that three wells will be approximately 60 feet deep and that nine eight-hour days would be required for their installation.

Geophysical Survey

A terrain conductivity or earth resistivity survey will be conducted in order to obtain additional subsurface information. Both of these geophysical methods evaluate changes in the earth's resistance/conductance to an induced electrical current which may reflect changes in stratigraphy and/or groundwater quality. The survey would be implemented in areas of the site deemed appropriate based on existing geologic and water quality data.

Task 4 - Surface Water Investigation

Drainage from the GAF Dump site flows into the Trout Brook storm sewer which empties into the Chenango River. Surface water samples both upstream and downstream of the site will be collected to verify if Trout Brook is being contaminated.

Laboratory analyses of these surface water samples will be for the HSL, Priority Pollutant Heavy Metals and water quality indicator parameters, as indicated in Task 2.

To aid in determining contamination of soil an areal soil sample will be collected. The soil sample will be analyzed for the HSL and Priority Pollutant Heavy Metals.

Task 5 - Qualitative Air Monitoring

Throughout all Phase II activities conducted at the site, air monitoring will be performed using the HNU Systems Photoionizer, both upwind and downwind of the site. If consistent, unusually high values are observed (five to ten ppm above background) with the HNU, a more quantitative air analysis would be recommended as an extra, subject to NYSDEC approval.

Task 6 - Laboratory Analysis

During the field investigation the following samples will be collected for analysis by a subcontractor laboratory:

- . Seven water samples (three wells, two surface water, one field blank, one trip blank) for HSL, Priority Pollutants Heavy Metals and water quality indicator parameters
- One soil sample for HSL and Priority Pollutant Heavy Metals

Task 7 - Preliminary Remedial Cost Estimate

The consultant will consider the possible cost for future remedial investigations, engineering plans and specifications, and the physical remediation anticipated for the site. A range of possible remedial costs will be developed using best engineering judgment and previous experience with possible feasible remedial schemes. This task is not intended to perform a cost-effectiveness analysis of feasible remedial alternatives but rather to provide a cost range estimate adequate for legislative budget reporting purposes.

Task 8 - Phase II Report Preparation

Under this task, the engineer will compile a final report for the site. This report will contain the following:

- Phase II information developed under Tasks 1 through 7
- . Final Site Assessment and HRS

Extras

This work plan has been developed based upon available site information as contained in the Phase I report. If conditions encountered during the Phase II investigation indicate the need for additional services or extras such as difficult drilling, poor access, etc., not included within the original scope of work, the costs will be negotiated with the NYSDEC. Such extra services will be performed on a time and materials basis with prior authorization by the NYSDEC project officer.

NYSDEC SUPERFUND INVESTIGATIONS PHASE II - TOTAL PROJECT COST SUMMARY¹ SITE: GAF DUMP

Wehran's Labor and Expenses	\$ 47,000.00
Subcontractors:	
Driller	21,000.00
Laboratory	 16,000.00
TOTAL ESTIMATED COST	\$ 84,000.00*

¹This cost estimate does not include any provisions for inflation and salary adjustments and can be considered current for approximately three months.

*Note: This cost estimate has been developed for budgeting purposes only. Should this site be selected for Phase II investigation, Wehran will develop a detailed cost estimate for NYSDEC approval. APPENDIX

I

T. Haelen



September 17, 1985

Edward Shea, Esq. General Counsel GAF Corporation Building No. 10 1361 Alps Road Wayne, NJ 07470

> Re: GAF Dump #704011 Binghamton/Broome County Hazardous Waste Site Inspection (WE Project No. 01424339)

Dear Mr. Shea:

As a consultant to the New York State Department of Environmental Conservation, Wehran Engineering has been contracted to conduct investigations of hazardous wastes site. The GAF Dump in Binghamton, Broome County, New York is on the NYSDEC hazardous site list requiring a Phase I, investigation. Wehran Engineering is requesting permission from GAF to have access onto the site such that the investigation can be conducted.

A Phase I site investigation entails a review of any existing site data and a site inspection. The intent of the inspection is to verify file information and to screen for potential air releases utilizing portable air monitoring equipment. Items of specific interest in the site inspection include:

- . Overall site environmental conditions
- . The presence of disturbed areas
- . Visual signs of waste materials
- Occurrence of leachate
- . Site topography

I have set a tentative date of September 24, 1985 at 2:00 P. M. for the site inspection. However, if this is inconvenient, would you please advise me as to when a convenient date can be set. Also, enclosed please find a letter from Commissioner Henry G. Williams entitling Wehran Engineering to conduct this study.

Please contact me if you have any questions.

Very truly yours,

WEHRAN ENGINEERING P.C.

T. R. Haelen Environmental Scientist

TH/mef Enclosure cc: Leonard P. Pasculli Research & Design Center: 666 East Main Street Middletown, NY 10940 (914) 343-0660



STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION ALBANY, NEW YORK 12233-0001

HENRY G. WILLIAMS COMMISSIONER

JUN 6 1985

To Whom it May Concern:

For the purpose of investigating hazardous waste disposal sites, pursuant to Section 27-1309 of the Environmental Conservation Law and Chapter 857 of the Laws of 1982, this Department has contracted with Wehran Engineering, P.C., and is hereby designated as an authorized consultant of the New York State Department of Environmental Conservation (NYSDEC).

As our consultant, Wehran Engineering, P.C., is entitled to collect information from all available sources including, but not limited to, all State, federal, county and municipal offices and private concerns. In addition, our consultant is authorized to conduct Phase II investigations. A Phase II investigation involves a geophysical survey for stratigraphic data, a magnetometer study for the presence of drums, installation of wells and laboratory analyses of samples of groundwater, surface water, air, drum contents for the presence of hazardous wastes, and a preliminary remedial cost estimate. In performing such work, our consultant is authorized to enter any inactive hazardous waste disposal site and areas near such site to inspect and collect environmental samples.

This status, as an authorized consultant of NYSDEC, is valid from December 11, 1984 to April 30, 1986.

icerely, Henry G. Williams

TELEPHONE CONVERSATION MEMORANDUM

CLIENTNYSDEC Phase I Round 3	PROJ. No	04339 EX
PROJECT GAF Dump	DATE	June 14, 1985
	TIME	
CALL TO/FROM Melanie Sviatyla	REPRESENT	ING Broome County
PHONE No		Health Department

SUMMARY OF CONVERSATION:

Re: Access to the GAF Dump site.

She informed me that the company is no longer local and is presently operating in New York City. She gave me the number for Anatech (Don Wright (607) 774-3322). Anatech had bought the land which is adjacent to the dump site. It is presently fenced in and paved over. Access can be obtained through Anatech's property. Don Wright told me that he could not take us (T. Roeper and S.Vozza) to the site due to his work load and did not want us to be there without him being present.

Recommendation: Notify GAF in NYC before going out to site and reschedule the visit with Don Wright at his convenience.

COPIES TO:		BY: Ancia Matricia	mi for i
		Tim Roeper	,
	WEHRAI CONSULTING	N ENGINEERING S ENGINEERS	

TELEPHONE CONVERSATION MEMORANDUM

CLIENTNYSDEC	Phase I Round 3	PROJ. N	o04339	EX	
PROJECT GAF Du	mp	DATE _	June 6	, 1985	
		TIME _	1:30 p.	1:30 p.m.	
CALL TO/FROM		REPRESENTING		Broome County	
PHONE No.	607-772-2887	-		Health Department	

SUMMARY OF CONVERSATION:

1971 Trout Brook sampling survey is of questionable value in terms of assessing toxicity of leachate. The alleged dump site is immediately adjacent to the industrial discharge point. At time of survey, Anatech (now GAF) had primative treatment facilities. Therefore, cannot assign contaminants to dump site - metals may well have been from process wastes.

COPIES TO: _

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Fran Geissler





STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION 33 MITCHELL AVENUE BINGHAMTON, N.Y. 13903

JAMES L. LAROCCA COMMISSIONER

JAMES K. CONNORS REGIONAL DIRECTOR

August 30, 1984

Wehran Engineering Research & Design Center 666 East Main Street Middletown, New York 10940

Attn: Constance A. Gasparovic

Dear Ms. Gasparovic:

In reference to your letter of August 24, 1984, we have had no association with the GAF dump in the Town of Binghamton.

At the Endicott landfille, by permit, we have disposed of stumps, refuse from roadside and rest stops, and sanding material which may contain deicing chemicals, most of which are sodium chloride salt.

At the BAGS landfille in the Town of Bainbridge we have, by permit, disposed of roadside and rest area refuse and dead animals.

On two occasions, material contaminated by petroleum spills have also been disposed of in this landfill. On each occasion, this has been through a permit with the New York State Department of Environmental Conservation who has more detailed information regarding this.

Attached are copies of the spill reports for these two incidents. To the best of our knowledge, this is the only information available on the three sites listed in your attachments.

Very truly yours,

JAMES K. CONNORS, P.E. Regional Director

By: E. AC

Regional Highway Maintenance Engineer

JKC:EAD:DL Att.



BROOME COUNTY ENVIRONMENTAL MANAGEMENT COUNCIL

Ms. Constance Gasparovic Wehran Engineering Consulting Engineers 666 East Main Street Middletown, New York 10940



Dear Ms. Gasparovic:

Enclosed please find the only information assembled by the Broome County Environmental Management Council regarding hazardous waste dump sites. A potential contact person for further information is Robert Denz, Broome County Health Department. There is no charge for these materials.

Sincerely,

John Kowalchyk

Chief Planner

JK/nt

Enclosure

Broome County Memorandum

To:

Ron Tramontano, NYSHD

Melonie M. Sviatyla, Robert W. Denz, BCHD From: Date : December 15, 1983

Date: December 15, 1983 Subject: Comments on the "Assessment of Health Problems" for the State / Show mich camero Superfund List

The following are comments from the Broome County Health Department (BCHD), regarding local landfill sites selected for the State Superfund listing:

(1) <u>Robintech Inc.</u>:

The BCHD has been involved with the installation of a backflow preventor on the water service to the plant. National Pipe (present owners) have drilled four (4) wells on site for cooling water production. These wells may offer a sampling point to check the groundwater quality.

The BCHD has the following concerns:

1) Proximity of the site to the Town of Vestal Well #4-2. This well has already been contaminated with volatile organics.

2) There are a number of private residences nearby who have not connected to municipal water, which have their own wells.

(2) Colesville Landfill:

The BCHD has been involved with the sampling of private resident wells in the vicinity of the landfill. Of the twenty (20) water sources sampled, four (4) have contained levels of volatile organics which exceed New York State Health Department (NYSHD) guidelines. Those organics found in the resident water supplies were also present in the leachate from the landfill. At the present time, these residences are receiving bottled water for drinking and cooking, supplied by the Broome County Dept of Public Works (BCDPW). Bottled water is also being supplied to those residences who may be located in the "contaminated groundwater plume" as presented in a report prepared by the County Engineering consultants. Additional monitoring of residences will commence in January 1984. At that time, the County consultants Phase II report will be presented.

The BCHD has the following concerns:

1) Long term effects of contamination on other wells not presently contaminated (i.e., down-gradient, bedrock).

(3) BEC Trucking:

The BCHD has been involved with the initial inspection of the area used for dumping. Files indicate that a number of 55-gallon drums containing Methanol and Dizco reducer were leaking and saturating the surrounding soil. continued

- 2 -

December 15, 1983

The BCHD has the following concerns:

1) Possible groundwater contamination of Vestal wells in Water District #4 and private wells in the area not connected to Municipal water.

(4) Village of Endicott Well (Ranney Well):

The BCHD was involved initially with the New York State Department of Environmental Conservation (NYSDEC) in collecting monitoring samples from the well. This well contains elevated levels of vinyl chloride, a known human carcinogen. Guidelines set by the NYSHD for vinyl chloride is 5 ug/l (ppb) in drinking water. Other volatile organics have also been found in the well.

The BCHD has the following concerns:

1) The long term trends in concentrations, as alternate sources of water will be difficult to develop.

(5) Tri-Cities Barrel Company:

The BCHD has been involved in the SPDES review only under SEQR.

The BCHD has the following concerns:

1) Possible groundwater contamination of private wells in the area as there is no public water.

2) Surface water contamination of Osborne Creek which flows into the Chenango River.

(6) Keytronics:

The BCHD has been involved with sampling at the South Street Well field down-gradient from site. Samples showed that methylene chloride was not present from past dumping practices at this site.

The BCHD has the following concerns:

1) Possible contamination of groundwater in the vicinity of the dumpsite.

(7**)** GAF Dump:

The BCHD has been involved in the sampling of two (2) wells on Anitec property down-gradient. Both wells sampled showed trace levels of volatile organics.

The BCHD has the following concerns:

1) Possibility of groundwater and surface water contamination.

2) Proximity of the dump to the Veteran's Memorial Park (across the street from the dump site).

continued

(8) Conklin dumps:

One private well directly east of the landfill was sampled on 3/30/83 for the priority pollutants by the BCHD (and Water Resources Commission). Results found trace levels of trichlocoethylene (TCE) and some metals. Leachate wells on site indicate trace TCE contamination and elevated manganese levels in lower dump. The BCHD and Broome County Industrial Development Agency (BCIDA) sampled additional residents in the vicinity on 11/15/83. Results are pending.

The BCHD has the following concerns:

1) Possible groundwater contamination of private wells in the area.

2) Possibility of connecting local residents to the Town of Conklin public water supply, if a problem develops.

(9) Endicott Village Landfill:

The BCHD has been involved in the past site inspections of the landfill. Complete reports are on file in the Environmental Health Division of the BCHD.

The BCHD has the following concerns:

1) Possible contamination of ground and surface waters.

2) BCHD files confirms the dumping of industrial sludge containing various metals on site.

3) Dumping was done on the banks of the Susquehanna River, resulting most likely in the runoff of landfill leachate into the river.

1.

4) Possible impacts on Village of Endicott Ranney Well.

MMS:et

Enclosure

cc: Dr. Kathleen A. Gaffney Roland M. Austin Ron Heerkens Larry Lepak John Kowalchyk David Machlica Robert Denz

COLESVILLE LANDFILL (con't.)

INDUSTRIAL WASTE:

Users:

GAF - at least 800, 55 gallon drums

- 5 Drums/month Solid Waste dye saturated filter media, dye scrappings, possible traces of mercury or cyanide. Fe, Zn, Al, Sn traces.
- 2. 10 drums/month Aqueous colored dye wastes.
- 10 drums/month organic solvent mixtures includes benzene, cyclohexane, acetone, IPA, methanol, ethanol, n-hexane, toluene, xylene, methyl cellosolve, chlorinated solvents, and diethyl ether.
- 10 drums/month mixed chemical solvents includes IPA, methanol, methslene chloride, acetone, and other hydrocarbons and oxygenated solvents.
- 5. 1 drum/month Lead Iodide Solid
- 6. 1 drum/month Lead Bromide Solid
- 5 drums/month 1. Cadmium, 2. Ammonium salts,
 3. Silver, 4. Iron, 5. Zink, 6. Calcium, 7. Magnesium,
 8. Copper, 9. Nickel, 10. Sodium, 11. Potassium,
 12. Nitrate, 13. Chloride, 14. Sulfate.

WATER SAMPLE ANALYSIS: 2/4/75

Element	Embankment West Side of Landfill	Downstream from Landfill		
Iron	17.0 Mg/L	.33 Mg/L		
Arsenic	.01 Mg/L	.01 Mg/L		
Cadmium	.02 Mg/L	.02 Mg/L		
Chromium	.1 Mg/L	.1 Mg/L		
Lead	ND Mg/L	.1 Mg/L		

Compounds found in near by private wells: Methylene chloride, toluene, 1,1,1 trichloroethane, trichloroethene, T-1,2 dichloroethene, Chloroform, carbon tetrachloride, 1,1,2 trichloroethane

LEACHATE HISTORY:

Extensive sampling has been done in 1983 by Melonie Sviatyla and Broome County Health Department. 4/70 - 5/73 Leachate observed flowing into a small pond on adjacent property. This pond is the headwaters of a small brook flowing into the Susquehanna Rv. 5/73 Dam and Diversion channel constructed and leachate was landlocked on site. 12/73 Leachate flow into pond resumed. 2.

ROBINTECH INC.

LOCATION:3421 Old Vestal Rd., VestalUSGS COOFDINATES:42°6'15" 75°59'45"NUMBER ON MAP:31WASTE MATERIAL:Cutting oils, PVC fillings, chromium and sludge.

MONARCH CHEMICALS

LOCATION: 511 Prentice Rd., Vestal USGS COORDINATES: 42°6'27" 75°59'58" NUMBER ON MAP: 32 WASTE MATERIAL: Acids, solvents, electro-plating, materials & other various industrial waste. Trichloroethylene & Tetrachloroethylene

GAF DUMP

LOCATION: USGS COORDINATES: NUMBER ON MAP: WASTE MATERIAL: Charles & Grace Streets, Binghamton 42°6'43" 75°55'42" 33. Industrial, photo chemical by-products (silver, cadmium, organics - t-1,2 dichloroethylene, trichloroethylene, phenols, intermediate dyestuffs). · · ·

SERVICE MERCHANDISE

LOCATION:220 Reynolds Rd., N. of Harry L. Drive, Johnson CityUSGS Coordinates:42°7'36"STATUS:Closed, developedNUMBER ON MAP:34WASTE MATERIAL:Commercial, J.C. municipal, E.J. industrials, Wilson
Hospital Wastes

JENNIE F. SNAPP MIDDLE SCHOOL

LOCATION: USGS COORDINATES:	Loder Ave. (between North St. & Main St.), Endicott 42°5'50" 76°3'39"
NUMBER ON MAP:	35
STATUS:	Closed, developed
WASTE MATERIALS:	Tanning acids (E.J.), animal hides, municipal wastes, and sludge.



Purgeable Priority Pollutants

O'BRIEN & GERE

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Client BROOI	ME COUNTY			Job Number 2622.001.517	
Sample Number 17294	Description Anitec Well	3, 12-20		Date Analyzed 12-28-82	Analyst TA/
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1) Chloromethan	 e	<1. 16	1,2-dichlor	opropane	<1.
2) Vinyl chlori	de	17	Chlorobenze	ne	
3) Chloroethane	2 8 4 <u></u>	18	Chloroform		1
4) Benzene	200 C 20	19	1,4-dichlor	obutane	SS
5) Methylene ch	loride	20	Bromochloro	methane	SS
6) Toluene		21	Trichloroet	hylene	1.
7) Bromomethane		22	1,1,1-trich	loroethane	<1.
B) 1,1-dichloro	ethylene	23	1,1,2-trich	loroethane	<1.
9) t-1,2-dichlo	roethylene	1. 24	Trichlorofl	uoromethane	IS
C) 1,1-dichlorod	ethane	<1. 25	Carbon tetr	achloride	<1.
1) 1,2-dichlorod	ethane	26	2-bromo-1-c	hloropropane	SS
2) Ethylbenzene		27	Bromodichlo	romethane	<1.
3) 2-chloroethy	lvinyl ether	<10. 28	Tetrachloro	ethylene	
4) t-1,3-dichlor	ropropene	<1. 29)	1,1,2,2-tet	rachloroethane	
5) c-1,3-dichlo	ropropene	<1. 30)	Chlorodibro	momethane	
		31	Bromoform		<10.
		32	Dichlcrodif	Tucromethane	55
Comments					
	IS = Internal SS = Surrogate	Standard u Standard	sed for qua used for qu	antitation Jality control	

Authorized: D.R. Hill DRIX

1-10-83 Date

O Brien & Gere Engineers, Inc. Box 4873 / 1304 Buckley Road / Syracuse, NY 13221 / (315) 451-4700 / CABLE OBRIENGERE Boston, MA / New York, NY / Philadelphia, PA / St. Louis, MO / Washington, DC / White Plains, NY

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JAN 17 1983

DIFTOTUR OF ENVIRONMENTSE GANATUTIAN Refore County Featth Dept 2: Jall Street BINGHANTON, N.Y. 13901 BAGTAN DEPARTMENT

SUPRITTED PY: LENT

1705 NEW YOFK STATE DEPARTMENT OF HEALTH DIVISION OF LAEORATORIES AND RESEARCH . . ENVIFORMENTAL HEALTH CENTER FINAL REPORT FINAL REPORT FINAL REPORT RESULTS OF EXAMINATION (PAGE 1 OF 2) YR/MC/DAY/HR SAMPLE REC'D: 82/12/27/11 LAE ACCESSION NC: 02152 FEFCRTING LAP: 10 EHC ALEANY FROGRAM: 126 HOUSEHCLD WATER SUPPLIES STATICN (SCURCE) NC: CRAINAGE EASIN: CE NY GAZETTEER NO: COUNTY: EROOME CCCRDINATES: DEG . "N, DEG . ** W CCMMON NAME INCL SUEW'SHED: ANITEC MAGE COPPORATION CHARLES STREET **BINGHANTON** EXACT SAMFLING POINT: WELL NO 3 RAWWATER TYPE OF SAPPLE: 12 WATER, DFILLED WELL MC/DAY/HR CF SAMPLING: FRCM CC/CC TO 12/20/10 REFERT SENT TO: CC (1) RC (1) LEHE (2) LHO (0) FED (C) CHEM (C) PARAMETER UNIT . RESULT NOTATION CC94C1 EARIUM C.9 MG/L C10309 MERCURY, TCTAL MCG/L C.4 LT C1C6C1 SILVEP MG/L C.C2 LT 309309 ARSENIC MCG/L 10. LT 369769 CADNIUN MCG/L 2. LT 305809 CHPCMIUM MCG/L 12. 310109 LEAD MCG/L 10. LT 316509 SELENIUM MCG/L 5. LT C1C2C1 MANGANESE (.17)mcL MG/L C1CCC1 IRCN MG/L C.C6 C107C1 SCDIUM MG/L ec. CC99C1 COPFER MG/L C.05 LT C1C9C1 ZINC MG/L G.13

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MAR 3 1983

DIRECTCF OF ENVIRONMENTAL SANITATION EFOCME COUNTY HEALTH DEFT 2C WALL STPEET EINGHAMTON, N.Y. 13901

B.OOM CU.I.Y BLANT DEPARTMENT SUBMITTED BY: NOTGIVEN

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FINAL REFORT

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NEW YORK STATE DEPARTMENT OF HEALTH DIVISION OF LABORATOPIES AND RESEARCH ENVIFONMENTAL HEALTH CENTER FINAL REFORT

FINAL REPORT

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RESULTS OF EXAMINATION (PAGE 2 GF 2) LAE ACCESSION NO: 02152 YF/MO/DAY/HR SAMPLE REC*D: 82/12/27/11

FEFCRTING LAB: 1G EHC ALEANY FROGRAM: 126 HOUSEHCLD WATEF SUPPLIES STATION (SCURCE) NO: DFAINAGE EASIN: C6 NY GAZETTEER NC: C3C1 COUNTY: EROOME CCCRDINATES: DEG "N, DEG "W CCMMCN NAME INCL SUEW'SHED: ANITEC MAGE CORPORATION CHARLES STREET BINGHAMTON EYACT SAMFLING FOINT: WELL NO 3 RAWWATER TYFE OF SAMPLE: 12 WATER, DFILLED WELL MC/DAY/HR OF SAMPLING: FROM CC/CC TO 12/20/10 REPORT SENT TC: CC (1) RC (1) LPHE (2) LHO (C) FED (0) CHEM (0)

PARAMETER			UNIT	RESULT	NOTATION
C114C1	CALCIUM	1. 1. 1. 1. 1. 1.	MG/L	130.	

DATE PRINTED: 2/26/83

DIRECTCR OF ENVIRONMENTAL SANITATION PROGME COUNTY HEALTH DEFT 20 WALL STREET PINGHAMTON, N.Y. 13901

SUBMITTED BY: NOTGIVEN

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GAF Broome la Soilsuriez geo: Is flourded Appalachian Plateau the there by sedimenter, rached upper Derdran the Terrochy are pactured and slightly folded test where the theodeant scills are deep, well drained grower of city formed in stratified water sorter sand yracef (chenenge & Howard grouely loang) 11 Well # 2 yield 1200 gpm # 5 yield 1200 gpm ig wife: = gravel, coarse ned the +5and aber and Einstrante water Suid - Sugarbar. L

NEW YORK STATE REGISTRY FORMS

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47-15-11(2/80)

HAZARDOUS WASTE DISPOSAL SITES REPORT NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Code: 2A				
Site Code: 704011				
Name of Site: GAF Dump		Region:	7	
County: Broome	XINVn/City	Binghamton		
Street Address_Seymour Street				

Status of Site Narrative:

Inactive facility, allegedly used as disposal area for industrial photochemical wastes. Fifty-five gallon drums of waste liquids were spilled out on the ground surface. No containment practices are in evidence and site is fenced, partially paved and currently not in use.

Type of Site: Open Dump 🖉 Trea Landfill 📿 Lago Structure 🦳	atment Pond(s) Image: Second
Estimated Size 2 Acres	
Hazardous Wastes Disposed? Confirm	med 🖾 Suspected 🖾
*Type and Quantity of Hazardous Wastes:	:
TYPE	QUANTITY (Pounds, drums, tons,
Heavy metals: silver and cadium	Unknown
organics and trichloroethylene	Unknown
t-1,2 dichoroethylene	Unknown
phenols	Unknown
intermediate dyestaffs	Unknown

* Use additional sheets if more space is needed.

Name of Current Owner of Site:	GAF Corporation				
Address of Current Owner of Site:	C/O General Counsel, GAF Corp. Building #10				
	1361 Alps Road, Wayne, NJ 07470				
Time Period Site Was Used for Hazardous Waste Disposal:					
Approx. WWII , 19	To 19				
Is site Active Active A Inactive A (Site is inactive if hazardous wastes were disposed of at this site and site was closed prior to August 25, 1979)					
Types of Samples: Air 🔼 Grou Surface Water 📿	ndwater 🗁 None 🗁 7 Soil 🗁				
Remedial Action: Proposed In Progress Completed Nature of Action: None					
Status of Legal Action: None	State 🖾 Federal 💭				
Permits Issued: Federal 💭 Solid Waste 🎞	Local Government SPDES Mined Land Wetlands Other				

Assessment of Environmental Problems:

Elevated levels of heavy metals and volatile organics have been detected in past sampling efforts. No background date is available. Site is adjacent to numerous industrial wells and the Trout Brook storm sewer. Approximately 1.5 miles to the west is Johnson City municipal well field.

Assessment of Health Problems: Unknown

Persons Completing this Form:

Frances C. Geissler

New York State Department of Environmental Conservation Date October 16, 1985

New York State Department of Health