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 LANCASTER SANITARY LF **DEC I.D. NUMBER** 915068

Current Classification 2a

Activity: ☐ Add as Class ___ ☑ Reclassify to 4 ☐ Delist Category ___ ☐ Modify ___

Approvals:

Regional Hazardous Waste Engineer	Yes	☑	No	☐	P. Buechi concurs per phone con between he and E. BARCOMB 3/24/94.
NYSDOH	Yes	☐	No	☐	DOH RECEPTIVE TO OUR POSITION PER Phone con 3/23/94 BETWEEN A. CARLSON & E. Barcomb
DEE	Yes	☑	No	☐	
BHSC: a. Investigation Section	Yes	☑	No	☐	
b. Site Control Section	Robert J. Marino				Date 3/24/94
c. Director	[signature]				Date 3/24/94
DHWR Assistant Director	Charles M. Sulden				Date 3/25/94

COMPLETION CHECKLIST

	YES	COMPLETED BY: INITIALS	DATE
OWNER NOTIFICATION LETTER?	☐		
ADJACENT PROPERTY OWNER NOTIFICATION LETTER?	☐		
ENB/LEGAL NOTICE SENT? (For Deletion Only)	☐		
COMMENTS SUMMARIZED/PLACED IN REPOSITORY	☐		
FINAL NOTIFICATION SENT TO OWNER? (For Deletion Only)			

(For proposed Class 2a sites only) Planned investigative activities & dates: ___

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION

11/18/92

REGISTRY SITE CLASSIFICATION DECISION

1. SITE NAME	2. SITE NUMBER	3. TOWN/CITY/VILLAGE	4. COUNTY
Lancaster Sanitary LF	915068	Lancaster	Erie

5. REGION	6. CLASSIFICATION
9	CURRENT 2a PROPOSED 4 MODIFY

7. LOCATION OF SITE (Attach U.S.G.S. Topographic Map showing site location)

a. Quadrangle Clarence

b. Site Latitude _42_° _57_' _18_" Site Longitude _78_° _36_' _47_"

c. Tax Map Numbers 83.00-5-6.1, 84.00-3-3.1

d. Site Street Address Gunnville Road

8. BRIEFLY DESCRIBE THE SITE (Attach site plan showing disposal/sampling locations)

The site is 9½ miles east of the City of Buffalo corporate boundary, immediately north of the New York State Thruway and east of the Lancaster Speedway. The site is currently an inactive landfill which accepted various industrial wastes, as well as residential and commercial wastes. Landfilling took place in former sand and gravel pits. The site was capped in 1985 per a DEC-approved Closure Plan. A DEC-approved methane recovery operation is currently underway. Uncontrolled leachate has been observed.

a. Area __155_ acres b. EPA ID Number _NYD079934170___

c. Completed (x)Phase I ( )Phase II ( ) PSA ( )RI/FS ( )PA/SI ( )Other

9. Hazardous Waste Disposed (Include EPA Hazardous Waste Numbers)

Industrial waste (much of which is considered hazardous) was disposed of here from 1961 through the late 1970's. Drums of chemical wastes, solvents and PCB-contaminated capacitors are among the hazardous wastes reportedly disposed of at the site.

methylene chloride (F002)
paint sludge (F002)
cleaning solvents (F001)
PCB capacitors (B001)
tetrachloroethene (F002)
phenol (U188)

10. ANALYTICAL DATA AVAILABLE

a. ( )Air (x)Groundwater (x)Surface Water ( )Sediment ( )Soil ( )Waste ( )Leachate ( )EPTox ( )TCLP

b. Contravention of Standards or Guidance Values

Compound	Standard	Levels
methylene chloride	5 ppb	3-1880 ppb
carbon tetrachloride	5 ppb	6,020 ppb
vinyl chloride	2 ppb	10 ppb
1,1-dichloroethane	5 ppb	24.2 ppb
trans 1,2-dichloroethene	5 ppb	160 ppb
phenols	1 ppb	292 ppb
lead	25 ppb	110 ppb
cadmium	10 ppb	60 ppb

11. JUSTIFICATION FOR CLASSIFICATION DECISION

The site has confirmed hazardous waste disposal; associated volatile and metallic contaminants are confirmed to be present in the groundwater at levels exceeding class GA standards. Residential areas within 1 mile of the site use private wells as a source of drinking water. Geologic conditions are favorable for the migration of contaminants through groundwater from the landfill. The landfill has already been capped under an approved DSW closure plan and is in an O&M mode including groundwater monitoring. A classification of 4 is appropriate and would allow DOH and DHWR to review the current groundwater monitoring program to ensure that it is protective of the residents in the area. The monitoring program could be expanded, if appropriate.

12. SITE IMPACT DATA

a. Nearest Surface Water: Distance __90___ft. Direction ____north_____ Classification _Class 1 wetland__

b. Nearest Groundwater: Depth __10__ft. Flow Direction ____west_____ ( )Sole Source ( )Primary (x)Principal

c. Nearest Water Supply: Distance __200__ft. Direction ___east_____ Active ( )Yes (x)No

d. Nearest Building: Distance __275__ft. Direction ___east_____ Use _____Commercial_____

e. In State Economic Development Zone?	( )Y	(x)N	i. Controlled Site Access?	( )Y	(x)N
f. Crops or livestock on site?	( )Y	(x)N	j. Exposed hazardous waste?	( )Y	(x)N
g. Documented fish or wildlife mortality?	( )Y	(x)N	k. HRS Score __36.46__		
h. Impact on special status fish or wildlife resource?	( )Y	(x)N	l. For Class 2: Priority Category ___2____		

13. SITE OWNER'S NAME	14. ADDRESS	15. TELEPHONE NUMBER
Pine Hill Concrete Mix Corp.	2255 Bailey Ave., Buffalo, NY	

16. PREPARER	17. APPROVED
John B. Swartwout 3-24-94	Charles Hall 3/28/94
Signature Date	Signature Date
John B. Swartwout, Chief, Eastern Investigation Section	Asst Dir
Name, Title, Organization	Name, Title, Organization

SITE DESCRIPTION: LANCASTER,NY 14086 **LANCASTER SANITARY LANDFILL,GUNVILLE R SITE CODE: 9-15-068**

WASTE DESCRIPTION	QUANTITY	U	L	S	D	GENERATOR NAME	ID
FINISHED PRODUCT,PIGMENTS BASED BA,CD,CR,PB,HG,SE	6.00	T	-	X	-	FRATT & LAMBERT INC (CHEEKTOWAGA	G0915309
METHYL METHACRYLATE, METHYLENE CHLORIDE, INERT FILLER	200.00	T	X	-	X	E.I.DUPONT DE NEMOURS & CO.(YERKE	G0914980
NON-TOXIC PAINT SLUDGE; SPENT CLEANING SOLVENT			-	-	X	FISHER PRICE TOYS (DIV QUAKER OATS C	G0914901
PCB CAPACITORS			X	X	-	LANCASTER SERVICE CENTER NYSEG	GX900709
SLUDGE,SAND (3% ASBESTOS)	1.50	T	X	X	-	FABRITRON INC.	G0915417
STODDARD SOLVENT (PETROLEUM DISTILLATE SOLVENT)	50.00	T	X	X	X	RAMSDELL'S DRYCLEANERS INC.	G0915287
TETRACHLOROTHYLENE	9.00	T	X	X	X	RAMSDELL'S DRYCLEANERS INC.	G0915287
UNKNOWN			-	-	-	WESTINGHOUSE ELECTRIC CORP	GX900281
WASTE VISCOSE,WOOD PULP,WATER,CARBON DISULFIDE	60.00	T	X	-	X	GENERAL MILLS INC.(O-CEL-O DIV.)	G0914963
WOOD CHIPS CONTAINING PHENOL & CYANIDE	572.00	T	-	X	-	NATIONAL FUEL GAS DISTRIBUTION CO	G0915347

SITE DESCRIPTION: LAND RECLAMATION INC,BROADWAY & INDIAN RD,DEPEW,NY SITE CODE: 9-15-070

WASTE DESCRIPTION	QUANTITY	U	L	S	D	GENERATOR NAME	ID
SOIL CONTAMINATED WITH TRACES OF SULFUR	8,500.00	T	-	X	-	ALLIED CHEMICAL CORP (BUFFALO CHE	G0914906
TETRACHLOROETHYLENE	25.00	P	-	X	-	AURORA CLEANERS	G0915324
WOOD CHIPS CONTAINING PHENOL & CYANIDE	6,739.00	T	-	X	-	NATIONAL FUEL GAS DISTRIBUTION CO	G0915347

TRANSPORTERS - RESPONDING WITH QUESTIONNAIRE	ID NUMBER
CLINTON DISPOSAL SERV,1273 SENECA ST,BUFF	T0901769

SITE DESCRIPTION: TIFFT FARM,1200 FUHRMANN BLVD,BUFFALO NY 14203 SITE CODE: 9-15-072

WASTE DESCRIPTION	QUANTITY	U	L	S	D	GENERATOR NAME	ID
HAZARDOUS WASTE SOLID (NAPTHALENE,AR,CR,PB,HG,DICHLOROBEN)	62.00	T	-	X	X	BUFFALO SOCIETY OF NATURAL SCIENC	GX901313
SEWAGE TREATMENT SLUDGE			-	X	X	BUFFALO SOCIETY OF NATURAL SCIENC	GX901313

SITE DESCRIPTION: SEAWAY IND PARK,4825 RIVER RD.,TONAWANDA NY 14150 SITE CODE: 9-15-074

WASTE DESCRIPTION	QUANTITY	U	L	S	D	GENERATOR NAME	ID
BENZIDINE SULFATE	2.00	T	-	X	-	BUFFALO COLOR CORP	G0915248
FLOOR SWEEPINGS & OFF-SPEC PRODUCTS(PERSULFATES & PEROXIDE)	250.00	T	-	X	X	FMC CORP.	G0914986

Tony J. Dennis

STATE OF NEW YORK
DEPARTMENT OF HEALTH

Center for Environmental Health 2 University Place Albany, New York 12203-3399

Mark R. Chassin, M.D., M.P.P., M.P.H.
Commissioner
Paula Wilson
Executive Deputy Commissioner

OFFICE OF PUBLIC HEALTH
Sue Kelly
Executive Deputy Director
William N. Stasiuk, P.E., Ph. D.
Center Director

December 23, 1992

Mr. Earl Barcomb, P.E.
Bureau of Hazardous Site Control
NYS Department of Environmental Conservation
50 Wolf Road
Albany, NY 12233

RE: Registry Site Classification Decision
Lancaster Sanitary landfill, ID 915068
(T) Lancaster, Erie Co.

Dear Mr. Barcomb:

My staff has reviewed the Registry Site Classification Decision package for the Lancaster Sanitary Landfill (#915068) in the Town of Lancaster, Erie County.

We do not agree with the revision of the proposed site classification from a class 2 to a class 3. The local geology consists of sand, gravel, and intermittent till units overlying limestone. Existing site information indicates that the overburden and bedrock are interconnected. These geologic conditions are favorable for the migration of contaminants through groundwater from the landfill. Residential areas within a 1 mile radius of the site use private wells as a source of drinking water. These homes are located on Tillman Road, Ransom Road, Genesee Road, and Gunnville Road. Since documented hazardous waste disposal has occurred, groundwater is contaminated above standards with contaminants associated with hazardous waste disposal, and a significant threat to residential water supplies exist, we feel the site should be a class 2.

If there are any questions please contact me or Al Wakeman at 458-6310.

Sincerely,

G. Anders Carlson, Ph.D.
Director
Bureau of Environmental Exposure
Investigation

23430265

cc: Mr. Wakeman
Dr. Smith-Blackwell/Mr. O'Connor - Western Region
Mr. Kociela - Erie County Health Dept.
Mr. Sciascia - DEC - Region 9
Mr. Marino - DEC - Central Office

New York State Department of Environmental Conservation

MEMORANDUM

TO: John Sivertout
FROM: Ken Macri
SUBJECT: External Contact with Division of Solid Waste Staff

DATE: 3/23/94

Telephone or Meeting ( ) Date 3/23/94

Referred by _____

External Contact's Name Mark Hans Representing Reg #9

Address _____ Phone (716) 851 7000

Subject of External Contact Lancaster San. LF.

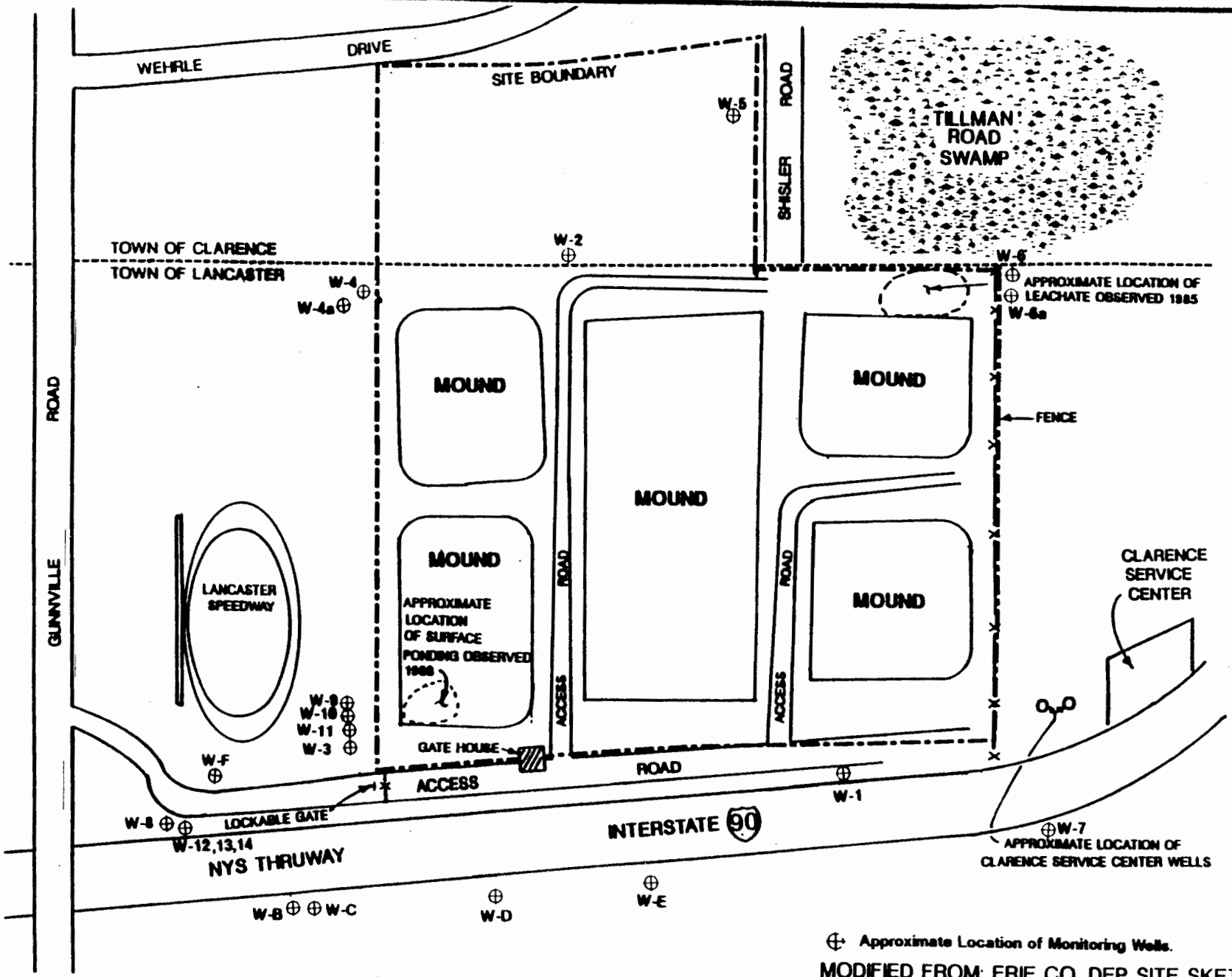
Brief Outline of Discussion Status of LF.
Capped in 1985. Active Gas Recovery System which generates electricity. Leachate outbreaks are mitigated Post-closure monitoring continues. No plans for future.

Action to be taken (if any) _____

Staff Person Contacted/Involved KAM.

Copy: Call me 5-5855

(4/91)



⊕ Approximate Location of Monitoring Wells.

MODIFIED FROM: ERIE CO. DEP SITE SKETCH 5/29/85

SCALE: N.T.S.		
	BY	DATE
DWN.	G.L.S.	5/89
CKD.	RAC	5/89
APPVD.	RAC	5/89
REV.		

NYSDEC
SUPERFUND PHASE I INVESTIGATION
LANCASTER SANITARY LANDFILL
SITE NO. 915068

PROJECT NO: 8C1301 CC

SITE SKETCH

A

FIGURE 1-3

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

SITE # 915068 SITE NAME Lancaster Sanitary 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 ~~Principle~~ Principal aquifer has been contaminated

Filled out by (Name): John B Swartwout Date: 8-28-91

1/10401.5.22

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID AND HAZARDOUS WASTE
INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

CLASSIFICATION CODE: ~~2~~ 4 REGION: 9 SITE CODE: 915068

NAME OF SITE: Lancaster Sanitary Landfill
STREET ADDRESS: off Gunnville Rd.
TOWN/CITY: ~~Clarence(T) and~~ Lancaster(T) COUNTY: Erie ZIP:

SITE TYPE: Open Dump _ Structure _ Lagoon _ Landfill X Treatment Pond _
ESTIMATED SIZE: ~~268~~ 155 Acres

SITE OWNER/OPERATOR INFORMATION:
CURRENT OWNER NAME: Pine Hill Concrete Mix Corp.
CURRENT OWNER ADDRESS: 2255 Bailey Ave., Buffalo, NY
OWNER(S) DURING USE: Pine Hill Concrete Mix Corp.
OPERATOR DURING USE: Lancaster Sanitary Landfill, Inc.
OPERATOR ADDRESS 2255 Bailey Ave., Buffalo, NY
PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From 1961 To 1979

SITE DESCRIPTION:

The estimated ~~268~~ 155-acre site lies just north of the NYS Thruway (Interstate 90) and west of the Thruway Authority's Clarence Service Center rest area. Access to the site is from Gunnville Road, which lies west of the site. Residential, commercial and industrial wastes were reportedly accepted at the facility. Extensive groundwater monitoring has been conducted at the site; contamination frequently exceeded NYS water quality standards for potable groundwaters. Contaminants detected include phenol, chlorinated organics, several metals and others. Potential surface water contamination is also of concern since Tillman Road Swamp (a NYSDEC-owned wildlife management area) lies adjacent to the site. Ransom Creek, a NYSDEC-designated Class C (T) - trout fishing surface water, lies within three miles downstream from the site. A Phase I Investigation was conducted at this site in 1988-1989. The landfill has been capped under the solid waste program and is in an O&M mode, including groundwater monitoring.

HAZARDOUS WASTE DISPOSED: Confirmed X Suspected _

TYPE	QUANTITY (units)
Waste oils, foundry sand, fly ash, adhesives, solvents, waste ink, paint thinners and filters and PCB-contaminated capacitors.	estimated 7,291.3 ton equivalent

SITE CODE: 915068

ANALYTICAL DATA AVAILABLE:

Air _ Surface Water X Groundwater X Soil _ Sediment _ None _

CONTRAVENTION OF STANDARDS:

Groundwater X Drinking Water X Surface Water _ Air _

LEGAL ACTION:

TYPE: Consent Order State X Federal _
STATUS: In Progress _ Completed _

REMEDIAL ACTION:

Proposed _ Under Design _ In Progress _ Completed X
NATURE OF ACTION:

GEOTECHNICAL INFORMATION:
SOIL TYPE: Largely sand and gravel overlying bedrock

GROUNDWATER DEPTH: 10 feet

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Contaminants detected in on-site groundwater and surface water samples. Potential contamination of source of potable water (groundwater) and of recreational surface waters (Ransom Creek).

ASSESSMENT OF HEALTH PROBLEMS:

1.0 EXECUTIVE SUMMARY

The Lancaster Sanitary Landfill site is located off Gunnville Road, in the Towns of Clarence and Lancaster, Erie County, New York (Figures 1,2 and 3). The estimated 268-acre site lies approximately 9.5 miles east of the City of Buffalo corporate boundary. The site is owned by Pine Hill Concrete Mix Corp. of Buffalo, New York. Lancaster Sanitary Landfill, Inc., a subsidiary of Pine Hill Concrete, operated the facility. The site is a currently inactive landfill which accepted various industrial wastes (much of which is considered hazardous), as well as residential and commericial wastes, from 1961 to the late 1970's; residential and commericial wastes continued to be accepted through 1985.

The site has the potential to impact both human health and the environment. On-site groundwater and surface water sampling conducted by Wehran Engineering and Recra Research, Inc. in 1979 (and others) has indicated that contaminant migration has occurred in both of these environmental media. Groundwater contamination is of major concern since numerous residences in the area use private wells as a source of potable water. Potential surface water contamination of Tillman Road Swamp and Ransom Creek, which is used for recreation, is also of concern.

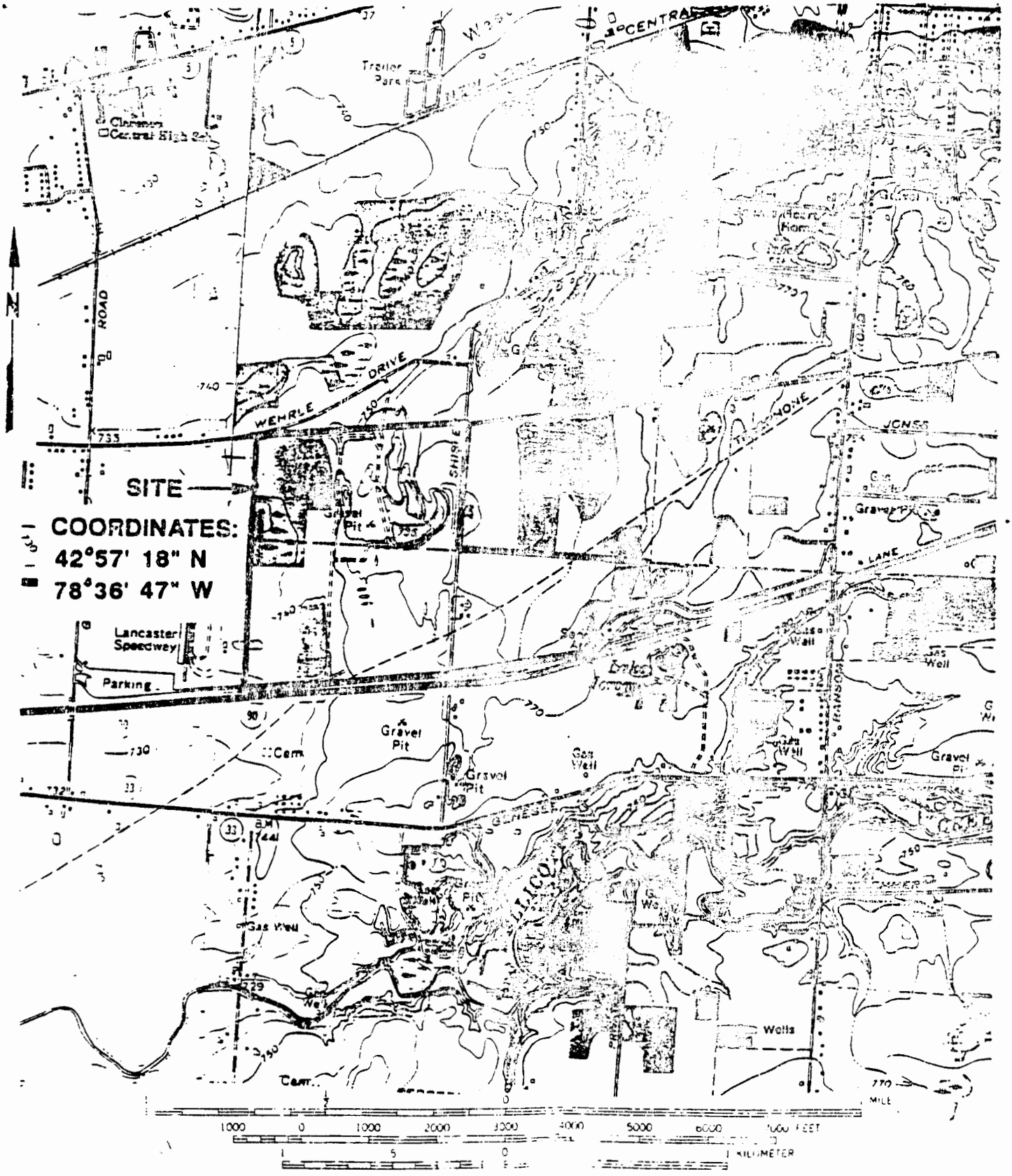
A methane gas recovery system was designed for the landfill by E. T. Energy. The subsequent development of the system was completed by LFG Energy, Inc. with final plans being submitted to the NYSDEC for approval on November 1989. Final approval was granted by the NYSDEC in January 1990 at which time Phase I operations were formally initiated. Prior to January 1990, periodic demonstrations were conducted on-site.

The Phase I recovery system includes 78 wells installed over approximately two-thirds of the landfill. Upon reaching the surface, the gas enters a collection system. The gas is then filtered, demoisturized and purified on site. After purification, the gas is used to power electricity producing generators.

Subsequent to the development, and NYSDEC approval, of a closure plan, the site was capped in 1985 with materials having a permeability of 10^{-6} cm/sec. Closure also involved the installation of post-closure monitoring wells and the development and implementation of a post-closure monitoring plan.

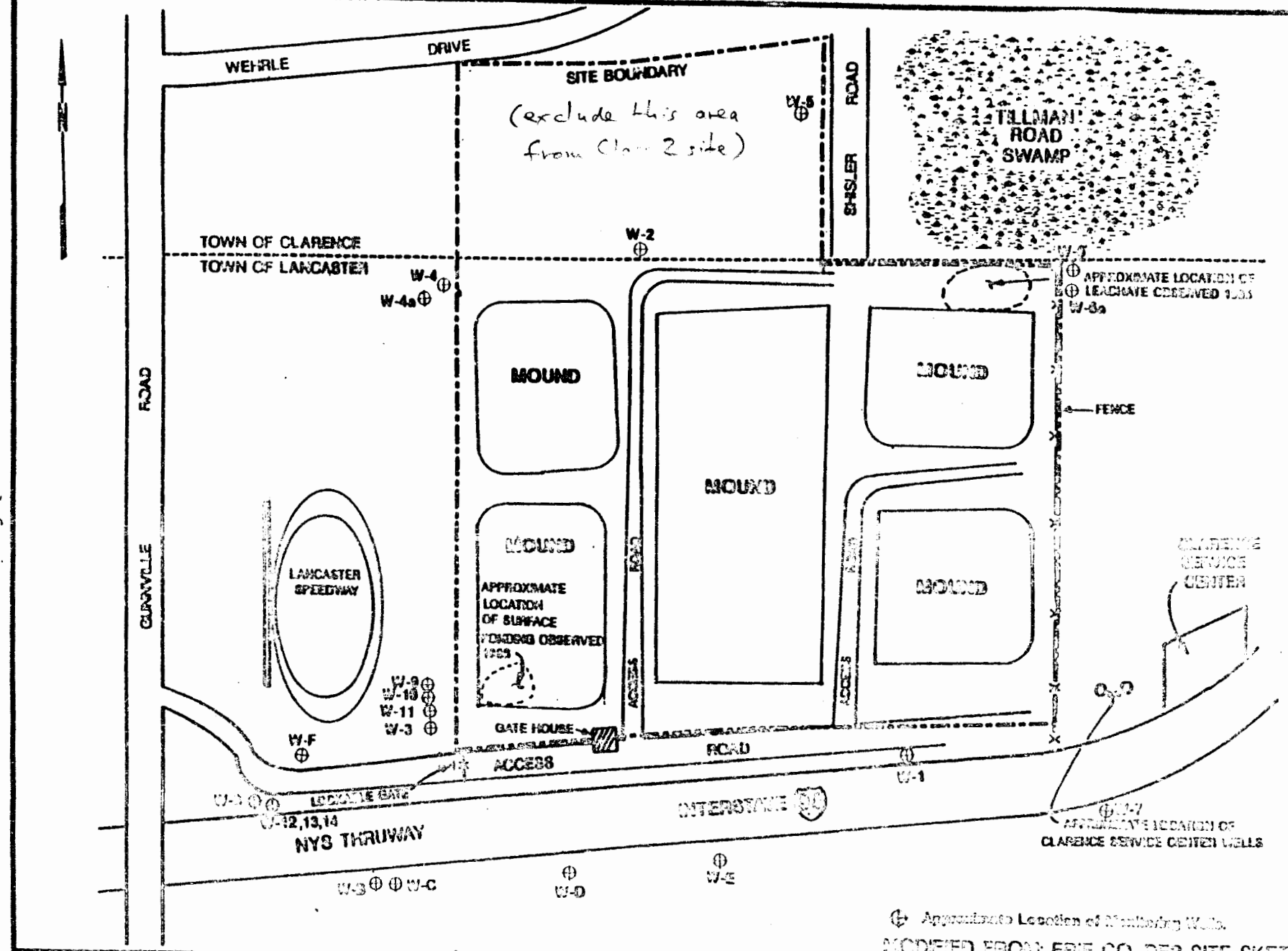
The Phase I effort involved the compliation of information gathered from several sources, including, but not limited to, the following: the New York State Department of Environmental Conservation (NYSDEC) - Central Office and Region 9, the New York State Department of Health (NYSDOH), and site inspections conducted by Recra Environmental, Inc. personnel on October 25 and November 7, 1988. Photographs taken during the October site inspection are presented in Appendix B.

The Lancaster Sanitary Landfill Site was evaluated and scored in accordance with the Hazard Ranking System (HRS). USEPA uses a hazard ranking system (HRS) to apply uniform technical judgement in evaluating the relative hazards presented by sites being considered for federal superfund remediation. The HRS is sometimes called the MITRE Model because it was developed by the MITRE Corporation under contract to the USEPA. HRS addresses only relative hazard. It does not assess the feasibility, desirability, or degree of cleanup required, and does not address all potential environmental or health impacts.



LANCASTER, N.Y. 1955 and CLARENCE, N.Y. 1965 QUADRANGLES
U.S.G.S. TOPOGRAPHIC MAPS 7.5 MINUTE SERIES

SCALE: 1:24,000			NYSDEC SUPERFUND PHASE I INVESTIGATION LANCASTER SAN. LANDFILL SITE NO. 915068	SITE VICINITY MAP
	BY	DATE		
DWN	G.L.S.	5/89		
CKD	MJC	5/89		
APPVD	RAC	5/89		
REV			PROJECT NO 801301CC	A FIGURE 1-2



⊕ Approximate Location of Monitoring Wells.

MODIFIED FROM: ERIE CO. DEP SITE SKETCH 5/28/85

DRAWN: M.T.S.		
	BY	DATE
DSGN.	G.L.S.	5/89
CKD.	RAC	5/89
APPVD.	RAC	5/89
REV.		

NYSDEC
SUPERFUND PHASE II INVESTIGATION
LANCASTER SANITARY LANDFILL
SITE NO. 915010
PROJECT NO: 661301.00

SITE SKETCH

FIGURE 1-3

1-6

4.0 SITE ASSESSMENT

4.1 Site History

The Lancaster Sanitary Landfill site is the location of former sand and gravel excavation pits which subsequently have been landfilled. Pine Hill Concrete Mix Corp. of Buffalo, New York owns the facility. Lancaster Sanitary Landfill, Inc., a subsidiary of Pine Hill Concrete, operated the landfill. In 1961 landfilling operations commenced in the western portion of the site. Operations continued across the site and by the mid-1970's, landfilling of the eastern site area was being conducted. Landfill operations ceased in 1985 (Ref. 1, pg. R3; 8, pg. R108-128; 26, pg. R216; 27, pg. R216-218).

In addition to residential and commercial wastes from local municipalities, the facility reportedly accepted industrial wastes and chemical sludges from 13 or more industries from 1961 to the late 1970's. (The acceptance of municipal waste continued through 1985.) A 1979 report prepared by the Interagency Task Force on Hazardous Wastes (as stated in the Wehran Engineering, 1979 report) identifed several industrial waste generators and haulers, as well as waste types and quantities disposed of at the site. Industrial wastes reportedly disposed of at the landfill include, but are not limited to, the following: waste oils, foundry sand, fly ash, adhesives, waste ink, solvents, paint thinners and filters, and PCB-contaminated capacitors. Industrial waste generators include: Ford Motor Company, Westinghouse, Chevrolet Motor Company, E. I. DuPont, F. N. Burt, Allied Chemical, NYS Electric and Gas, and others (Ref. 1, pg. R47-48; 2, pg. R50; 7, pg. R106; 8, pg. R108-128). Drums containing chemical wastes were apparently crushed and broken open upon disposal. Wastes were disposed of

4.4 Site Contamination Assessment

4.4.1 Waste Quantity and Type

Waste characterization information for the site was primarily obtained from the March 1979 Draft Report of the Interagency Task Force on Hazardous Wastes (as stated in the Wehran Engineering, 1979 report) and the "Community Right-To-Know" (RTK) program (Ref. 1, pg. R1-48; 2, pg. R49-78). Industrial waste types and quantities disposed of at the Lancaster Sanitary Landfill, as reported by the Task Force, are presented on Table 1 together with identification of generators and periods of disposal. Various solids, liquids and sludges are listed and include waste oils, foundry sand, fly ash, adhesives, waste ink, solvents, paint thinners and filters, PCB-contaminated capacitors, and others. A total of 413,400 gallons (8,268 drum equivalent), 475.8 tons and 4,050 cubic yards of industrial wastes were reportedly disposed of at the facility. It should be noted, however, that these figures represent a minimum quantity since quantity estimates were not listed for several of the wastes. In addition, those wastes listed as generated by the Curtiss Wright Corp. (paper, rags and sweepings) were not included in the quantity estimate because it is not certain whether they contained hazardous substances. The "Community RTK" program identified several additional industrial waste generators disposing at the facility. These generators include Pratt & Lambert, Fisher Price, Fabritron, Ramsdell's Drycleaners, and O-Cell-O.

Waste quantities reported by the "RTK" total 898.5 tons (equivalent) of liquids, solids and drummed waste; however, 200 tons were previously reported by the Interagency Task Force. Again, this quantity reflects a minimum known quantity. Therefore, total waste quantity estimates for the

TABLE 1

INDUSTRIAL WASTES REPORTEDLY DISPOSED OF AT THE LANCASTER SANITARY LANDFILL SITE (1)

GENERATORS		WASTE DESCRIPTION	QUANTITIES	TIME PERIOD
Wilson Greatbatch, LTD	a)	Liquid waste; 90% acetone, 8% iodine, 2% polyvinyl pyridine	6,700 gallons per year (GPY)	1976-1978
Ford Motor Company	a)	Waste oil	30,000 GPY	1970 to 1971 & 1976 to 1977
	b)	Oil Sludge	---	1974-1977
Westinghouse Motor Division	a)	General Refuse	---	1966-1979
Chevrolet Motor Division Metal Casting Plant	a)	Waste foundry sand (clay, insoluble metal compounds, trace oil, resins, & corn flour)	---	1978-1979
	b)	Sand slurry	---	1977
Chevrolet Motor Division Motor Plant	a)	Fly ash	---	1977
Trico Products	a)	Plastic purging	---	--
Harrison Radiator (Buffalo)	a)	Garbage, cardboard, paper, wood, rubber, plastics, other solids, kolene sludge drums, cans, bands, & wire		1969-1979
EIDuPont (Tonawanda)	a)	Wet "Corian"	200 tons	1974-1976
F.N. Burt Co.	a)	Paperboard, cellophane, gold leaf, scrap wood, plastic, garbage, waste adhesive (animal glue, polyvinyl, acetate, dextrins) waste ink, & incinerator, residue & fly ash waste cans & metal	---	1958-1975
Arcata Graphics	a)	paper, paper/dust, wood, general refuse	---	June 1978-1979

TABLE 1
(CONT'D.)

GENERATORS		WASTE DESCRIPTION	QUANTITIES	TIME PERIOD
Strippit	a)	Combustible Wastes	450 cy/yr	1970 to 1979
	b)	Coolants	20,000 gal/year	1975 to 1978
	c)	heat treat sludge	3 tons/year	
	d)	cutting oil compounds, solvents, water with paint contamination	20,000 gal/year	1975 to 1979
	e)	paint thinners & filters	---	1975 to 1979
Snyder Tank	a)	Paper, wood, plastics & metal	72.8 tons/year	1972
Curtiss Wright Corp. (Air Force Plant 49)	a)	paper, rags & sweepings	60 cy/month	1956-1979
Allied Chemical Dye Plant	a)	filtration sludges, waste colors and solvents	200,000 gallons	1970 to 1971
NYS Electric & Gas	a)	obsolete hardware rubbish, motor oil, capacitors (with PCB's)	---	to 1974
Winsmith	a)	General Industrial Waste, dried paint filters, machine, cutting & cooling oils, hydrochloric acid neutralized with sodium hydroxide, Kolene heat treatment spillage, steel fines, grinding fines, mixed with waste coolant oil & water	---	1976- 1979

NOTES:

(1) Modified from the Draft Report, March 1979 of the Interagency Task Force on Hazardous Wastes, as presented in Hydrogeologic Investigation Lancaster Sanitary Landfill by Wehran Engineering, P.C. and Recra Research, Inc., June 21, 1979.

landfill total 7,291.3 ton equivalent (Ref. 1, pg. R47-48; 2, pg. R50).

4.4.2 Previous Sampling and Analysis

Extensive groundwater monitoring has taken place at the Lancaster Sanitary Landfill since 1979. During site-specific hydrogeologic investigations conducted in 1979 and 1980 by Wehran Engineering and Recra Research, Inc., on-site monitoring wells were installed to assess the extent, if any, of groundwater contamination from the landfill (Ref. 1, pg. R1-48; 18, pg. R169-183). Wells were constructed in both shallow (unconsolidated deposits) and bedrock (Onondaga Limestone) borings. One well was completed within the saturated waste thereby providing information representative of the landfill leachate. Two wells located in the northwestern portion of the site served as background since they were situated north of the landfill in an area of no apparent waste disposal. A surface water sample was also collected from this northern area. Chemical analyses performed on the groundwater and surface water samples collected in March 1979 and/or September 1979 indicated the presence of several contaminants within the shallow aquifer. These include volatile organic compounds (including chlorinated organics), phenols, pesticides, and several metals (See Table 2). Concentrations of zinc were reported at 198 mg/l, 1.9 mg/l, 0.057 mg/l, 0.069 mg/l and 0.111 mg/l for samples collected in March 1979 in the waste (leachate), glacial sand and gravel (shallow) aquifer, bedrock aquifer, surface water, and "background" shallow groundwater samples, respectively (Ref. 1, pg. R1-48). Methylene chloride was reported at 54.3 ug/l, 1880 ug/l , 4.9 ug/l, 0.3 ug/l and 9.7 ug/l in samples collected in March 1979 in the waste, shallow aquifer, bedrock aquifer, surface water, and "background" samples, respectively. In addition, groundwater sampling

TABLE 2

SUMMARY OF GROUNDWATER ANALYSIS
1979

	MONITORING WELLS						PIEZOMETERS			
	W-1			W-2			B13		B13A	
PARAMETER	3/14	3/29	5/8	3/14	3/29	5/8	3/14	5/8	3/14	5/8
Phenols	0.028	0.071		0.026	0.024		0.183		1.33	
Aluminum	0.2	0.4		0.2	0.2					
Lead		0.04			0.11					
Mercury*		0.9		0.9						
Cadmium			0.06			0.01	0.003	0.005	0.032	0.029
Zinc			0.424			0.098		0.088		198
Nickel*								0.02		0.51
Arsenic*										16
Chromium										0.034
Selenium*										2.3
THOS*			3.7			0.654		0.65		8.17
B-BHC*			0.04			0.04		0.04		0.04
Methylene Chloride*			1880			3.3		119		54.3
Chloroform*						1.3		1.4		
Carbon Tetrachloride		6020	0.5							
1,1-dichloroethane			18.4		24.2					

TABLE 2 (continued)

SUMMARY OF GROUNDWATER ANALYSIS
1979

PARAMETER	PIEZOMETERS B15S 3/14	B15S 5/8	B15D 3/14	B15D 5/8	B16S 3/14	B16S 5/8	B16D 3/14	B16D 5/8	B16I 3/14	B16I 5/8	B17 3/14	B17 5/8
Phenols	0.292		0.042		0.019		0.028				0.014	
Aluminum												
Lead		0.07										
Mercury*												
Cadmium		0.014	0.013	0.014	0.004	0.012		0.008	0.003	0.021		0.009
Zinc		1.9		0.057		0.15		0.052		0.052		0.069
Nickel*		0.12										
Arsenic*												
Chromium												
Selenium*												
THOS*		2.41		0.94		0.37		0.58		0.59		1.40
B-BHC*				0.03				0.06		0.03		0.06
Methylene Chloride*		8.3		1.2		1.8		4.9		0.3		12.7
Chloroform*		1.0		0.3				1.4		1.1		0.3
Carbon Tetrachloride										0.5		
1,1-dichloroethane												

*9/1

conducted on-site by the NYSDEC in February 1985 indicated the presence of trans-1,2-dichloroethene (160 ppb); 1,1-dichloroethane (67 ppb); toluene (13 ppb); and several metals, including manganese (68 ppm), zinc (0.063 ppm), lead (0.018 ppm) and others (Ref. 32, pg. R234-243).

4.4.3 Groundwater Quality

Analytical results for groundwater samples collected from on-site monitoring wells indicate several contaminants exceed New York State groundwater quality standards for Class GA waters (source of potable water supply) (Ref. 22, pg. R202-205). Quality standards were exceeded by the following substances (and the concentration reportedly detected): carbon tetrachloride (6,020 ug/l); vinyl chloride (10 ug/l); phenols (0.292 mg/l); lead (0.11 mg/l); manganese (68 mg/l); zinc (1.9 mg/l), and others (Ref. 1, pg. R26-41; 22, pg. R202-205; 32, pg. R234-243).

Groundwater contamination is of major concern since several residences in the area (an estimated 566 persons within a 3-mile radius) use private wells as a sole source of potable water. Additional private wells may be used by residents of the Town of Clarence and Lancaster, but the number has not been identified. The majority of these are located within the Towns of Newstead and Alden, New York east of the site. The remaining population is served by community municipal water supply systems which obtain their water from the Erie County Water Authority (source being surface water intakes from Lake Erie).

4.4.4 Surface Water Quality

Surface water sampling is apparently limited to one on-site sample collected in the northwestern portion of the site in March 1979 by Recra Research, Inc. (Ref. 1, pg. R24). Chemical analyses performed on this sample detected cadmium (0.021 mg/l), chromium (0.203 mg/l), zinc (0.069 mg/l), methylene chloride (0.3 ug/l), chloroform (0.2 mg/l), and others. Ransom Creek is a NYSDEC-designated Class "D" water in proximity to the site; further downstream (but within the HRS-required, three-mile distance) it is upgraded to Class "C" and Standard "C(T)" which are recreational waters suitable for fishing, including trout fishing (Ref. 21, pg. R193; 22, pg. R202-205). During a site inspection conducted by the NYSDEC in 1985, leachate was observed leaving the site and entering the Tillman Road Swamp to the north (Ref. 9, pg. R129-133). The Tillman Road Swamp is a NYSDEC-owned wildlife management area, a major portion of which includes NYSDEC-designated Class I fresh-water wetland CL-2 (Ref. 21, pg. R197).

4.4.5 Air Quality

As part of this Phase I Investigation, a preliminary air monitoring program was conducted during the site inspection on November 7, 1988. A Century Foxboro OVA Model 128 GC was used to monitor for airborne volatile organic contaminants. Measurements were taken in both upwind (for a source of background) and downwind locations from the site. Readings in excess of 100 ppm were obtained at some upwind locations. On-site measurements were generally about 30 ppm and did not exceed background. It should be noted that the OVA was not equipped with a methane filter. Since methane-producing wells are prevalent in the area and are potentially attributing to the high OVA readings at both "background" and on-site locations, all

Table 1

(Ref: Phase I, Pages R51-R78)

Waste	EPA Waste Code	Quantity (Tons)	Generator
Tetrachloroethylene	U210	9	Ramsdell's Dry Cleaners
Stoddard Solvent	D001	50	Ramsdell's Dry Cleaners
Methyl Methacrylate Methylene Chloride	U162 F002	200	E.I. Dupont
Pigments containing (Ba,Cd,Cr,Pb,Hg,Se)	D005-D010	6	Pratt & Lambert
Paint Sludge Cleaning solvents	F002 F001		Fisher Price Toys
Wood Chips containing Phenol and cyanide	U188 P030	572	National Fuel Gas
Waste Viscose (contained carbon disulfide)	D003	60	General Mills
Capacitors (containing PCBs)	-	-	New York State Electric & Gas
Solvents and dye sludge	-	-	Allied Chemical Dye Plant

RECRA
ENVIRONMENTAL
INC.

Chemical and Environmental Analysis Services

November 5, 1993

Mr. Ken Ziccarelli
Gunnville Energy Systems
324 Pavement Road
Lancaster, New York 14086

Re: Analytical/Field Report for the 1993 Third Quarter (Semi-Annual) Sampling Event

Dear Mr. Ziccarelli,

The following is the September (completed in October) 1993 Monitoring Program Report for samples collected at the Lancaster Sanitary landfill on October 4-5,1993. Please be advised that sampling was delayed due to the request of Mary E. McIntosh of the New York State Department of Environmental Conservation (NYSDEC), for purposes of conducting a split sampling event. Samples split with the NYSDEC included sample points W-3, W-A, W-B, W-C, and W-E. This sampling event represents the 1993 Third Quarter Monitoring required by your permit.

The points sampled were:
-three (3) upgradient wells
(W-5,W-6,W-H)
-eight (8) downgradient wells
(W-3,W-8,W-A,W-B,W-C,W-D,W-E,W-F)

Please note: Upgradient Well W-6A unable to be sampled due to blockage in riser

The following is a brief summary of the field and analytical data:

Field Data

In summary, field measurements of pH ranged from 7.02 standard units (Well W-3) to 10.19 standard units (Well W-H). The pH has decreased to historical levels for sample point W-A and W-G. Sample point W-H continues to show an elevated pH.

Specific conductance measurements ranged from 300 (Well W-H) to 3800 (Well W-D) micromhos/centimeter(umhos/cm). Generally, conductivity measurements remained within historical ranges.

WP0608

Temperature measurements ranged from 9.1 to 14.1 degrees Celsius.

Sample turbidity observations generally ranged from clear to slightly turbid. Turbidity observations and other field measurements were taken within 20 minutes of sampling, utilizing calibrated instrumentation. Detailed information is presented in the Field Report.

Analytical Data

The analytical data package has been provided to you under Recra job #A3-3319, #A3-3335, #C3-0551, and #C3-0553.

Generally, all sample analytical results remain consistent with historical data. The following fluctuations have been noted:

- Sample point W-3 volatile results show detection of methylene chloride, trans-1,2-dichloroethene, 1,1-dichloroethane consistent with previous quarterly results. Volatile organics previously not detected include chloroethane, chloromethane, and 1,4-dichlorobenzene.

- Sample point W-8 nitrate levels remain elevated compared to historical levels. Total organic carbon results have decreased compared with the previous quarters results. Volatile organics detected include trichloroethene, 1,1,1-trichloroethane, and 1,1,2,2-tetrachloroethane.

- Sample point W-A chloride results continue to fluctuate.

- Sample point W-B exhibited chloride results remaining within the historical range.

- Sample point W-C results include detection of benzene, trichloroethene, and 1,1-dichloroethane (1,1-dichloroethane not previously detected).

- Sample point W-D chloride results elevated compared to previous quarter

- Sample point W-E chloride results remain elevated. Total iron levels have returned to historical levels. Lead was not detected.

- Sample point W-F organics were not detected for second consecutive quarter.

- Sample point W-G showed presence of trans-1,2-dichloroethene.

Additionally, sample point W-5 matrix spike duplicate recovery for the compound 1,1-dichloroethene, fell outside QC limits. The matrix spike blank for this sample fell within QC limits. Trip blanks exhibited contamination for some volatile compounds. This contamination does not appear to have impacted sample results.

Please feel free to contact me at (716) 691-2600 with any additional questions or comments.

Sincerely,
Recra Environmental, Inc.

Brian J. Fischer
Manager, Field Testing

WP0608

RECRA
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INC.

RECRA ENVIRONMENTAL INC.

Chemical and Environmental Analysis Services

World University Games Buffalo '93

November 3, 1993

Mr. Ken Ziccarelli
Gunville Energy Systems
324 Pavement Road
Lancaster, NY 14086

RE: Analytical Results

Dear Mr. Ziccarelli:

Please find enclosed results concerning the analyses of the samples recently collected by Recra Environmental, Inc. on your behalf. The Pertinent Information regarding these analyses is listed below:

Quote #: NY91-326R
Project Name: Lancaster Landfill-Quarterly
Matrix: Aqueous
Samples Received: 10/4/93, 10/5/93
Sample Date: 10/4/93, 10/5/93

If you have any questions concerning these data, please contact Mr. Brian Fischer, Program Manager at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide Gunville Energy Systems with Environmental Testing Services. We look forward to serving you in the future.

Sincerely,

RECRA ENVIRONMENTAL, INC.

Robert K. Wyeth
Laboratory Director

Brian J. Fischer
Program Manager

RES/RKW/sh
Enclosure

I.D. #A3-3319 C3-0551
#A3-3335 C3-0553
#NY1C3261

ANALYTICAL RESULTS

Prepared For

Gunville Energy Systems
324 Pavement Road
Lancaster, NY 14086

Prepared By

Recra Environmental, Inc.
10 Hazelwood Drive, Suite 106
Amherst, New York 14228-2298

METHODOLOGIES

The specific methodologies employed in obtaining the enclosed analytical results are indicated on the specific data table. The method numbers presented refer to the following U.S. Environmental Protection Agency reference.

* 40 CFR Part 136 "Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act" October 26, 1984 (Federal Register) U.S. Environmental Protection Agency.

* U.S. Environmental Protection Agency "Test Methods for Evaluating Solid Waste-Physical/Chemical Methods." Office of Solid Waste and Emergency Response. November 1986, SW-846, Third Edition.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data has been reported utilizing data qualifiers (Q) as defined on the Organic and Inorganic Data Comment Pages.

Sample W-5 Matrix Spike Duplicate exhibited a recovery for compound 1,1-dichloroethene which was outside of QC limits. The matrix spike blank recovery for this compound is within limits and is reported in this data package.

Trip blank AS046512 exhibited contamination from the compound Benzene. One associated well sample exhibited the presence of this compound.

Trip blank AS046461 exhibited contamination from the compound Tetrachloroethene and/or 1,1,2,2-Tetrachloroethane. One associated well sample exhibited the presence of this compound at a level greater than 10 times the concentration exhibited by trip blank AS046461.

Chromatographically Dibromochloromethane, 1,1,2-Trichloroethane, and trans-1,3-Dichloropropene coelute. The reported value is therefore and "and/or" value.

Chromatographically 1,1,2,2-Tetrachloroethane and Tetrachloroethene coelute. The reported value is therefore an "and/or" value.

ORGANIC DATA COMMENT PAGE

Laboratory Name RECRA ENVIRONMENTAL, INC.

USEPA Defined Organic Data Qualifiers:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

G - The TCLP Matrix Spike recovery was greater than the upper limit of the analytical method.

L - The TCLP Matrix Spike recovery was lower than the lower limit of the analytical method.

T - This flag is used when the analyte is found in the associated TCLP extraction as well as in the sample.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a "P".

A - This flag indicates that a TIC is a suspected aldol-condensation product.

INORGANIC DATA COMMENT PAGE

Laboratory Name RECRA ENVIRONMENTAL, INC.

USEPA Defined Inorganic Data Qualifiers:

B - Indicates a value greater than or equal to the instrument detection limit but less than the contract required detection limit.

U - Indicates element was analyzed for but not detected. Report with the detection limit value (e.g., 100).

E - Indicates a value estimated or not reported due to the presence of interference.

S - Indicates value determined by Method of Standard Addition.

N - Indicates spike sample recovery is not within control limits.

* - Indicates duplicate analysis is not within control limits.

+ - Indicates the correlation coefficient for method of standard addition is less the 0.995.

M - Indicates duplicate injection results exceeded control limits.

W - Post digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AS046514	Sample Date:	10/05/93
Client Sample ID:	W-A	Analysis Date:	10/12/93

Parameter	Units = UG/L	Result	Q
Bromodichloromethane		0.20	U
Bromoform		1.0	U
Bromomethane		1.0	U
Carbon Tetrachloride		0.20	U
Chlorobenzene		0.20	U
Chloroethane		1.0	U
2-Chloroethylvinyl ether		1.0	U
Chloroform		0.20	U
Chloromethane		1.0	U
Dibromochloromethane		0.20	U
1,2-Dichlorobenzene		0.40	U
1,3-Dichlorobenzene		0.40	U
1,4-Dichlorobenzene		0.40	U
1,1-Dichloroethane		0.20	U
1,2-Dichloroethane		0.20	U
1,1-Dichloroethene		0.20	U
trans-1,2-Dichloroethene		0.20	U
1,2-Dichloropropane		0.20	U
cis-1,3-Dichloropropene		0.20	U
trans-1,3-Dichloropropene		0.20	U
Methylene chloride		0.20	U
1,1,2,2-Tetrachloroethane		0.20	U
Tetrachloroethene		0.20	U
1,1,1-Trichloroethane		0.20	U
1,1,2-Trichloroethane		0.20	U
Trichloroethene		0.20	U
Trichlorofluoromethane		0.20	U
Vinyl chloride		1.0	U

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AS046515	Sample Date:	10/05/93
Client Sample ID:	W-B	Analysis Date:	10/12/93

Parameter	Units = UG/L	Result	Q
Bromodichloromethane		0.20	U
Bromoform		1.0	U
Bromomethane		1.0	U
Carbon Tetrachloride		0.20	U
Chlorobenzene		0.20	U
Chloroethane		1.0	U
2-Chloroethylvinyl ether		1.0	U
Chloroform		0.20	U
Chloromethane		1.0	U
Dibromochloromethane		0.20	U
1,2-Dichlorobenzene		0.40	U
1,3-Dichlorobenzene		0.40	U
1,4-Dichlorobenzene		0.40	U
1,1-Dichloroethane		0.20	U
1,2-Dichloroethane		0.20	U
1,1-Dichloroethene		0.20	U
trans-1,2-Dichloroethene		0.20	U
1,2-Dichloropropane		0.20	U
cis-1,3-Dichloropropene		0.20	U
trans-1,3-Dichloropropene		0.20	U
Methylene chloride		0.20	U
1,1,2,2-Tetrachloroethane		0.20	U
Tetrachloroethene		0.20	U
1,1,1-Trichloroethane		0.20	U
1,1,2-Trichloroethane		0.20	U
Trichloroethene		0.20	U
Trichlorofluoromethane		0.20	U
Vinyl chloride		1.0	U

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AS046516	Sample Date:	10/05/93
Client Sample ID:	W-C	Analysis Date:	10/12/93

Parameter	Units = UG/L	Result	Q
Bromodichloromethane		0.20	U
Bromoform		1.0	U
Bromomethane		1.0	U
Carbon Tetrachloride		0.20	U
Chlorobenzene		0.20	U
Chloroethane		1.0	U
2-Chloroethylvinyl ether		1.0	U
Chloroform		0.20	U
Chloromethane		1.0	U
Dibromochloromethane		0.20	U
1,2-Dichlorobenzene		0.40	U
1,3-Dichlorobenzene		0.40	U
1,4-Dichlorobenzene		0.40	U
1,1-Dichloroethane		0.55	
1,2-Dichloroethane		0.20	U
1,1-Dichloroethene		0.20	U
trans-1,2-Dichloroethene		0.20	U
1,2-Dichloropropane		0.20	U
cis-1,3-Dichloropropene		0.20	U
trans-1,3-Dichloropropene		0.20	U
Methylene chloride		0.20	U
1,1,2,2-Tetrachloroethane		0.20	U
Tetrachloroethene		0.20	U
1,1,1-Trichloroethane		0.20	U
1,1,2-Trichloroethane		0.20	U
Trichloroethene		0.50	
Trichlorofluoromethane		0.20	U
Vinyl chloride		1.0	U

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AS046517	Sample Date:	10/05/93
Client Sample ID:	W-D	Analysis Date:	10/12/93

Parameter	Units = UG/L	Result	Q
Bromodichloromethane		0.20	U
Bromoform		1.0	U
Bromomethane		1.0	U
Carbon Tetrachloride		0.20	U
Chlorobenzene		0.20	U
Chloroethane		1.0	U
2-Chloroethylvinyl ether		1.0	U
Chloroform		0.20	U
Chloromethane		1.0	U
Dibromochloromethane		0.20	U
1,2-Dichlorobenzene		0.40	U
1,3-Dichlorobenzene		0.40	U
1,4-Dichlorobenzene		0.40	U
1,1-Dichloroethane		0.20	U
1,2-Dichloroethane		0.20	U
1,1-Dichloroethene		0.20	U
trans-1,2-Dichloroethene		0.20	U
1,2-Dichloropropane		0.20	U
cis-1,3-Dichloropropene		0.20	U
trans-1,3-Dichloropropene		0.20	U
Methylene chloride		0.20	U
1,1,2,2-Tetrachloroethane		0.20	U
Tetrachloroethene		0.20	U
1,1,1-Trichloroethane		0.20	U
1,1,2-Trichloroethane		0.20	U
Trichloroethene		0.20	U
Trichlorofluoromethane		0.20	U
Vinyl chloride		1.0	U

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AS046518	Sample Date:	10/05/93
Client Sample ID:	W-E	Analysis Date:	10/12/93

Parameter	Units = UG/L	Result	Q
Bromodichloromethane		0.20	U
Bromoform		1.0	U
Bromomethane		1.0	U
Carbon Tetrachloride		0.20	U
Chlorobenzene		0.20	U
Chloroethane		1.0	U
2-Chloroethylvinyl ether		1.0	U
Chloroform		0.20	U
Chloromethane		1.0	U
Dibromochloromethane		0.20	U
1,2-Dichlorobenzene		0.40	U
1,3-Dichlorobenzene		0.40	U
1,4-Dichlorobenzene		0.40	U
1,1-Dichloroethane		0.20	U
1,2-Dichloroethane		0.20	U
1,1-Dichloroethene		0.20	U
trans-1,2-Dichloroethene		0.20	U
1,2-Dichloropropane		0.20	U
cis-1,3-Dichloropropene		0.20	U
trans-1,3-Dichloropropene		0.20	U
Methylene chloride		0.20	U
1,1,2,2-Tetrachloroethane		0.20	U
Tetrachloroethene		0.20	U
1,1,1-Trichloroethane		0.20	U
1,1,2-Trichloroethane		0.20	U
Trichloroethene		0.20	U
Trichlorofluoromethane		0.20	U
Vinyl chloride		1.0	U

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3319	Dilution Factor:	1
Lab Sample ID:	AS046464	Sample Date:	10/04/93
Client Sample ID:	W-F	Analysis Date:	10/12/93

Parameter Units = UG/L	Result	Q
Bromodichloromethane	0.20	U
Bromoform	1.0	U
Bromomethane	1.0	U
Carbon Tetrachloride	0.20	U
Chlorobenzene	0.20	U
Chloroethane	1.0	U
2-Chloroethylvinyl ether	1.0	U
Chloroform	0.20	U
Chloromethane	1.0	U
Dibromochloromethane	0.20	U
1,2-Dichlorobenzene	0.40	U
1,3-Dichlorobenzene	0.40	U
1,4-Dichlorobenzene	0.40	U
1,1-Dichloroethane	0.20	U
1,2-Dichloroethane	0.20	U
1,1-Dichloroethene	0.20	U
trans-1,2-Dichloroethene	0.20	U
1,2-Dichloropropane	0.20	U
cis-1,3-Dichloropropene	0.20	U
trans-1,3-Dichloropropene	0.20	U
Methylene chloride	0.20	U
1,1,2,2-Tetrachloroethane	0.20	U
Tetrachloroethene	0.20	U
1,1,1-Trichloroethane	0.20	U
1,1,2-Trichloroethane	0.20	U
Trichloroethene	0.20	U
Trichlorofluoromethane	0.20	U
Vinyl chloride	1.0	U

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AS046519	Sample Date:	10/05/93
Client Sample ID:	W-G	Analysis Date:	10/12/93

Parameter	Units = UG/L	Result	Q
Bromodichloromethane		0.20	U
Bromoform		1.0	U
Bromomethane		1.0	U
Carbon Tetrachloride		0.20	U
Chlorobenzene		0.20	U
Chloroethane		1.0	U
2-Chloroethylvinyl ether		1.0	U
Chloroform		0.20	U
Chloromethane		1.0	U
Dibromochloromethane		0.20	U
1,2-Dichlorobenzene		0.40	U
1,3-Dichlorobenzene		0.40	U
1,4-Dichlorobenzene		0.40	U
1,1-Dichloroethane		0.20	U
1,2-Dichloroethane		0.20	U
1,1-Dichloroethene		0.20	U
trans-1,2-Dichloroethene		0.24	
1,2-Dichloropropane		0.20	U
cis-1,3-Dichloropropene		0.20	U
trans-1,3-Dichloropropene		0.20	U
Methylene chloride		0.20	U
1,1,2,2-Tetrachloroethane		0.20	U
Tetrachloroethene		0.20	U
1,1,1-Trichloroethane		0.20	U
1,1,2-Trichloroethane		0.20	U
Trichloroethene		0.20	U
Trichlorofluoromethane		0.20	U
Vinyl chloride		1.0	U

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AS046520	Sample Date:	10/05/93
Client Sample ID:	W-H	Analysis Date:	10/13/93

Parameter Units = UG/L	Result	Q
Bromodichloromethane	0.20	U
Bromoform	1.0	U
Bromomethane	1.0	U
Carbon Tetrachloride	0.20	U
Chlorobenzene	0.20	U
Chloroethane	1.0	U
2-Chloroethylvinyl ether	1.0	U
Chloroform	0.20	U
Chloromethane	1.0	U
Dibromochloromethane	0.20	U
1,2-Dichlorobenzene	0.40	U
1,3-Dichlorobenzene	0.40	U
1,4-Dichlorobenzene	0.40	U
1,1-Dichloroethane	0.20	U
1,2-Dichloroethane	0.20	U
1,1-Dichloroethene	0.20	U
trans-1,2-Dichloroethene	0.20	U
1,2-Dichloropropane	0.20	U
cis-1,3-Dichloropropene	0.20	U
trans-1,3-Dichloropropene	0.20	U
Methylene chloride	0.20	U
1,1,2,2-Tetrachloroethane	0.20	U
Tetrachloroethene	0.20	U
1,1,1-Trichloroethane	0.20	U
1,1,2-Trichloroethane	0.20	U
Trichloroethene	0.20	U
Trichlorofluoromethane	0.20	U
Vinyl chloride	1.0	U

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AS046513	Sample Date:	10/05/93
Client Sample ID:	W-3	Analysis Date:	10/15/93

Parameter	Units = UG/L	Result	Q
Bromodichloromethane		0.20	U
Bromoform		1.0	U
Bromomethane		1.0	U
Carbon Tetrachloride		0.20	U
Chlorobenzene		0.20	U
Chloroethane		2.6	
2-Chloroethylvinyl ether		1.0	U
Chloroform		0.20	U
Chloromethane		8.7	
Dibromochloromethane		0.20	U
1,2-Dichlorobenzene		0.40	U
1,3-Dichlorobenzene		0.40	U
1,4-Dichlorobenzene		0.52	
1,1-Dichloroethane		0.35	
1,2-Dichloroethane		0.20	U
1,1-Dichloroethene		0.20	U
trans-1,2-Dichloroethene		0.81	
1,2-Dichloropropane		0.20	U
cis-1,3-Dichloropropene		0.20	U
trans-1,3-Dichloropropene		0.20	U
Methylene chloride		0.21	
1,1,2,2-Tetrachloroethane		0.20	U
Tetrachloroethene		0.20	U
1,1,1-Trichloroethane		0.20	U
1,1,2-Trichloroethane		0.20	U
Trichloroethene		0.20	U
Trichlorofluoromethane		0.20	U
Vinyl chloride		1.0	U

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3319	Dilution Factor:	1
Lab Sample ID:	AS046462	Sample Date:	10/04/93
Client Sample ID:	W-5	Analysis Date:	10/11/93

Parameter (Units = UG/L)	Result	Q
Bromodichloromethane	0.20	U
Bromoform	1.0	U
Bromomethane	1.0	U
Carbon Tetrachloride	0.20	U
Chlorobenzene	0.20	U
Chloroethane	1.0	U
2-Chloroethylvinyl ether	1.0	U
Chloroform	0.20	U
Chloromethane	1.0	U
Dibromochloromethane	0.20	U
1,2-Dichlorobenzene	0.40	U
1,3-Dichlorobenzene	0.40	U
1,4-Dichlorobenzene	0.40	U
1,1-Dichloroethane	0.20	U
1,2-Dichloroethane	0.20	U
1,1-Dichloroethene	0.20	U
trans-1,2-Dichloroethene	0.20	U
1,2-Dichloropropane	0.20	U
cis-1,3-Dichloropropene	0.20	U
trans-1,3-Dichloropropene	0.20	U
Methylene chloride	0.20	U
1,1,2,2-Tetrachloroethane	0.20	U
Tetrachloroethene	0.20	U
1,1,1-Trichloroethane	0.20	U
1,1,2-Trichloroethane	0.20	U
Trichloroethene	0.20	U
Trichlorofluoromethane	0.20	U
Vinyl chloride	1.0	U

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3319	Dilution Factor:	1
Lab Sample ID:	AS046462MS	Sample Date:	10/04/93
Client Sample ID:	W-5 MS	Analysis Date:	10/11/93

Parameter	Units = UG/L	Result	Q
Bromodichloromethane		21	
Bromoform		18	
Bromomethane		21	
Carbon Tetrachloride		20	
Chlorobenzene		35	
Chloroethane		19	
2-Chloroethylvinyl ether		14	
Chloroform		20	
Chloromethane		20	
Dibromochloromethane		58	
1,2-Dichlorobenzene		32	
1,3-Dichlorobenzene		38	
1,4-Dichlorobenzene		35	
1,1-Dichloroethane		22	
1,2-Dichloroethane		21	
1,1-Dichloroethene		22	
trans-1,2-Dichloroethene		38	
1,2-Dichloropropane		20	
cis-1,3-Dichloropropene		19	
trans-1,3-Dichloropropene		0.20	U
Methylene chloride		19	
1,1,2,2-Tetrachloroethane		36	
Tetrachloroethene		0.20	U
1,1,1-Trichloroethane		21	
1,1,2-Trichloroethane		0.20	U
Trichloroethene		19	
Trichlorofluoromethane		20	
Vinyl chloride		42	

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3319	Dilution Factor:	1
Lab Sample ID:	AS046462SD	Sample Date:	10/04/93
Client Sample ID:	W-5 MSD	Analysis Date:	10/11/93

Parameter	Units = UG/L	Result	Q
Bromodichloromethane		23	
Bromoform		20	
Bromomethane		23	
Carbon Tetrachloride		22	
Chlorobenzene		41	
Chloroethane		21	
2-Chloroethylvinyl ether		15	
Chloroform		22	
Chloromethane		22	
Dibromochloromethane		65	
1,2-Dichlorobenzene		40	
1,3-Dichlorobenzene		43	
1,4-Dichlorobenzene		41	
1,1-Dichloroethane		24	
1,2-Dichloroethane		23	
1,1-Dichloroethene		24	
trans-1,2-Dichloroethene		44	
1,2-Dichloropropane		24	
cis-1,3-Dichloropropene		18	
trans-1,3-Dichloropropene		0.20	U
Methylene chloride		21	
1,1,2,2-Tetrachloroethane		43	
Tetrachloroethene		0.20	U
1,1,1-Trichloroethane		23	
1,1,2-Trichloroethane		0.20	U
Trichloroethene		23	
Trichlorofluoromethane		22	
Vinyl chloride		47	

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3319	Dilution Factor:	1
Lab Sample ID:	AS046463	Sample Date:	10/04/93
Client Sample ID:	W-8	Analysis Date:	10/12/93

Parameter	Units = UG/L	Result	Q
Bromodichloromethane		0.20	U
Bromoform		1.0	U
Bromomethane		1.0	U
Carbon Tetrachloride		0.20	U
Chlorobenzene		0.20	U
Chloroethane		1.0	U
2-Chloroethylvinyl ether		1.0	U
Chloroform		0.20	U
Chloromethane		1.0	U
Dibromochloromethane		0.20	U
1,2-Dichlorobenzene		0.40	U
1,3-Dichlorobenzene		0.40	U
1,4-Dichlorobenzene		0.40	U
1,1-Dichloroethane		0.20	U
1,2-Dichloroethane		0.20	U
1,1-Dichloroethene		0.20	U
trans-1,2-Dichloroethene		0.20	U
1,2-Dichloropropane		0.20	U
cis-1,3-Dichloropropene		0.20	U
trans-1,3-Dichloropropene		0.20	U
Methylene chloride		0.20	U
1,1,2,2-Tetrachloroethane		3.6	
Tetrachloroethene		0.20	U
1,1,1-Trichloroethane		0.76	
1,1,2-Trichloroethane		0.20	U
Trichloroethene		0.76	
Trichlorofluoromethane		0.20	U
Vinyl chloride		1.0	U

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3319	Dilution Factor:	1
Lab Sample ID:	AS046461	Sample Date:	10/04/93
Client Sample ID:	TRIP BLANK	Analysis Date:	10/11/93

Parameter Units = UG/L	Result	Q
Bromodichloromethane	0.20	U
Bromoform	1.0	U
Bromomethane	1.0	U
Carbon Tetrachloride	0.20	U
Chlorobenzene	0.20	U
Chloroethane	1.0	U
2-Chloroethylvinyl ether	1.0	U
Chloroform	0.20	U
Chloromethane	1.0	U
Dibromochloromethane	0.20	U
1,2-Dichlorobenzene	0.40	U
1,3-Dichlorobenzene	0.40	U
1,4-Dichlorobenzene	0.40	U
1,1-Dichloroethane	0.20	U
1,2-Dichloroethane	0.20	U
1,1-Dichloroethene	0.20	U
trans-1,2-Dichloroethene	0.20	U
1,2-Dichloropropane	0.20	U
cis-1,3-Dichloropropene	0.20	U
trans-1,3-Dichloropropene	0.20	U
Methylene chloride	0.20	U
1,1,2,2-Tetrachloroethane	0.31	
Tetrachloroethene	0.20	U
1,1,1-Trichloroethane	0.20	U
1,1,2-Trichloroethane	0.20	U
Trichloroethene	0.20	U
Trichlorofluoromethane	0.20	U
Vinyl chloride	1.0	U

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AS046512	Sample Date:	10/05/93
Client Sample ID:	TRIP BLANK	Analysis Date:	10/12/93

Parameter Units = UG/L	Result	Q
Bromodichloromethane	0.20	U
Bromoform	1.0	U
Bromomethane	1.0	U
Carbon Tetrachloride	0.20	U
Chlorobenzene	0.20	U
Chloroethane	1.0	U
2-Chloroethylvinyl ether	1.0	U
Chloroform	0.20	U
Chloromethane	1.0	U
Dibromochloromethane	0.20	U
1,2-Dichlorobenzene	0.40	U
1,3-Dichlorobenzene	0.40	U
1,4-Dichlorobenzene	0.40	U
1,1-Dichloroethane	0.20	U
1,2-Dichloroethane	0.20	U
1,1-Dichloroethene	0.20	U
trans-1,2-Dichloroethene	0.20	U
1,2-Dichloropropane	0.20	U
cis-1,3-Dichloropropene	0.20	U
trans-1,3-Dichloropropene	0.20	U
Methylene chloride	0.20	U
1,1,2,2-Tetrachloroethane	0.20	U
Tetrachloroethene	0.20	U
1,1,1-Trichloroethane	0.20	U
1,1,2-Trichloroethane	0.20	U
Trichloroethene	0.20	U
Trichlorofluoromethane	0.20	U
Vinyl chloride	1.0	U

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3319	Dilution Factor:	1
Lab Sample ID:	AR011805	Sample Date:	-
Client Sample ID:	METHOD BLANK(VBLK01)	Analysis Date:	10/11/93

Parameter Units = UG/L	Result	Q
Bromodichloromethane	0.20	U
Bromoform	1.0	U
Bromomethane	1.0	U
Carbon Tetrachloride	0.20	U
Chlorobenzene	0.20	U
Chloroethane	1.0	U
2-Chloroethylvinyl ether	1.0	U
Chloroform	0.20	U
Chloromethane	1.0	U
Dibromochloromethane	0.20	U
1,2-Dichlorobenzene	0.40	U
1,3-Dichlorobenzene	0.40	U
1,4-Dichlorobenzene	0.40	U
1,1-Dichloroethane	0.20	U
1,2-Dichloroethane	0.20	U
1,1-Dichloroethene	0.20	U
trans-1,2-Dichloroethene	0.20	U
1,2-Dichloropropane	0.20	U
cis-1,3-Dichloropropene	0.20	U
trans-1,3-Dichloropropene	0.20	U
Methylene chloride	0.20	U
1,1,2,2-Tetrachloroethane	0.20	U
Tetrachloroethene	0.20	U
1,1,1-Trichloroethane	0.20	U
1,1,2-Trichloroethane	0.20	U
Trichloroethene	0.20	U
Trichlorofluoromethane	0.20	U
Vinyl chloride	1.0	U

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METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3319	Dilution Factor:	1
Lab Sample ID:	AR011806	Sample Date:	-
Client Sample ID:	MATRIX SPIKE BLANK	Analysis Date:	10/11/93

Parameter	Units = UG/L	Result	Q
Bromodichloromethane		21	
Bromoform		21	
Bromomethane		24	
Carbon Tetrachloride		22	
Chlorobenzene		38	
Chloroethane		22	
2-Chloroethylvinyl ether		24	
Chloroform		21	
Chloromethane		25	
Dibromochloromethane		65	
1,2-Dichlorobenzene		34	
1,3-Dichlorobenzene		40	
1,4-Dichlorobenzene		39	
1,1-Dichloroethane		24	
1,2-Dichloroethane		21	
1,1-Dichloroethene		23	
trans-1,2-Dichloroethene		42	
1,2-Dichloropropane		21	
cis-1,3-Dichloropropene		21	
trans-1,3-Dichloropropene		0.20	U
Methylene chloride		19	
1,1,2,2-Tetrachloroethane		41	
Tetrachloroethene		0.20	U
1,1,1-Trichloroethane		22	
1,1,2-Trichloroethane		0.20	U
Trichloroethene		21	
Trichlorofluoromethane		21	
Vinyl chloride		46	

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METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3319	Dilution Factor:	1
Lab Sample ID:	AR011807	Sample Date:	-
Client Sample ID:	METHOD BLANK(VBLK02)	Analysis Date:	10/12/93

Parameter	Units = UG/L	Result	Q
Bromodichloromethane		0.20	U
Bromoform		1.0	U
Bromomethane		1.0	U
Carbon Tetrachloride		0.20	U
Chlorobenzene		0.20	U
Chloroethane		1.0	U
2-Chloroethylvinyl ether		1.0	U
Chloroform		0.20	U
Chloromethane		1.0	U
Dibromochloromethane		0.20	U
1,2-Dichlorobenzene		0.40	U
1,3-Dichlorobenzene		0.40	U
1,4-Dichlorobenzene		0.40	U
1,1-Dichloroethane		0.20	U
1,2-Dichloroethane		0.20	U
1,1-Dichloroethene		0.20	U
trans-1,2-Dichloroethene		0.20	U
1,2-Dichloropropane		0.20	U
cis-1,3-Dichloropropene		0.20	U
trans-1,3-Dichloropropene		0.20	U
Methylene chloride		0.20	U
1,1,2,2-Tetrachloroethane		0.20	U
Tetrachloroethene		0.20	U
1,1,1-Trichloroethane		0.20	U
1,1,2-Trichloroethane		0.20	U
Trichloroethene		0.20	U
Trichlorofluoromethane		0.20	U
Vinyl chloride		1.0	U

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3319	Dilution Factor:	1
Lab Sample ID:	AR011808	Sample Date:	-
Client Sample ID:	MATRIX SPIKE BLANK	Analysis Date:	10/12/93

Parameter	Units = UG/L	Result	Q
Bromodichloromethane		22	
Bromoform		20	
Bromomethane		18	
Carbon Tetrachloride		20	
Chlorobenzene		17	
Chloroethane		18	
2-Chloroethylvinyl ether		15	
Chloroform		22	
Chloromethane		25	
Dibromochloromethane		61	
1,2-Dichlorobenzene		17	
1,3-Dichlorobenzene		19	
1,4-Dichlorobenzene		17	
1,1-Dichloroethane		24	
1,2-Dichloroethane		23	
1,1-Dichloroethene		22	
trans-1,2-Dichloroethene		21	
1,2-Dichloropropane		21	
cis-1,3-Dichloropropene		21	
trans-1,3-Dichloropropene		0.20	U
Methylene chloride		20	
1,1,2,2-Tetrachloroethane		38	
Tetrachloroethene		0.20	U
1,1,1-Trichloroethane		21	
1,1,2-Trichloroethane		0.20	U
Trichloroethene		20	
Trichlorofluoromethane		20	
Vinyl chloride		35	

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AR011815	Sample Date:	-
Client Sample ID:	METHOD BLANK(VBLK03)	Analysis Date:	

Parameter	Units = UG/L	Result	Q
Bromodichloromethane		0.20	U
Bromoform		1.0	U
Bromomethane		1.0	U
Carbon Tetrachloride		0.20	U
Chlorobenzene		0.20	U
Chloroethane		1.0	U
2-Chloroethylvinyl ether		1.0	U
Chloroform		0.20	U
Chloromethane		1.0	U
Dibromochloromethane		0.20	U
1,2-Dichlorobenzene		0.40	U
1,3-Dichlorobenzene		0.40	U
1,4-Dichlorobenzene		0.40	U
1,1-Dichloroethane		0.20	U
1,2-Dichloroethane		0.20	U
1,1-Dichloroethene		0.20	U
trans-1,2-Dichloroethene		0.20	U
1,2-Dichloropropane		0.20	U
cis-1,3-Dichloropropene		0.20	U
trans-1,3-Dichloropropene		0.20	U
Methylene chloride		0.20	U
1,1,2,2-Tetrachloroethane		0.20	U
Tetrachloroethene		0.20	U
1,1,1-Trichloroethane		0.20	U
1,1,2-Trichloroethane		0.20	U
Trichloroethene		0.20	U
Trichlorofluoromethane		0.20	U
Vinyl chloride		1.0	U

GUNNVILLE ENERGY SYSTEMS

METHOD 601 - PURGEABLE HALOCARBONS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AR011816	Sample Date:	-
Client Sample ID:	METHOD BLANK(VBLK04)	Analysis Date:	

Parameter Units = UG/L	Result	Q
Bromodichloromethane	0.20	U
Bromoform	1.0	U
Bromomethane	1.0	U
Carbon Tetrachloride	0.20	U
Chlorobenzene	0.20	U
Chloroethane	1.0	U
2-Chloroethylvinyl ether	1.0	U
Chloroform	0.20	U
Chloromethane	1.0	U
Dibromochloromethane	0.20	U
1,2-Dichlorobenzene	0.40	U
1,3-Dichlorobenzene	0.40	U
1,4-Dichlorobenzene	0.40	U
1,1-Dichloroethane	0.20	U
1,2-Dichloroethane	0.20	U
1,1-Dichloroethene	0.20	U
trans-1,2-Dichloroethene	0.20	U
1,2-Dichloropropane	0.20	U
cis-1,3-Dichloropropene	0.20	U
trans-1,3-Dichloropropene	0.20	U
Methylene chloride	0.20	U
1,1,2,2-Tetrachloroethane	0.20	U
Tetrachloroethene	0.20	U
1,1,1-Trichloroethane	0.20	U
1,1,2-Trichloroethane	0.20	U
Trichloroethene	0.20	U
Trichlorofluoromethane	0.20	U
Vinyl chloride	1.0	U

GUNNVILLE ENERGY SYSTEMS
METHOD 601 - PURGEABLE HALOCARBONS
WATER SURROGATE RECOVERY

Laboratory: Recra Environmental, Inc. - RECNY
Lab Job No: A93-3319

Client Sample ID	Lab Sample ID	S1 BCM #
MATRIX SPIKE BLANK	AR011806	97
MATRIX SPIKE BLANK	AR011808	91
METHOD BLANK(VBLK01)	AR011805	92
METHOD BLANK(VBLK02)	AR011807	87
TRIP BLANK	AS046461	85
W-5	AS046462	91
W-5 MS	AS046462MS	94
W-5 MSD	AS046462SD	93
W-8	AS046463	86
W-F	AS046464	89

S1 BCM = Bromochloromethane

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

GUNNVILLE ENERGY SYSTEMS
METHOD 601 - PURGEABLE HALOCARBONS
WATER SURROGATE RECOVERY

aboratory: Recra Environmental, Inc. - RECNY
ab Job No: A93-3335

Client Sample ID	Lab Sample ID	S1 BCM #
METHOD BLANK(VBLK03)	AR011815	87
METHOD BLANK(VBLK04)	AR011816	89
TRIP BLANK	AS046512	83
W-3	AS046513	92
W-A	AS046514	90
W-B	AS046515	88
W-C	AS046516	89
W-D	AS046517	90
W-E	AS046518	91
W-G	AS046519	90
W-H	AS046520	86

S1 BCM = Bromochloromethane

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

GUNNVILLE ENERGY SYSTEMS

METHOD 602 - PURGEABLE AROMATICS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AS046514	Sample Date:	10/05/93
Client Sample ID:	W-A	Analysis Date:	10/12/93

Parameter Units = UG/L	Result	Q
Benzene	0.20	U
Chlorobenzene	0.20	U
1,2-Dichlorobenzene	0.40	U
1,3-Dichlorobenzene	0.40	U
1,4-Dichlorobenzene	0.40	U
Ethyl benzene	0.20	U
Toluene	0.20	U

GUNNVILLE ENERGY SYSTEMS

METHOD 602 - PURGEABLE AROMATICS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AS046515	Sample Date:	10/05/93
Client Sample ID:	W-B	Analysis Date:	10/12/93

Parameter Units = UG/L	Result	Q
Benzene	0.20	U
Chlorobenzene	0.20	U
1,2-Dichlorobenzene	0.40	U
1,3-Dichlorobenzene	0.40	U
1,4-Dichlorobenzene	0.40	U
Ethyl benzene	0.20	U
Toluene	0.20	U

GUNNVILLE ENERGY SYSTEMS

METHOD 602 - PURGEABLE AROMATICS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AS046516	Sample Date:	10/05/93
Client Sample ID:	W-C	Analysis Date:	10/12/93

Parameter Units = UG/L	Result	Q
Benzene	0.46	
Chlorobenzene	0.20	U
1,2-Dichlorobenzene	0.40	U
1,3-Dichlorobenzene	0.40	U
1,4-Dichlorobenzene	0.40	U
Ethyl benzene	0.20	U
Toluene	0.20	U

GUNNVILLE ENERGY SYSTEMS

METHOD 602 - PURGEABLE AROMATICS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AS046517	Sample Date:	10/05/93
Client Sample ID:	W-D	Analysis Date:	10/12/93

Parameter	Units = UG/L	Result	Q
Benzene		0.20	U
Chlorobenzene		0.20	U
1,2-Dichlorobenzene		0.40	U
1,3-Dichlorobenzene		0.40	U
1,4-Dichlorobenzene		0.40	U
Ethyl benzene		0.20	U
Toluene		0.20	U

GUNNVILLE ENERGY SYSTEMS

METHOD 602 - PURGEABLE AROMATICS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AS046518	Sample Date:	10/05/93
Client Sample ID:	W-E	Analysis Date:	10/12/93

Parameter Units = UG/L	Result	Q
Benzene	0.20	U
Chlorobenzene	0.20	U
1,2-Dichlorobenzene	0.40	U
1,3-Dichlorobenzene	0.40	U
1,4-Dichlorobenzene	0.40	U
Ethyl benzene	0.20	U
Toluene	0.20	U

GUNNVILLE ENERGY SYSTEMS

0033

METHOD 602 - PURGEABLE AROMATICS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3319	Dilution Factor:	1
Lab Sample ID:	AS046464	Sample Date:	10/04/93
Client Sample ID:	W-F	Analysis Date:	10/12/93

Parameter	Units = UG/L	Result	Q
Benzene		0.20	U
Chlorobenzene		0.20	U
1,2-Dichlorobenzene		0.40	U
1,3-Dichlorobenzene		0.40	U
1,4-Dichlorobenzene		0.40	U
Ethyl benzene		0.20	U
Toluene		0.20	U

GUNNVILLE ENERGY SYSTEMS 0034

METHOD 602 - PURGEABLE AROMATICS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AS046519	Sample Date:	10/05/93
Client Sample ID:	W-G	Analysis Date:	10/12/93

Parameter Units = UG/L	Result	Q
Benzene	0.20	U
Chlorobenzene	0.20	U
1,2-Dichlorobenzene	0.40	U
1,3-Dichlorobenzene	0.40	U
1,4-Dichlorobenzene	0.40	U
Ethyl benzene	0.20	U
Toluene	0.20	U

GUNNVILLE ENERGY SYSTEMS

METHOD 602 - PURGEABLE AROMATICS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AS046520	Sample Date:	10/05/93
Client Sample ID:	W-H	Analysis Date:	10/13/93

Parameter Units = UG/L	Result	Q
Benzene	0.20	U
Chlorobenzene	0.20	U
1,2-Dichlorobenzene	0.40	U
1,3-Dichlorobenzene	0.40	U
1,4-Dichlorobenzene	0.40	U
Ethyl benzene	0.20	U
Toluene	0.20	U

GUNNVILLE ENERGY SYSTEMS

METHOD 602 - PURGEABLE AROMATICS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3335	Dilution Factor:	1
Lab Sample ID:	AS046513	Sample Date:	10/05/93
Client Sample ID:	W-3	Analysis Date:	10/15/93

Parameter	Units = UG/L	Result	Q
Benzene		0.20	U
Chlorobenzene		0.20	U
1,2-Dichlorobenzene		0.40	U
1,3-Dichlorobenzene		0.40	U
1,4-Dichlorobenzene		1.6	
Ethyl benzene		0.20	U
Toluene		0.20	U

GUNNVILLE ENERGY SYSTEMS

METHOD 602 - PURGEABLE AROMATICS

aboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
ab Job No:	A93-3319	Dilution Factor:	1
ab Sample ID:	AS046462	Sample Date:	10/04/93
lient Sample ID:	W-5	Analysis Date:	10/11/93

Parameter	Units = UG/L	Result	Q
Benzene		0.20	U
Chlorobenzene		0.20	U
1,2-Dichlorobenzene		0.40	U
1,3-Dichlorobenzene		0.40	U
1,4-Dichlorobenzene		0.40	U
Ethyl benzene		0.20	U
Toluene		0.20	U

GUNNVILLE ENERGY SYSTEMS 0038

METHOD 602 - PURGEABLE AROMATICS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3319	Dilution Factor:	1
Lab Sample ID:	AS046462MS	Sample Date:	10/04/93
Client Sample ID:	W-5 MS	Analysis Date:	10/11/93

Parameter Units = UG/L	Result	Q
Benzene	22	
Chlorobenzene	37	
1,2-Dichlorobenzene	37	
1,3-Dichlorobenzene	36	
1,4-Dichlorobenzene	35	
Ethyl benzene	20	
Toluene	21	

GUNNVILLE ENERGY SYSTEMS

0039

METHOD 602 - PURGEABLE AROMATICS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3319	Dilution Factor:	1
Lab Sample ID:	AS046462SD	Sample Date:	10/04/93
Client Sample ID:	W-5 MSD	Analysis Date:	10/11/93

Parameter	Units = UG/L	Result	Q
Benzene		24	
Chlorobenzene		44	
1,2-Dichlorobenzene		44	
1,3-Dichlorobenzene		42	
1,4-Dichlorobenzene		43	
Ethyl benzene		23	
Toluene		24	

GUNNVILLE ENERGY SYSTEMS

0040

METHOD 602 - PURGEABLE AROMATICS

Laboratory:	Recra Environmental, Inc. - RECNY	Matrix:	Aqueous
Lab Job No:	A93-3319	Dilution Factor:	1
Lab Sample ID:	AS046463	Sample Date:	10/04/93
Client Sample ID:	W-8	Analysis Date:	10/12/93

Parameter Units = UG/L	Result	Q
Benzene	0.71	
Chlorobenzene	0.20	U
1,2-Dichlorobenzene	0.40	U
1,3-Dichlorobenzene	0.40	U
1,4-Dichlorobenzene	0.40	U
Ethyl benzene	0.20	U
Toluene	0.20	U

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233

APR 05 1994

Langdon Marsh
Acting Commissioner

Pine Hill Concrete Corp.
2255 Bailey Ave.
Buffalo, NY 14215

Dear Sirs/Madam:

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

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

DEC Site No.: **915068**
Site Name: Lancaster Sanitary Landfill
Site Address: Gunnville Rd., Lancaster, NY 14086

Classification Change from 2a to 4

The reason for the change is as follows: The site has confirmed hazardous waste disposal; associated volatile and metallic contaminants are confirmed to be present in the groundwater at levels exceeding class GA standard. Residential areas within 1 mile of the site use private wells as a source of drinking water. Geologic conditions are favorable for the migration of contaminants through groundwater from the landfill. The landfill has already been capped under an approved DSW closure plan and is in an O&M mode including groundwater monitoring. A classification of 4 is appropriate and would allow the DOH and DHWR to review the current groundwater monitoring program to ensure that it is protective of the residents in the area. The monitoring program could be expanded, if appropriate.

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:

Langdon Marsh, Acting Commissioner
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233-0001

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

bcc: w/o Enc.
E. Barcomb
R. Marino
T. Reamon
T. Sylvester

w/ Enc. (Copy of Site Report form only)
R. Dana
G. Anders Carlson, NYSDOH
L. Concra
A. Snyder, R-9
P. Buechi
E. Belmore
J. Rider
file

TS/DF:ker

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York, 12233

Langdon Marsh
Acting Commissioner

Mr. David Swarts, Clerk
County of Erie
Erie County Hall
25 Delaware Ave.
Buffalo, NY 14202

Dear Mr. Swarts:

The Department of Environmental Conservation (DEC) maintains a Registry of sites where hazardous waste disposal has occurred. Property located at Gunnville Rd. in the Town of Lancaster and County of Erie and designated as Tax Map Number 83.00-5-6.1 and 84.00-3-3.1 was recently reclassified as a Class 4 in the Registry. The name and site ID number of this property as listed in the Registry is Lancaster Sanitary Landfill, #915068.

The Classification Code 4 means that the site is properly closed but requires continued management.

We are sending this letter to you and others who own property near the site listed above, as well as the county and town clerks. We are notifying you about these activities at this site because we believe it is important to keep you informed.

If you currently are renting or leasing your property to someone else, please share this information with them. If you no longer own the property to which this letter was sent, please provide this information to the new owner and provide this office with the name and address of the new owner so that we can correct our records.

The reason for this recent classification decision is as follows:

The site has confirmed hazardous waste disposal; associated volatile and metallic contaminants are confirmed to be present in the groundwater at levels exceeding class GA standards. Residential areas within 1 mile of the site use private wells as a source of drinking water. Geologic conditions are favorable for the migration of contaminants through groundwater from the landfill. The landfill has

already been capped under an approved DSW closure plan and is in an O&M mode including groundwater monitoring. A classification of 4 is appropriate and would allow the DOH and DHWR to review the current groundwater monitoring program to ensure that it is protective of the residents in the area. The monitoring program could be expanded, if appropriate.

If you would like additional information about this site or the inactive hazardous waste site remedial program, call:

DEC's Inactive Hazardous Waste Site Toll-Free Information Number **1-800-342-9296**. Or New York State Health Department's Health Liaison Program (HeLP) **1-800-458-1158, ext. 402.**

Sincerely,

Robert L. Marino
Chief, Site Control Section
Bureau of Hazardous Site Control
Div. of Haz. Waste Remediation

bcc: R. Marino
T. Reamon
P. Nelson, Reg. 9
T. Sylvester
L. Ennist
A. Carlson
file

TS:ker

New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York, 12233

Langdon Marsh
Acting Commissioner

APR 05 1994

Mr. Robert P. Thill, Clerk
Town of Lancaster
21 Central Ave.
Lancaster, NY 14086

Dear Mr. Thill:

The Department of Environmental Conservation (DEC) maintains a Registry of sites where hazardous waste disposal has occurred. Property located at Gunnville Rd. in the Town of Lancaster and County of Erie and designated as Tax Map Number 83.00-5-6.1 and 84.00-3-3.1 was recently reclassified as a Class 4 in the Registry. The name and site ID number of this property as listed in the Registry is Lancaster Sanitary Landfill, #915068.

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is in an O&M mode including groundwater monitoring. A classification of 4 is appropriate and would allow the DOH and DHWR to review the current groundwater monitoring program to ensure that it is protective of the residents in the area. The monitoring program could be expanded, if appropriate.

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Sincerely,

Robert L. Marino
Chief, Site Control Section
Bureau of Hazardous Site Control
Div. of Haz. Waste Remediation

bcc: R. Marino
T. Reamon
P. Nelson, Reg. 9
T. Sylvester
L. Ennist
A. Carlson
file

TS:ker