

622017

New York State Department of Environmental Conservation
Division of Hazardous Waste Remediation
Bureau of Hazardous Site Control
Additions/Change to Registry Summary of Approvals

Site Name Rose Valley Landfill DEC I.D. Number 622~~599~~⁰¹⁷

Current Classification _____

Activity Add as Class 2 Reclassify to _____ Delist Category _____ Modify _____

Approvals.

Regional Hazardous Waste Engineer Yes No _____

NYSDOH Yes No _____

DEE Yes No _____

BHSC: a. Investigation Section Yes No _____

b. Site Control Section Robert Marini Date 8/29/91

c. Director E. J. ... Date 12/18/91

DHWR Assistant Director 198 Charles ... Date 3/24/92

Mailed 3/30/92

• 1991 ~ 92 •



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Copy—REGION
Copy—DEE
Copy—DOH
Copy—PREPARER

**ADDITIONS/CHANGES TO REGISTRY
OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES**

JAN 10 1991

1. SITE NAME Rose Valley Landfill	2. SITE NO. 622502	3. TOWN Russia	4. COUNTY Herkimer
5. REGION 6	6. CLASSIFICATION Current <u>none</u> / Proposed <u>2</u>	7. ACTIVITY <input checked="" type="checkbox"/> Add <input type="checkbox"/> Reclassify <input type="checkbox"/> Delist <input type="checkbox"/> Modify	

8a. DESCRIBE LOCATION OF SITE (Attach U.S.G.S. Topographic Map showing site location).
See Attached

b. Quadrangle Newport, NY c. Site Latitude 75°00'30" Longitude 43°15'50" d. Tax Map Number 089-1-2-29.2

9a. BRIEFLY DESCRIBE THE SITE (Attach site plan showing disposal/sampling locations).
See Attached

b. Area 91 acres c. EPA ID Number _____ d. PA/SI Yes No

e. Completed Phase I Phase II PSA Sampling

10. BRIEFLY LIST THE TYPE AND QUANTITY OF THE HAZARDOUS WASTE AND THE DATES THAT IT WAS DISPOSED OF AT THIS SITE

Trichloroethylene ^{and} F001	12/6/79
Degreasers	12/6/79

11a. SUMMARIZED SAMPLING DATA ATTACHED
 Air Groundwater Surface Water Soil Waste EP Tox TCLP

b. List contravened parameters and values
See Attached

12. SITE IMPACT DATA

a. Nearest surface water Distance 0-10 ft Direction East Classification C

b. Nearest groundwater Depth _____ ft Flow Direction _____ Sole Source Primary Principal

c. Nearest water supply Distance 100 ft Direction South Active Yes No

d. Nearest building Distance _____ ft Direction _____ Use _____

e. Crops or livestock on site? Yes No

f. Exposed hazardous waste? Yes No

g. Controlled site access? Yes No

h. Documented fish or wildlife mortality? Yes No

i. Impact on special status fish or wildlife resource? Yes No

j. Within a State Economic Development Zone? Yes No

k. For Class 2a Code Not for US Health Model Score _____

l. For Class 2 Priority Category I

m. HRS Score _____

n. Significant Threat: Yes No Unknown

13. SITE OWNER'S NAME: Gerald Crouch 14. ADDRESS: Unknown 15. TELEPHONE NUMBER: _____

16. PREPARER: Michael Sirowich Environmental Engineer I, NYSDEC
Date: 6/5/91 Name, Title and Organization: Michael Sirowich

17. APPROVED: RONALD TRAMONTANO DBEEI NYSDOH
Date: 8/17/91 Name, Title and Organization: _____
Signature: Ronald Tramontano

Call Investigation Section w/ 3

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NEW YORK STATE DEPARTMENTS OF ENVIRONMENTAL CONSERVATION AND HEALTH
INACTIVE HAZARDOUS WASTE DISPOSAL SITE PRIORITY RANKING WORKSHEET

JAN 10 1991

SITE # 622502 SITE NAME Rose Valley Landfill

- ° Priority I - Top priority sites; supersede all others. Priority I can be assigned if any of the following criteria is met:

 - a) A sole source or primary aquifer, or a public or private water supply is being contaminated or threatened, or
 - b) Human exposure to contaminants has been identified which represents a Significant health risk as determined by DOH, or
 - c) There is a bioaccumulation of site contaminants in flora or fauna which results in a health advisory, or
 - d) Site contaminants are at levels that are acutely toxic to fish or wildlife or have caused documented fish or wildlife mortality, or
 - e) An expedient response could measurably reduce the threat to health or the environment, reduce the scope of a corrective action, or reduce potential remedial costs.

- ° Priority II - Important sites. Priority II can be assigned if any of the following criteria is met:

 - a) A Class AA or a Class A surface water body or a principal aquifer is being contaminated or threatened; however, no existing water supply has been contaminated, or
 - b) There is a bioaccumulation of site contaminants in flora or fauna which results in advisory or actionable levels but below levels necessitating a health advisory, or
 - c) Site contaminants are at levels chronically toxic to fish/wildlife, or
 - d) Endangered, threatened or rare species, significant habitats, designated coastal zone areas or regulated wetlands are being impacted by releases from the site, or
 - e) The site is identified by the International Joint Commission (IJC) as a component in a Remedial Action Plan (RAP), or
 - f) The site is within a State Economic Development Zone or is targeted for local government supported development and the developer has expressed a willingness to enter into a consent order with DEC to finance investigation and remediation.

- ° Priority III - General Site Category. Priority III will be assigned unless one or more of the site prioritization criteria, specified above, apply to a site. When resources become available, after remedial needs for Priority I and II sites have been accommodated, remediation of sites under this category can be considered.

COMMENT _____

Filled out by (Name): Michael Sirowich Date: 6/5/91
approved Donald Sweredoski 6/5/91

ANALYTICAL DATA AVAILABLE:

Air- Surface Water-X Groundwater-X Soil- Sediment-

CONTRAVENTION OF STANDARDS:

Groundwater-X Drinking Water-X Surface Water-X Air-

LEGAL ACTION:

TYPE.: Consent Order State- X Federal-
STATUS: Negotiation in Progress- Order Signed-

REMEDIAL ACTION:

Proposed- Under design- In Progress- Completed-
NATURE OF ACTION:

GEOTECHNICAL INFORMATION:

SOIL TYPE:

GROUNDWATER DEPTH: Approximately 10-25 feet

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Confirmed groundwater and surface water contamination. The drinking water supply at a nearby residence was found to be contaminated above Class GA drinking water standards. Bottled water is being supplied to an affected residence.

ASSESSMENT OF HEALTH PROBLEMS:

A residential well has been impacted by site contamination. This water supply has been provided a filter system to remove contamination. All other homeowner wells within one-half mile have been tested and no contamination was found. Numerous leachate outbreaks have also been noted. Direct contact with leachate and is a concern.

NEWPORT QUADRANGLE
NEW YORK
7.5 MINUTE SERIES PLANIMETRIC

OHIO

910 000
2'30"

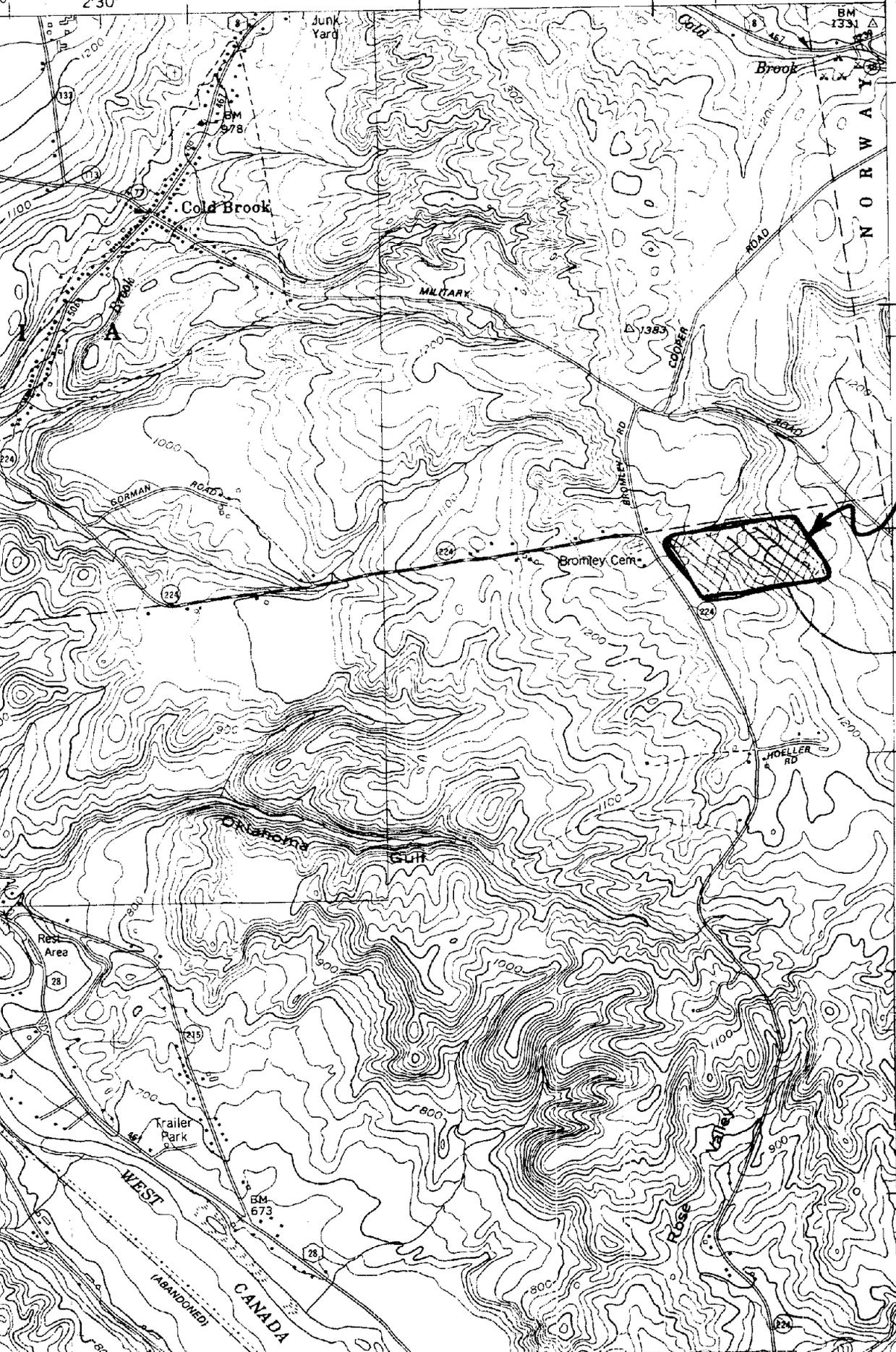
320 000
(EAST)

920 000

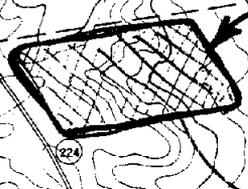
500000m. E.

75°00'

43°15'



*Rose Valley
landfill*



*Rose Va
landfill
[622*

4785000m. N.

1 170 000

12'30"

1 170 000

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JAN 10 1991

APPENDIX 4-1



Preliminary Assessment

*Rose Valley Landfill
Rose Valley Rd.
Town of Russia
Herkimer County*

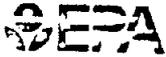
[Site ID No. 6220--]

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JAN 10 1991

 POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT		I. IDENTIFICATION	
		01 STATE	02 SITE NUMBER
			6220--
II. SITE NAME AND LOCATION			
01 SITE NAME (Legal, common, or descriptive name of site)		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER	
Rose Valley Landfill		Rose Valley Road	
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY
Russia	NY		Herkimer
07 COUNTY CODE		08 CONG. DIST.	
22			
09 COORDINATES LATITUDE		LONGITUDE	
75 00 30		43 15 50	
10 DIRECTIONS TO SITE (Starting from nearest public road)			
From NYS Route 8 north in Village of Coldbrook, turn right onto Rose Valley Road. Proceed ≈ 2 miles to jct. w/Bromely Road. The site is in front of you.			
III. RESPONSIBLE PARTIES			
01 OWNER (if known)		02 STREET (Business mailing residential)	
Gerald Crouch			
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
			()
07 OPERATOR (if known and different from owner)		08 STREET (Business mailing residential)	
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			()
13 TYPE OF OWNERSHIP (Check one)			
<input checked="" type="checkbox"/> A PRIVATE <input type="checkbox"/> B FEDERAL _____ (Agency name) <input type="checkbox"/> C STATE <input type="checkbox"/> D COUNTY <input type="checkbox"/> E MUNICIPAL <input type="checkbox"/> F OTHER: _____ <input type="checkbox"/> G UNKNOWN			
14 OWNER OPERATOR NOTIFICATION ON FILE (Check all that apply)			
<input type="checkbox"/> A RCRA 3001 DATE RECEIVED: _____ / _____ / _____ (MONTH DAY YEAR) <input type="checkbox"/> B UNCONTROLLED WASTE SITE (RCRA 103 c) DATE RECEIVED _____ / _____ / _____ (MONTH DAY YEAR) <input type="checkbox"/> C NONE			
IV. CHARACTERIZATION OF POTENTIAL HAZARD			
01 ON SITE INSPECTION		BY (Check all that apply)	
<input checked="" type="checkbox"/> YES DATE <u>5.8.91</u> / _____ / _____ (MONTH DAY YEAR) <input type="checkbox"/> NO		<input type="checkbox"/> A EPA <input type="checkbox"/> B EPA CONTRACTOR <input checked="" type="checkbox"/> C STATE <input type="checkbox"/> D OTHER CONTRACTOR <input type="checkbox"/> E LOCAL HEALTH OFFICIAL <input type="checkbox"/> F OTHER: _____ (Specify)	
CONTRACTOR NAME(S): _____			
02 SITE STATUS (Check one)		03 YEARS OF OPERATION	
<input type="checkbox"/> A ACTIVE <input checked="" type="checkbox"/> B INACTIVE <input type="checkbox"/> C UNKNOWN		_____ / _____ (BEGINNING YEAR ENDING YEAR) <input type="checkbox"/> UNKNOWN	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED			
Trichloroethylene, chlorinated solvents			
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION			
Drinking/groundwater/surface water contamination. Uncontrolled leachate.			
V. PRIORITY ASSESSMENT			
01 PRIORITY FOR INSPECTION (Check one if high or medium is checked, complete Part 2 Waste Information and Part 3 Description of Hazardous Conditions and Incidents)			
<input type="checkbox"/> A. HIGH (Inspection required promptly) <input type="checkbox"/> B. MEDIUM (Inspection required) <input type="checkbox"/> C. LOW (Inspection on time available basis) <input type="checkbox"/> D. NONE (No further action needed - complete current disposition form)			
VI. INFORMATION AVAILABLE FROM			
01 CONTACT		02 OF (Agency Organization)	
Michael Sirowich		NYSDEC	
03 TELEPHONE NUMBER		04 PERSON RESPONSIBLE FOR ASSESSMENT	
(315) 785-2513			
05 AGENCY		06 ORGANIZATION	
07 TELEPHONE NUMBER		08 DATE	
()		____ / ____ / ____ (MONTH DAY YEAR)	

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POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED _____
02 OBSERVED (DATE _____)
04 NARRATIVE DESCRIPTION _____ POTENTIAL ALLEGED

Class GA groundwater standards violated for vinyl chloride
1,1 dichloroethane, 1,2 dichloroethylene, and 1,1,1, trichloroethane

01 B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED _____
02 OBSERVED (DATE _____)
04 NARRATIVE DESCRIPTION _____ POTENTIAL ALLEGED

Class C surface water standards violated for iron, cyanide and total phenolics.

01 C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED _____
02 OBSERVED (DATE _____)
04 NARRATIVE DESCRIPTION _____ POTENTIAL ALLEGED

01 D. FIRE EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED _____
02 OBSERVED (DATE _____)
04 NARRATIVE DESCRIPTION _____ POTENTIAL ALLEGED

01 E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED _____
02 OBSERVED (DATE _____)
04 NARRATIVE DESCRIPTION _____ POTENTIAL ALLEGED

01 F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED _____
02 OBSERVED (DATE _____)
04 NARRATIVE DESCRIPTION _____ POTENTIAL ALLEGED

01 G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED _____
02 OBSERVED (DATE _____)
04 NARRATIVE DESCRIPTION _____ POTENTIAL ALLEGED

Residential well contaminated above Class GA drinking water
Standards for 1,1,1 Trichloroethane and 1,1 dichloroethane

01 H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED _____
02 OBSERVED (DATE _____)
04 NARRATIVE DESCRIPTION _____ POTENTIAL ALLEGED

01 I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED _____
02 OBSERVED (DATE _____)
04 NARRATIVE DESCRIPTION _____ POTENTIAL ALLEGED

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**POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS**

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 OBSERVED (DATE _____) POTENTIAL ALLEGED

01 K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (INCLUDE NAME(S) OF SPECIES)

02 OBSERVED (DATE _____) POTENTIAL ALLEGED

01 L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 OBSERVED (DATE _____) POTENTIAL ALLEGED

01 M. UNSTABLE CONTAINMENT OF WASTES
(SOLIDS, RUNOFF, STANDING LIQUIDS, LEAKING DUMPS)
03 POPULATION POTENTIALLY AFFECTED _____

02 OBSERVED (DATE 5/8/91) POTENTIAL ALLEGED

04 NARRATIVE DESCRIPTION

Leachate outbreaks observed onsite.

01 N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 OBSERVED (DATE _____) POTENTIAL ALLEGED

01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 OBSERVED (DATE _____) POTENTIAL ALLEGED

01 P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 OBSERVED (DATE _____) POTENTIAL ALLEGED

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

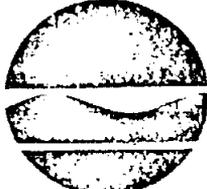
III. TOTAL POPULATION POTENTIALLY AFFECTED: Unknown

IV. COMMENTS

V. SOURCES OF INFORMATION (CITE SOURCE REFERENCES, E.G. STATE LABS, SAMPLING RECORDS)

NYSDEC REPORT: Contamination Assesemnt of Selected Landfills in New York State, March 1991, Rose Valley Landfill, Prepared by Engineering Science.

New York State Department of Environmental Conservation
317 Washington Street, Watertown, New York 13601
Fifth Floor
Phone: 782-0100, Ext. 241
December 12, 1979

File

ROBERT F. FLACKE
- Peter A. A. Berle -
Commissioner

Mr. Gerald Crouch
P. O. Box 160
Newport, New York 13316

RE: Alleged Violations of 6 NYCRR Part 360

Dear Mr. Crouch:

You operate a sanitary landfill on Rose Valley Road, in the Town of Russia, Herkimer County, New York.

On December 6, 1979, an inspector of the Department examined the above site and noted open burning of solid waste without a permit, including flammable industrial wastes. In addition, solid waste had not been covered on a daily basis, and leachate streams were again noted at the base of the landfill. These constitute violations of 6 NYCRR Part 360, the regulation governing the operation of solid waste management sites.

Our Department has had numerous contacts with you in the past. A Consent Order regarding the leachate had been sent to you in November 1978. This Department has given you solid waste management guidelines and assistance on several solid waste management problems. Accordingly, we feel that you are aware of the legal requirements involved here.

You are requested to attend a conference on January 17, 1980, at the sixth floor conference room in the sub-offices of the Department in Utica at 10:30 a.m. to discuss a settlement of these violations. Such a settlement may involve a penalty and the posting of a bond to ensure operation of the area in accordance with Part 360. A schedule of remedial actions to end the leaching of the site must be arrived at.

Please contact me or Mr. Robert Guiendon, Ext. 251, at the above address and telephone number if you have any comments or questions. It may be more convenient for you to contact Mr. Thomas Keelty at our Utica sub-office, 207 Genesee Street, Utica, New York 13501, telephone (315) 797-6120, Ext. 417.

Sincerely,

N.P. Wardwell

N. P. Wardwell, Esq.
Regional Attorney
Region 6

NPW:eo

CC: B. Mead/R. Guiendon
T. Keelty ✓

TO: BOB GUIENON / PHIL WARDWELL
 FROM: TOM KEELTY
 SUBJECT: GERALD CROUCH - ROSE VALLEY LANDFILL
 LEGAL CASE INITIATION.

DATE: 12-10-79

REPLY REQUIRED BY: _____

DATE RETURNED: _____

REPLY AT BOTTOM OF THIS FORM

THIS LANDFILL ALREADY HAD A CONSENT ORDER, ALTHOUGH MY COPY IS NOT SIGNED NOR FILE NO. I CALLED EVELYNN FOR A CASE NUMBER, AND NOW, I DON'T THINK ONE IS NECESSARY ON 12-6-79, I INSPECTED THIS LANDFILL. I AM ENCLOSING THE INSPECTION REPORT. THE FACILITY COPY MAY BE USED IN CORRESPONDENCE TO CROUCH. THE VIOLATIONS ARE: ACCEPTANCE OF FLAMMABLE INDUSTRIAL WASTE'S AND TCE, HAZARDOUS. OPEN BURNING OPERATION LEACHING AND LACK OF COVER.

THE PREVIOUS CONSENT ORDER HAS ADDRESSED LEACHATE, BUT THE BURNING, BURNING OPERATION, and HAZARDOUS WASTE USE IN BURNING AND ACCEPTANCE OF INDUS. HAZ WST. SHOULD BE ADDRESSED AT A CONFERENCE. THE CONSENT ORDER COULD THEN BE ENFORCED, AND A PENALTY COULD BE ASSESSED FOR THE HAZ WST, AND BURNING VIOLATIONS.

Crouch has recently picked-up larger volume (Dolgeville) Industrial. This has led to these operations without permit procedures

REPLY

burning vinyl, deadly gas

MUST USE TCE IN BURNING - empty storage on top of hill
 these were found by open burn pit
 with so much sludge/septic → samples needed

SECTION 1

EXECUTIVE SUMMARY

Engineering-Science, Inc. has been retained by the New York State Department of Environmental Conservation (NYSDEC) to conduct contamination assessments at selected landfills in New York State. This report presents the results of the investigation of the Rose Valley Landfill, Town of Russia, Herkimer County, New York.

The Rose Valley Landfill site has been found to be contaminating groundwater and surface water in contravention of standards and guidelines set forth in NYSDEC Title 6, New York Code of Rules and Regulations (NYCRR) Parts 701, 702 (surface water) 703 (groundwater), and NYSDOH Title 10 NYCRR Subpart 5-1 (surface water) and Part 170 (groundwater).

The most notable violation has occurred in a residential well adjacent to the Rose Valley site. Two volatile organic compounds (VOCs), 1,1-dichloroethane and 1,1,1-trichloroethane, were detected in concentrations above Class GA drinking water standards. The New York State Department of Health, Utica office, was promptly notified of this violation by the NYSDEC.

Class GA groundwater standards were violated for four VOCs: vinyl chloride, 1,1-dichloroethane, 1,2-dichloroethylene, and 1,1,1-trichloroethane in one or more samples collected from site monitoring wells and the private water supply well. Class GA groundwater standards were also violated for four inorganic parameters: barium, iron, manganese, and nitrate.

Class C surface water standards were violated for four inorganic parameters: iron, ammonia, cyanide, and total phenolics in one or more samples collected downgradient of the site. Only the standard for iron was exceeded in the upgradient samples. Six organic chemicals were detected in one or more downgradient samples: chloroethane, 1,1-dichloroethane, 1,1,1-trichloroethane, 4-methyl-2-pentanone, chlorobenzene, and total xylenes. No Class C surface water standards have been set for these compounds.

Leachate samples contained the following analytes in excess of either Class GA groundwater standards or Class C surface water standards: four organic chemicals including benzene, chlorobenzene, xylenes and 4-methylphenol; and eleven inorganic parameters including arsenic, barium, boron, chromium, iron, manganese, sodium, ammonia, cyanide, total phenolic compounds, and sulfate.

Using US Environmental Protection Agency (USEPA) guidance for attributing releases of contaminants from a site (40 CFR Part 300, Appendix A-The Hazard Ranking System, as amended 12/14/90), surface water downgradient from the site is being impacted by releases of twelve metals and ten conventional water quality parameters from the landfill in addition to those parameters which exceeded

standards. The metals are: aluminum, arsenic, barium, boron, calcium, chromium, magnesium, manganese, nickel, potassium and sodium. The conventional parameters are: biological oxygen demand (BODs), total organic carbon (TOC), chloride, chemical oxygen demand (COD), alkalinity, hardness, nitrate, total kjeldahl nitrogen (TKN), filterable residue, and total volatile solids (TVS).

The Rose Valley site is immediately underlain by a thick, relatively permeable deposit of sandy glacial drift. The drift deposit tapers to a few feet in the eastern portion of the site. The glacial drift is underlain by a glacial till of relatively low permeability, consisting of clay and silt. A major site groundwater divide is located in the middle of the site. The divide separates the site groundwater into two major flow directions. The impermeable nature of the glacial till greatly inhibits the vertical migration of site groundwater flow.

A soil gas survey conducted over landfill and surrounding site detected a contaminated groundwater plume over the landfill and the northeast toe of the landfill. The survey also detected the presence of organic vapors at the background groundwater monitoring well location and in the western portion of the property near a former smelter/landfill equipment storage area.

The aqueous samples collected from the site during the ES investigation were analyzed for Target Compound List (TCL) organic compounds (volatile and semivolatile organic compounds, pesticides, and PCBs), Target Analyte List (TAL) metals, cyanide, and conventional water quality parameters. The aqueous samples were compared to NYSDEC Class GA groundwater and/or Class C stream standards. One soil sample was analyzed for leachable pesticides and PCBs by the EP Toxicity method and for volatile and semivolatile organic compounds by EPA Method 1311 (TCLP). The results of the soil analysis were compared to RCRA standards. Two VOCs, trichloroethene and tetrachloroethene were detected below RCRA standards; however, detection of these compounds from one sample indicates the need for additional sampling to characterize the area.

This report is divided into six sections and 12 appendices. This section contains a summary of significant results and provides an overview of the entire report. Section 2 provides an introduction to the investigation including a description of the site, its background and history, the objectives of the project, and the personnel involved in completing the project. Section 3 provides a summary of the work performed, including initial project activities, field activities, and quality assurance/quality control procedures. The major results of the study are discussed in Section 4, the Site Assessment. Conclusions are presented in Section 5. Cited references are contained in Section 6.

The appendices contain the raw data and other information used to develop the assessments and conclusions presented in this report. Field procedures followed in this investigation are described in Appendix A. Background information on the Rose Valley site, including landfill operations, previously installed wells and environmental sampling are presented in Appendices B.1 through B.3. Field activities, including the soil gas survey, installation of borings and monitoring wells, a borehole geophysical survey, hydraulic conductivity testing, geotechnical sampling,

and environmental sampling are discussed and the results of these activities presented in Appendices C through G. Important support documentation for the sample collection and analysis, including field sampling records and chain-of-custody records are presented in Appendices H and I. A summary of the analytical data, the laboratory reporting forms, and the analytical data validation report are presented in Appendices K.1 through K.3. Stereo pairs of aerial photographs taken during this investigation are provided in Appendix J.

TABLE 4.3
 New York State Department of Environmental Conservation
 Landfill Contamination Assessment Rose Valley
 Volatile Organics Analytical Data

Compound	NYS CLASS		Trip											Field Blank (ug/l)	
	GA (ug/l)	(GROUNDWATER)	R-MW-1 (ug/l)	R-MW-2 (ug/l)	R-MW-3 (ug/l)	R-MW-4 (ug/l)	R-MW-5 (ug/l)	R-MW-6 (ug/l)	R-PW-1 (ug/l)	Blank (ug/l)	VHB (ug/l)	MW VHB (ug/l)	R-DW-1 (ug/l)		DW VHB (ug/l)
Vinyl Chloride	2		4	U	8J	2J	U	8J	U	U	U	U	U	U	U
1,1-Dichloroethylene	5		U	U	U	U	U	U	3J	U	U	U	U	U	U
1,1-Dichloroethane	5		8	U	13	7	U	12	18	U	U	U	U	U	U
1,2-Dichloroethylene	5		11	0.5J	73	5	U	68	U	U	U	U	U	U	U
1,1,1-Trichloroethane	5		0.9J	0.5J	U	U	0.3J	U	U	U	U	U	U	U	U
Trichloroethene	5		1	U	U	U	U	U	U	U	U	U	U	U	U
Chloroform	100		U	U	U	U	U	U	U	U	U	U	42	U	U
Bromodichloromethane	50G		U	U	U	U	U	U	U	U	U	U	4J	U	U

FOOTNOTES:

- U Compound analyzed for but not detected.
- J Indicates an estimated value. This is used when analyte is tentatively identified or positively identified with concentration less than quantitation limit but greater than zero.
- D Identifies all compounds identified in an analysis at a secondary dilution factor.
- NS No standards currently exist for indicated compound
- VHB Volatile Holding Blank, a laboratory QA sample.
- G Guidance Value.

TABLE 4.6
 New York State Department of Environmental Conservation
 Landfill Contamination Assessment Rose Valley
 Organics Analytical Data Leachate Samples

Compound	NYS STANDARD CLASS		R-LW-1	R-LW-2	R-LW-3	FIELD* BLANK (ug/l)	TRIP* BLANK (ug/l)	VBH* (ug/l)
	C (STREAM) (ug/l)	GA (GROUNDWATER) (ug/l)						
Chloroethane	NS	NS	2	1 J	3	0.2 J	-	-
1,1-Dichloroethane	NS	5	2	-	-	-	-	-
1,2-Dichloroethane	NS	5	0.05 J	-	-	-	-	-
1,2-Dichloropropane	NS	5	-	-	-	0.5 J	-	0.2 J
Benzene	6	ND	-	-	2	0.03 J	-	-
Toluene	NS	5	-	-	-	0.1 J	0.05 J	0.06
Chlorobenzene	NS	5	0.8 J	5	9	-	-	-
Ethylbenzene	NS	5	0.6 J	1	4	0.04 J	-	-
Total Xylenes	NS	5	4	0.7 J	23	0.03 J	-	-
Phenol	5 **	NS	0.7 J	-	-	-	-	-
4-Methylphenol	5 **	NS	9 J	-	-	-	-	-
Benzoic Acid (2)	NS	NS	17 J	-	-	-	-	-
Naphthalene	NS	10	1 J	-	-	-	-	-

FOOTNOTES:

- Compound analyzed for but not detected.
- J Indicates an estimated value. This is used when analyte is tentatively identified or positively identified with concentration less than quantitation limit but greater than zero.
- NS No standards currently exist for indicated compound.
- ND The indicated compound is not allowed in detectable quantities.
- * The indicated QA samples apply to leachate and surface water samples.
- ** Total non - chlorinated phenolics.

TABLE 4.7
 New York State Department of Environmental Conservation
 Landfill Contamination Assessment Rose Valley
 Metals Analytical Data Leachate Samples

Parameter	NYS STANDARD CLASS		R-LW-1 (ug/l)	R-LW-2 (ug/l)	R-LW-3 (ug/l)	FIELD * BLANK (ug/l)
	C (STREAM) (ug/l)	GA (GROUNDWATER) (ug/l)				
Aluminum	NS	NS	23,200 J	1,070 J	2,180 J	-
Arsenic	190 (1)	25	48.0 J	-	10.0 J	-
Barium	NS	100	647	158	947	-
Beryllium	(2)	NS	5.0	-	-	-
Cadmium	(3)	10	9.0 J	-	6.0 J	-
Calcium	NS	NS	221,000 BJ	165,000 BJ	167,000 BJ	220 J
Chromium	(4)	50	72.0 J	16.0 J	-	-
Copper	(5)	200	58.0	-	-	-
Iron	300	300	141,000 J	19,800 J	207,000 J	-
Magnesium	NS	35,000 (6)	57,000	31,500	31,000	-
Manganese	5000	300	1,770 J	949 J	779 J	-
Nickel	(7)	NS	82.0 B	31.0 B	-	20.0
Potassium	NS	NS	82,500	114,000	112,000	-
Sodium	NS	20,000	186,000 B	142,000 B	101,000 B	790
Zinc	NS	NS	246 J	79.0 J	76.0 J	-
Boron	10,000	1,000	1,050	1,190	1,360	-
Cr+6	11 (8)	50	17.0	16.0	14.0	-

FOOTNOTES:

- B Indicates a value greater than or equal to the instrument detection limit but less than the contract required detection limit.
- J Analyte present. Reported value may not be accurate or precise.
- * The indicated QA sample applies to leachate and surface water samples.
- (1) Dissolved form
- (2) 11 ppb if hardness is less than 75ppm, 1,100 ppb, if greater
- (3) $\exp(0.7852[\ln(\text{ppm hardness})] - 3.490)$
- (4) $\exp(0.819[\ln(\text{ppm hardness})] + 1.561)$
- (5) $\exp(0.8545[\ln(\text{ppm hardness})] - 1.465)$
- (6) Guidance value
- (7) $\exp(0.76[\ln(\text{ppm hardness})] + 1.06)$
- (8) Acid-soluble form

TABLE 4.8
 New York State Department of Environmental Conservation
 Landfill Contamination Assessment - Rose Valley
 Conventional Water Quality Parameters Analytical Data Leachate Samples

Parameter	NYS STANDARD CLASS		R-LW-1 (mg/L)	R-LW-2 (mg/L)	R-LW-3 (mg/L)	FIELD BLANK* (mg/L)
	CLASS C (mg/L)	GA (mg/L)				
Total Alkalinity	NS	NS	1,010	1,150	1,170	NA
Ammonia	6.8	NS	86.0	148	130	<0.05
BOD5	NS	NS	35.9 (1)	46.7	65.6	NA
TOC	NS	NS	128	77.4	92.2	NA
Chloride	NS	250	223	141	83.2	NA
COD	NS	NS	393	222	262	NA
Color	NS	NS	600	275	175	NA
Total Cyanide	0.0052 (2)	0.1	0.017	0.013	0.016	<0.01
Total Hardness	NS	NS	745	653	541	NA
Nitrate	NS	10	0.32	1.6	1.2	NA
TKN	NS	NS	158	245	230	<0.1
Total Recoverable Phenolics	0.001	0.001	0.018	0.012	0.010	NA
Filterable Residue	NS	NS	1,250	1,260	1,080	NA
Sulfate	NS	250	4,900	8.8	10.5	NA
MBAS	NS	NS	0.078	0.18	0.12	NA
TVS	NS	NS	2,670	272	528	NA

FOOTNOTES:

- (1) Sample exhibited toxicity, the value reported is the minimum possible value.
- NS No standards currently exist for indicated compound
- (2) As free cyanide- the sum of HCN and CN⁻ expressed as CN.
- * The indicated QA sample applies to leachate and surface water samples.
- NA Not analyzed for indicated parameter.

TABLE 4.9
 New York State Department of Environmental Conservation
 Landfill Contamination Assessment Rose Valley
 Volatile Organics Analytical Data Surface Water Samples

Compound	NYS CLASS		R-SW-1	R-SW-3	R-SW-4	R-SW-5	R-SW-6
	C	(STREAM)					
Chloroethane	NS		-	2	-	-	-
1,1-Dichloroethane	NS		-	14	-	-	-
1,1,1-Trichloroethane	NS		-	3	-	-	-
4-Methyl-2-pentanone	NS		-	0.5 J	-	-	-
Chlorobenzene	NS		-	-	0.7 J	0.3 J	-
Total Xylenes	NS		-	0.3 J	0.6 J	-	-

FOOTNOTES:

- Compound analyzed for but not detected.
- J Indicates an estimated value. This is used when analyte is tentatively identified or positively identified with concentration less than quantitation limit but greater than zero.
- NS No standards currently exist for indicated compound.

TABLE 4.11
 New York State Department of Environmental Conservation
 Landfill Contamination Assessment Rose Valley
 Conventional Water Quality Parameters Analytical Data Surface Water Samples

Parameter	NYS CLASS		R-SW-1 (mg/L)	R-SW-3 (mg/L)	R-SW-4 (mg/L)	R-SW-5 (mg/L)	R-SW-6 (mg/L)
	C (STREAM) (mg/L)						
Total Alkalinity	NS		50	480	1,020	635	15.4
Ammonia	6.8		0.081	6.2	134	61.2	0.085
BOD5	NS		<2	2.5	18.9	13.9	<2
TOC	NS		2.2	46.7	65.6	31.5	2.9
Chloride	NS		<1.0	38.9	170	76.6	1.0
COD	NS		<5	102	134	75.3	<5
Color	NS		25	15	30	60	30
Total Cyanide	0.0052 (1)		<0.01	<0.01	0.011	<0.01	<0.01
Total Hardness	NS		43.4	457	422	396	60.8
Nitrate	NS		<0.05	0.62	10.7	7.7	0.05
TKN	NS		<0.1	18.3	240	110	<0.1
Total Recoverable							
Phenolics	0.001		<0.006	<0.006	0.007	<0.006	<0.009
Filterable Residue	NS		106	575	1,150	750	136
Sulfate	NS		6.7	15.2	15.9	4.7	6.2
MBAS	NS		0.032	<0.025	0.086	0.055	<0.025
TVS	NS		16	178	242	89	12

FOOTNOTES:

(1) As free cyanide – the sum of HCN and CN– expressed as CN.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

LEGAL CASE STATUS SYSTEM

CASE INITIATION FORM

(Please PRINT)

CASE NUMBER 6-0228

PROGRAM SOLID WASTE | 3
CODE

CASE NAME: ROSE VALLEY LANDFILL REGNL CITATION ECL PART 360

MR GERRALD CROUCH - OPERATOR

ADDRESS:

~~STANLEY ROAD #1~~ P.O. Box 160

CITY:

~~COLD SPRINGS~~ NEWPORT

ZIP: 16
1335

COUNTY: HERKIMER |
SWIS CODE

DATE CASE INITIATED: 12 | 10 | 79
MO | DAY | YEAR

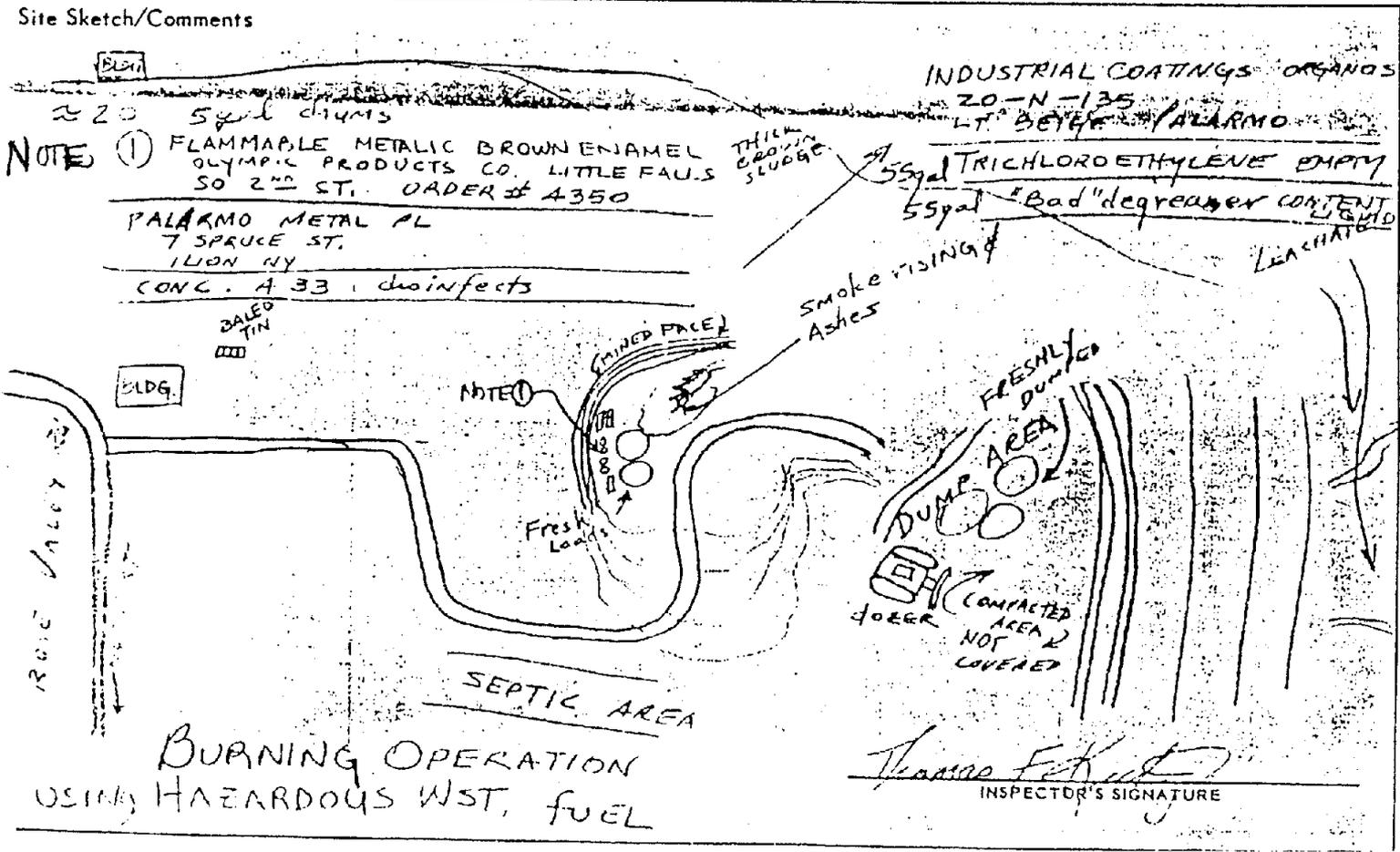
REFERRED BY: THOMAS F KEELTY

DESCRIPTION OF CASE: SEVERAL PART 360 VIOLATIONS
OPEN BURNING OPERATION
LEACHING OFF PREMISES
NOT COVERING DAILY
HAZARDOUS WASTE IN BURN OPERATION
PLUS SEVERAL CHEMICAL INDUSTRIAL WASTES ACCEPTED

OTHER COMMENTS:

3. Is leachate known to be contravening groundwater standards?	24		22
4. Is refuse being placed into water?	25		<input type="checkbox"/>
II. BURNING			
5. Is refuse burning without permit, or not under permit conditions?	26		24
6. Is there evidence of unapproved previous burning?	27		<input type="checkbox"/> SMOLDERING ASHES
III. COVER			
7. Is previous day's refuse <u>not</u> covered?	28		26
8. Is refuse protruding through daily, intermediate or final cover?	29		<input type="checkbox"/>
9. Is intermediate or final cover <u>not</u> in place, or improperly applied?	30		<input type="checkbox"/>
10. Is wrong cover material used?	31		<input type="checkbox"/>
IV. GRADING			
11. Are there depressions, ponding, cracked cover, too steep slopes?	32		28
12. On completed areas, is the vegetative cover missing or inadequate?	33		<input type="checkbox"/>
13. Are there soil erosion or other drainage problems?	34		<input type="checkbox"/>
V. SEPARATION DISTANCES			
14. Is refuse closer than 50 feet to site boundaries?	35		30
15. Is refuse known to be less than 5 feet above groundwater?	36		<input type="checkbox"/>
16. Is refuse known to be less than ___ feet above surface water?	37		<input type="checkbox"/>
VI. NUISANCE CONDITIONS			
17. Are odors detectable off-site?	38		32
18. Is blowing dust or dirt excessive or a nuisance?	39		<input type="checkbox"/>
19. Are papers uncontrolled, or blowing off-site?	40		<input type="checkbox"/>
20. Is methane gas known to be leaving the site?	41		<input type="checkbox"/>
21. Is noise excessive off-site?	42		<input type="checkbox"/>
VII. OPERATION CONTROL			
22. Are Operation Permit conditions being violated?	43		34
23. Is refuse being deposited in a too large area?	44		<input type="checkbox"/>
24. Is refuse spread in layers thicker than 2 feet?	45		<input type="checkbox"/>
25. Is refuse being compacted poorly?	46		<input type="checkbox"/>
26. Is the working face height greater than 10 feet?	47		<input type="checkbox"/>
27. Is the working face steeper than a 3 to 1 slope?	48		<input type="checkbox"/>
28. Is the equipment on site <u>not</u> adequate for proper operation?	49		<input type="checkbox"/>
VIII. SAFETY AND HEALTH			
29. Are scavengers present?	50		36
30. Is salvaging uncontrolled or creating a nuisance?	51		<input type="checkbox"/>
31. Are rodents and insects <u>not</u> controlled?	52		<input type="checkbox"/>
32. Do unsafe conditions or equipment exist?	53		<input type="checkbox"/>
IX. ACCESS CONTROL			
33. Is access to the site improperly or inadequately controlled?	54		38
34. Is the site open without an attendant?	55		<input type="checkbox"/>
35. Is information about the site <u>not</u> posted? (hours of operation, etc.)	56		<input type="checkbox"/>
36. Is access to the operating area poor or unsafe?	57		<input type="checkbox"/>

*NOTE: For these questions, see the "Background Information Sheet" for this facility.





STATE OF NEW YORK
DEPARTMENT OF HEALTH

Syracuse Field Office

677 South Salina Street

Syracuse, NY 13202-3592

David Axelrod, M.D.
Commissioner

September 3, 1991

RECEIVED

OFFICE OF PUBLIC HEALTH
Linda Randolph, M.D., M.P.H.
Director

SEP 04 1991

NEW YORK STATE DEPARTMENT OF HEALTH
OFFICE OF PUBLIC HEALTH
REGIONAL ENGINEER

Mr. Darrell Sweredoski
NYSDEC Region 6
State Office Building
Watertown, NY 13601

RE: Rose Valley Landfill
(T) Newport, Herkimer Co.
Residential Water Samples, 1991

Dear Darrell:

As you know, there have been several private residential well sampling surveys performed in the vicinity of the Rose Valley Landfill since 1986. The latest round of samples was taken April 4th, 1991, and included four residential supplies. I am enclosing those results for your examination.

Of concern is the Putnam residence, which is a trailer on the landfill property, where significant levels of three organic chemicals were found in the well. 1,1-Dichloroethane, 1,1,1-trichloroethane, and methyl ethyl ketone* were found at 27, 49, and 870 mcg/l respectively. Metals results, with the exception of iron at 3680 ppb, were unremarkable.

The level of organic contamination of the Putnam well is clear evidence of a groundwater problem which bears further investigating. The possible sources and localized groundwater flow directions are uncertain at this time. Contamination, on what is considered the upgradient side of the landfill, raises new questions on potential paths of contaminant migration.

Perhaps if these results were added to the Registry listing package it would be strengthened enough for a favorable decision to be made. While Mr. Putnam has been apprised of these results by our Utica office, drinking water alternatives are limited and treatment could be provided as a removal action using Superfund monies if the site were listed. We will be resampling this and other nearby residences shortly.

If you have any questions, please call me at 315-426-7613.

Sincerely,

Ronald Heerkens
Program Research Specialist III
Regional Toxics Coordinator

* 2-butanone

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 911165 SAMPLE RECEIVED: 91/04/09/ CHARGE: 35.50
 PROGRAM: 106: BUREAU OF ENVIRONMENTAL EXPOSURE INVESTIGATION
 SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 2159
 POLITICAL SUBDIVISION: NEWPORT COUNTY: HERKIMER
 LATITUDE: LONGITUDE: Z DIRECTION:
 LOCATION: ROSE VALLEY SURVEY
 DESCRIPTION: PUTNAM RES.
 REPORTING LAB: TOX; LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 TEST PATTERN: AQUEOUS-1: VOLATILES, KETONES, PESTICIDES, PCB'S, PRIORITY POLLUTANTS
 SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
 TIME OF SAMPLING: 91/04/04 14: DATE PRINTED: 91/04/24

ANALYSIS: VHO5021 VOLATILE HALOGENATED ORGANICS (DES 310-29)
 DATE REPORTED: 91/04/19 REPORT MAILED OUT

-----PARAMETER-----	-----RESULT-----
CHLOROMETHANE	< 0.5 MCG/L
BROMOMETHANE	< 0.5 MCG/L
VINYL CHLORIDE	< 0.5 MCG/L
DICHLORODIFLUOROMETHANE (FREON-12)	< 0.5 MCG/L
CHLOROETHANE	< 0.5 MCG/L
METHYLENE CHLORIDE (DICHLOROMETHANE)	< 0.5 MCG/L
TRICHLOROFLUOROMETHANE (FREON-11)	< 0.5 MCG/L
1,1-DICHLOROETHENE	< 0.5 MCG/L
1,1-DICHLOROETHANE	27. MCG/L ←
TRANS-1,2-DICHLOROETHENE	< 0.5 MCG/L
CIS-1,2-DICHLOROETHENE	< 0.5 MCG/L
CHLOROFORM	< 0.5 MCG/L
1,2-DICHLOROETHANE	< 0.5 MCG/L
DIBROMOMETHANE	< 0.5 MCG/L
1,1,1-TRICHLOROETHANE	49. MCG/L ←
CARBON TETRACHLORIDE	< 0.5 MCG/L
BROMODICHLOROMETHANE	< 0.5 MCG/L
2,3-DICHLOROPROPENE	< 0.5 MCG/L
1,2-DICHLOROPROPANE	< 0.5 MCG/L
CIS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
TRICHLOROETHENE	< 0.5 MCG/L
1,3-DICHLOROPROPANE	< 0.5 MCG/L
DIBROMOCHLOROMETHANE	< 0.5 MCG/L
TRANS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
1,1,2-TRICHLOROETHANE	< 0.5 MCG/L
1,2-DIBROMOETHANE (EDB)	< 0.5 MCG/L
2-CHLOROETHYL VINYL ETHER	< 0.5 MCG/L
BROMOFORM	< 0.5 MCG/L
1,1,1,2-TETRACHLOROETHANE	< 0.5 MCG/L
1,2,3-TRICHLOROPROPANE	< 0.5 MCG/L

**** CONTINUED ON NEXT PAGE ****

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 677 SOUTH SALINA STREET
 SYRACUSE, N.Y. 13202

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PAGE 3

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 911165 SAMPLE RECEIVED: 91/04/09/ CHARGE: 35.50
 POLITICAL SUBDIVISION: NEWPORT COUNTY: HERKIMER
 LOCATION: ROSE VALLEY SURVEY
 TIME OF SAMPLING: 91/04/04 14: DATE PRINTED: 91/04/24

ANALYSIS: KET KETONES - PURGE & TRAP TECHNIQUE (DES 310-25)
 DATE PRINTED: 91/04/24 FINAL REPORT

PARAMETER	RESULT
2-BUTANONE (METHYL ETHYL KETONE)	870. MCG/L ←
4-METHYL-2-PENTANONE (MIBK)	< 10. MCG/L
ACETONE	< 10. MCG/L
METHYL TERT BUTYL ETHER	10. MCG/L [PL]

ANALYSIS: XPEST-PCB ORGANOCHLORINE PESTICIDES & PCB'S (DES310-2)
 DATE REPORTED: 91/04/22 REPORT MAILED OUT

PARAMETER	RESULT
HCH, ALPHA	< 0.04 MCG/L
HCH, BETA	< 0.04 MCG/L
HCH, GAMMA (LINDANE)	< 0.04 MCG/L
HCH, DELTA	< 0.04 MCG/L
HEPTACHLOR	< 0.05 MCG/L
ALDRIN	< 0.02 MCG/L
HEPTACHLOR EPOXIDE	< 0.05 MCG/L
ENDOSULFAN I	< 0.05 MCG/L
4,4'-DDE	< 0.05 MCG/L
DIELDRIN	< 0.02 MCG/L
ENDRIN	< 0.02 MCG/L
4,4'-DDD	< 0.05 MCG/L
ENDOSULFAN II	< 0.05 MCG/L
ENDRIN ALDEHYDE	< 0.02 MCG/L
ENDOSULFAN SULFATE	< 0.05 MCG/L
4,4'-DDT	< 0.05 MCG/L
METHOXYCHLOR	< 0.5 MCG/L
TOXAPHENE	< 1.0 MCG/L
CHLORDANE	< 0.1 MCG/L
MIREX	< 0.05 MCG/L
PCB, AROCLOR 1221	< 0.05 MCG/L
PCB, AROCLOR 1016/1242	< 0.05 MCG/L
PCB, AROCLOR 1248	< 0.05 MCG/L
PCB, AROCLOR 1254	< 0.05 MCG/L
PCB, AROCLOR 1260	< 0.05 MCG/L

ANALYSIS: GC-FID-A PRIORITY POLLUTANTS*ACIDS*GC/FID RESULTS
 DATE REPORTED: 91/04/22 REPORT MAILED OUT

PARAMETER	RESULT
PHENOL	< 10. MCG/L
2-CHLOROPHENOL	< 10. MCG/L
2-NITROPHENOL	< 10. MCG/L
2,4-DIMETHYLPHENOL	< 10. MCG/L
2,4-DICHLOROPHENOL	< 10. MCG/L
4-CHLORO-3-METHYLPHENOL	< 10. MCG/L

**** CONTINUED ON NEXT PAGE ****

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 911000889 SAMPLE RECEIVED: 91/04/09/15 CHARGE: 6.17
 PROGRAM: 106: BUREAU OF ENVIRONMENTAL EXPOSURE INVESTIGATION
 SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 2159
 POLITICAL SUBDIVISION: NEWPORT COUNTY: HERKIMER
 LATITUDE: LONGITUDE: Z DIRECTION:
 LOCATION: ROSE VALLEY SURVEY
 DESCRIPTION: PUTNAM RES
 REPORTING LAB: 10: LABORATORY OF INORGANIC ANALYTICAL CHEMISTRY - ALBANY
 TEST PATTERN: 10-073: OCSS-I SAFE DRINKING WATER ACT + CORROSIVITY
 SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
 TIME OF SAMPLING: 91/04/04 14:00 DATE PRINTED: 91/05/14

PARAMETER	RESULT
TEMPERATURE, WATER, FIELD	NOT REPT [NA]
PH	7.68
ALKALINITY TO PH 4.5	234. MG/L
SOLIDS, TOTAL DISSOLVED, 180 C	244. MG/L
LANGELIER INDEX - AT 20C	+0.33

ANALYSIS: ICP-1 ICP GROUPING 1

PARAMETER	RESULT
MERCURY	< 0.2 MCG/L
ARSENIC	< 10. MCG/L
SELENIUM	< 5. MCG/L
LEAD	< 10. MCG/L
BERYLLIUM	< 1. MCG/L
SILVER	< 10. MCG/L
BARIUM	13. MCG/L
CADMIUM	< 5. MCG/L
COBALT	< 5. MCG/L
CHROMIUM	< 5. MCG/L
COPPER	7. MCG/L
IRON	3680. MCG/L
MANGANESE	28. MCG/L
NICKEL	< 5. MCG/L
STRONTIUM	205. MCG/L
TITANIUM	< 5. MCG/L
VANADIUM	< 5. MCG/L
ZINC	47. MCG/L
MOLYBDENUM	< 20. MCG/L
ANTIMONY	< 80. MCG/L
TIN	< 50. MCG/L
THALLIUM	< 80. MCG/L
ALUMINUM	< 100. MCG/L
CALCIUM	65.8 MG/L

*** CONTINUED ON NEXT PAGE ***

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NEW YORK STATE DEPARTMENT OF HEALTH
 WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 2

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 911163 SAMPLE RECEIVED: 91/04/09/ CHARGE: 15.00
 POLITICAL SUBDIVISION: NEWPORT COUNTY: HERKIMER
 LOCATION: ROSE VALLEY SURVEY
 TIME OF SAMPLING: 91/04/04 14: DATE PRINTED: 91/04/24

PARAMETER	RESULT
1,1,2,2-TETRACHLOROETHANE	< 0.5 MCG/L
TETRACHLOROETHENE	< 0.5 MCG/L
PENTACHLOROETHANE	< 0.5 MCG/L
1-CHLOROCYCLOHEXANE-1	< 0.5 MCG/L
CHLOROBENZENE	< 0.5 MCG/L
BIS(2-CHLOROETHYL)ETHER	< 0.5 MCG/L
1,2-DIBROMO-3-CHLOROPROPANE	< 0.5 MCG/L
BROMOBENZENE	< 0.5 MCG/L
O-CHLOROTOLUENE	< 0.5 MCG/L
BIS(2-CHLOROISOPROPYL)ETHER	< 0.5 MCG/L
1,3-DICHLOROBENZENE	< 0.5 MCG/L
1,2-DICHLOROBENZENE	< 0.5 MCG/L
1,4-DICHLOROBENZENE	< 0.5 MCG/L

ANALYSIS: 5031 AROMATIC PURGEABLES, EPA METHOD 503.1 (DES 310-22)
 DATE PRINTED: 91/04/24 FINAL REPORT

PARAMETER	RESULT
BENZENE	< 0.5 MCG/L
TOLUENE	< 0.5 MCG/L
ETHYLBENZENE	< 0.5 MCG/L
P-XYLENE	< 0.5 MCG/L
M-XYLENE	< 0.5 MCG/L
O-XYLENE	< 0.5 MCG/L
ISOPROPYLBENZENE (CUMENE)	< 0.5 MCG/L
STYRENE	< 0.5 MCG/L
P-BROMOFLUOROBENZENE	< 0.5 MCG/L
N-PROPYLBENZENE	< 0.5 MCG/L
TERT-BUTYLBENZENE	< 0.5 MCG/L
P-CHLOROTOLUENE	< 0.5 MCG/L
M-CHLOROTOLUENE	< 0.5 MCG/L
1,3,5-TRIMETHYLBENZENE	< 0.5 MCG/L
1,2,4-TRIMETHYLBENZENE	< 0.5 MCG/L
4-ISOPROPYLTOLUENE (P-CYMENE)	< 0.5 MCG/L
CYCLOPROPYLBENZENE	< 0.5 MCG/L
SEC-BUTYLBENZENE	< 0.5 MCG/L
N-BUTYLBENZENE	< 0.5 MCG/L
2,3-BENZOFURAN	< 0.5 MCG/L
HEXACHLOROBUTADIENE (C-46)	< 0.5 MCG/L
1,2,4-TRICHLOROBENZENE	< 0.5 MCG/L
NAPHTHALENE	< 0.5 MCG/L
1,2,3-TRICHLOROBENZENE	< 0.5 MCG/L
PH OF AROMATIC ALIQUOT	2

**** END OF REPORT ****

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 911164 SAMPLE RECEIVED: 91/04/09/ CHARGE: 15.00
 PROGRAM: 106: BUREAU OF ENVIRONMENTAL EXPOSURE INVESTIGATION
 SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 2159
 POLITICAL SUBDIVISION: NEWPORT COUNTY: HERKIMER
 LATITUDE: LONGITUDE: Z DIRECTION:
 LOCATION: ROSE VALLEY SURVEY
 DESCRIPTION: GROWER RES.
 REPORTING LAB: TOX; LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 TEST PATTERN: VOL3: PURGEABLES - HALOGENATED AND AROMATICS
 SAMPLE TYPE: 120: PRIVATE WATER SUPPLY - DRILLED WELL
 TIME OF SAMPLING: 91/04/04 14: DATE PRINTED: 91/04/24

ANALYSIS: VH05021 VOLATILE HALOGENATED ORGANICS (DES 310-29)
 DATE REPORTED: 91/04/19 REPORT MAILED OUT

PARAMETER	RESULT
CHLOROMETHANE	< 0.5 MCG/L
BROMOMETHANE	< 0.5 MCG/L
VINYL CHLORIDE	< 0.5 MCG/L
DICHLORODIFLUOROMETHANE (FREON-12)	< 0.5 MCG/L
CHLOROETHANE	< 0.5 MCG/L
METHYLENE CHLORIDE (DICHLOROMETHANE)	< 0.5 MCG/L
TRICHLOROFLUOROMETHANE (FREON-11)	< 0.5 MCG/L
1,1-DICHLOROETHENE	< 0.5 MCG/L
1,1-DICHLOROETHANE	< 0.5 MCG/L
TRANS-1,2-DICHLOROETHENE	< 0.5 MCG/L
CIS-1,2-DICHLOROETHENE	< 0.5 MCG/L
CHLOROFORM	< 0.5 MCG/L
1,2-DICHLOROETHANE	< 0.5 MCG/L
DIBROMOMETHANE	< 0.5 MCG/L
1,1,1-TRICHLOROETHANE	< 0.5 MCG/L
CARBON TETRACHLORIDE	< 0.5 MCG/L
BROMODICHLOROMETHANE	< 0.5 MCG/L
2,3-DICHLOROPROPENE	< 0.5 MCG/L
1,2-DICHLOROPROPANE	< 0.5 MCG/L
CIS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
TRICHLOROETHENE	< 0.5 MCG/L
1,3-DICHLOROPROPANE	< 0.5 MCG/L
DIBROMOCHLOROMETHANE	< 0.5 MCG/L
TRANS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
1,1,2-TRICHLOROETHANE	< 0.5 MCG/L
1,2-DIBROMOETHANE (EDB)	< 0.5 MCG/L
2-CHLOROETHYL VINYL ETHER	< 0.5 MCG/L
BROMOFORM	< 0.5 MCG/L
1,1,1,2-TETRACHLOROETHANE	< 0.5 MCG/L
1,2,3-TRICHLOROPROPANE	< 0.5 MCG/L

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REGIONAL DIRECTOR OF PH ENGINEERING
 NEW YORK STATE DEPARTMENT OF HEALTH
 677 SOUTH SALINA STREET
 SYRACUSE, N.Y. 13202

SUBMITTED BY: GREEN

PAGE 2

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 911164 SAMPLE RECEIVED: 91/04/09/ CHARGE: 15.00
 POLITICAL SUBDIVISION: NEWPORT COUNTY: HERKIMER
 LOCATION: ROSE VALLEY SURVEY
 TIME OF SAMPLING: 91/04/04 14: DATE PRINTED: 91/04/24

PARAMETER	RESULT
1,1,2,2-TETRACHLOROETHANE	< 0.5 MCG/L
TETRACHLOROETHENE	< 0.5 MCG/L
PENTACHLOROETHANE	< 0.5 MCG/L
1-CHLOROCYCLOHEXENE-1	< 0.5 MCG/L
CHLOROBENZENE	< 0.5 MCG/L
BIS(2-CHLOROETHYL)ETHER	< 0.5 MCG/L
1,2-DIBROMO-3-CHLOROPROPANE	< 0.5 MCG/L
BROMOBENZENE	< 0.5 MCG/L
O-CHLOROTOLUENE	< 0.5 MCG/L
BIS(2-CHLOROISOPROPYL)ETHER	< 0.5 MCG/L
1,3-DICHLOROBENZENE	< 0.5 MCG/L
1,2-DICHLOROBENZENE	< 0.5 MCG/L
1,4-DICHLOROBENZENE	< 0.5 MCG/L

ANALYSIS: 5031 AROMATIC PURGEABLES, EPA METHOD 503.1 (DES 310-22)
 DATE PRINTED: 91/04/24 FINAL REPORT

PARAMETER	RESULT
BENZENE	< 0.5 MCG/L
TOLUENE	< 0.5 MCG/L
ETHYLBENZENE	< 0.5 MCG/L
P-XYLENE	< 0.5 MCG/L
M-XYLENE	< 0.5 MCG/L
O-XYLENE	< 0.5 MCG/L
ISOPROPYLBENZENE (CUMENE)	< 0.5 MCG/L
STYRENE	< 0.5 MCG/L
P-BROMOFLUOROBENZENE	< 0.5 MCG/L
N-PROPYLBENZENE	< 0.5 MCG/L
TERT-BUTYLBENZENE	< 0.5 MCG/L
P-CHLOROTOLUENE	< 0.5 MCG/L
M-CHLOROTOLUENE	< 0.5 MCG/L
1,3,5-TRIMETHYLBENZENE	< 0.5 MCG/L
1,2,4-TRIMETHYLBENZENE	< 0.5 MCG/L
4-ISOPROPYLTOLUENE (P-CYMENE)	< 0.5 MCG/L
CYCLOPROPYLBENZENE	< 0.5 MCG/L
SEC-BUTYLBENZENE	< 0.5 MCG/L
N-BUTYLBENZENE	< 0.5 MCG/L
2,3-BENZOFURAN	< 0.5 MCG/L
HEXACHLOROBUTADIENE (C-46)	< 0.5 MCG/L
1,2,4-TRICHLOROBENZENE	< 0.5 MCG/L
NAPHTHALENE	< 0.5 MCG/L
1,2,3-TRICHLOROBENZENE	< 0.5 MCG/L
PH OF AROMATIC ALIQUOT	2

**** END OF REPORT ****

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

PAGE 1

RESULTS OF EXAMINATION

FINAL REPORT

SAMPLE ID: 911166 SAMPLE RECEIVED: 91/04/09/ CHARGE: 8.00
 PROGRAM: 106: BUREAU OF ENVIRONMENTAL EXPOSURE INVESTIGATION
 SOURCE ID: DRAINAGE BASIN: GAZETTEER CODE: 2159
 POLITICAL SUBDIVISION: NEWPORT COUNTY: HERKIMER
 LATITUDE: LONGITUDE: Z DIRECTION:
 LOCATION: FIELD BLANK - ROSE VALLEY
 DESCRIPTION: WITH SAMPLE #911162-911165 DATE PREPARED 8/30/90
 REPORTING LAB: TOX: LAB FOR ORGANIC ANALYTICAL CHEMISTRY
 TEST PATTERN: VHO5021: VOLATILE HALOGENATED ORGANICS
 SAMPLE TYPE: 297: FIELD BLANK / TRIP BLANK
 TIME OF SAMPLING: 91/04/04 : DATE PRINTED: 91/04/19

ANALYSIS: VHO5021 VOLATILE HALOGENATED ORGANICS (DES 310-29)
 DATE PRINTED: 91/04/19 FINAL REPORT

PARAMETER	RESULT
CHLOROMETHANE	< 0.5 MCG/L
BROMOMETHANE	< 0.5 MCG/L
VINYL CHLORIDE	< 0.5 MCG/L
DICHLORODIFLUOROMETHANE (FREON-12)	< 0.5 MCG/L
CHLOROETHANE	< 0.5 MCG/L
METHYLENE CHLORIDE (DICHLOROMETHANE)	< 0.5 MCG/L
TRICHLOROFLUOROMETHANE (FREON-11)	< 0.5 MCG/L
1,1-DICHLOROETHENE	< 0.5 MCG/L
1,1-DICHLOROETHANE	< 0.5 MCG/L
TRANS-1,2-DICHLOROETHENE	< 0.5 MCG/L
CIS-1,2-DICHLOROETHENE	< 0.5 MCG/L
CHLOROFORM	< 0.5 MCG/L
1,2-DICHLOROETHANE	< 0.5 MCG/L
DIBROMOMETHANE	< 0.5 MCG/L
1,1,1-TRICHLOROETHANE	< 0.5 MCG/L
CARBON TETRACHLORIDE	< 0.5 MCG/L
BROMODICHLOROMETHANE	< 0.5 MCG/L
2,3-DICHLOROPROPENE	< 0.5 MCG/L
1,2-DICHLOROPROPANE	< 0.5 MCG/L
CIS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
TRICHLOROETHENE	< 0.5 MCG/L
1,3-DICHLOROPROPANE	< 0.5 MCG/L
DIBROMOCHLOROMETHANE	< 0.5 MCG/L
TRANS-1,3-DICHLOROPROPENE	< 0.5 MCG/L
1,1,2-TRICHLOROETHANE	< 0.5 MCG/L
1,2-DIBROMOETHANE (EDB)	< 0.5 MCG/L
2-CHLOROETHYL VINYL ETHER	< 0.5 MCG/L
BROMOFORM	< 0.5 MCG/L
1,1,1,2-TETRACHLOROETHANE	< 0.5 MCG/L
1,2,3-TRICHLOROPROPANE	< 0.5 MCG/L

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 NEW YORK STATE DEPARTMENT OF HEALTH
 677 SOUTH SALINA STREET
 SYRACUSE, N.Y. 13202

SUBMITTED BY: GREEN



DRAFT

New York State Department of Environmental Conservation

FILE COPY

Originator TMK

Reviewer PJM

Reviewer ZAS

MEMORANDUM

TO: David Markell, Director, Division of Environmental Enforcement
FROM: Michael J. O'Toole, Jr., Director, Division of Hazardous Waste Remediation
SUBJECT: Class 2 Referral - **Rose Valley Landfill, Site No. 6220**

DATE:

The following site has recently been classified to Class 2:

Rose Valley Landfill
 Site ID No. 6220
 Town of Russia; Herkimer County

The hazardous wastes disposed are:

- . 1,1,1-trichloroethane (F001)
- . 2-Butanone (F005)
- . Other waste solvents (F001)

The significant threat is due to:

Contamination of groundwater at levels exceeding Class GA drinking water standards. A local drinking water supply has been impacted.

Potentially responsible party is:

Gerald Crouch
 Address unknown

This site has been given a priority category of I. It should be considered along with other sites during your continuous workplanning process.

More information regarding this site may be obtained from Michael Sirowich at (315) 785-2513.

cc: M. Sirowich

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Gerald Crouch
~~Box 224 A~~
~~Newport, New York~~ 13416

*Current address;
340 Baywest Neighbors Circle
Orlando
Florida 32811*

Dear Ladies/Gentlemen:

As mandated by Section 27-1305 of the Environmental Conservation Law (ECL), copy enclosed, the New York State Department of Environmental Conservation (NYSDEC) must maintain a registry of all inactive disposal sites suspected or known to contain hazardous wastes. The ECL also mandates that this Department notify, by certified mail, the owner of all or any part of each site or area included in the Registry of Inactive Hazardous Waste Disposal Sites.

Our records indicate that you represent the owner or part owner of the site listed below. Therefore, this letter constitutes notification of the inclusion of such site in the Registry of Inactive Hazardous Waste Disposal Sites in New York State.

DEC Site No.: 622017
Site Name: Rose Valley Landfill
Site Address: Rose Valley Road, Russia, NY 13431
Site Classification: 2

Enclosed is a copy of the New York State Department of Environmental Conservation, Division of Hazardous Waste Remediation, Inactive Hazardous Waste Disposal Site Report form as it appears in the Registry and Annual Report, and an explanation of the site classifications. The Law allows the owner and/or operator of a site listed in the Registry to petition the Commissioner of the New York State Department of Environmental Conservation for deletion of such site, modification of site classification, or modification of any information regarding such site, by submitting a written statement setting forth the grounds of the petition. Such petition may be addressed to:

Mr. Thomas C. Jorling
Commissioner
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233-1010

Rose Valley Landfill

Page 2

For additional information, please contact me, at (518) 457-0747.

Sincerely,

Robert L. Marino
Chief
Site Control Section
Bureau of Hazardous Site Control
Division of Hazardous Waste Remediation

Enclosures